

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1156804

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

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: _____

Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West County: _____

Drill Stem Tests Taken (Attach Additional Sheets)	<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:				

<div style="text-align: center;"> CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used </div> <div style="text-align: center;">Report all strings set-conductor, surface, intermediate, production, etc.</div>							
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)

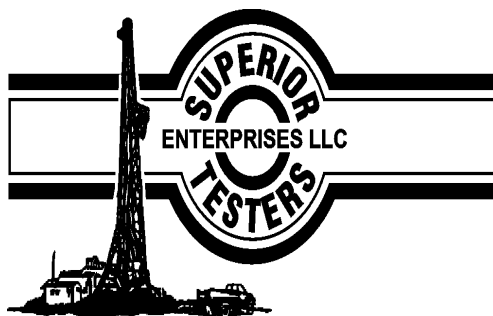
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No (If No, skip question 3)

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 (Amount and Kind of Material Used)	Depth

TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run:		
					<input type="checkbox"/> Yes	<input type="checkbox"/> No	
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 (Explain) _____	
Estimated Production Per 24 Hours	Oil	Bbbs.	Gas	Mcf	Water	Bbbs.	Gas-Oil Ratio
							Gravity

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

Prepared For: **RJM Company**

P.O.Box 256
Claflin Ks, 67525-0256

ATTN: Jim Musgrove

Hammeke #1

13/19s/12w/Barton

Start Date: 2013.07.22 @ 18:13:00

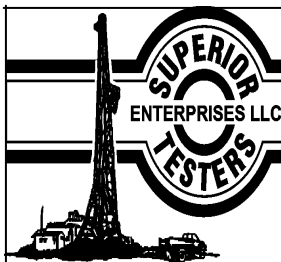
End Date: 2013.07.23 @ 00:42:23

Job Ticket #: 18418 DST #: 1

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

Printed: 2013.07.22 @ 00:59:52

RJM Company
13/19s/12w/Barton
Hammeke #1
DST # 1
LKC "A-B"
2013.07.22



DRILL STEM TEST REPORT

RJM Company
P.O.Box 256
Claflin Ks, 67525-0256
ATTN: Jim Musgrove

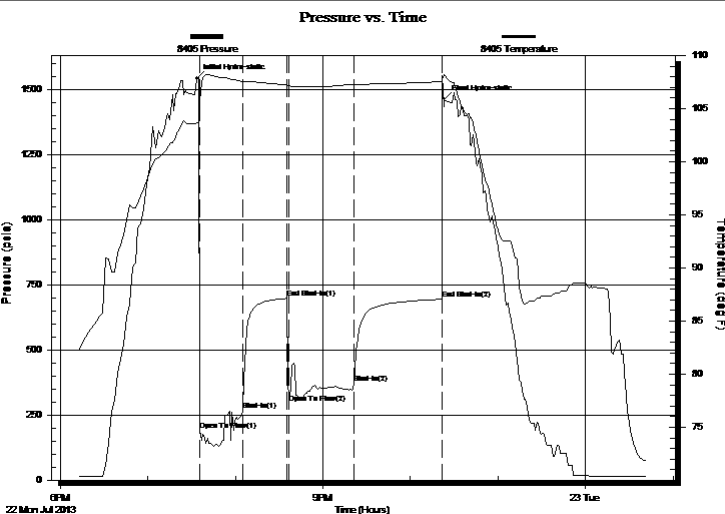
13/19s/12w/Barton
Hammeke #1
Job Ticket: 18418 **DST#: 1**
Test Start: 2013.07.22 @ 18:13:00

GENERAL INFORMATION:

Formation: **LKC "A-B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:35:53
Time Test Ended: 00:42:23
Interval: **3097.00 ft (KB) To 3144.00 ft (KB) (TVD)**
Total Depth: 3144.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 3330/30/Great Bend
Reference Elevations: 1824.00 ft (KB)
1815.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8405 Inside
Press @ Run Depth: 371.47 psia @ 3140.00 ft (KB) Capacity: 5000.00 psia
Start Date: 2013.07.22 End Date: 2013.07.23 Last Calib.: 2013.07.22
Start Time: 18:13:00 End Time: 00:42:23 Time On Btm: 2013.07.22 @ 19:33:53
Time Off Btm: 2013.07.22 @ 22:23:23

TEST COMMENT: 1st Open/ 30 Minutes. Strong blow built to bottom of bucket in 40 Seconds. Gas to surface in 8 minutes.
1st Shut In/ 30 Minutes. Blow back built to bottom of bucket in 15 Minutes.
2nd Open/ 45 Minutes. Strong blow built to bottom of bucket in 40 seconds.
2nd Shut In/ 60 Minutes. Blow back built to 11 inches.



PRESSURE SUMMARY

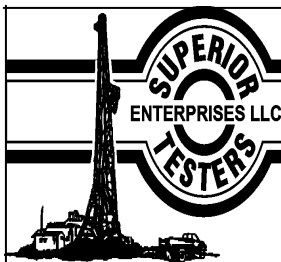
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1544.13	103.69	Initial Hydro-static
2	192.11	105.76	Open To Flow (1)
32	270.44	107.55	Shut-In(1)
62	698.77	107.24	End Shut-In(1)
63	296.11	107.13	Open To Flow (2)
108	371.47	107.26	Shut-In(2)
168	695.39	107.55	End Shut-In(2)
170	1464.13	108.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3144 feet gas	0.00
63.00	10% Oil, 90% mud.	0.88
63.00	40% mud, 10% water, 20% oil, 30% gas	0.88
63.00	40% mud, 20% oil, 40% gas.	0.88
63.00	20% mud, 20% oil, 60% gas	0.88
63.00	100% gas	0.88

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.75	6.28	98.09
Last Gas Rate	0.50	4.40	29.68
Max. Gas Rate	0.75	6.28	98.09



DRILL STEM TEST REPORT

RJM Company
P.O.Box 256
Claflin Ks, 67525-0256
ATTN: Jim Musgrove

13/19s/12w/Barton
Hammeke #1
Job Ticket: 18418 **DST#: 1**
Test Start: 2013.07.22 @ 18:13:00

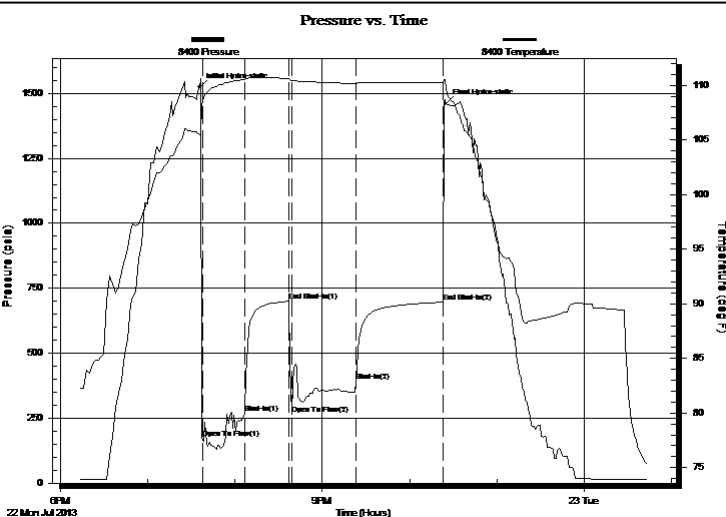
GENERAL INFORMATION:

Formation: **LKC "A-B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:35:53
Time Test Ended: 00:42:23
Interval: **3097.00 ft (KB) To 3144.00 ft (KB) (TVD)**
Total Depth: 3144.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 3330/30/Great Bend
Reference Elevations: 1824.00 ft (KB)
1815.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8400 Outside

Press @ Run Depth: 696.26 psia @ 3141.00 ft (KB)
Start Date: 2013.07.22 End Date: 2013.07.23
Start Time: 18:13:00 End Time: 00:43:30
Capacity: 5000.00 psia
Last Calib.: 2013.07.22
Time On Btm: 2013.07.22 @ 19:35:30
Time Off Btm: 2013.07.22 @ 22:25:00

TEST COMMENT: 1st Open/ 30 Minutes. Strong blow built to bottom of bucket in 40 Seconds. Gas to surface in 8 minutes.
1st Shut In/ 30 Minutes. Blow back built to bottom of bucket in 15 Minutes.
2nd Open/ 45 Minutes. Strong blow built to bottom of bucket in 40 seconds.
2nd Shut In/ 60 Minutes. Blow back built to 11 inches.



PRESSURE SUMMARY

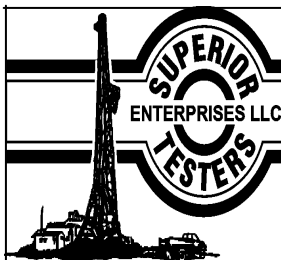
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1523.58	105.50	Initial Hydro-static
2	173.46	108.11	Open To Flow (1)
31	267.61	110.50	Shut-In(1)
62	699.69	110.59	End Shut-In(1)
64	265.47	110.38	Open To Flow (2)
108	393.17	110.17	Shut-In(2)
168	696.26	110.27	End Shut-In(2)
170	1459.31	109.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3144 feet gas	0.00
63.00	10% Oil, 90% mud.	0.88
63.00	40% mud, 10% water, 20% oil, 30% gas	0.88
63.00	40% mud, 20% oil, 40% gas.	0.88
63.00	20% mud, 20% oil, 60% gas	0.88
63.00	100% gas	0.88

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.75	6.28	98.09
Last Gas Rate	0.50	4.40	29.68
Max. Gas Rate	0.75	6.28	98.09



DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM Company

13/19s/12w/Barton

P.O.Box 256
Claflin Ks, 67525-0256

Hammeke #1

Job Ticket: 18418

DST#: 1

ATTN: Jim Musgrove

Test Start: 2013.07.22 @ 18:13:00

Tool Information

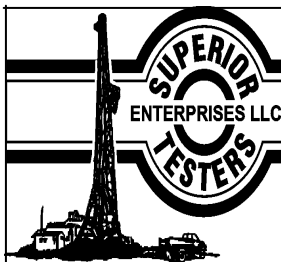
Drill Pipe:	Length:	3099.00 ft	Diameter:	3.80 inches	Volume:	43.47 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	52000.00 lb
					Total Volume:	43.47 bbl	Tool Chased	6.00 ft
Drill Pipe Above KB:		31.00 ft					String Weight: Initial	32000.00 lb
Depth to Top Packer:		3097.00 ft					Final	38000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		47.00 ft						
Tool Length:		76.00 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			3069.00		
Shut-In Tool	5.00			3074.00		
Hydroic Tool	5.00			3079.00		
Jars	6.00			3085.00		
Safety Joint	2.00			3087.00		
Packer	5.00			3092.00	29.00	Bottom Of Top Packer
Packer	5.00			3097.00		
Perforations	42.00			3139.00		
Recorder	1.00	8405	Inside	3140.00		
Recorder	1.00	8400	Outside	3141.00		
Bullnose	3.00			3144.00	47.00	Bottom Packers & Anchor

Total Tool Length: 76.00



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM Company

13/19s/12w/Barton

P.O.Box 256
Claflin Ks, 67525-0256

Hammeke #1

Job Ticket: 18418

DST#: 1

ATTN: Jim Musgrove

Test Start: 2013.07.22 @ 18:13:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 8.80 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psia

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3144 feet gas	0.000
63.00	10% Oil, 90% mud.	0.884
63.00	40% mud, 10% water, 20% oil, 30% gas	0.884
63.00	40% mud, 20% oil, 40% gas.	0.884
63.00	20% mud, 20% oil, 60% gas	0.884
63.00	100% gas	0.884
63.00	20% mud, 30% oil, 50% gas	0.884
67.00	30% mud, 30% oil, 40% gas	0.940

Total Length: 445.00 ft

Total Volume: 6.244 bbl

Num Fluid Samples: 0

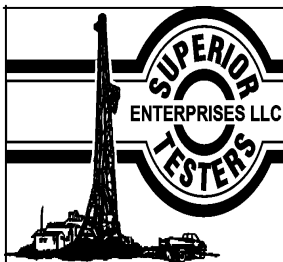
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

RJM Company

13/19s/12w/Barton

P.O.Box 256
Claflin Ks, 67525-0256

Hammeke #1

Job Ticket: 18418

DST#: 1

ATTN: Jim Musgrove

Test Start: 2013.07.22 @ 18:13:00

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)
1	10	0.75	6.28	98.09
1	15	0.75	6.28	98.09
1	20	0.75	6.28	98.09
1	25	0.75	5.70	89.03
1	30	0.75	5.50	85.91
3	5	0.75	4.45	69.51
3	10	0.75	4.45	69.51
3	15	0.75	4.45	69.51
3	20	0.50	4.40	29.68
3	25	0.50	5.20	35.08
3	30	0.50	4.40	29.68
3	35	0.50	4.60	31.03
3	40	0.50	4.40	29.68
3	45	0.50	4.40	29.68

Serial #: 8405

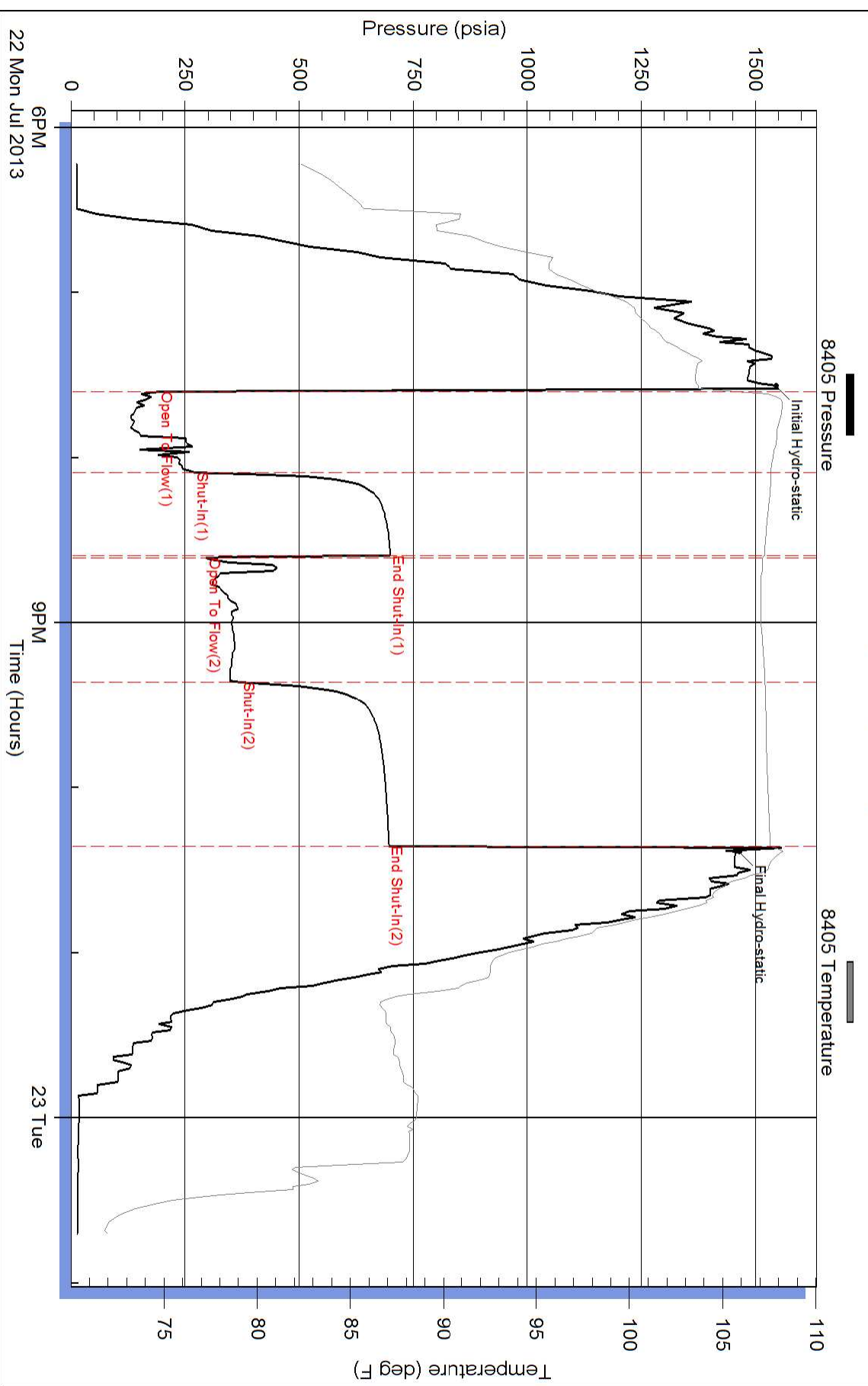
Inside

RJM Company

Hammeke #1

DST Test Number: 1

Pressure vs. Time

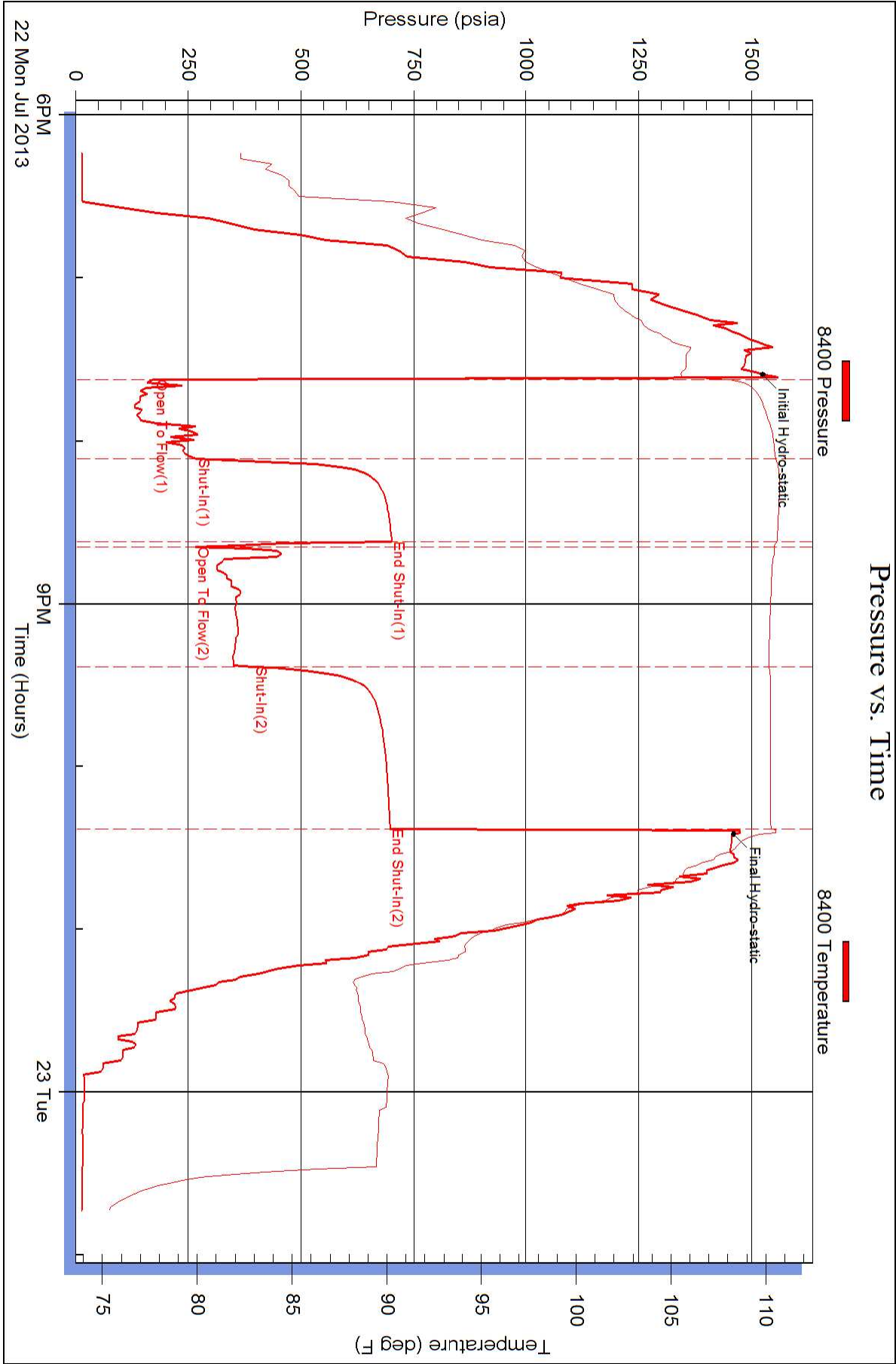


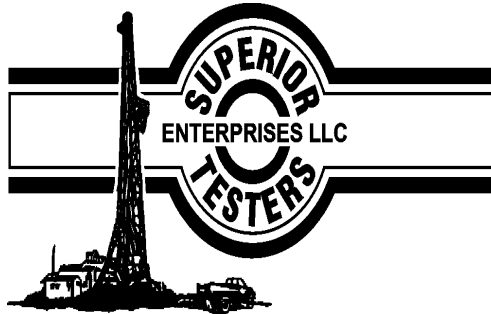
Serial #: 8400

Outside RJM Company

Hammeke #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **RJM Company**

P.O.Box 256
Claflin Ks, 67525-0256

ATTN: Jim Musgrove

Hammeke #1

13/19s/12w/Barton

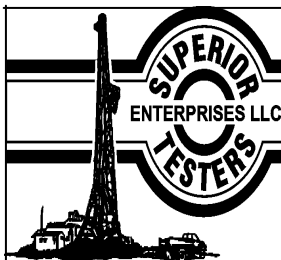
Start Date: 2013.07.22 @ 07:44:00

End Date: 2013.07.22 @ 14:51:00

Job Ticket #: 18419 DST #: 2

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

Printed: 2013.07.22 @ 15:02:08



DRILL STEM TEST REPORT

RJM Company
P.O.Box 256
Claflin Ks, 67525-0256
ATTN: Jim Musgrove

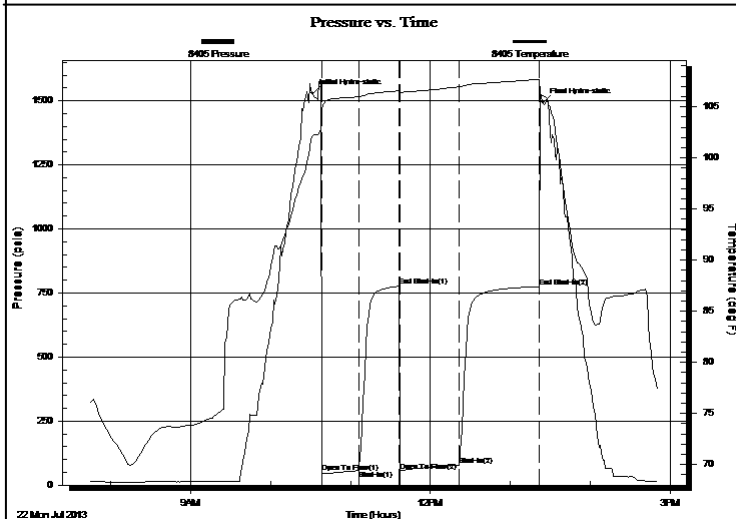
13/19s/12w/Barton
Hammeke #1
Job Ticket: 18419 **DST#: 2**
Test Start: 2013.07.22 @ 07:44:00

GENERAL INFORMATION:

Formation: **LKC "D-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:38:30
Time Test Ended: 14:51:00
Interval: **3153.00 ft (KB) To 3184.00 ft (KB) (TVD)**
Total Depth: 3184.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 3330/30/Great Bend
Reference Elevations: 1824.00 ft (KB)
1815.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8405 Inside
Press @ RunDepth: 76.84 psia @ 3180.00 ft (KB)
Start Date: 2013.07.22 End Date: 2013.07.22
Start Time: 07:44:00 End Time: 14:51:00
Capacity: 5000.00 psia
Last Calib.: 2013.07.22
Time On Btm: 2013.07.22 @ 10:31:30
Time Off Btm: 2013.07.22 @ 13:24:30

TEST COMMENT: 1st Open/ 30 Minutes. Good blow built to bottom of a 5 gallon bucket in 2 Minutes.
1st Shut In/ 30 Minutes. Blow back built to 1/2 an inch in a 5 gallon bucket.
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 2 minutes 20 seconds. Gas to surface in 20 Minutes.



PRESSURE SUMMARY

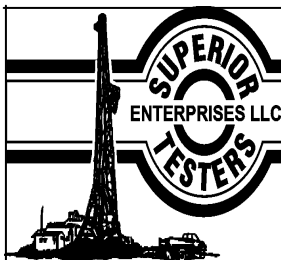
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1528.72	102.17	Initial Hydro-static
7	50.85	104.71	Open To Flow (1)
35	56.34	105.98	Shut-In (1)
65	776.17	106.57	End Shut-In (1)
66	54.38	106.42	Open To Flow (2)
110	76.84	106.95	Shut-In (2)
170	775.26	107.69	End Shut-In (2)
173	1493.18	106.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3184 feet gas.	0.00
30.00	Gassy Oil	0.42
80.00	10% mud, 5% water, 5% gas, 80% oil.	1.12

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	10.30	3.85
Last Gas Rate	0.25	5.20	8.25
Max. Gas Rate	0.13	12.10	4.53



DRILL STEM TEST REPORT

RJM Company
P.O.Box 256
Claflin Ks, 67525-0256
ATTN: Jim Musgrove

13/19s/12w/Barton
Hammeke #1
Job Ticket: 18419 **DST#: 2**
Test Start: 2013.07.22 @ 07:44:00

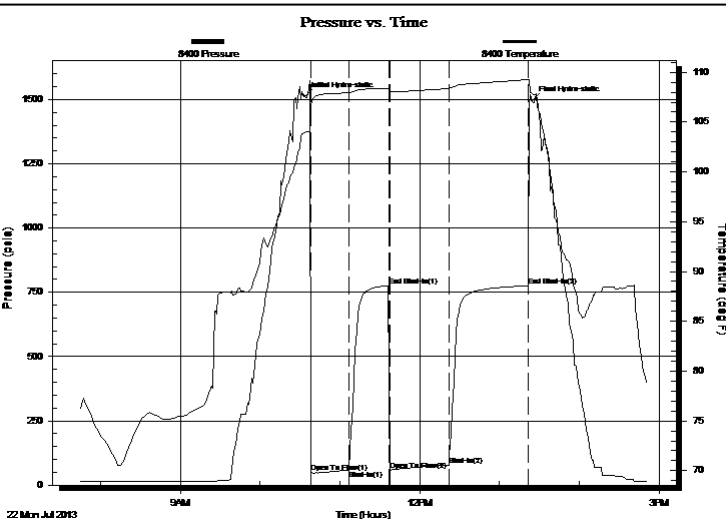
GENERAL INFORMATION:

Formation: **LKC "D-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:38:30
Time Test Ended: 14:51:00
Interval: **3153.00 ft (KB) To 3184.00 ft (KB) (TVD)**
Total Depth: 3184.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 3330/30/Great Bend
Reference Elevations: 1824.00 ft (KB)
1815.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8400 Outside

Press @ Run Depth: 775.48 psia @ 3181.00 ft (KB)
Start Date: 2013.07.22 End Date: 2013.07.22
Start Time: 07:44:00 End Time: 14:51:30
Capacity: 5000.00 psia
Last Calib.: 2013.07.22
Time On Btm: 2013.07.22 @ 10:33:30
Time Off Btm: 2013.07.22 @ 13:24:30

TEST COMMENT: 1st Open/ 30 Minutes. Good blow built to bottom of a 5 gallon bucket in 2 Minutes.
1st Shut In/ 30 Minutes. Blow back built to 1/2 an inch in a 5 gallon bucket.
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 2 minutes 20 seconds. Gas to surface in 20 Minutes.



PRESSURE SUMMARY

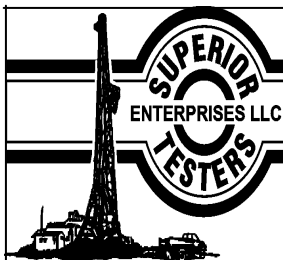
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1511.66	103.95	Initial Hydro-static
5	50.73	106.73	Open To Flow (1)
33	58.07	107.92	Shut-In (1)
63	776.81	108.39	End Shut-In (1)
64	56.02	108.11	Open To Flow (2)
109	78.30	108.36	Shut-In (2)
169	775.48	109.26	End Shut-In (2)
171	1496.90	107.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3184 feet gas.	0.00
30.00	Gassy Oil	0.42
80.00	10% mud, 5% water, 5% gas, 80% oil.	1.12

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	10.30	3.85
Last Gas Rate	0.25	5.20	8.25
Max. Gas Rate	0.13	12.10	4.53



DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM Company

13/19s/12w/Barton

P.O.Box 256
Claflin Ks, 67525-0256

Hammeke #1

Job Ticket: 18419

DST#: 2

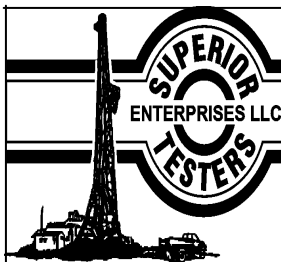
ATTN: Jim Musgrove

Test Start: 2013.07.22 @ 07:44:00

Tool Information

Drill Pipe:	Length: 3142.00 ft	Diameter: 3.80 inches	Volume: 44.07 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: 54000.00 lb
		Total Volume:	44.07 bbl	Tool Chased 4.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3153.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter:	6.75 inches	
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3133.00	
Shut-In Tool	5.00			3138.00	
Hydroic Tool	5.00			3143.00	
Packer	5.00			3148.00	21.00 Bottom Of Top Packer
Packer	5.00			3153.00	
Perforations	26.00			3179.00	
Recorder	1.00	8405	Inside	3180.00	
Recorder	1.00	8400	Outside	3181.00	
Bullnose	3.00			3184.00	31.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM Company

13/19s/12w/Barton

P.O.Box 256
Claflin Ks, 67525-0256

Hammeke #1

Job Ticket: 18419

DST#: 2

ATTN: Jim Musgrove

Test Start: 2013.07.22 @ 07:44:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 44.00 sec/qt

Water Loss: 9.60 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psia

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3184 feet gas.	0.000
30.00	Gassy Oil	0.421
80.00	10% mud, 5% water, 5% gas, 80% oil.	1.122

Total Length: 110.00 ft

Total Volume: 1.543 bbl

Num Fluid Samples: 0

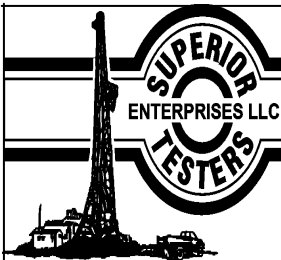
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

RJM Company

13/19s/12w/Barton

P.O.Box 256
Claflin Ks, 67525-0256

Hammeke #1

Job Ticket: 18419

DST#: 2

ATTN: Jim Musgrove

Test Start: 2013.07.22 @ 07:44:00

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)
3	20	0.13	10.30	3.85
3	20	0.13	10.30	3.85
3	25	0.13	10.30	3.85
3	30	0.13	10.80	4.04
3	35	0.13	12.10	4.53
3	40	0.25	5.20	8.25

Serial #: 8405

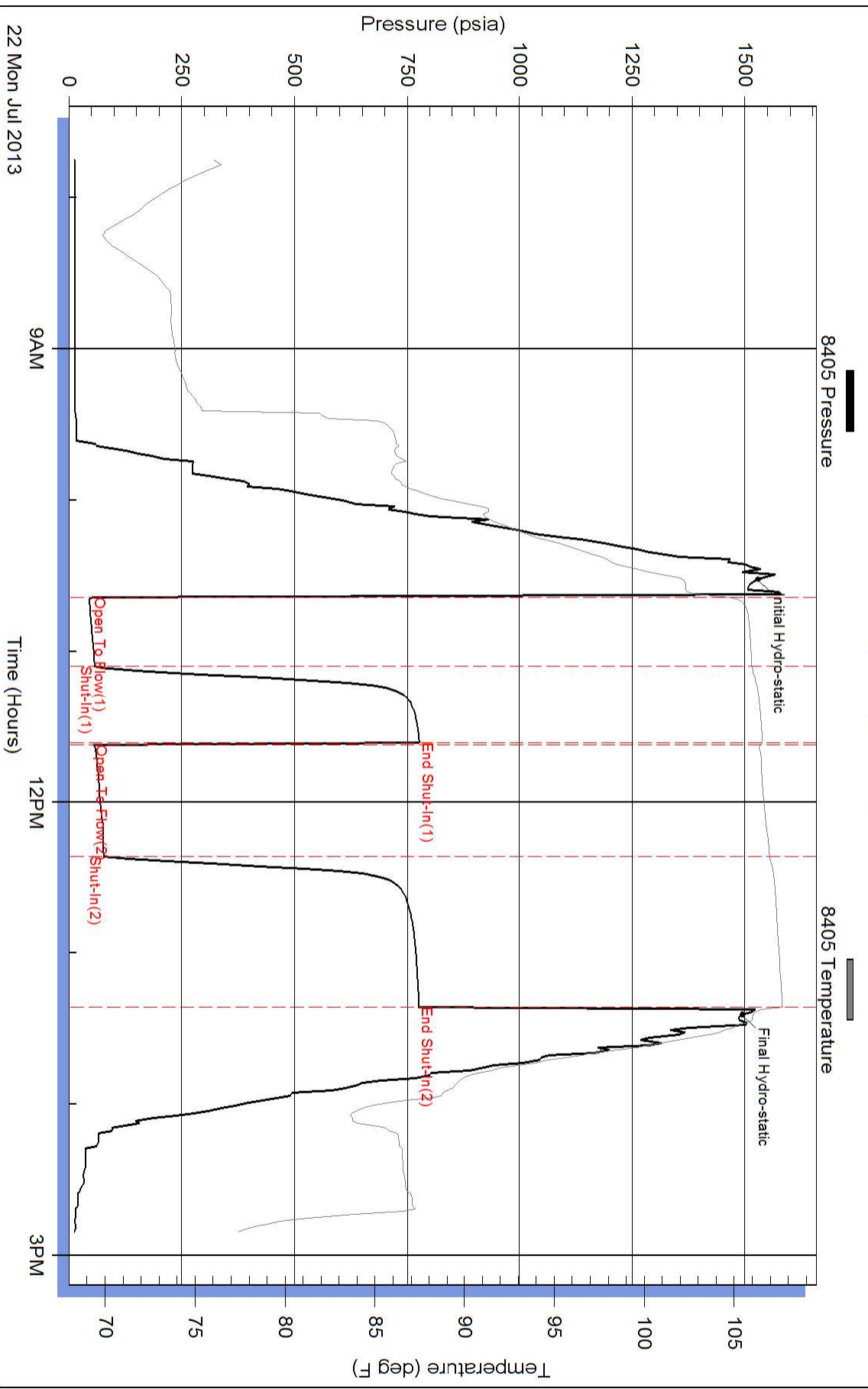
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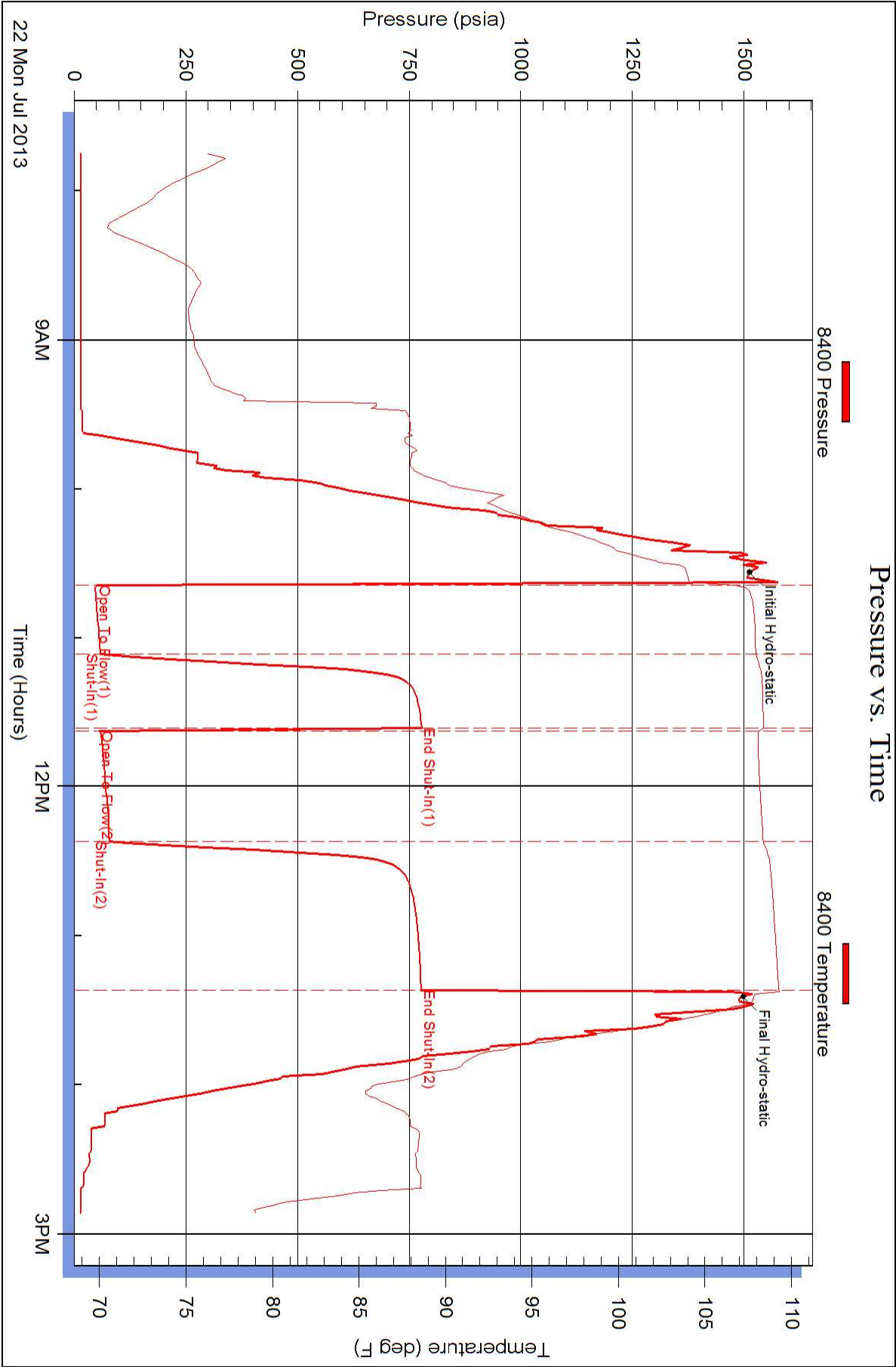
RJM Company

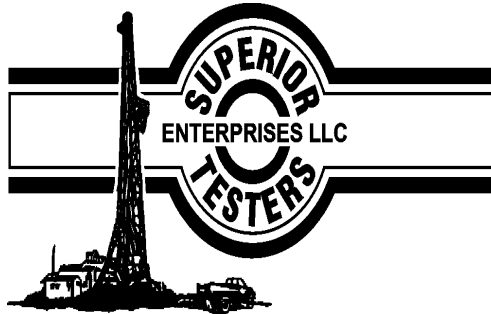
Hammeke #1

DST Test Number: 2

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **RJM Company**

P.O.Box 256
Claflin Ks, 67525-0256

ATTN: Jim Musgrove

Hammeke #1

13/19s/12w/Barton

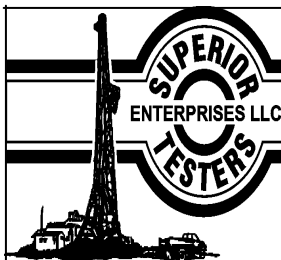
Start Date: 2013.07.23 @ 04:04:00

End Date: 2013.07.23 @ 10:31:30

Job Ticket #: 18420 DST #: 3

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

Printed: 2013.07.23 @ 10:56:57



DRILL STEM TEST REPORT

RJM Company
P.O.Box 256
Claflin Ks, 67525-0256
ATTN: Jim Musgrove

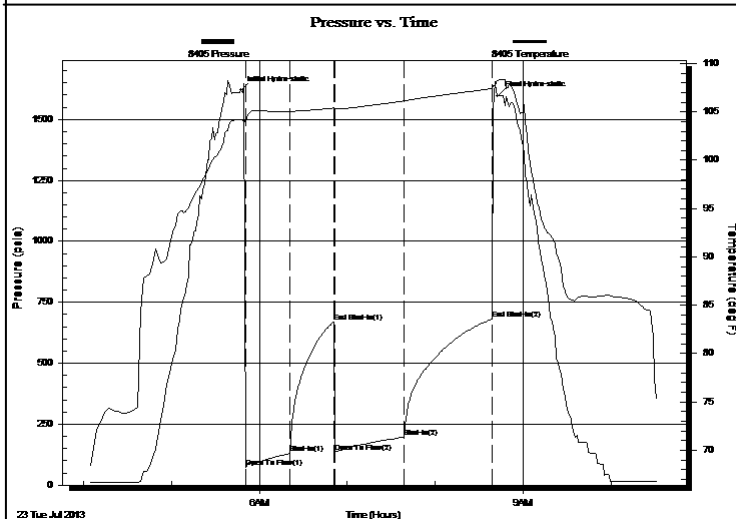
13/19s/12w/Barton
Hammeke #1
Job Ticket: 18420 **DST#: 3**
Test Start: 2013.07.23 @ 04:04:00

GENERAL INFORMATION:

Formation: **LKC "H-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:50:30
Time Test Ended: 10:31:30
Interval: **3254.00 ft (KB) To 3326.00 ft (KB) (TVD)**
Total Depth: 3326.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 3330/30/Great Bend
Reference Elevations: 1824.00 ft (KB)
1815.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8405 Inside
Press @ RunDepth: 197.25 psia @ 3322.53 ft (KB) Capacity: 5000.00 psia
Start Date: 2013.07.23 End Date: 2013.07.23 Last Calib.: 2013.07.23
Start Time: 04:04:00 End Time: 10:31:30 Time On Btm: 2013.07.23 @ 05:47:30
Time Off Btm: 2013.07.23 @ 08:42:30

TEST COMMENT: 1st Open/ 30 Minutes. Fair blow built to bottom of 5 gallon bucket in 18 minutes.
1st Shut In/ 30 Minutes. No blow back.
2nd Open/ 45 Minutes. Fair blow built to 11 inches in 5 gallon bucket.
2nd Shut In/ 60 Minutes. No blow back.



PRESSURE SUMMARY

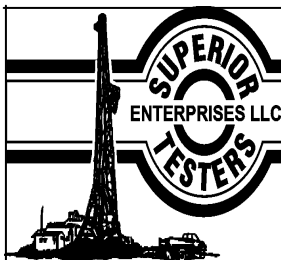
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1619.10	104.15	Initial Hydro-static
3	72.23	103.91	Open To Flow (1)
33	129.83	105.01	Shut-In(1)
63	669.18	105.39	End Shut-In(1)
64	134.52	105.30	Open To Flow (2)
111	197.25	106.12	Shut-In(2)
172	682.11	107.41	End Shut-In(2)
175	1597.45	108.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
1.00	Clean Oil	0.01
30.00	25% Water, 75% Mud	0.42
63.00	45% water, 55% mud	0.88
63.00	10% mud, 90% water	0.88
63.00	5% mud, 95% water	0.88

Gas Rates

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

RJM Company
P.O.Box 256
Claflin Ks, 67525-0256
ATTN: Jim Musgrove

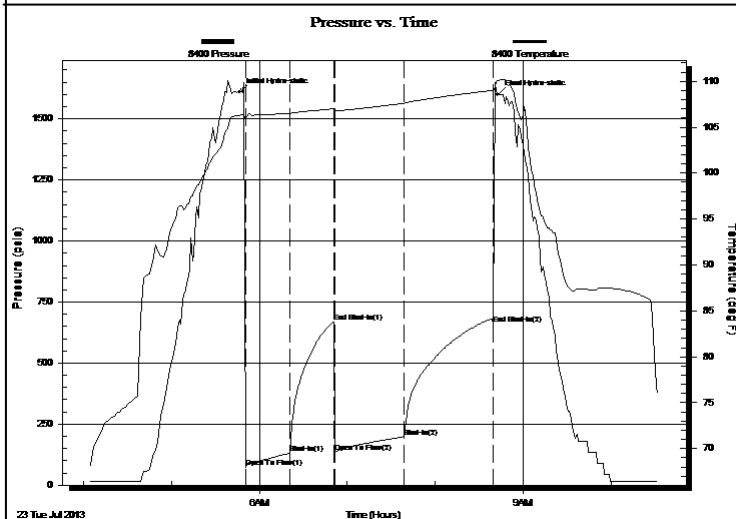
13/19s/12w/Barton
Hammeke #1
Job Ticket: 18420 **DST#: 3**
Test Start: 2013.07.23 @ 04:04:00

GENERAL INFORMATION:

Formation: **LKC "H-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:50:30
Time Test Ended: 10:31:30
Interval: **3254.00 ft (KB) To 3326.00 ft (KB) (TVD)**
Total Depth: 3326.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 3330/30/Great Bend
Reference Elevations: 1824.00 ft (KB)
1815.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8400 Outside
Press @ RunDepth: 660.59 psia @ 3323.53 ft (KB)
Start Date: 2013.07.23 End Date: 2013.07.23
Start Time: 04:04:00 End Time: 10:31:30
Capacity: 5000.00 psia
Last Calib.: 2013.07.23
Time On Btm: 2013.07.23 @ 05:46:30
Time Off Btm: 2013.07.23 @ 08:42:30

TEST COMMENT: 1st Open/ 30 Minutes. Fair blow built to bottom of 5 gallon bucket in 18 minutes.
1st Shut In/ 30 Minutes. No blow back.
2nd Open/ 45 Minutes. Fair blow built to 11 inches in 5 gallon bucket.
2nd Shut In/ 60 Minutes. No blow back.



PRESSURE SUMMARY

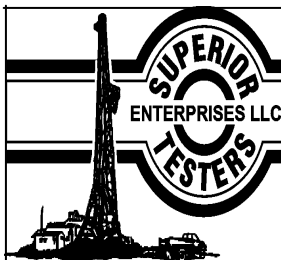
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1609.12	106.29	Initial Hydro-static
4	72.90	105.97	Open To Flow (1)
34	130.00	106.46	Shut-In (1)
64	669.30	107.01	End Shut-In (1)
65	135.02	106.81	Open To Flow (2)
113	198.34	107.59	Shut-In (2)
173	660.59	109.01	End Shut-In (2)
176	1599.79	110.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
1.00	Clean Oil	0.01
30.00	25% Water, 75% Mud	0.42
63.00	45% water, 55% mud	0.88
63.00	10% mud, 90% water	0.88
63.00	5% mud, 95% water	0.88

Gas Rates

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

TOOL DIAGRAM

RJM Company

13/19s/12w/Barton

P.O.Box 256
Claflin Ks, 67525-0256

Hammeke #1

Job Ticket: 18420

DST#: 3

ATTN: Jim Musgrove

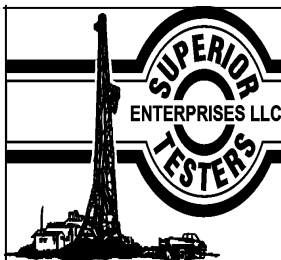
Test Start: 2013.07.23 @ 04:04:00

Tool Information

Drill Pipe:	Length: 3265.00 ft	Diameter: 3.80 inches	Volume: 45.80 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: 48000.00 lb
		Total Volume:	45.80 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3254.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.53 ft			
Tool Length:	93.53 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			3234.00	
Shut-In Tool	5.00			3239.00	
Hydroic Tool	5.00			3244.00	
Packer	5.00			3249.00	21.00 Bottom Of Top Packer
Packer	5.00			3254.00	
Perforations	5.00			3259.00	
Change Over Sub	0.75			3259.75	
Drill Pipe	32.03			3291.78	
Change Over Sub	0.75			3292.53	
Perforations	29.00			3321.53	
Recorder	1.00	8405	Inside	3322.53	
Recorder	1.00	8400	Outside	3323.53	
Bullnose	3.00			3326.53	72.53 Bottom Packers & Anchor

Total Tool Length: 93.53



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM Company

13/19s/12w/Barton

P.O.Box 256
Claflin Ks, 67525-0256

Hammeke #1

Job Ticket: 18420

DST#: 3

ATTN: Jim Musgrove

Test Start: 2013.07.23 @ 04:04:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 44.00 sec/qt

Water Loss: 9.60 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psia

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	No gas	0.000
1.00	Clean Oil	0.014
30.00	25% Water, 75% Mud	0.421
63.00	45% water, 55% mud	0.884
63.00	10% mud, 90% water	0.884
63.00	5% mud, 95% water	0.884
63.00	10% mud, 90% water	0.884
0.00	Chloride recov. 28000 ppm	0.000
0.00	resist recov .22 at 50 degrees.	0.000

Total Length: 283.00 ft

Total Volume: 3.971 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

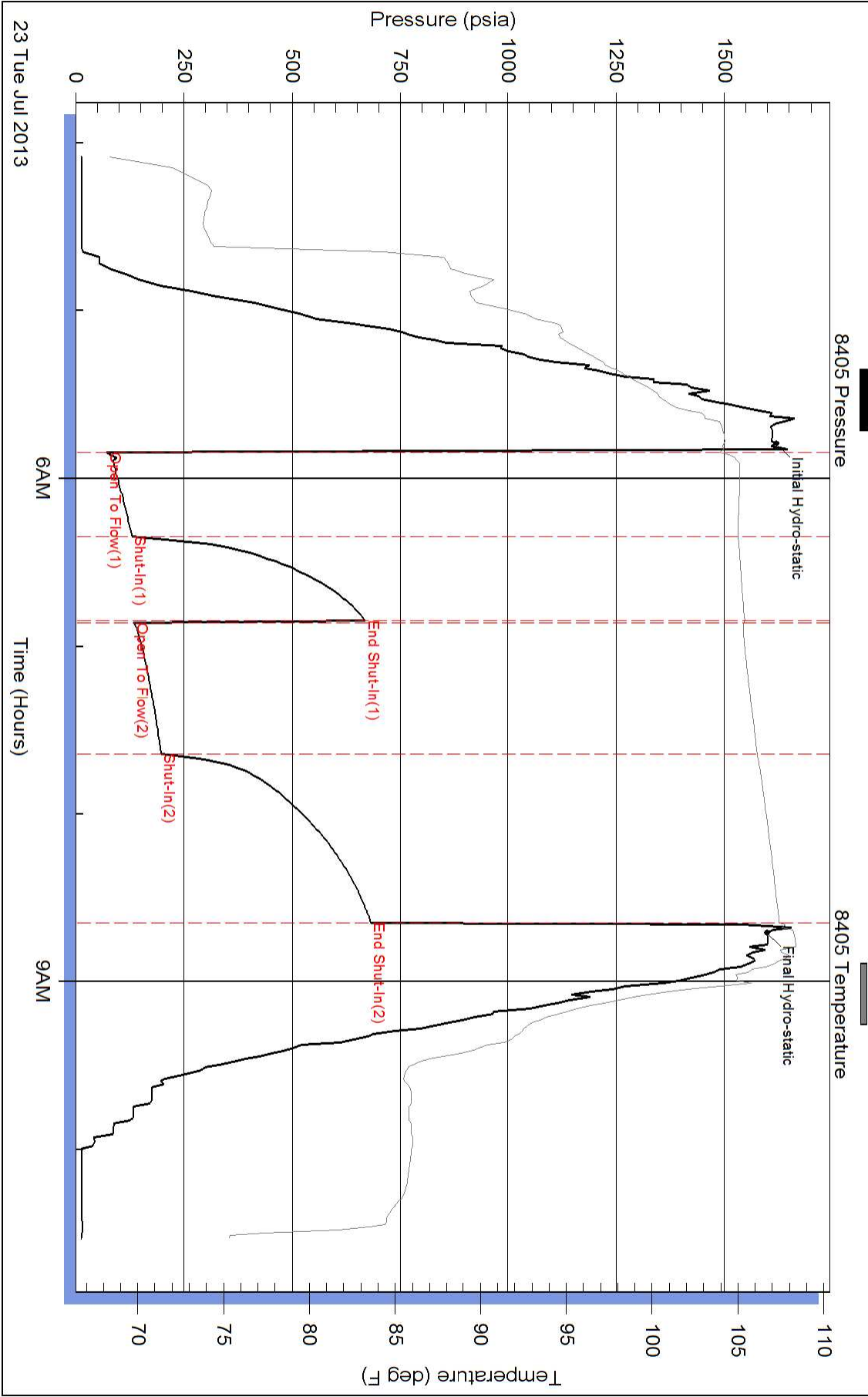
Serial #:

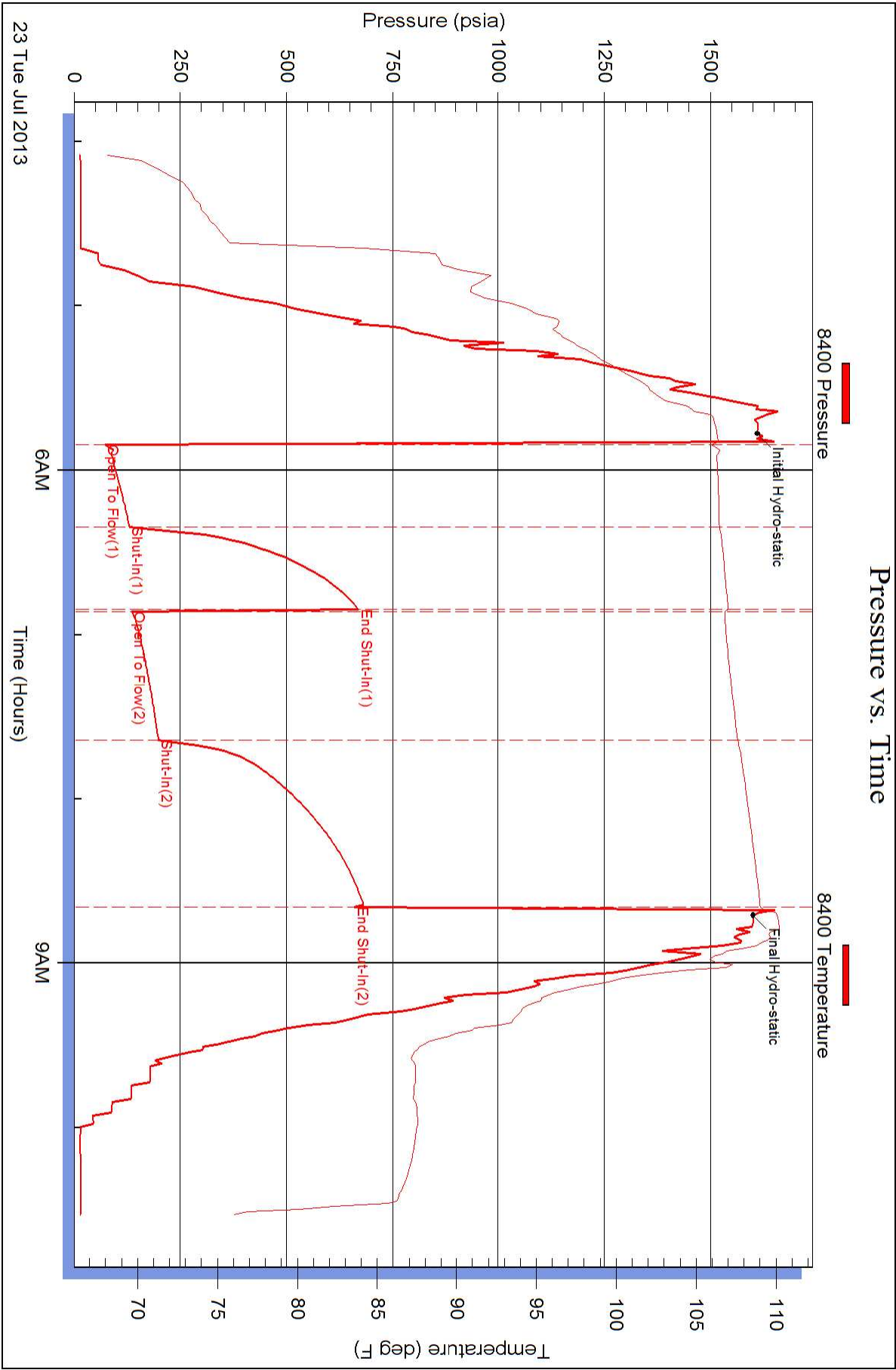
Laboratory Name:

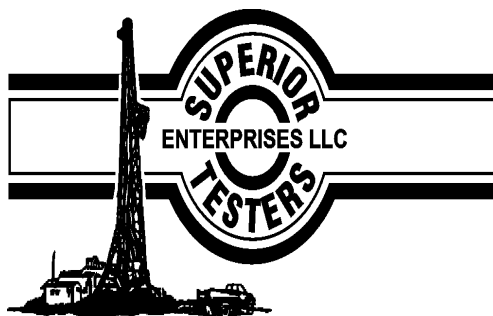
Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **RJM Company**
P.O.Box 256
Claflin Ks, 67525-0256

ATTN: Jim Musgrove

Hammeke #1

13/19s/12w/Barton

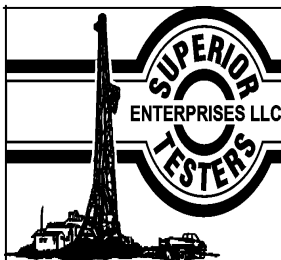
Start Date: 2013.07.24 @ 21:50:00

End Date: 2013.07.25 @ 02:56:30

Job Ticket #: 18421 DST #: 4

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

Printed: 2013.07.24 @ 02:32:24



DRILL STEM TEST REPORT

RJM Company
P.O.Box 256
Claflin Ks, 67525-0256
ATTN: Jim Musgrove

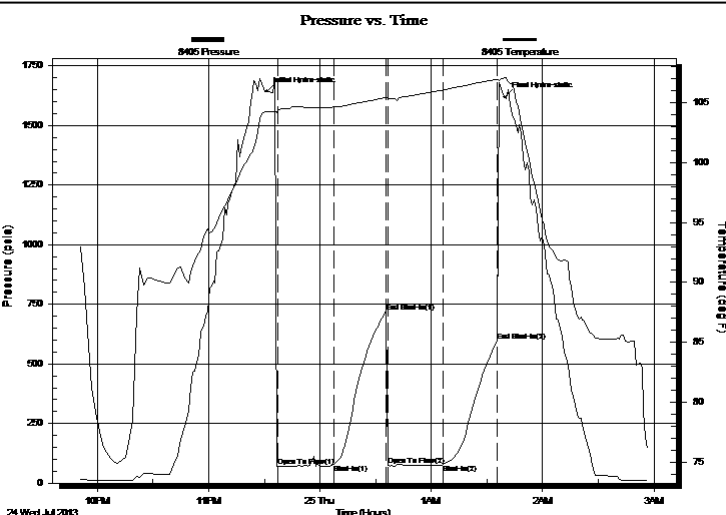
13/19s/12w/Barton
Hammeke #1
Job Ticket: 18421 **DST#: 4**
Test Start: 2013.07.24 @ 21:50:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:37:00
Time Test Ended: 02:56:30
Interval: **3336.00 ft (KB) To 3412.00 ft (KB) (TVD)**
Total Depth: 3412.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 3330/30/Great Bend
Reference Elevations: 1824.00 ft (KB)
1815.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8405 Inside
Press @ RunDepth: 78.81 psia @ 3408.17 ft (KB) Capacity: 5000.00 psia
Start Date: 2013.07.24 End Date: 2013.07.25 Last Calib.: 2013.07.24
Start Time: 21:50:00 End Time: 02:56:30 Time On Btm: 2013.07.24 @ 23:31:30
Time Off Btm: 2013.07.25 @ 01:39:30

TEST COMMENT: 1st Open/ 30 Minutes. Weak surface blow . Died after 1 minute.
1st Shut In/ 30 Minutes. No blow back.
2nd Open/ 30 Minutes. No blow , flushed tool and gained a weak surface blow that died in 27 minutes.
2nd Shut In/ 30 Minutes. No blow .



PRESSURE SUMMARY

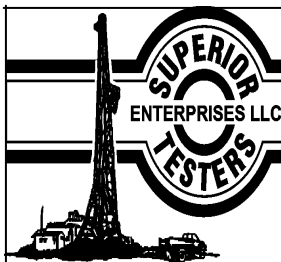
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1642.78	104.28	Initial Hydro-static
6	70.36	104.37	Open To Flow (1)
36	79.44	104.65	Shut-In(1)
64	719.77	105.42	End Shut-In(1)
65	73.26	105.31	Open To Flow (2)
95	78.81	106.08	Shut-In(2)
124	594.94	106.97	End Shut-In(2)
128	1619.21	107.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas.	0.00
2.00	Clean oil	0.03
29.00	10% Oil, 90% mud.	0.41

Gas Rates

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

RJM Company
P.O.Box 256
Claflin Ks, 67525-0256
ATTN: Jim Musgrove

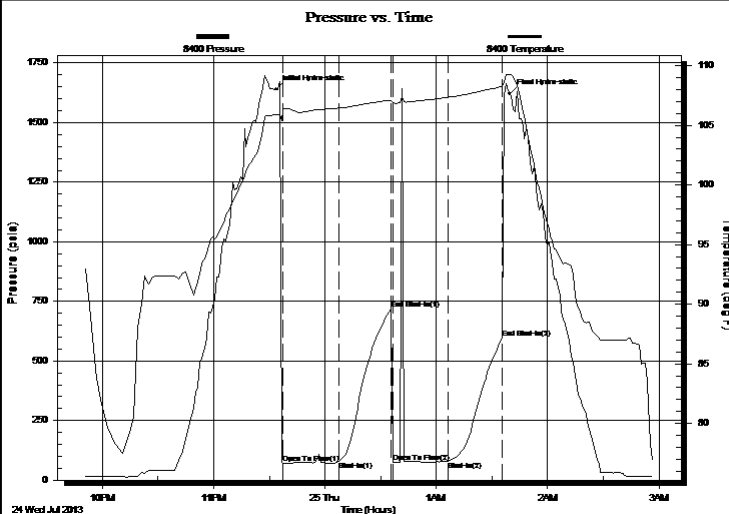
13/19s/12w/Barton
Hammeke #1
Job Ticket: 18421 **DST#: 4**
Test Start: 2013.07.24 @ 21:50:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:37:00
Time Test Ended: 02:56:30
Interval: **3336.00 ft (KB) To 3412.00 ft (KB) (TVD)**
Total Depth: 3412.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 3330/30/Great Bend
Reference Elevations: 1824.00 ft (KB)
1815.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8400 Outside
Press @ RunDepth: 594.01 psia @ 3409.17 ft (KB) Capacity: 5000.00 psia
Start Date: 2013.07.24 End Date: 2013.07.25 Last Calib.: 2013.07.24
Start Time: 21:50:00 End Time: 02:56:30 Time On Btm: 2013.07.24 @ 23:33:30
Time Off Btm: 2013.07.25 @ 01:39:30

TEST COMMENT: 1st Open/ 30 Minutes. Weak surface blow . Died after 1 minute.
1st Shut In/ 30 Minutes. No blow back.
2nd Open/ 30 Minutes. No blow , flushed tool and gained a weak surface blow that died in 27 minutes.
2nd Shut In/ 30 Minutes. No blow .



PRESSURE SUMMARY

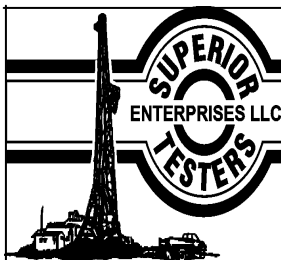
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1640.12	105.87	Initial Hydro-static
4	70.83	106.32	Open To Flow (1)
34	79.64	106.44	Shut-In(1)
62	718.55	107.11	End Shut-In(1)
63	75.27	106.86	Open To Flow (2)
93	79.29	107.35	Shut-In(2)
122	594.01	108.24	End Shut-In(2)
126	1621.75	109.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas.	0.00
2.00	Clean oil	0.03
29.00	10% Oil, 90% mud.	0.41

Gas Rates

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

TOOL DIAGRAM

RJM Company

13/19s/12w/Barton

P.O.Box 256
Claflin Ks, 67525-0256

Hammeke #1

Job Ticket: 18421

DST#: 4

ATTN: Jim Musgrove

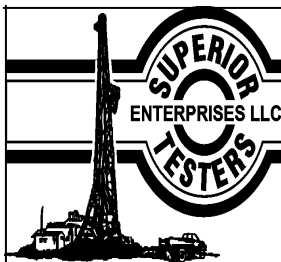
Test Start: 2013.07.24 @ 21:50:00

Tool Information

Drill Pipe:	Length: 3334.00 ft	Diameter: 3.80 inches	Volume: 46.77 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
		Total Volume:	46.77 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3336.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.17 ft			
Tool Length:	97.17 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			3316.00	
Shut-In Tool	5.00			3321.00	
Hydroic Tool	5.00			3326.00	
Packer	5.00			3331.00	21.00 Bottom Of Top Packer
Packer	5.00			3336.00	
Perforations	5.00			3341.00	
Change Over Sub	0.75			3341.75	
Drill Pipe	31.67			3373.42	
Change Over Sub	0.75			3374.17	
Perforations	33.00			3407.17	
Recorder	1.00	8405	Inside	3408.17	
Recorder	1.00	8400	Outside	3409.17	
Bullnose	3.00			3412.17	76.17 Bottom Packers & Anchor

Total Tool Length: 97.17



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM Company

13/19s/12w/Barton

P.O.Box 256
Claflin Ks, 67525-0256

Hammeke #1

Job Ticket: 18421

DST#: 4

ATTN: Jim Musgrove

Test Start: 2013.07.24 @ 21:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 9.80 in³

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psia

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	No gas.	0.000
2.00	CLean oil	0.028
29.00	10% Oil, 90% mud.	0.407

Total Length: 31.00 ft

Total Volume: 0.435 bbl

Num Fluid Samples: 0

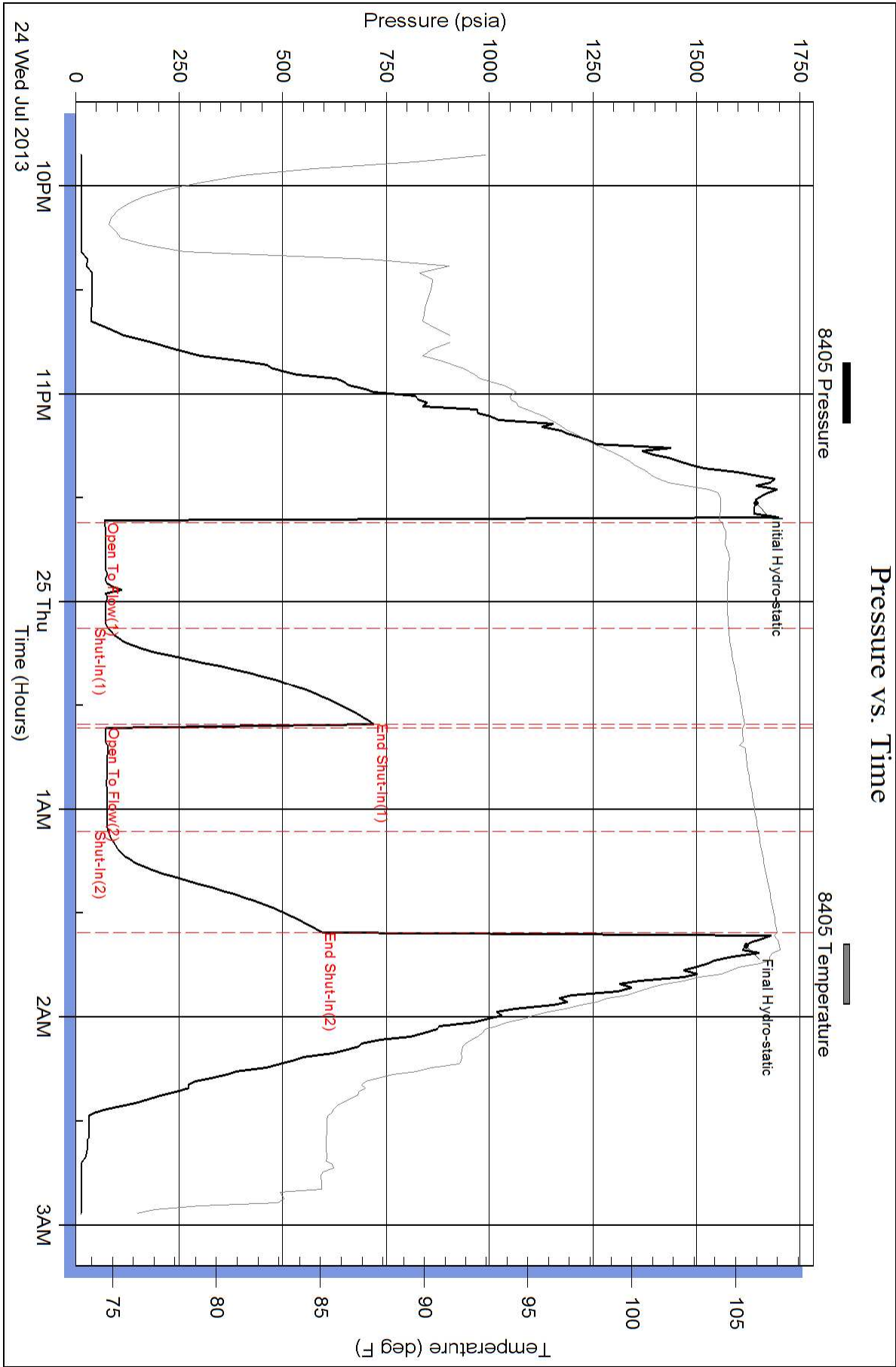
Num Gas Bombs: 0

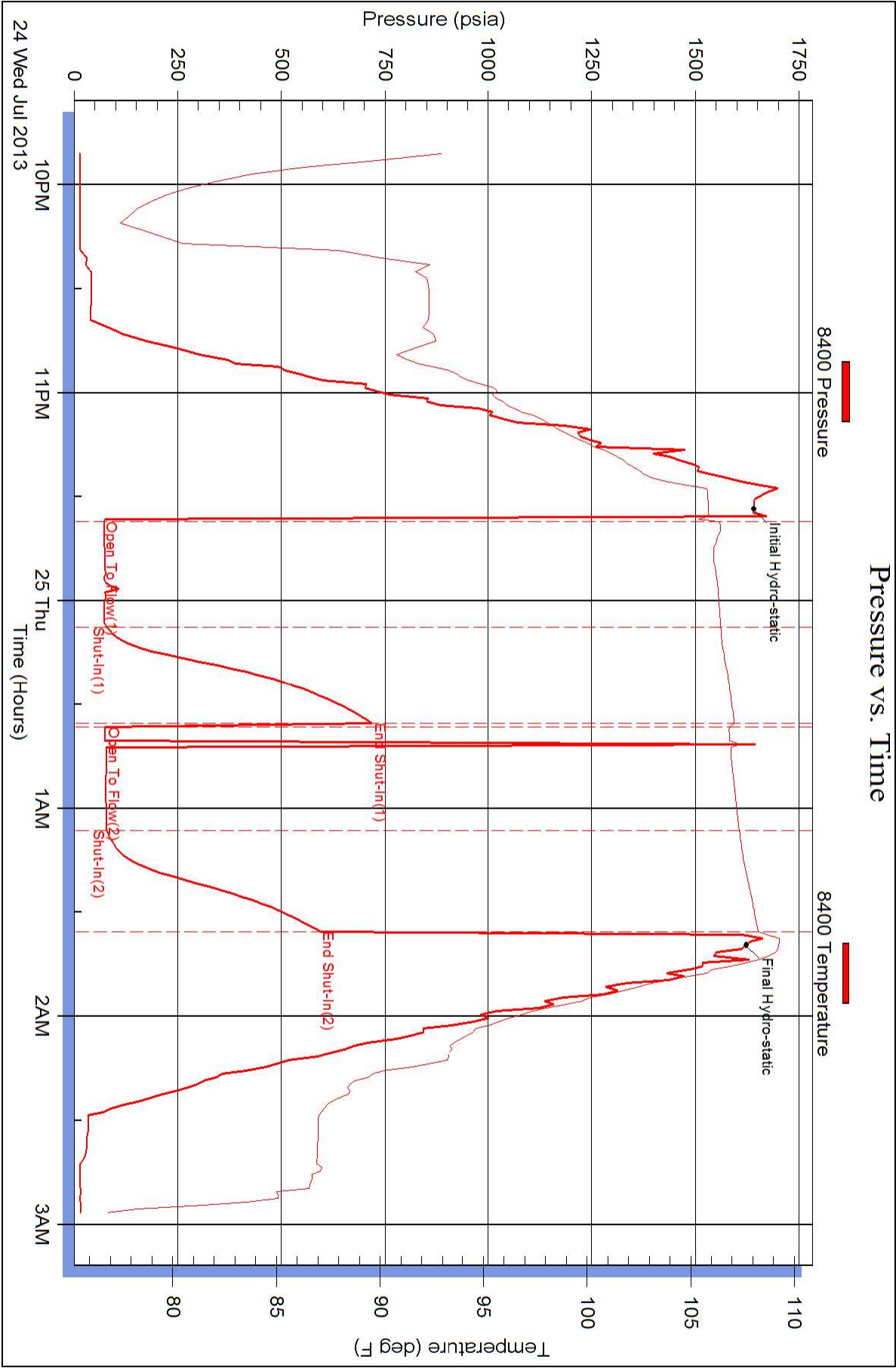
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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. 7267

Date	7-18-13	Sec.	13	Twp.	19	Range	12	County	Barton	State	KS	On Location		Finish	11:30 PM
Location								Great Bend Taco Rd E to 90 Rd 15 E							
Lease		Hammek		Well No.		1		Owner							
Contractor		Southwind #2		To Quality Oilwell Cementing, Inc.											
Type Job		Surface		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.											
Hole Size		12 1/4		T.D.		391		Charge To RJM							
Csg.		4 5/8		Depth		391		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'		Shoe Joint				Cement Amount Ordered 225 com 3 x 2 1/4 flow							
Meas Line				Displace		23 1/2 bbl									
EQUIPMENT								Common 225							
Pumptrk		5		No.		Cementer Helper Matt		Poz. Mix							
Bulktrk		10		No.		Driver Chad		Gel. 4							
Bulktrk		PU		No.		Driver Brett		Calcium 8							
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal 112 #							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
								Handling 236							
								Mileage 8 5/8							
Cement								FLOAT EQUIPMENT							
								Guide Shoe							
								Centralizer							
Circulated !!								Baskets 1							
Thank You!								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge Surface							
								Mileage 15							
Signature William L. Lader								Tax							
								Discount							
								Total Charge							

GENERAL TERMS AND CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

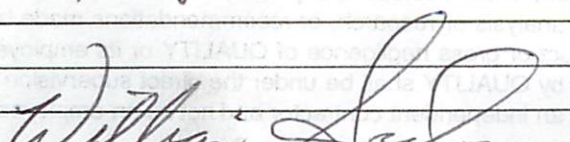
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 7939

Date	7-24-13	Sec.	13	Twp.	19	Range	12	County	Barton	State	Ks	On Location		Finish	12:00 AM
Lease	Hammeke			Well No.	1			Owner	90th Ave, 2 3/4 N, E/Into						
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.								
Type Job	Production						Charge To	RJM Company							
Hole Size	7 7/8"			T.D.	3462'			Street							
Csg.	5 1/2" New			Depth	3459.49'			City	State						
Tbg. Size				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Tool				Depth				Cement Amount Ordered	180 5x Common 10% Salt						
Cement Left in Csg	21.48'			Shoe Joint	21.48'			5 1/2 Gilsonite - 500 gal mud Clear 48							
Meas Line				Displace	81 3/4 BLS			Common 180							
EQUIPMENT															
Pumptrk	15	No.		Cement Helper	Nick			Poz. Mix							
Bulktrk	14	No.		Driver	Heath			Gel.							
Bulktrk	p.u.	No.		Driver	Rick			Calcium							
JOB SERVICES & REMARKS															
Remarks:								Salt	16						
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal	900#						
Centralizers	1-9							Mud CLR 48	500 Gal						
Baskets	2 + 4							CFL-117 or CD110 CAF 38							
D/V or Port Collar	pipe on bottom break							Sand							
Circulation pump 500 gal mud								Handling	205						
Clear 48, plug Rathole w/ 305x								Mileage							
plug manhole w/ 155x. Hook to								FLOAT EQUIPMENT							
Casing + mix 135 5x Cement,								Guide Shoe	1						
shut down wash pump + lines								Centralizer	9						
Released plug + Displaced with								Baskets	2						
81 3/4 BLS of water.								AFU Inserts	1						
Released + Float held								Float Shoe							
								Latch Down							
Lift pressure 700 #								1-Rubber plug							
Land plug to 1500 #								1-Rotating head Assy							
								Pumptrk Charge	prod Long String						
								Mileage	15						
								Tax							
								Discount							
								Total Charge							

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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

August 29, 2013

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

Re: ACO1
API 15-009-25853-00-00
Hammeke 1
NW/4 Sec.13-19S-12W
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