



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1169070
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: _____



1169070

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> _____ <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. 7777

Date	9-25-13	Sec.	8	Twp.	18	Range	11	County	Barton	State	Ks	On Location		Finish	4:30 PM
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Lease	BCCIC	Well No.	1	Owner	DE to 120th Ave, 1/2 N, W/S										
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Contractor	Southwind #2	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.													
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Type Job	Surface	Charge To	RJM Company												
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Hole Size	12 1/4"	T.D.	308'	Street											
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Csg.	8 5/8"	Depth	308'	City											
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Tbg. Size		Depth		State											
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Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.											
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Cement Left in Csg.	15'	Shoe Joint	15'	Cement Amount Ordered	250 5x Common 3% CC										
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Meas Line		Displace	18 1/2 BLS	2 1/2 gel, 1/2 # Flo - seal											
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EQUIPMENT				Common	250										
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Pumptrk	15 No.	Cementer	Nick	Poz. Mix											
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Bulktrk	14 No.	Driver	Clayton	Gel.	5										
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Bulktrk	p.w. No.	Driver	Rick	Calcium	9										
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JOB SERVICES & REMARKS				Hulls											
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Remarks:	Cement did Circulate.			Salt											
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Rat Hole				Flowseal	125#										
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Mouse Hole				Kol-Seal											
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Centralizers				Mud CLR 48											
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Baskets				CFL-117 or CD110 CAF 38											
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D/V or Port Collar				Sand											
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				Handling	266										
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				Mileage											
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FLOAT EQUIPMENT				Guide Shoe											
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				Centralizer											
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				Baskets											
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				AFU Inserts											
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				Float Shoe											
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				Latch Down											
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				Pumptrk Charge	Surface										
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				Mileage	23										
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				Tax											
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				Discount											
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X Signature	William Sanders			Total Charge											
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GENERAL TERMS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

2. More specifically:

(A) Nothing in this contract shall be 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
Cell 785-324-1041

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

No. 7785

Date	10-1-13	Sec.	8	Twp.	18	Range	11	County	Barton	State	Ks	On Location		Finish	9:15 PM
Lease								Location		Clartin, Ks 17W, 1 1/2 S W 1/4 into					
BCCJC								Well No.		#1					
Contractor								Owner		To Quality Oilwell Cementing, Inc.					
Southwind #2								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								Charge To		RDM Company					
Production								Street							
Hole Size								Depth							
7 7/8"								3376'							
Csg.								Depth							
5/2" New 15.50"								3380'							
Tbg. Size								City		State					
Tool								The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.								Cement Amount Ordered		180 5x Common 10% Salt					
42.50'								Shoe Joint		42.50'					
Meas Line								Displace		79 1/4 BLS 5% Gilsonite - 500 gal mud Cleas 48					
EQUIPMENT								Common							
Pumptrk								Poz. Mix							
16 No. Cementer Helper								Gel.							
Billy								Calcium							
Bulktrk								Hulls							
14 No. Driver								Salt		16					
Doug								Flowseal							
Bulktrk								Kol-Seal		900#					
P.U. No. Driver								Mud CLR 48		500 gal					
Rick								CFL-117 or CD110 CAF		38					
JOB SERVICES & REMARKS								Sand							
Remarks:								Handling		205					
Rat Hole								Mileage							
Mouse Hole								FLOAT EQUIPMENT							
Centralizers								Guide Shoe		1					
1-9								Centralizer		9 turbos					
Baskets								Baskets		2					
2, 5								AFU Inserts		1					
D/V or Port Collar								Float Shoe							
pipe on bottom break								Latch Down		Rotating head Assy					
Circulation pump 500 gal mud Cleas								Pumptrk Charge		prod Long String					
48, plug Rathole w/30 5x plug								Mileage		23					
mausehole w/15 5x Hook to 5 1/2"								Tax							
Casing + mix 135 5x Cement. shut								Discount							
down wash pump + lines, Released								Total Charge							
plug + displaced with 79 1/4 BLS															
Released + held															
Lift pressure 1700 #															
Land plug to 1200 #															
Signature															
William L. L...															

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(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.



DRILL STEM TEST REPORT

Prepared For: **RJM Company**

PO Box 256
Clafin Ks, 67525-0256

ATTN: Jim Musgrove

BCCJC #1

8/18s/11w/Barton

Start Date: 2013.09.28 @ 16:38:00

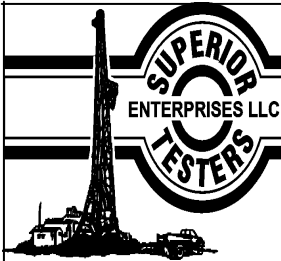
End Date: 2013.09.28 @ 23:26:00

Job Ticket #: 18496 DST #: 1

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

Printed: 2013.09.28 @ 23:53:18

RJM Company
8/18s/11w/Barton
BCCJC #1
DST # 1
LKC "A-B"
2013.09.28



DRILL STEM TEST REPORT

RJM Company
 PO Box 256
 Claflin Ks, 67525-0256
 ATTN: Jim Musgrove

8/18s/11w/Barton
BCCJC #1
 Job Ticket: 18496 **DST#: 1**
 Test Start: 2013.09.28 @ 16:38:00

GENERAL INFORMATION:

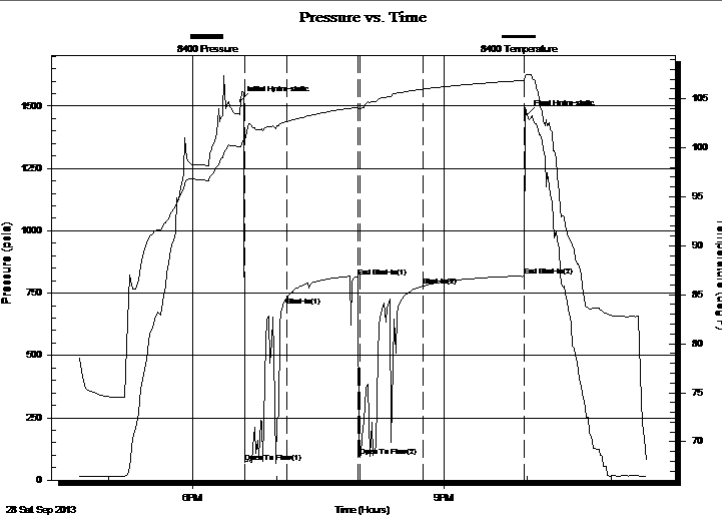
Formation: **LKC "A-B"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 18:37:30 Tester: Shane Konzem
 Time Test Ended: 23:26:00 Unit No: 3330/50/Great Bend
 Interval: **3080.00 ft (KB) To 3125.00 ft (KB) (TVD)** Reference Elevations: 1825.00 ft (KB)
 Total Depth: 3125.00 ft (KB) (TVD) 1816.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 9.00 ft

Serial #: 8400

Inside

Press @ RunDepth: 779.01 psia @ 3121.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.09.28 End Date: 2013.09.28 Last Calib.: 2013.09.28
 Start Time: 16:38:00 End Time: 23:26:00 Time On Btm: 2013.09.28 @ 18:34:30
 Time Off Btm: 2013.09.28 @ 21:59:30

TEST COMMENT: 1st Open/ 30 Minutes. Weak blow built to 2.5 inches in 5 gallon bucket.
 1st Shut In/ 45 Minutes. No blow back.
 2nd Open/ 50 Minutes. No blow, flushed tool at 5 minutes per Brad Miller gained a fair blow that built to 7 inches in 5 gallon bucket.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1520.74	100.15	Initial Hydro-static
3	73.37	100.72	Open To Flow (1)
33	700.13	102.65	Shut-In(1)
84	816.51	104.17	End Shut-In(1)
86	94.46	104.05	Open To Flow (2)
131	779.01	105.99	Shut-In(2)
203	817.85	106.88	End Shut-In(2)
205	1467.63	107.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	feet of gas	0.00

Gas Rates

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



DRILL STEM TEST REPORT

RJM Company
 PO Box 256
 Claflin Ks, 67525-0256
 ATTN: Jim Musgrove

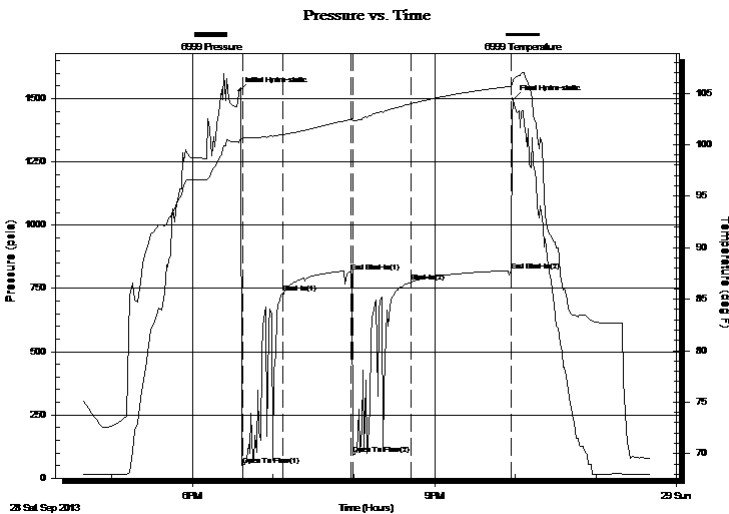
8/18s/11w/Barton
BCCJC #1
 Job Ticket: 18496 **DST#: 1**
 Test Start: 2013.09.28 @ 16:38:00

GENERAL INFORMATION:

Formation: **LKC "A-B"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 18:37:30
 Tester: Shane Konzem
 Time Test Ended: 23:26:00
 Unit No: 3330/50/Great Bend
Interval: 3080.00 ft (KB) To 3125.00 ft (KB) (TVD)
 Reference Elevations: 1825.00 ft (KB)
 Total Depth: 3125.00 ft (KB) (TVD) 1816.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 9.00 ft

Serial #: 6999 Outside
 Press @ RunDepth: 818.55 psia @ 3122.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.09.28 End Date: 2013.09.28 Last Calib.: 2013.09.28
 Start Time: 16:38:00 End Time: 23:41:00 Time On Btm: 2013.09.28 @ 18:34:30
 Time Off Btm: 2013.09.28 @ 21:58:00

TEST COMMENT: 1st Open/ 30 Minutes. Weak blow built to 2.5 inches in 5 gallon bucket.
 1st Shut In/ 45 Minutes. No blow back.
 2nd Open/ 50 Minutes. No blow, flushed tool at 5 minutes per Brad Miller gained a fair blow that built to 7 inches in 5 gallon bucket.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1529.65	100.23	Initial Hydro-static
3	49.73	100.64	Open To Flow (1)
33	733.43	100.98	Shut-In(1)
83	816.46	102.45	End Shut-In(1)
85	93.87	102.32	Open To Flow (2)
128	774.16	103.96	Shut-In(2)
203	818.55	105.66	End Shut-In(2)
204	1497.69	106.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	feet of gas	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: Jim Musgrove

8/18s/11w/Barton
BCCJC #1
 Job Ticket: 18496 **DST#: 1**
 Test Start: 2013.09.28 @ 16:38:00

Tool Information

Drill Pipe:	Length: 3079.00 ft	Diameter: 3.80 inches	Volume: 43.19 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:	50000.00 lb
			<u>Total Volume: 43.19 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	27000.00 lb
Depth to Top Packer:	3080.00 ft			Final	29000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	45.00 ft				
Tool Length:	66.00 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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Change Over Sub	1.00			3060.00	
Shut-In Tool	5.00			3065.00	
Hydroic Tool	5.00			3070.00	
Packer	5.00			3075.00	21.00 Bottom Of Top Packer
Packer	5.00			3080.00	
Perforations	40.00			3120.00	
Recorder	1.00	8400	Inside	3121.00	
Recorder	1.00	6999	Outside	3122.00	
Bullnose	3.00			3125.00	45.00 Bottom Packers & Anchor
Total Tool Length:	66.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM Company
 PO Box 256
 Claflin Ks, 67525-0256
 A T T N : Jim Musgrove

8/18s/11w/Barton
BCCJC #1
 Job Ticket: 18496 **DST#: 1**
 Test Start: 2013.09.28 @ 16:38:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3000.00 ppm			
Filter Cake: inches			

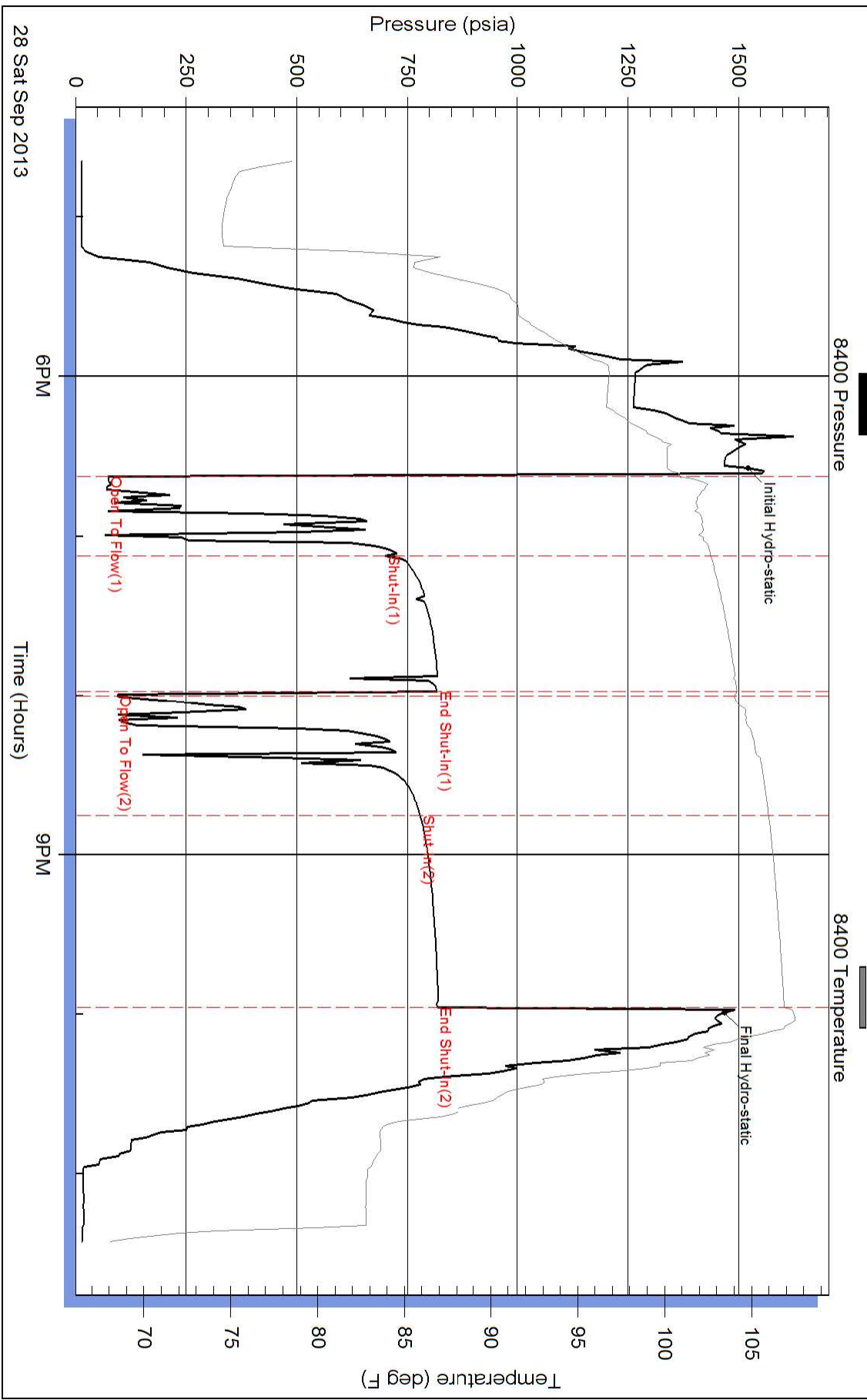
Recovery Information

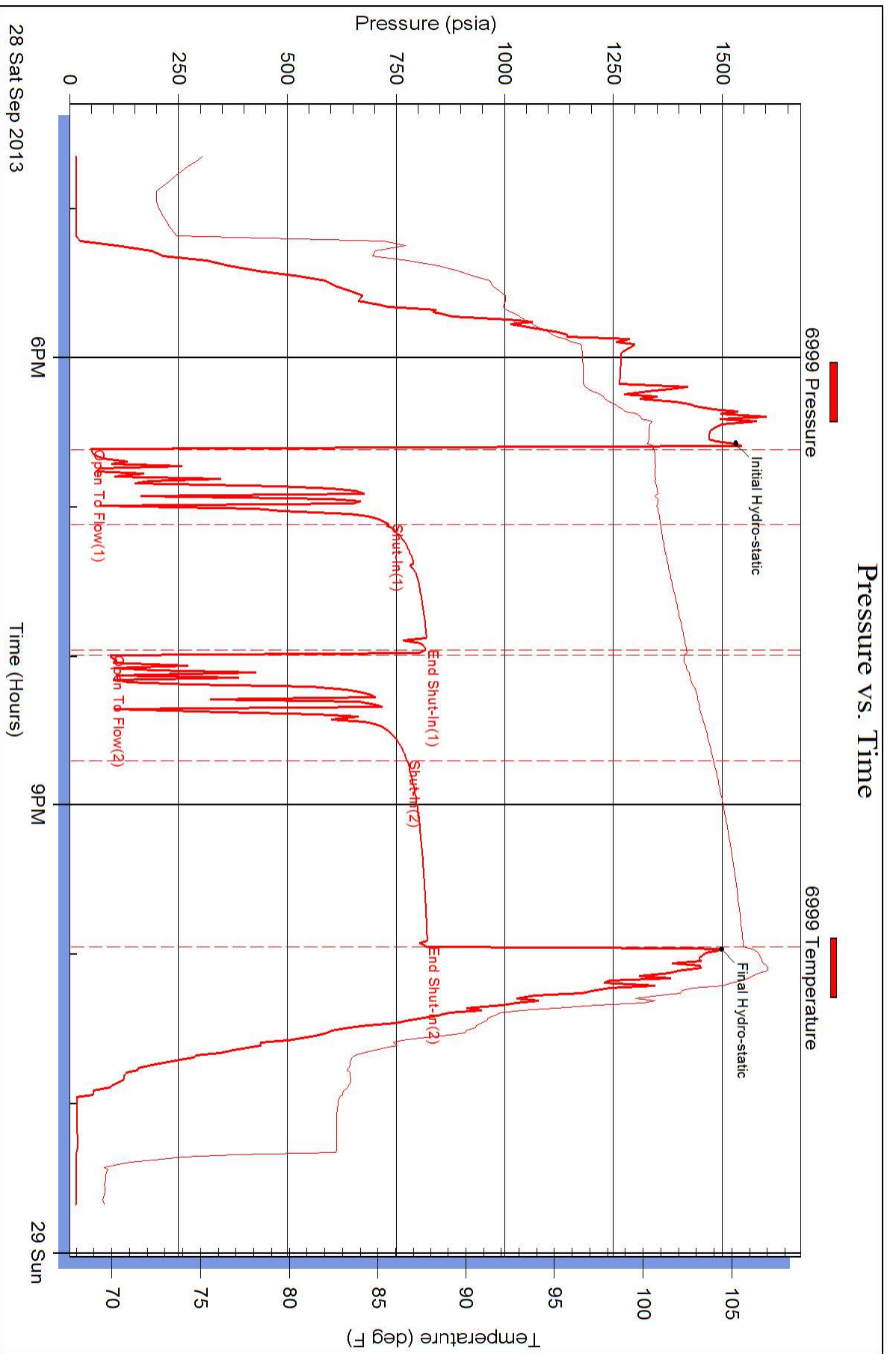
Recovery Table

Length ft	Description	Volume bbl
0.00	feet of gas	0.000

Total Length: 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
Clafin Ks, 67525-0256

ATTN: Jim Musgrove

BCCJC #1

8/18s/11w/Barton

Start Date: 2013.09.29 @ 06:56:00

End Date: 2013.09.29 @ 14:10:30

Job Ticket #: 18497 DST #: 2

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

Printed: 2013.09.29 @ 14:29:46

RJM Company
8/18s/11w/Barton
BCCJC #1
DST # 2
LKC "A-F"
2013.09.29



DRILL STEM TEST REPORT

RJM Company
 PO Box 256
 Claflin Ks, 67525-0256
 ATTN: Jim Musgrove

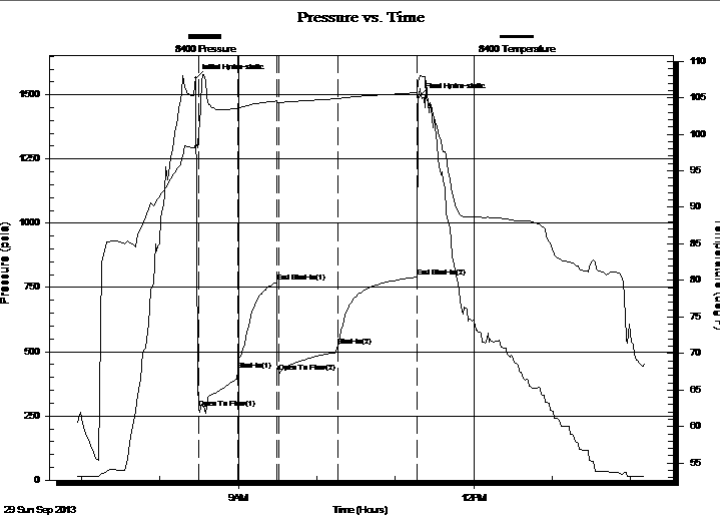
8/18s/11w/Barton
BCCJC #1
 Job Ticket: 18497 **DST#: 2**
 Test Start: 2013.09.29 @ 06:56:00

GENERAL INFORMATION:

Formation: **LKC "A-F"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 08:29:30
 Tester: Shane Konzem
 Time Test Ended: 14:10:30
 Unit No: 3330/50/Great Bend
Interval: 3080.00 ft (KB) To 3165.00 ft (KB) (TVD)
 Reference Elevations: 1825.00 ft (KB)
 Total Depth: 3165.00 ft (KB) (TVD) 1816.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 9.00 ft

Serial #: 8400 Inside
 Press @ Run Depth: 520.37 psia @ 3159.34 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.09.29 End Date: 2013.09.29 Last Calib.: 2013.09.29
 Start Time: 06:56:00 End Time: 14:10:30 Time On Btm: 2013.09.29 @ 08:27:30
 Time Off Btm: 2013.09.29 @ 11:17:30

TEST COMMENT: 1st Open/ 30 Minutes. Strong blow built to bottom of 5 gallon bucket in 55 seconds.
 1st Shut In/ 30 Minutes. Good blow back with gas to surface in 2 minutes of shut in.
 2nd Open/ 45 Minutes. Strong blow built to bottom of 5 gallon bucket in 1 minute 10 seconds.
 2nd Shut In/ 60 Minutes. Good blow back.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1564.17	98.80	Initial Hydro-static
2	279.44	100.82	Open To Flow (1)
32	429.36	103.60	Shut-In(1)
62	769.59	104.55	End Shut-In(1)
63	419.70	104.39	Open To Flow (2)
109	520.37	104.89	Shut-In(2)
170	790.28	105.70	End Shut-In(2)
170	1488.24	107.28	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	3070 feet of 100% gas.	0.00
1280.00	100% clean gassy oil.	17.96
0.00	Oil corrected Gravity w as 46	0.00

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	4.50	1.68
Last Gas Rate	0.13	8.70	3.26
Max. Gas Rate	0.13	9.15	3.43



DRILL STEM TEST REPORT

RJM Company
 PO Box 256
 Claflin Ks, 67525-0256
 ATTN: Jim Musgrove

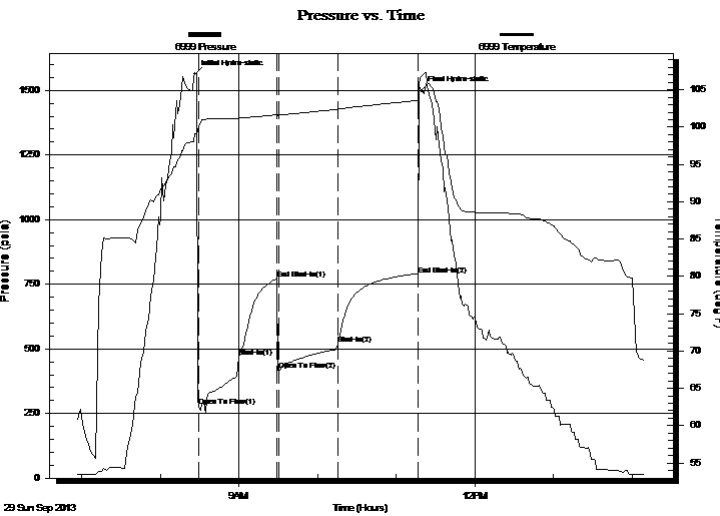
8/18s/11w/Barton
BCCJC #1
 Job Ticket: 18497 **DST#: 2**
 Test Start: 2013.09.29 @ 06:56:00

GENERAL INFORMATION:

Formation: **LKC "A-F"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 08:29:30
 Tester: Shane Konzem
 Time Test Ended: 14:10:30
 Unit No: 3330/50/Great Bend
Interval: 3080.00 ft (KB) To 3165.00 ft (KB) (TVD)
 Reference Elevations: 1825.00 ft (KB)
 Total Depth: 3165.00 ft (KB) (TVD) 1816.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 9.00 ft

Serial #: 6999 Outside
 Press @ Run Depth: 786.25 psia @ 3160.34 ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.09.29 End Date: 2013.09.29 Last Calib.: 2013.09.29
 Start Time: 06:56:00 End Time: 14:09:30 Time On Btm: 2013.09.29 @ 08:26:30
 Time Off Btm: 2013.09.29 @ 11:19:00

TEST COMMENT: 1st Open/ 30 Minutes. Strong blow built to bottom of 5 gallon bucket in 55 seconds.
 1st Shut In/ 30 Minutes. Good blow back with gas to surface in 2 minutes of shut in.
 2nd Open/ 45 Minutes. Strong blow built to bottom of 5 gallon bucket in 1 minute 10 seconds.
 2nd Shut In/ 60 Minutes. Good blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1561.79	99.16	Initial Hydro-static
3	277.34	100.27	Open To Flow (1)
33	466.53	101.20	Shut-In(1)
63	770.09	101.67	End Shut-In(1)
64	419.33	101.61	Open To Flow (2)
109	517.98	102.41	Shut-In(2)
171	786.25	103.57	End Shut-In(2)
173	1499.03	106.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3070 feet of 100% gas.	0.00
1280.00	100% clean gassy oil.	17.96
0.00	Oil corrected Gravity w as 46	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	4.50	1.68
Last Gas Rate	0.13	8.70	3.26
Max. Gas Rate	0.13	9.15	3.43



DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM Company
 PO Box 256
 Claflin Ks, 67525-0256
 A T T N : Jim Musgrove

8/18s/11w/Barton
BCCJC #1
 Job Ticket: 18497 **DST#: 2**
 Test Start: 2013.09.29 @ 06:56:00

Tool Information

Drill Pipe:	Length: 3070.00 ft	Diameter: 3.80 inches	Volume: 43.06 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: 50000.00 lb
			<u>Total Volume: 43.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 29000.00 lb
Depth to Top Packer:	3080.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.34 ft			
Tool Length:	106.34 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3060.00	
Shut-In Tool	5.00			3065.00	
Hydroic Tool	5.00			3070.00	
Packer	5.00			3075.00	21.00 Bottom Of Top Packer
Packer	5.00			3080.00	
Perforations	5.00			3085.00	
Change Over Sub	0.75			3085.75	
Drill Pipe	62.84			3148.59	
Change Over Sub	0.75			3149.34	
Perforations	9.00			3158.34	
Recorder	1.00	8400	Inside	3159.34	
Recorder	1.00	6999	Outside	3160.34	
Bullnose	5.00			3165.34	85.34 Bottom Packers & Anchor

Total Tool Length: 106.34



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM Company
PO Box 256
Claflin Ks, 67525-0256
ATTN: Jim Musgrove

8/18s/11w/Barton
BCCJC #1
Job Ticket: 18497 **DST#: 2**
Test Start: 2013.09.29 @ 06:56:00

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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

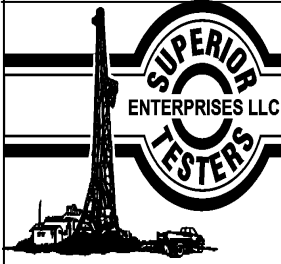
Length ft	Description	Volume bbl
0.00	3070 feet of 100% gas.	0.000
1280.00	100% clean gassy oil.	17.955
0.00	Oil corrected Gravity was 46	0.000

Total Length: 1280.00 ft Total Volume: 17.955 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

RJM Company
PO Box 256
Claflin Ks, 67525-0256
ATTN: Jim Musgrove

8/18s/11w/Barton
BCCJC #1
Job Ticket: 18497 **DST#: 2**
Test Start: 2013.09.29 @ 06:56:00

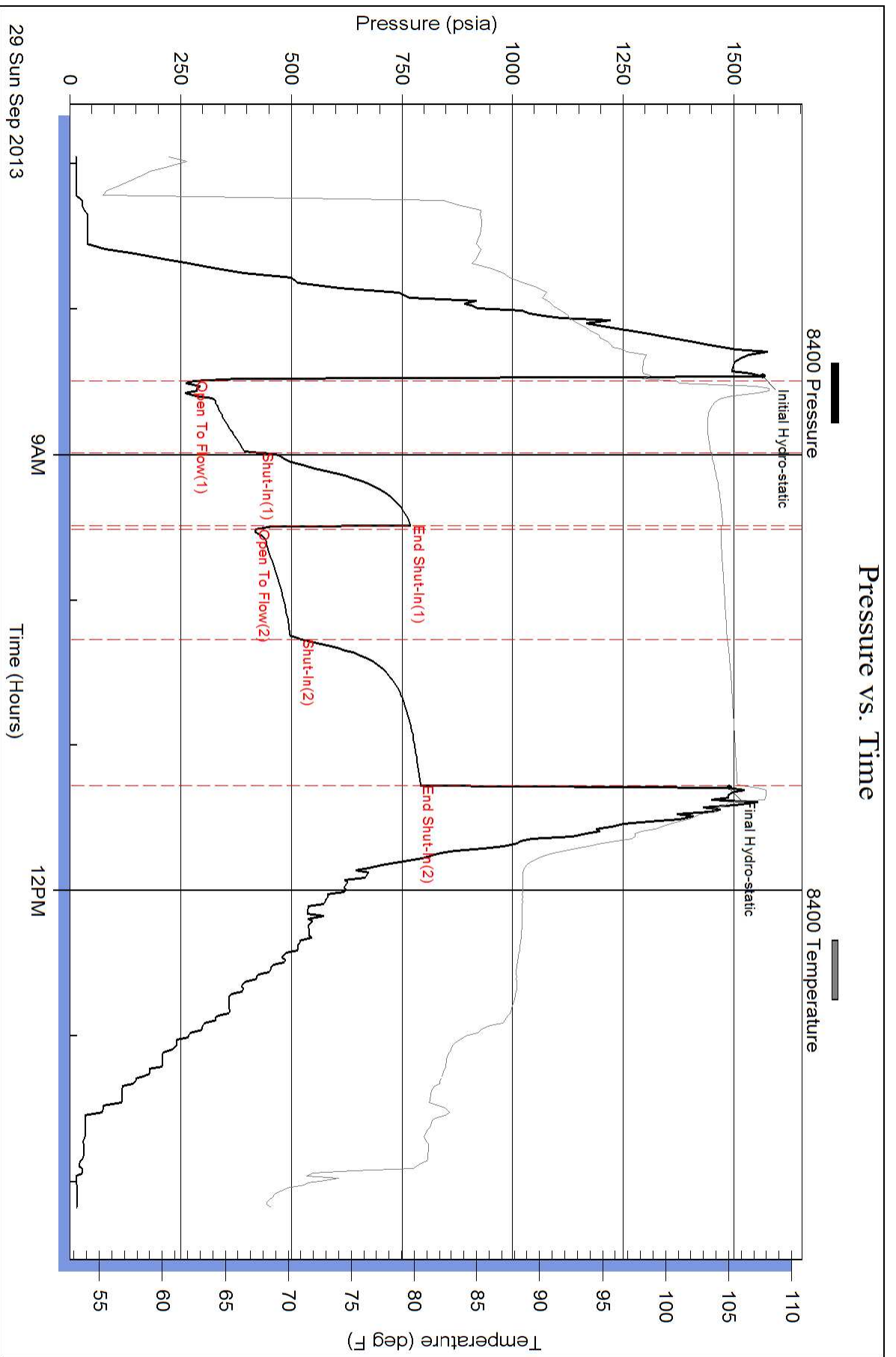
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

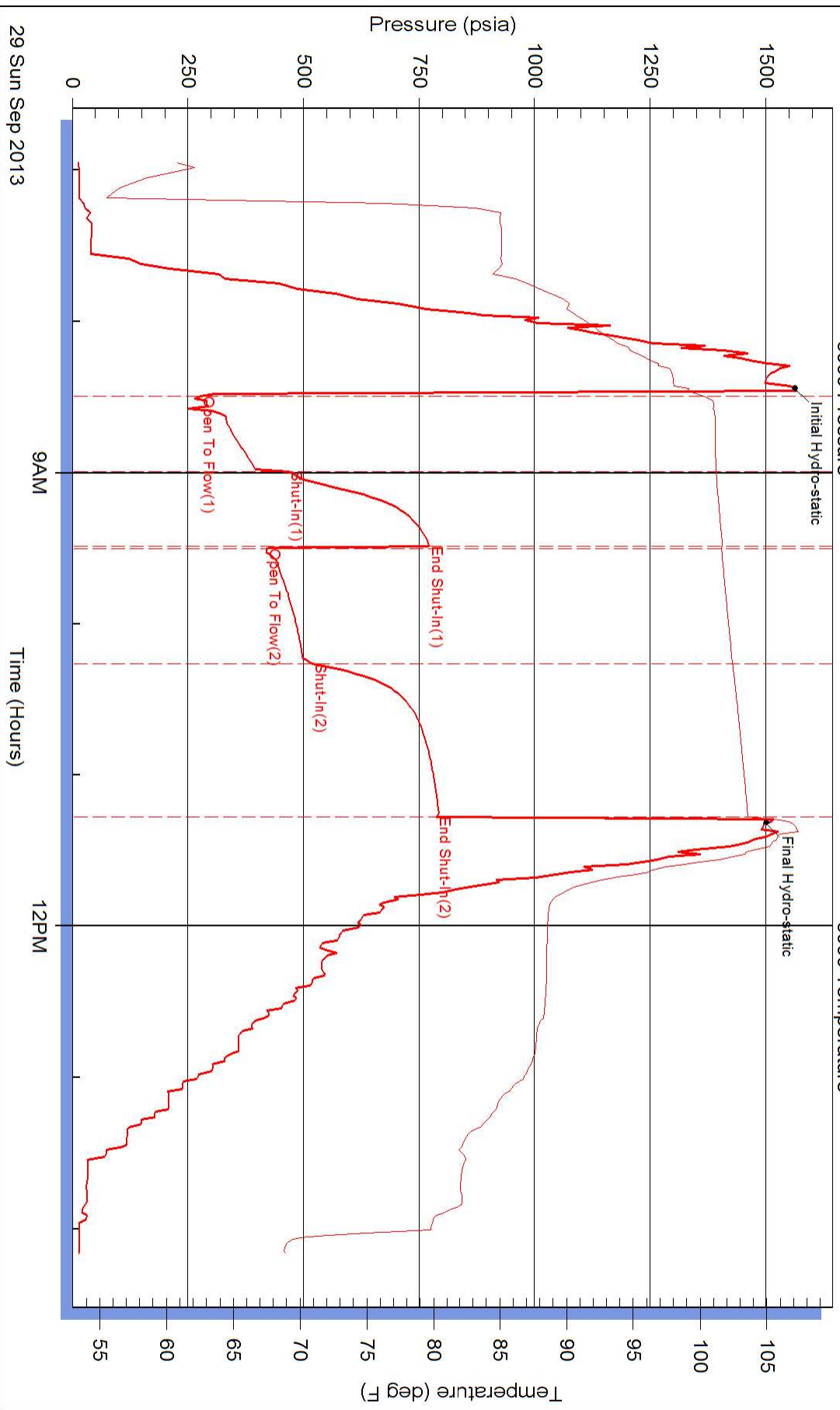
Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	5	0.13	4.50	1.68
2	15	0.13	5.30	1.98
2	25	0.13	9.00	3.37
2	35	0.13	9.15	3.43
2	45	0.13	8.70	3.26

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **RJM Company**

PO Box 256
Clafin Ks, 67525-0256

ATTN: Jim Musgrove

BCCJC #1

8/18s/11w/Barton

Start Date: 2013.10.01 @ 19:00:00

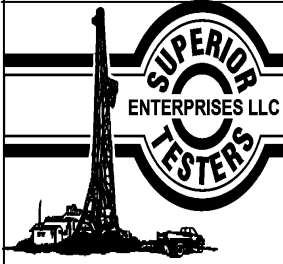
End Date: 2013.10.02 @ 01:57:00

Job Ticket #: 18498 DST #: 3

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

Printed: 2013.10.01 @ 02:48:29

RJM Company
8/18s/11w/Barton
BCCJC #1
DST # 3
Arbuckle
2013.10.01



DRILL STEM TEST REPORT

RJM Company
 PO Box 256
 Claflin Ks, 67525-0256
 ATTN: Jim Musgrove

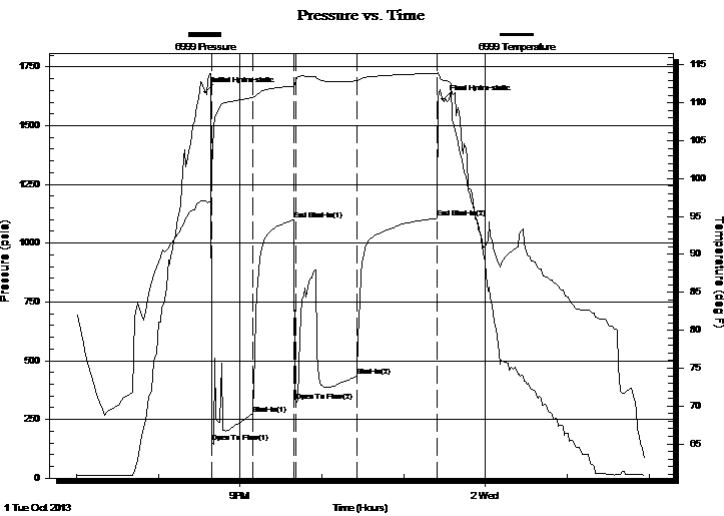
8/18s/11w/Barton
BCCJC #1
 Job Ticket: 18498 **DST#: 3**
 Test Start: 2013.10.01 @ 19:00:00

GENERAL INFORMATION:

Formation: Arbuckle		Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)		Tester: Shane Konzem
Time Tool Opened: 20:38:30		Unit No: 3330/50/Great Bend
Time Test Ended: 01:57:00		
Interval: 3318.00 ft (KB) To 3376.00 ft (KB) (TVD)		Reference Elevations: 1825.00 ft (KB)
Total Depth: 3376.00 ft (KB) (TVD)		1816.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair		KB to GR/CF: 9.00 ft

Serial #: 6999	Outside				
Press @ RunDepth: 1105.81 psia @ 3371.34 ft (KB)		Capacity: 5000.00 psia			
Start Date: 2013.10.01	End Date: 2013.10.02	Last Calib.: 2013.10.01			
Start Time: 19:00:00	End Time: 01:57:00	Time On Btm: 2013.10.01 @ 20:34:30			
		Time Off Btm: 2013.10.01 @ 23:28:30			

TEST COMMENT: 1st Open/ 30 Minutes. Good blow built to bottom of 5 gallon bucket in 2 minutes and 30 seconds.
 1st Shut In/ 30 Minutes. No blow back.
 2nd Open/ 45 Minutes. Fair blow built to bottom of 5 gallon bucket in 12 minutes. Slight gas odor, to small to measure. No sample taken per Bill Miller.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1644.45	97.01	Initial Hydro-static
5	151.27	101.16	Open To Flow (1)
35	273.64	110.68	Shut-In(1)
65	1099.51	112.20	End Shut-In(1)
67	328.75	112.90	Open To Flow (2)
111	432.34	112.90	Shut-In(2)
170	1105.81	113.85	End Shut-In(2)
174	1611.96	113.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	10% Gas, 90% Oil	0.21
189.00	5% Gas, 85% Oil, 10% Mud	2.65
63.00	10% Gas, 75% Oil, 15% Mud	0.88
63.00	10% Gas, 75% Oil, 15% Mud	0.88
126.00	10% Gas, 80% Oil, 10% Mud	1.77
63.00	10% Gas, 20% Oil, 70% Mud	0.88

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
 A T T N : Jim Musgrove

8/18s/11w/Barton
BCCJC #1
 Job Ticket: 18498 **DST#: 3**
 Test Start: 2013.10.01 @ 19:00:00

Tool Information

Drill Pipe:	Length: 3326.00 ft	Diameter: 3.80 inches	Volume: 46.66 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:	52000.00 lb
			<u>Total Volume: 46.66 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	29000.00 lb
Depth to Top Packer:	3318.00 ft			Final	33000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	58.34 ft				
Tool Length:	79.34 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3298.00	
Shut-In Tool	5.00			3303.00	
Hydroic Tool	5.00			3308.00	
Packer	5.00			3313.00	21.00 Bottom Of Top Packer
Packer	5.00			3318.00	
Perforations	5.00			3323.00	
Change Over Sub	0.75			3323.75	
Drill Pipe	31.84			3355.59	
Change Over Sub	0.75			3356.34	
Perforations	13.00			3369.34	
Recorder	1.00	8400	Inside	3370.34	
Recorder	1.00	6999	Outside	3371.34	
Bullnose	5.00			3376.34	58.34 Bottom Packers & Anchor

Total Tool Length: 79.34



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM Company
 PO Box 256
 Claflin Ks, 67525-0256
 A T T N : Jim Musgrove

8/18s/11w/Barton
BCCJC #1
 Job Ticket: 18498 **DST#: 3**
 Test Start: 2013.10.01 @ 19:00:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 7000.00 ppm			
Filter Cake: inches			

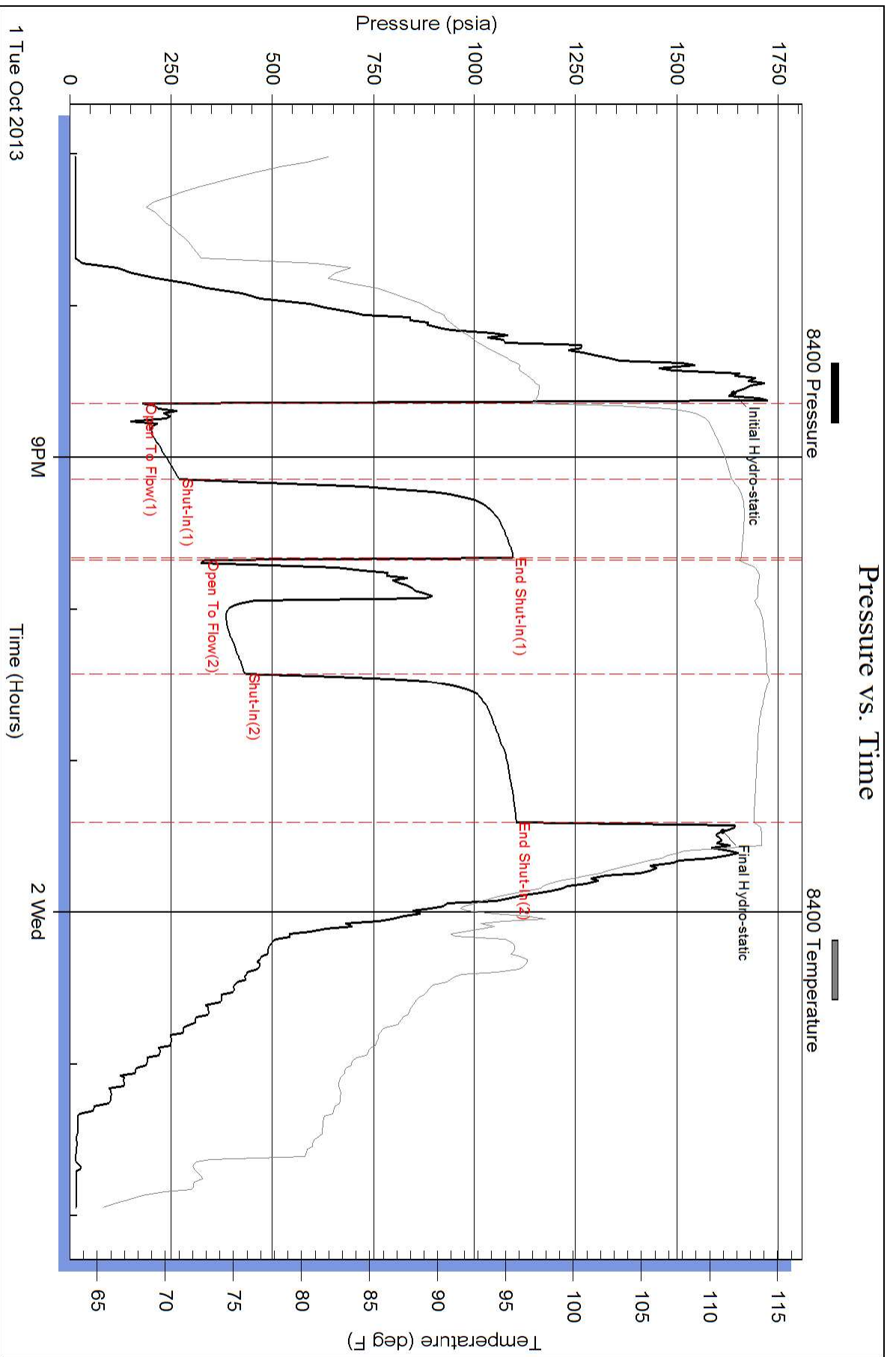
Recovery Information

Recovery Table

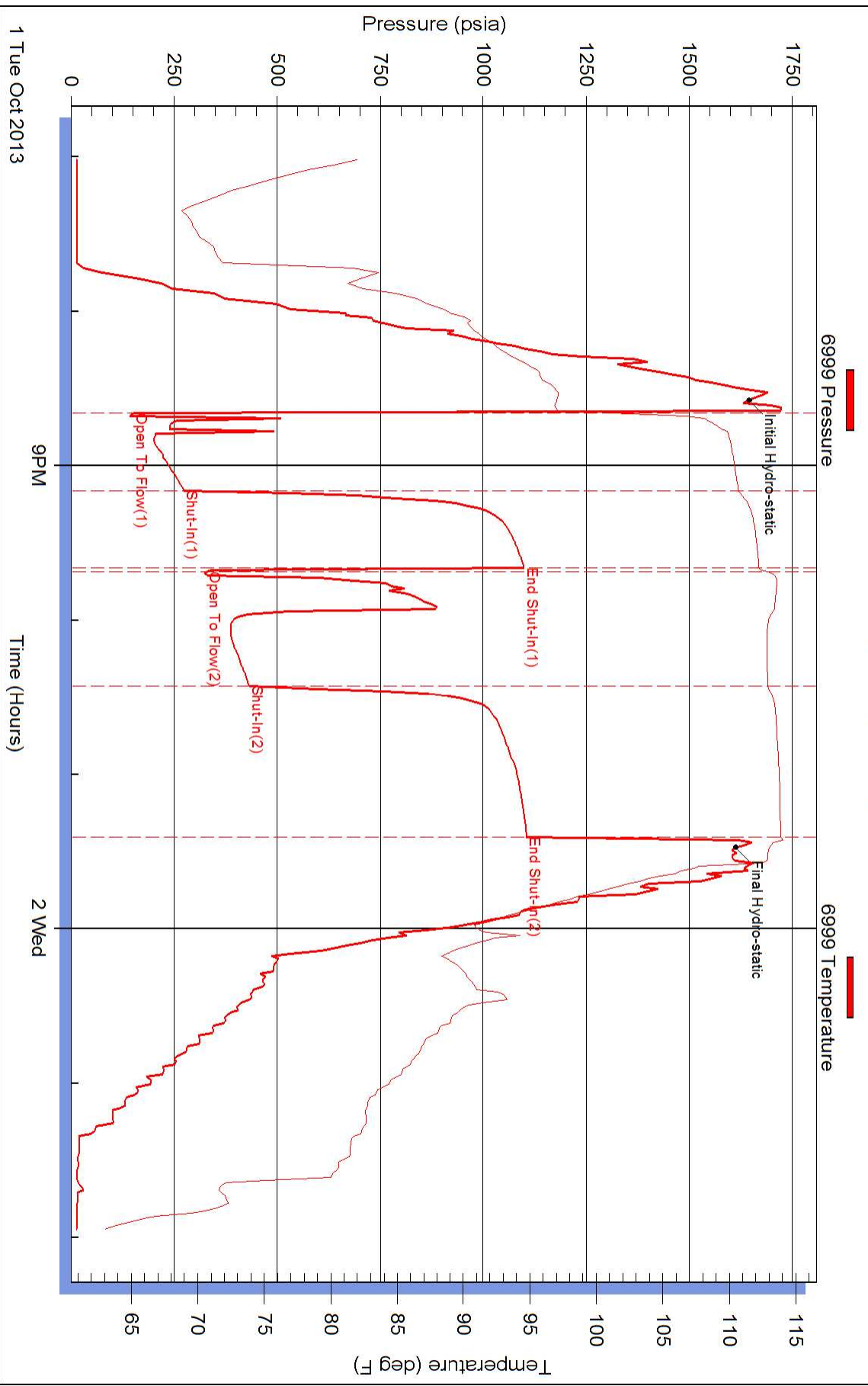
Length ft	Description	Volume bbl
15.00	10% Gas, 90% Oil	0.210
189.00	5% Gas, 85% Oil, 10% Mud	2.651
63.00	10% Gas, 75% Oil, 15% Mud	0.884
63.00	10% Gas, 75% Oil, 15% Mud	0.884
126.00	10% Gas, 80% Oil, 10% Mud	1.767
63.00	10% Gas, 20% Oil, 70% Mud	0.884
63.00	10% Gas, 20% Oil, 70% Mud	0.884
126.00	25% Gas, 75% Oil	1.767
63.00	10% Gas, 30% Oil, 60% Mud	0.884
63.00	10% Gas, 10% Oil, 80% Mud	0.884
126.00	15% Gas, 75% Oil, 10% Mud	1.767

Total Length: 960.00 ft Total Volume: 13.466 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time



Pressure vs. Time



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

November 19, 2013

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

Re: ACO1
API 15-009-25888-00-00
BCCJC 1
SW/4 Sec.08-18S-11W
Barton County, Kansas

Dear Production Department:

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

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

Respectfully,
Brian Miller