



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1095826
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: _____



1095826

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> _____
---	--

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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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

December 04, 2012

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

Re: ACO1
API 15-009-25749-00-00
Pam Wirth 1
SW/4 Sec.24-18S-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,
Chris Hoffman



DRILL STEM TEST REPORT

Prepared For: **RJM Company**

Po box 256 Claflin Kansas
67525

ATTN: Jim Musgrove

Pam Wirth #1

24-18s-11w-Barton

Start Date: 2012.09.22 @ 01:25:00

End Date: 2012.09.22 @ 07:16:30

Job Ticket #: 17270 DST #: 1

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

Printed: 2012.09.22 @ 05:38:23

RJM Company

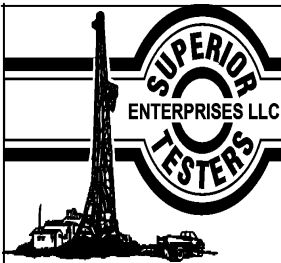
24-18s-11w-Barton

Pam Wirth #1

DST # 1

Lansing KC

2012.09.22



DRILL STEM TEST REPORT

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

24-18s-11w-Barton
Pam Wirth #1
 Job Ticket: 17270 **DST#: 1**
 Test Start: 2012.09.22 @ 01:25:00

GENERAL INFORMATION:

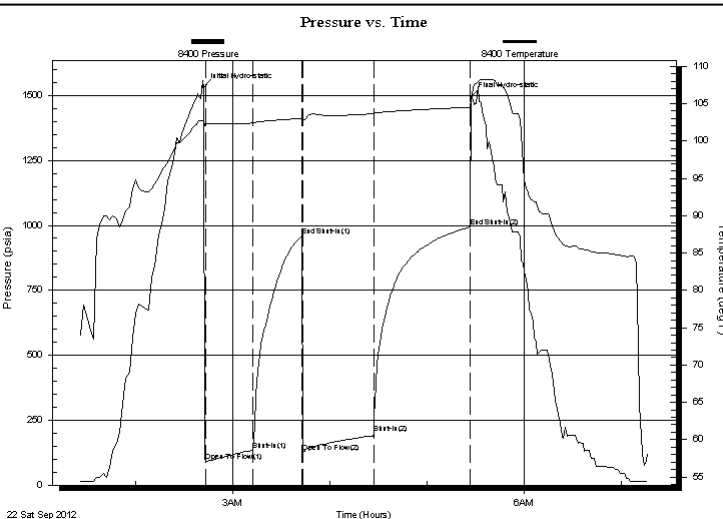
Formation: **Lansing KC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:43:00
 Time Test Ended: 07:16:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-45
 Interval: **2969.00 ft (KB) To 3077.00 ft (KB) (TVD)**
 Reference Elevations: 1757.00 ft (KB)
 Total Depth: 3077.00 ft (KB) (TVD) 1750.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8400

Outside

Press @ Run Depth: 200.03 psia @ 3074.07 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.09.22 End Date: 2012.09.22 Last Calib.: 2012.09.22
 Start Time: 01:25:00 End Time: 07:16:30 Time On Btm: 2012.09.22 @ 02:42:00
 Time Off Btm: 2012.09.22 @ 05:27:30

TEST COMMENT: 1st Open 30 minutes Fair building blow blew bottom bucket 3 minutes
 1st Shut in 30 minutes No blow back
 2nd Open 45 minutes Strong blow blew bottom bucket instantly.
 2nd Shut in 60 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1532.61	102.66	Initial Hydro-static
1	93.07	102.31	Open To Flow (1)
31	134.22	102.39	Shut-In(1)
61	959.13	103.02	End Shut-In(1)
62	124.87	102.73	Open To Flow (2)
105	200.03	103.64	Shut-In(2)
165	993.84	104.53	End Shut-In(2)
166	1495.25	105.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	Very lightly oil spotted gassy mud 100%	1.74
124.00	Oil cut gassy mud 15%gas5%oil80% mud	1.74
124.00	Oil cut gassy mud 10%gas5%oil 85% muc	1.74
0.00	Gas to surface in 4 minutes into pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

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

24-18s-11w-Barton
Pam Wirth #1
 Job Ticket: 17270 **DST#: 1**
 Test Start: 2012.09.22 @ 01:25:00

GENERAL INFORMATION:

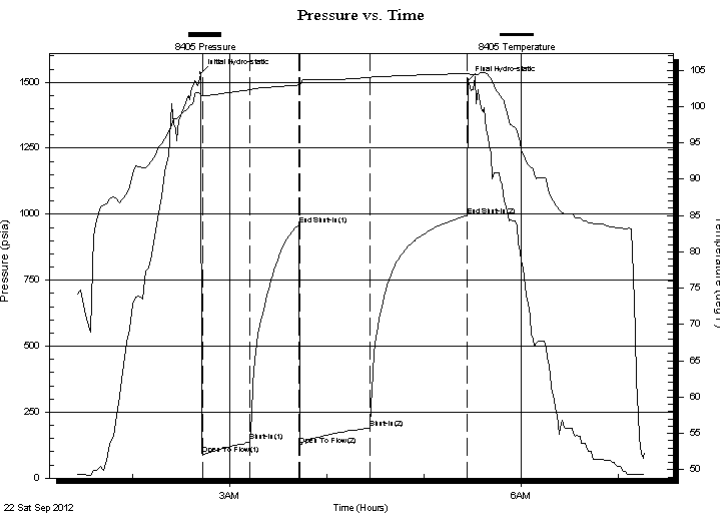
Formation: **Lansing KC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:43:00
 Time Test Ended: 07:16:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-45
 Interval: **2969.00 ft (KB) To 3077.00 ft (KB) (TVD)**
 Total Depth: 3077.00 ft (KB) (TVD)
 Reference Elevations: 1757.00 ft (KB)
 1750.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 7.00 ft

Serial #: 8405

Inside

Press @ Run Depth: 993.92 psia @ 3073.07 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.09.22 End Date: 2012.09.22 Last Calib.: 2012.09.22
 Start Time: 01:25:00 End Time: 07:16:30 Time On Btm: 2012.09.22 @ 02:42:00
 Time Off Btm: 2012.09.22 @ 05:27:30

TEST COMMENT: 1st Open 30 minutes Fair building blow blew bottom bucket 3 minutes
 1st Shut in 30 minutes No blow back
 2nd Open 45 minutes Strong blow blew bottom bucket instantly.
 2nd Shut in 60 minutes Yes blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1534.30	101.76	Initial Hydro-static
1	91.23	101.52	Open To Flow (1)
31	137.95	102.29	Shut-In(1)
61	958.91	102.94	End Shut-In(1)
62	123.88	102.87	Open To Flow (2)
105	190.08	103.98	Shut-In(2)
165	993.92	104.54	End Shut-In(2)
166	1506.38	104.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	Very lightly oil spotted gassy mud 100%	1.74
124.00	Oil cut gassy mud 15%gas5%oil80% mud	1.74
124.00	Oil cut gassy mud 10%gas5%oil 85% mud	1.74
0.00	Gas to surface in 4 minutes into pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM Company
 Po box 256 Claflin Kansas
 67525
 A T T N : Jim Musgrove

24-18s-11w-Barton
Pam Wirth #1
 Job Ticket: 17270 **DST#: 1**
 Test Start: 2012.09.22 @ 01:25:00

Tool Information

Drill Pipe:	Length: 2969.00 ft	Diameter: 3.80 inches	Volume: 41.65 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: 40000.00 lb
			<u>Total Volume: 41.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	2969.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	108.07 ft			
Tool Length:	128.07 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			2954.00	
Hydraulic Tool	5.00			2959.00	
Packer	5.00			2964.00	20.00 Bottom Of Top Packer
Packer	5.00			2969.00	
Anchor	15.00			2984.00	
Change Over Sub	0.75			2984.75	
Drill Pipe	62.57			3047.32	
Change Over Sub	0.75			3048.07	
Anchor	24.00			3072.07	
Recorder	1.00	8405	Inside	3073.07	
Recorder	1.00	8400	Outside	3074.07	
Bull Plug	3.00			3077.07	108.07 Bottom Packers & Anchor

Total Tool Length: 128.07



DRILL STEM TEST REPORT

FLUID SUMMARY

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

24-18s-11w-Barton
Pam Wirth #1
 Job Ticket: 17270 **DST#: 1**
 Test Start: 2012.09.22 @ 01:25:00

Mud and Cushion Information

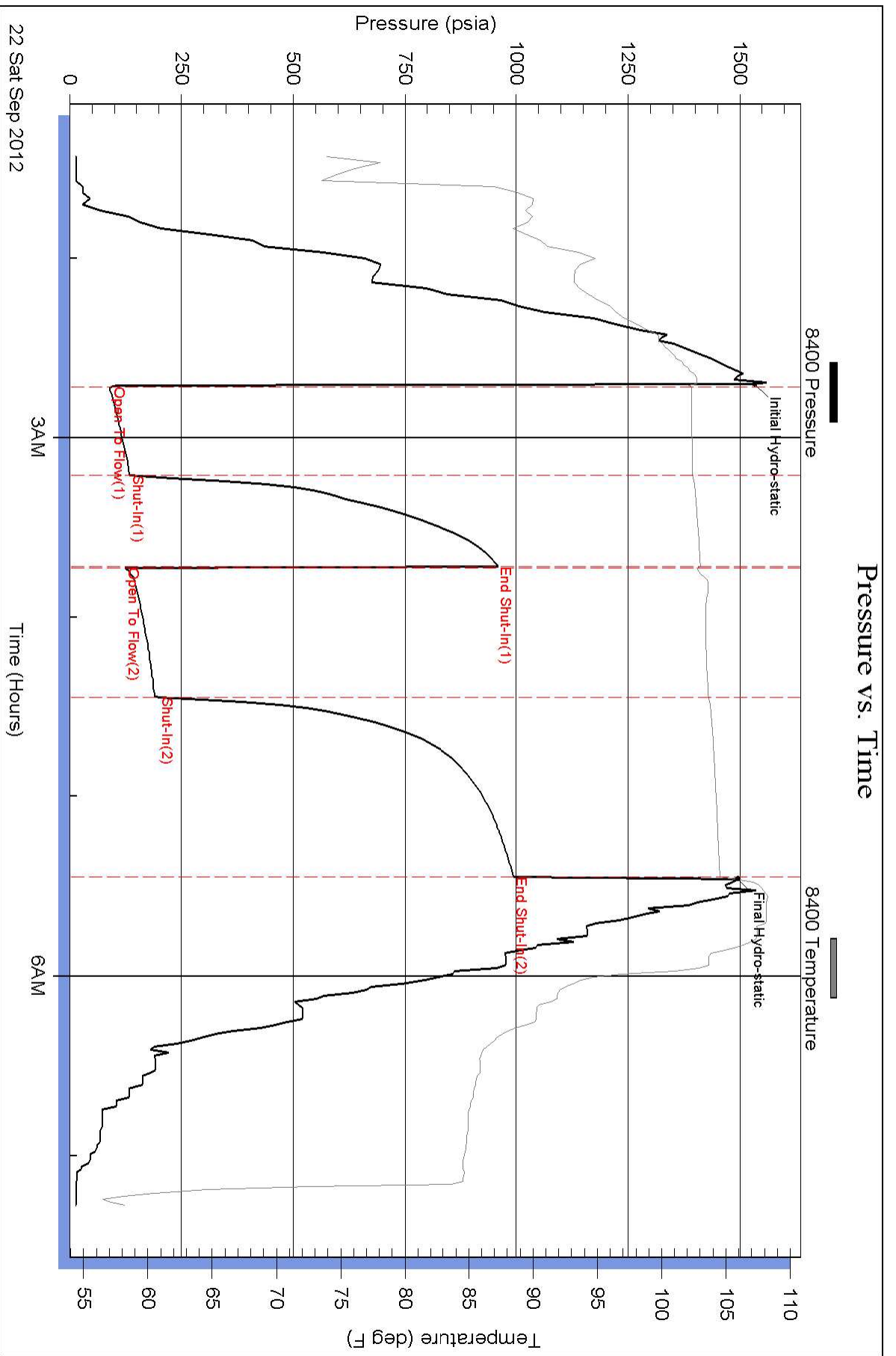
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.40 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

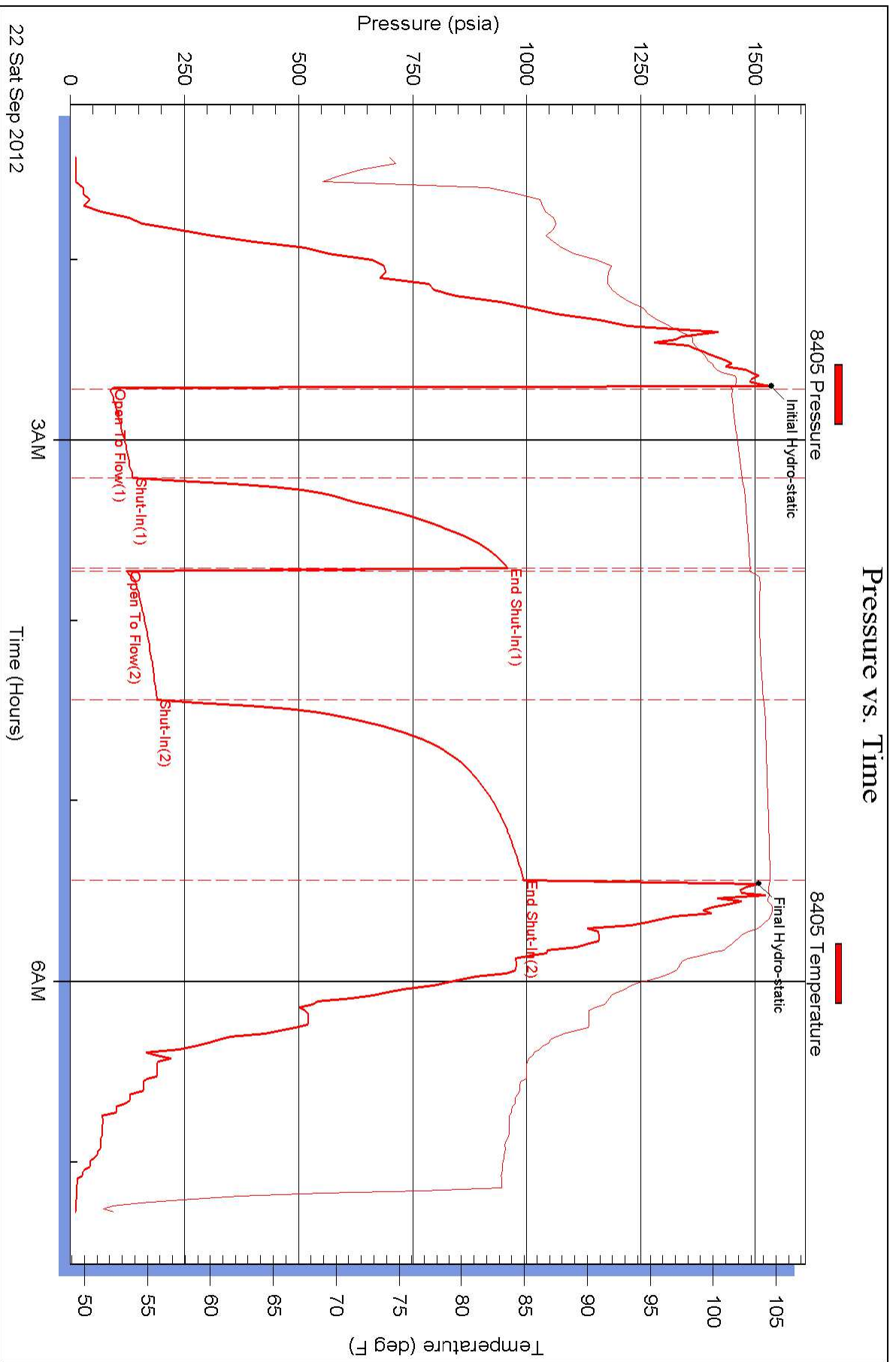
Recovery Table

Length ft	Description	Volume bbl
124.00	Very lightly oil spotted gassy mud 100%	1.739
124.00	Oil cut gassy mud 15%gas5%oil80%mud	1.739
124.00	Oil cut gassy mud 10%gas5%oil 85%mud	1.739
0.00	Gas to surface in 4 minutes into pipe	0.000

Total Length: 372.00 ft Total Volume: 5.217 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **RJM Company**

Po box 256 Claflin Kansas
67525

ATTN: Jim Musgrove

Pam Wirth #1

24-18s-11w-Barton

Start Date: 2012.09.22 @ 11:06:00

End Date: 2012.09.22 @ 16:11:00

Job Ticket #: 17271 DST #: 2

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

Printed: 2012.09.23 @ 02:29:38

RJM Company
24-18s-11w-Barton
Pam Wirth #1
DST # 2
Arbuckle
2012.09.22



DRILL STEM TEST REPORT

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

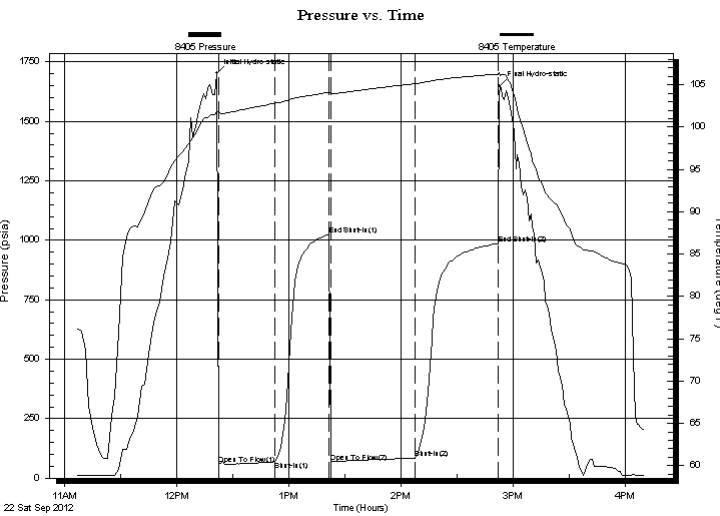
24-18s-11w-Barton
Pam Wirth #1
 Job Ticket: 17271 **DST#: 2**
 Test Start: 2012.09.22 @ 11:06:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 12:22:30 Tester: Dustin Ellis
 Time Test Ended: 16:11:00 Unit No: 3315-Great Bend-50
 Interval: **3221.00 ft (KB) To 3284.00 ft (KB) (TVD)** Reference Elevations: 1757.00 ft (KB)
 Total Depth: 3284.00 ft (KB) (TVD) 1750.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8405 Inside
 Press @ Run Depth: 84.10 psia @ 3280.53 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.09.22 End Date: 2012.09.22 Last Calib.: 2012.09.23
 Start Time: 11:06:00 End Time: 16:11:00 Time On Btm: 2012.09.22 @ 12:21:30
 Time Off Btm: 2012.09.22 @ 14:53:00

TEST COMMENT: 1st Open 30 minutes Fair building blow blew bottom bucket 15 minutes.
 1st Shut in 30 minutes No blow back.
 2nd Open 45 minutes Fair building blow blew bottom bucket 12 minutes.
 2nd Shut in 45 minutes No blow back



PRESSURE SUMMARY

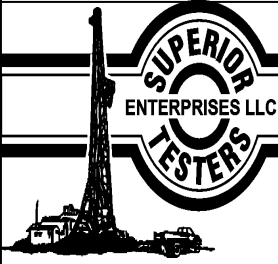
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1702.83	101.87	Initial Hydro-static
1	58.50	101.65	Open To Flow (1)
31	69.01	102.81	Shut-In(1)
60	1023.32	104.09	End Shut-In(1)
61	68.35	103.94	Open To Flow (2)
106	84.10	105.13	Shut-In(2)
151	986.35	106.27	End Shut-In(2)
152	1648.78	106.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	Oil cut gassy mud	0.87
0.00	Gas 5% Oil 10% Mud 85%	0.00
15.00	Oil cut gassy mud	0.21
0.00	Gas 5% Oil 10% Mud 85%	0.00
0.00	233 gas in pipe.	0.00

Gas Rates

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



DRILL STEM TEST REPORT

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

24-18s-11w-Barton
Pam Wirth #1
 Job Ticket: 17271 **DST#: 2**
 Test Start: 2012.09.22 @ 11:06:00

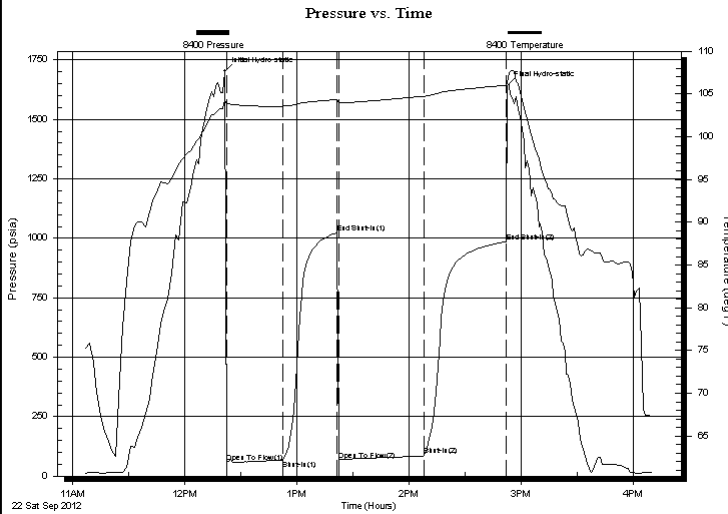
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 12:22:30
 Tester: Dustin Ellis
 Time Test Ended: 16:11:00
 Unit No: 3315-Great Bend-50
 Interval: **3221.00 ft (KB) To 3284.00 ft (KB) (TVD)**
 Reference Elevations: 1757.00 ft (KB)
 Total Depth: 3284.00 ft (KB) (TVD) 1750.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 7.00 ft

Serial #: 8400 Outside
 Press @ RunDepth: 985.21 psia @ 3281.53 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.09.22 End Date: 2012.09.22 Last Calib.: 2012.09.23
 Start Time: 11:06:00 End Time: 16:11:00 Time On Btm: 2012.09.22 @ 12:21:30
 Time Off Btm: 2012.09.22 @ 14:52:30

TEST COMMENT: 1st Open 30 minutes Fair building blow blew bottom bucket 15 minutes.
 1st Shut in 30 minutes No blow back.
 2nd Open 45 minutes Fair building blow blew bottom bucket 12 minutes.
 2nd Shut in 45 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1702.82	104.18	Initial Hydro-static
1	58.84	103.91	Open To Flow (1)
31	67.27	103.57	Shut-In(1)
60	1021.96	104.34	End Shut-In(1)
61	67.93	104.01	Open To Flow (2)
107	89.33	104.74	Shut-In(2)
151	985.21	106.01	End Shut-In(2)
151	1640.36	106.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	Oil cut gassy mud	0.87
0.00	Gas 5% Oil 10% Mud 85%	0.00
15.00	Oil cut gassy mud	0.21
0.00	Gas 5% Oil 10% Mud 85%	0.00
0.00	233 gas in pipe.	0.00

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

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

24-18s-11w-Barton
Pam Wirth #1
 Job Ticket: 17271 **DST#: 2**
 Test Start: 2012.09.22 @ 11:06:00

Tool Information

Drill Pipe:	Length: 3221.00 ft	Diameter: 3.80 inches	Volume: 45.18 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: 42000.00 lb
			<u>Total Volume: 45.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3221.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.53 ft			
Tool Length:	83.53 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			3206.00	
Hydraulic Tool	5.00			3211.00	
Packer	5.00			3216.00	20.00 Bottom Of Top Packer
Packer	5.00			3221.00	
Anchor	4.00			3225.00	
Change Over Sub	0.75			3225.75	
Drill Pipe	31.03			3256.78	
Change Over Sub	0.75			3257.53	
Anchor	22.00			3279.53	
Recorder	1.00	8405	Inside	3280.53	
Recorder	1.00	8400	Outside	3281.53	
Bull Plug	3.00			3284.53	63.53 Bottom Packers & Anchor

Total Tool Length: 83.53



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM Company

24-18s-11w-Barton

Po box 256 Claflin Kansas
67525

Pam Wirth #1

Job Ticket: 17271

DST#: 2

ATTN: Jim Musgrove

Test Start: 2012.09.22 @ 11:06:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 10.40 in³
Resistivity: ohm.m
Salinity: 6000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	Oil cut gassy mud	0.870
0.00	Gas 5%Oil 10% Mud85%	0.000
15.00	Oil cut gassy mud	0.210
0.00	Gas 5% Oil 10% Mud 85%	0.000
0.00	233 gas in pipe.	0.000

Total Length: 77.00 ft Total Volume: 1.080 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

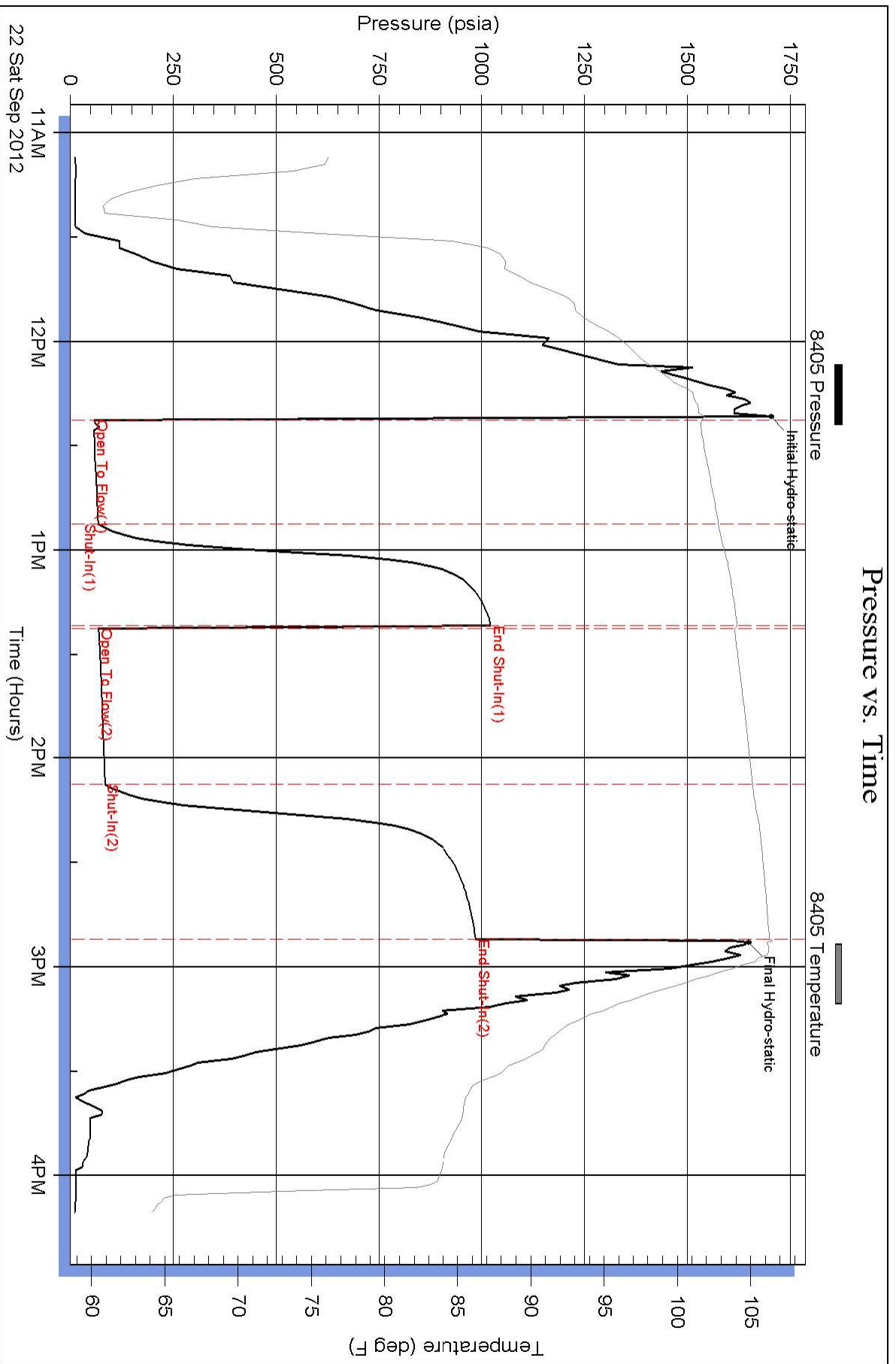
Serial #:

Laboratory Name:

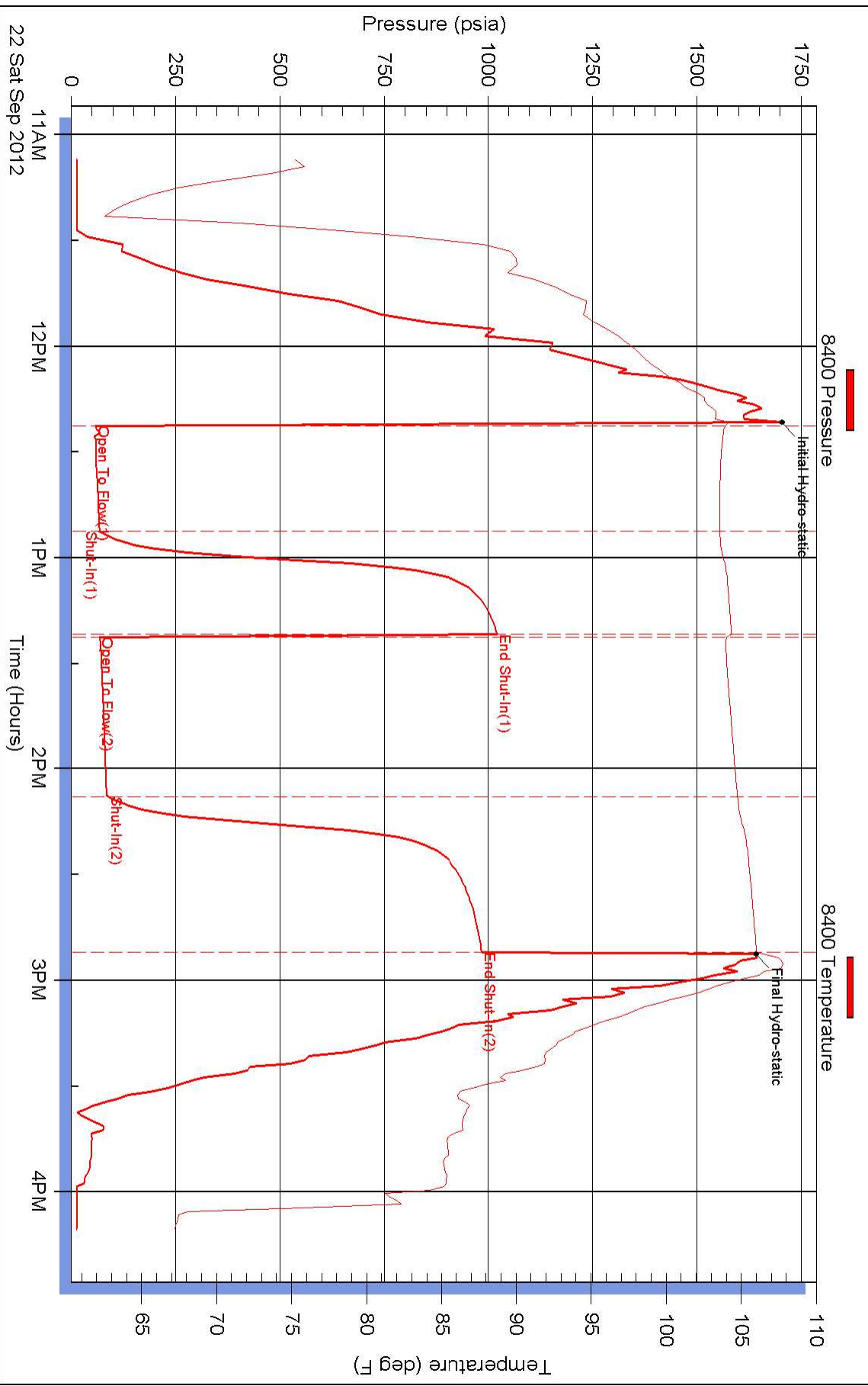
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 033

Date	9-23-12	Sec.		Twp.		Range		County	Barton	State	KS	On Location		Finish	2:30 PM								
Lease	Pam Wirth		Well No.	1		Location		Clifton 2 E 4 S 1/2 W 1/2 N															
Contractor	Royal Drlg							Owner															
Type Job	Prod down String							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"		I.D.		3284		Charge To																
Csg.	5 1/2"		Depth		3280		RJM																
Tbg. Size			Depth				Street																
Tool			Depth				City State																
Cement Left in Csg.	15		Shoe Joint		77 3/4		The above was done to satisfaction and supervision of owner agent or contractor.																
Meas Line			Displace				Cement Amount Ordered 180 10% salt 50% Gilsonik 500 gal Mud Clear 48																
EQUIPMENT																							
Pumptrk	No.	Cementer						Common															
		Helper																					
Bulktrk	No.	Driver						Poz. Mix															
		Driver																					
Bulktrk	No.	Driver						Gel.															
		Driver																					
JOB SERVICES & REMARKS																							
Remarks:								Calcium															
Rat Hole 30 ft								Hulls															
Mouse Hole 15 ft								Salt 16															
Centralizers								Flowseal															
Baskets								Kol-Seal 900#															
DV or Port Collar								Mud CLR 48 500 gal															
<p>Run 5 1/2 pipe to Bottom got cin for 1200 pumped Discort mud flush followed w/c cement wash up Released plug & Displaced & landed plug @ 1200 psi Release & dry up</p>								CFL-117 or CD110 CAF 38															
								Sand															
								Handling 805															
								Mileage															
								FLOAT EQUIPMENT															
								Guide Shoe 1															
								Centralizer 9 Turb															
								Baskets 2															
								AFU Inserts 1															
								Float Shoe															
Latch Down																							
5 1/2 Plug																							
Pumptrk Charge																							
Mileage 33																							
Tax																							
Discount																							
Total Charge																							
X Signature <i>Bill Miller</i>																							

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. 5363

Date	9-18-12	Sec.	24	Twp.	18	Range	11	County	Barton	State	Ks	On Location		Finish	7:30 PM
Lease	Pam Wirth		Well No.	1		Location Claflin, Ks - E to 1st Rd, 45, 1/2 W									
Contractor	Royal #2		Owner		J/Into										
Type Job	Surface		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	12 1/4"		T.D.	296'											
Csg.	8 5/8"		Depth	296'											
Tbg. Size			Depth	Charge To RJM Company											
Tool			Depth	Street											
Cement Left in Csg.	15'		Shoe Joint	15'											
Meas Line			Displace	17 3/4 BLS											
				Cement Amount Ordered 180 sx Common 3% CC											

EQUIPMENT

Pumptrk	15	No.	Cementer	Nick	2% Gel
			Helper		Common 180
Bulktrk	14	No.	Driver	Lonnie	Poz. Mix
			Driver		
Bulktrk	p.u.	No.	Driver	Rick	Gel. 3
			Driver		Calcium 6

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate				
Rat Hole	Hulls				
Mouse Hole	Salt				
Centralizers	Flowseal				
Baskets	Kol-Seal				
D/V or Port Collar	Mud CLR 48				
	CFL-117 or CD110 CAF 38				
	Sand				
	Handling 189				
	Mileage				

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge Surface
	Mileage 33

	Tax
	Discount
	Total Charge

X Signature Doug Budz

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