

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1124438

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 #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R East West
Address 2:	Feet from North / South Line of Section
City:	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
Oil	Elevation: Ground: Kelly Bushing:
OG GSW Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)
Demois #	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	Location of fluid disposal if fladied offsite.
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R
Recompletion Date Recompletion Date	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

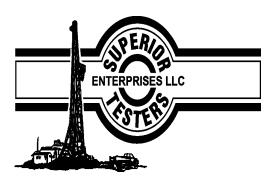
KCC Office Use ONLY				
Confidentiality Requested				
Date:				
Confidential Release Date:				
☐ Wireline Log Received				
Geologist Report Received				
UIC Distribution				
ALT I II III Approved by: Date:				

Page Two



Operator Name:			L	ease Name: _			Well #:	
Sec Twp	S. R	East We	est C	County:				
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres	sures, whether sh	ut-in pressur	e reached stati	c level, hydrosta	tic pressures, bott		
Final Radioactivity Lo files must be submitted					gs must be ema	iled to kcc-well-log	gs@kcc.ks.go	. Digital electronic log
Drill Stem Tests Taker (Attach Additional		Yes	No	L		n (Top), Depth an		Sample
Samples Sent to Geo	logical Survey	Yes	No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes Yes	No No					
List All E. Logs Run:								
		(CASING REC	ORD Ne	w Used			
		· ·		ıctor, surface, inte	ermediate, producti		T	
Purpose of String	Size Hole Drilled	Size Casin Set (In O.D		Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADD	ITIONAL CEN	MENTING / SQL	JEEZE RECORD			
Purpose:	Depth Top Bottom	Type of Cem	ent #	Sacks Used		Type and Pe	ercent Additives	
Perforate Protect Casing	100 20111111							
Plug Back TD Plug Off Zone								
1 lag on zono								
Did you perform a hydrau	ulic fracturing treatment	on this well?			Yes	No (If No, ski)	o questions 2 ar	nd 3)
Does the volume of the to		•				_	o question 3)	(" 100 ")
Was the hydraulic fractur	ing treatment information	on submitted to the c	hemical disclo	sure registry?	Yes	No (If No, fill o	out Page Three	of the ACO-1)
Shots Per Foot		ION RECORD - Bri Footage of Each Int				cture, Shot, Cement		d Depth
	, ,				,		,	
TUBING RECORD:	Size:	Set At:	Pa	acker At:	Liner Run:			
						Yes No		
Date of First, Resumed	Production, SWD or Ef		cing Method: owing	Pumping	Gas Lift C	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls. G	as Mcf	Wate	er Bl	ols. G	ias-Oil Ratio	Gravity
DIODOCITI	ON OF CAS:		, 4 CT - 1		TION:		DRODUCTIO	AN INTEDVAL.
Vented Solo	ON OF GAS: Used on Lease	Open Ho		IOD OF COMPLE \Box		nmingled	PHODUCIIC	ON INTERVAL:
	bmit ACO-18.)	Other (S	necify)	(Submit		mit ACO-4)		

RJM Company



DRILL STEM TEST REPORT

Prepared For: **RJM Company**

Po Box 256 Claflin Kansas 67525

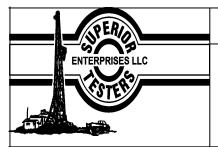
ATTN: Jim Musgrove

Boys Town Unit #2

32-17s-10w-Barton

Start Date: 2013.01.18 @ 07:20:00 End Date: 2013.01.18 @ 13:29:23 Job Ticket #: 17409 DST #: 1

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



RJM Company

32-17s-10w-Barton

Boys Town Unit #2

Po Box 256 Claflin Kansas

67525

Job Ticket: 17409

Unit No:

DST#:1

ATTN: Jim Musgrove

Test Start: 2013.01.18 @ 07:20:00

GENERAL INFORMATION:

Formation: Lansing A-B-C

Deviated: Whipstock: ft (KB)

Time Tool Opened: 08:37:53 Time Test Ended: 13:29:23

Interval:

2938.00 ft (KB) To 2991.00 ft (KB) (TVD)

Total Depth: 2991.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair Hole Diameter:

Test Type: Conventional Bottom Hole (Initial) Tester: Dustin Elis

3315-Great Bend-60

1798.00 ft (KB) Reference Elevations:

1790.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press@RunDepth: 366.99 psia @ 2988.20 ft (KB) Capacity: 5000.00 psia

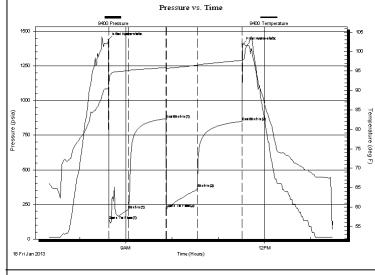
Start Date: 2013.01.18 End Date: Last Calib.: 2013.01.19 2013.01.18 Start Time: 07:20:00 End Time: 13:29:23 Time On Btm: 2013.01.18 @ 08:37:23 Time Off Btm: 2013.01.18 @ 11:31:23

TEST COMMENT: 1st Open 30 minutes Strong building blow blew bottom bucket 1 minute.

1st Shut in 45 minutes Yes blow back

2nd Open 45 minutes Strong building blow blew bottom bucket 1 minute.

2nd Shut in 60 minutes Yes blow back



	Time	Pressure	lemp	Annotation
	(Min.)	(psia)	(deg F)	
	0	1437.26	90.95	Initial Hydro-static
	1	138.47	91.95	Open To Flow (1)
	26	213.31	95.04	Shut-In(1)
4	75	866.07	95.90	End Shut-In(1)
	75	223.10	95.71	Open To Flow (2)
	116	366.99	96.48	Shut-In(2)
	174	849.71	97.74	End Shut-In(2)
,	174	1406.64	97.89	Final Hydro-static

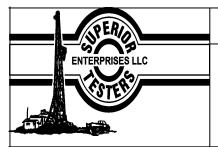
PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
490.00	Oil cut mud 95% Oil 5%Mud	6.87
490.00	Clean oil 100%	6.87
244.00	Watery mud 5% mud 95%oil	3.42
0.00	Chlorides 33,000 .4ohms	0.00

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

Superior Testers Enterprises LLC Ref. No: 17409 Printed: 2013.01.19 @ 01:58:17



RJM Company

32-17s-10w-Barton

Boys Town Unit #2

Po Box 256 Claflin Kansas

67525

Job Ticket: 17409

Tester:

Unit No:

DST#:1

ATTN: Jim Musgrove

Test Start: 2013.01.18 @ 07:20:00

GENERAL INFORMATION:

Formation: Lansing A-B-C

Deviated: Whipstock: ft (KB)

Time Tool Opened: 08:37:53

Time Test Ended: 13:29:23

Interval: 2938.00 ft (KB) To 2991.00 ft (KB) (TVD)

Total Depth: 2991.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair Hole Diameter:

Test Type: Conventional Bottom Hole (Initial)

Dustin Elis

3315-Great Bend-60

1798.00 ft (KB) Reference Elevations:

1790.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8405 Inside

Press@RunDepth: 849.81 psia @ 2987.20 ft (KB) Capacity: 5000.00 psia

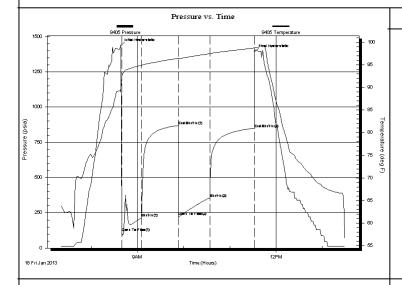
Start Date: 2013.01.18 End Date: 2013.01.18 Last Calib.: 2013.01.19 Start Time: 07:20:00 End Time: 13:30:00 Time On Btm: 2013.01.18 @ 08:38:30 Time Off Btm: 2013.01.18 @ 11:32:30

TEST COMMENT: 1st Open 30 minutes Strong building blow blew bottom bucket 1 minute.

1st Shut in 45 minutes Yes blow back

2nd Open 45 minutes Strong building blow blew bottom bucket 1 minute.

2nd Shut in 60 minutes Yes blow back



PRESSURE SUMMARY							
ne	Pressure	Temp	Annotation				

Time	Pressure	Temp	Annotation
(Min.)	(psia)	(deg F)	
0	1436.24	89.79	Initial Hydro-static
1	111.71	92.35	Open To Flow (1)
27	215.59	94.86	Shut-In(1)
75	868.47	96.45	End Shut-In(1)
75	225.83	96.35	Open To Flow (2)
116	355.44	97.45	Shut-In(2)
174	849.81	98.72	End Shut-In(2)
174	1393.29	98.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
490.00	Oil cut mud 95% Oil 5%Mud	6.87
490.00	Clean oil 100%	6.87
244.00	Watery mud 5% mud 95%oil	3.42
0.00	Chlorides 33,000 .4ohms	0.00

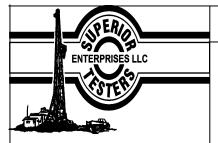
Gas Rates

Choke (inches) Pressure (psia) Gas Rate (Mc

Superior Testers Enterprises LLC

Ref. No: 17409

Printed: 2013.01.19 @ 01:58:17



TOOL DIAGRAM

RJM Company

32-17s-10w-Barton

Po Box 256 Claflin Kansas

Boys Town Unit #2

67525

Job Ticket: 17409 **DST#:1**

ATTN: Jim Musgrove

Test Start: 2013.01.18 @ 07:20:00

Tool Information

Drill Collar:

Length:

 32.00 ft
 Diameter:
 3.80 inches Volume:
 41.13 bbl

 0.00 ft
 Diameter:
 0.00 inches Volume:
 0.00 bbl

 0.00 ft
 Diameter:
 0.00 inches Volume:
 0.00 bbl

Tool Weight: 2000.00 lb
Weight set on Packer: 20000.00 lb
Weight to Pull Loose: 32000.00 lb

Printed: 2013.01.19 @ 01:58:17

Drill Pipe Above KB: 14.00 ft
Depth to Top Packer: 2938.00 ft

Total Volume: 41.13 bbl Tool Chased 0.00 ft String Weight: Initial 28000.00 lb

Depth to Bottom Packer: ft
Interval betw een Packers: 53.20 ft

Final lb

Tool Length: 73.20 ft

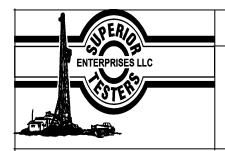
Number of Packers: 2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			2923.00		
Hydrolic Tool	5.00			2928.00		
Packer	5.00			2933.00	20.00	Bottom Of Top Packer
Packer	5.00			2938.00		
Anchor	5.00			2943.00		
Change Over Sub	0.75			2943.75		
Drill Pipe	31.70			2975.45		
Change Over Sub	0.75			2976.20		
Anchor	10.00			2986.20		
Recorder	1.00	8405	Inside	2987.20		
Recorder	1.00	8400	Outside	2988.20		
Bullnose	3.00			2991.20	53.20	Bottom Packers & Anchor

Ref. No: 17409

Total Tool Length: 73.20



FLUID SUMMARY

RJM Company

32-17s-10w-Barton

Po Box 256 Claflin Kansas

67525

Boys Town Unit #2

Job Ticket: 17409

DST#:1

ATTN: Jim Musgrove

Test Start: 2013.01.18 @ 07:20:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:8.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 52.00 sec/qt Cushion Volume: bbl

Water Loss: 8.20 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psia

Salinity: 5300.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
490.00	Oil cut mud 95% Oil 5%Mud	6.873
490.00	Clean oil 100%	6.873
244.00	Watery mud 5% mud 95%oil	3.423
0.00	Chlorides 33,000 .4ohms	0.000

Total Length: 1224.00 ft Total Volume: 17.169 bbl

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

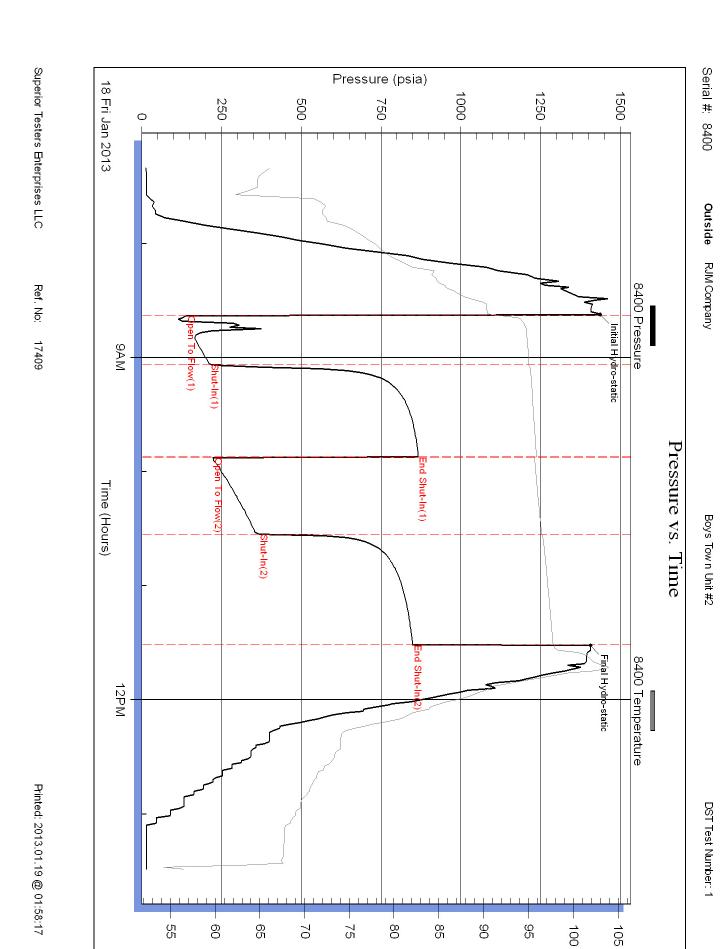
Laboratory Name: Laboratory Location:

Ref. No: 17409

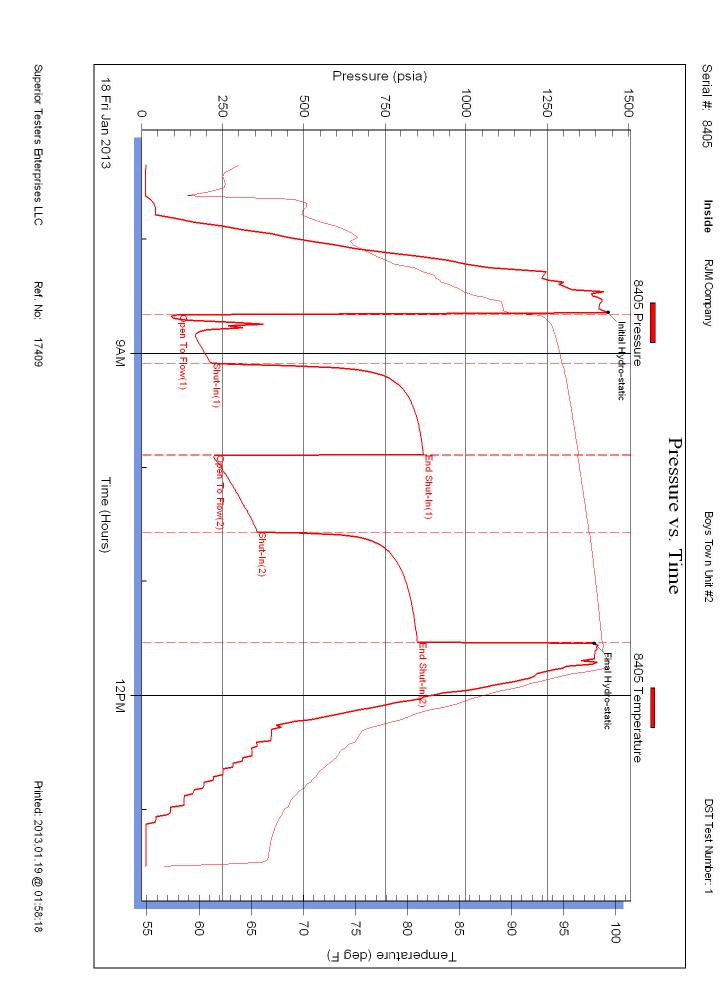
Recovery Comments:

Superior Testers Enterprises LLC

Printed: 2013.01.19 @ 01:58:17



Temperature (deg F)



RJM Company



DRILL STEM TEST REPORT

Prepared For: RJM Company

Po Box 256 Claflin Kansas 67525

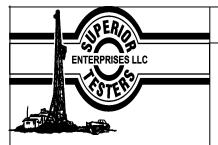
ATTN: Jim Musgrove

Boys Town Unit #2

32-17s-10w-Barton

Start Date: 2013.01.19 @ 09:50:00 End Date: 2013.01.19 @ 14:34:02 Job Ticket #: 17410 DST #: 2

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



RJM Company

32-17s-10w-Barton

Po Box 256 Claflin Kansas

67525

Job Ticket: 17410

Tester:

JOD TICKEL 17410

Reference Elevations:

Dustin Elis

Boys Town Unit #2

DST#:2

1798.00 ft (KB)

ATTN: Jim Musgrove Test Start: 2013.01.19 @ 09:50:00

GENERAL INFORMATION:

Formation: Lansing D-E-F

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 10:42:09 Time Test Ended: 14:34:02

t Ended: 14:34:02 Unit No: 3315-Great Bend-60

Interval: 2996.00 ft (KB) To 3044.00 ft (KB) (TVD)

Total Depth: 3044.00 ft (KB) (TVD) 1790.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

Press@RunDepth: 62.11 psia @ 3041.20 ft (KB) Capacity: 5000.00 psia

 Start Date:
 2013.01.19
 End Date:
 2013.01.19
 Last Calib.:
 2013.01.19

 Start Time:
 09:50:00
 End Time:
 14:34:02
 Time On Btm:
 2013.01.19 @ 10:41:09

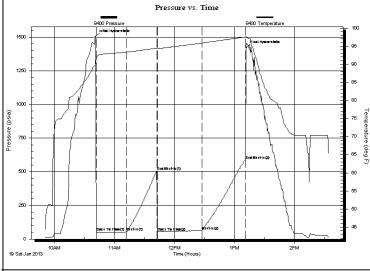
 Time Off Btm:
 2013.01.19 @ 13:11:39

TEST COMMENT: 1st Open 30 minutes Strong building blow blew bottom bucket 6 minutes.

1st Shut in 30 minutes No blow back

2nd Open 45 minutes Strong building blow blew off bottom instantly.

2nd Shut in 45 minutes No blow back



T TIESSOTIE SOIVIIVIATT					
Time	Pressure	Temp	Annotation		
(Min.)	(psia)	(deg F)			
0	1503.42	89.62	Initial Hydro-static		
1	53.98	91.65	Open To Flow (1)		
31	53.32	93.34	Shut-In(1)		
61	503.94	94.44	End Shut-In(1)		
62	54.60	94.33	Open To Flow (2)		
107	62.11	95.84	Shut-In(2)		
150	588.02	97.53	End Shut-In(2)		
151	1418.24	97.75	Final Hydro-static		
	(Min.) 0 1 31 61 62 107 150	Time (Min.) Pressure (psia) 0 1503.42 1 53.98 31 53.32 61 503.94 62 54.60 107 62.11 150 588.02	Time (Min.) Pressure (psia) Temp (deg F) 0 1503.42 89.62 1 53.98 91.65 31 53.32 93.34 61 503.94 94.44 62 54.60 94.33 107 62.11 95.84 150 588.02 97.53		

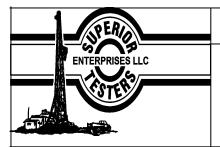
PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Oil cut mud 35% Oil 65% Mud	0.56

Gas Rat		
Choke (inches)	Pressure (neia)	Gas Bate (Mcf/d)

Superior Testers Enterprises LLC Ref. No: 17410 Printed: 2013.01.19 @ 14:42:28



RJM Company

32-17s-10w-Barton

Boys Town Unit #2

Po Box 256 Claflin Kansas

ATTN: Jim Musgrove

67525

Job Ticket: 17410

DST#:2

Dustin Elis

1798.00 ft (KB)

1790.00 ft (CF)

Test Start: 2013.01.19 @ 09:50:00

GENERAL INFORMATION:

Formation: Lansing D-E-F

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Initial) ft (KB)

Time Tool Opened: 10:42:09 Time Test Ended: 14:34:02

Total Depth:

Unit No: 3315-Great Bend-60

Interval: 2996.00 ft (KB) To 3044.00 ft (KB) (TVD) 3044.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Reference Elevations:

Serial #: 8405 Inside

Press@RunDepth: 592.98 psia @ 3040.20 ft (KB) Capacity: 5000.00 psia Start Date: 2013.01.19 End Date: Last Calib.: 2013.01.19 2013.01.19 Start Time: 09:50:22 End Time: 14:25:52 Time On Btm: 2013.01.19 @ 10:52:22

Time Off Btm:

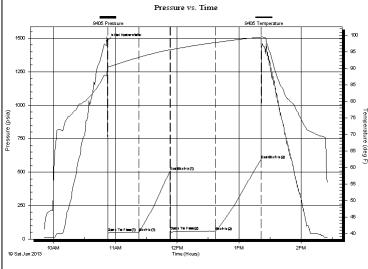
Tester:

TEST COMMENT: 1st Open 30 minutes Strong building blow blew bottom bucket 6 minutes.

1st Shut in 30 minutes No blow back

2nd Open 45 minutes Strong building blow blew off bottom instantly.

2nd Shut in 45 minutes No blow back



	PRESSURE SUMMARY					
1	Time	Pressure	Temp	Annotation		
	(Min.)	(psia)	(deg F)			
	0	1481.46	90.14	Initial Hydro-static		
	1	52.08	90.34	Open To Flow (1)		
	31	51.64	93.38	Shut-In(1)		
,	61	506.70	95.72	End Shut-In(1)		
Temperature	61	61.27	95.64	Open To Flow (2)		
et lire	105	60.22	97.89	Shut-In(2)		
neb)	149	592.98	99.54	End Shut-In(2)		
פ						

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Oil cut mud 35% Oil 65% Mud	0.56

Gas Rates			
	Choke (inches)	Proceure (neia)	Gas Rate (Mcf/d)

Superior Testers Enterprises LLC Ref. No: 17410 Printed: 2013.01.19 @ 14:42:28



TOOL DIAGRAM

RJM Company

32-17s-10w-Barton

Po Box 256 Claflin Kansas

Boys Town Unit #2

67525

Job Ticket: 17410 **DST#:2**

ATTN: Jim Musgrove

Test Start: 2013.01.19 @ 09:50:00

Tool Information

Drill Pipe: Length: 2995.00 ft Diameter: Heavy Wt. Pipe: Length: 0.00 ft Diameter: Drill Collar: Length: 0.00 ft Diameter:

3.80 inches Volume: 42.01 bbl 0.00 inches Volume: 0.00 bbl 0.00 inches Volume: 0.00 bbl

42.01 bbl

Total Volume:

Tool Weight: 2000.00 lb Weight set on Packer: 20000.00 lb Weight to Pull Loose: 34000.00 lb

Drill Pipe Above KB: 19.00 ft
Depth to Top Packer: 2996 00 ft

Tool Chased 0.00 ft
String Weight: Initial 30000.00 lb

Depth to Top Packer: 2996.00 ft
Depth to Bottom Packer: ft

Final 32000.00 lb

Printed: 2013.01.19 @ 14:42:29

Interval betw een Packers: 48.20 ft
Tool Length: 68.20 ft

Number of Packers: 68.20 ft

No Length: 68.20 ft

Number of Packers: 2 Dia

Diameter: 6.75 inches

Ref. No: 17410

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			2981.00		
Hydrolic Tool	5.00			2986.00		
Packer	5.00			2991.00	20.00	Bottom Of Top Packer
Packer	5.00			2996.00		
Anchor	5.00			3001.00		
Change Over Sub	0.75			3001.75		
Drill Pipe	31.70			3033.45		
Change Over Sub	0.75			3034.20		
Anchor	5.00			3039.20		
Recorder	1.00	8405	Inside	3040.20		
Recorder	1.00	8400	Outside	3041.20		
Bullnose	3.00			3044.20	48.20	Bottom Packers & Anchor

Total Tool Length: 68.20



FLUID SUMMARY

RJM Company

32-17s-10w-Barton

Boys Town Unit #2

Po Box 256 Claflin Kansas

67525

Job Ticket: 17410

DST#:2

6/323

JOD TICKEL 17410

Serial #:

DO:#.2

ATTN: Jim Musgrove

Test Start: 2013.01.19 @ 09:50:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:8.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 52.00 sec/qt Cushion Volume: bbl

Water Loss: 7.90 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psia

Salinity: 5200.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Oil cut mud 35% Oil 65% Mud	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Ref. No: 17410

Recovery Comments:

Superior Testers Enterprises LLC

Printed: 2013.01.19 @ 14:42:29

Outside RJM Company

DST Test Number: 2

Final Hydro-static

95

100

2PM

45

50

55

60

65

70

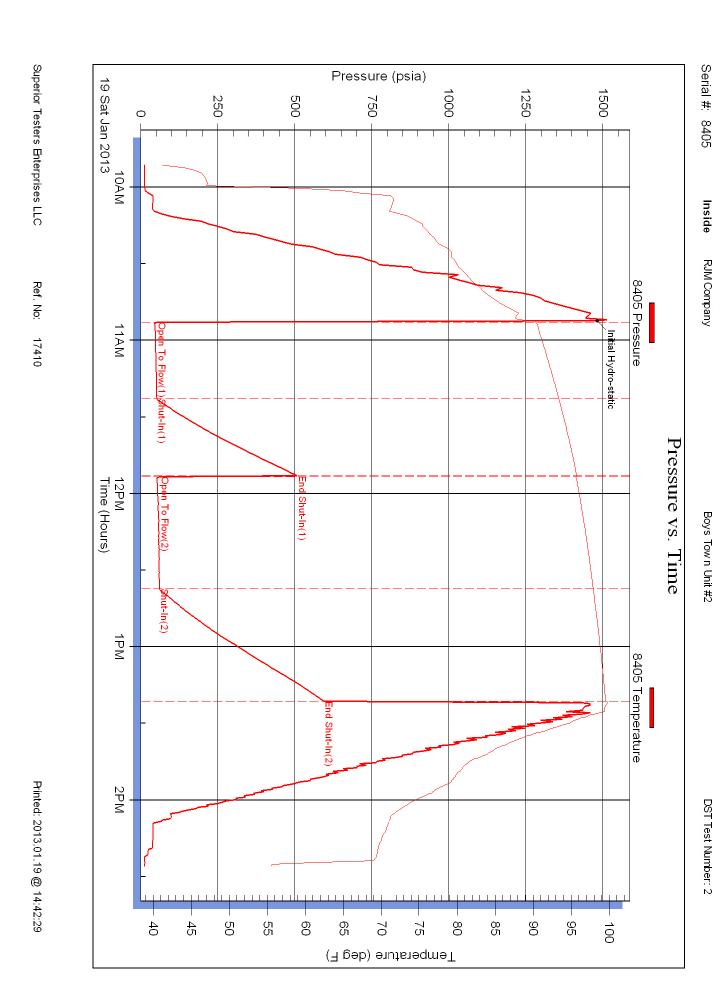
Temperature (deg F)

75

80

85

90





Prepared For: RJM Company

Po Box 256 Claflin Kansas 67525

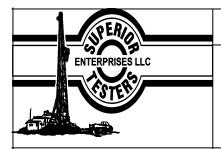
ATTN: Jim Musgrove

Boys Town Unit #2

32-17s-10w-Barton

Start Date: 2013.01.20 @ 02:40:00 End Date: 2013.01.20 @ 08:06:23 Job Ticket #: 17411 DST#: 3

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



RJM Company

32-17s-10w-Barton

Po Box 256 Claflin Kansas

67525

Boys Town Unit #2

Job Ticket: 17411

Job Ticket: 1/4

Tester:

DST#:3

ATTN: Jim Musgrove Test Start: 2013.01.20 @ 02:40:00

GENERAL INFORMATION:

Formation: Lansing I-J-K

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 03:46:23 Time Test Ended: 08:06:23

Unit No: 3315-Great Bend-60

Pressure

3111.00 ft (KB) To 3190.00 ft (KB) (TVD)

Reference Elevations: 1798.00 ft (KB)

Dustin Elis

Total Depth: 3190.00 ft (KB) (TVD)

1790.00 ft (CF) KB to GR/CF: 8.00 ft

Hole Diameter: 7.88 inches Hole Condition: Fair

Serial #: 8400

Interval:

Press@RunDepth: 118.68 psia @ ft (KB) Capacity: 5000.00 psia

Time

 Start Date:
 2013.01.20
 End Date:
 2013.01.20
 Last Calib.:
 2013.01.20

 Start Time:
 02:40:00
 End Time:
 08:06:23
 Time On Btm:
 2013.01.20 @ 03:45:23

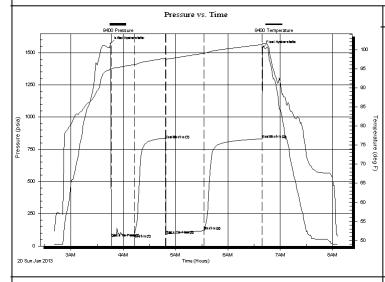
 Time Off Btm:
 2013.01.20 @ 06:39:23

TEST COMMENT: 1st Open 30 minutes Fair building blow blew 6 inches.

1st Shut in 30 minutes No blow back

2nd Open 45 minutes Blow blew bottom bucket 24 minutes.

2nd Shut in 60 minutes No blow back



	(Min.)	(psia)	(deg F)	
	0	1570.49	95.12	Initial Hydro-static
	1	67.26	94.97	Open To Flow (1)
	28	92.95	96.10	Shut-In(1)
	63	826.82	97.74	End Shut-In(1)
	64	88.14	97.51	Open To Flow (2)
	107	118.68	99.02	Shut-In(2)
	174	831.56	101.33	End Shut-In(2)
	174	1537.48	101.60	Final Hydro-static
ı			l	

PRESSURE SUMMARY

Temp

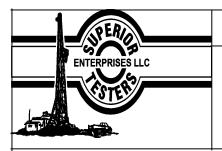
Annotation

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Oil spotted mud Mud 99%Oil 1%	1.26
	L	

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

Superior Testers Enterprises LLC Ref. No: 17411 Printed: 2013.01.20 @ 08:35:00



RJM Company

32-17s-10w-Barton

Boys Town Unit #2

Po Box 256 Claflin Kansas

ATTN: Jim Musgrove

DST#:3

67525

Job Ticket: 17411

Test Start: 2013.01.20 @ 02:40:00

GENERAL INFORMATION:

Lansing I-J-K

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Initial) ft (KB)

Time Tool Opened: 03:46:23 Time Test Ended: 08:06:23 Tester: Dustin Elis

Interval: 3111.00 ft (KB) To 3190.00 ft (KB) (TVD) Unit No: 3315-Great Bend-60

Total Depth: 3190.00 ft (KB) (TVD)

1798.00 ft (KB) Reference Elevations: 1790.00 ft (CF)

KB to GR/CF: 8.00 ft

Hole Diameter: 7.88 inches Hole Condition: Fair

Serial #: 8405

Press@RunDepth: 831.62 psia @ ft (KB) Capacity: 5000.00 psia

> Time (Min.)

Start Date: 2013.01.20 Last Calib.: 2013.01.20 End Date: 2013.01.20 02:40:00 End Time: Start Time: 08:23:30 Time On Btm: 2013.01.20 @ 04:03:00 Time Off Btm: 2013.01.20 @ 06:57:00

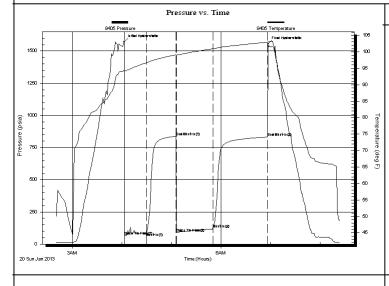
TEST COMMENT: 1st Open 30 minutes Fair building blow blew 6 inches.

1st Shut in 30 minutes No blow back

2nd Open 45 minutes Blow blew bottom bucket 24 minutes.

Ref. No: 17411

2nd Shut in 60 minutes No blow back



.)	(psia)	(deg F)	
0	1573.55	94.47	Initial Hydro-static
1	65.26	94.27	Open To Flow (1)
27	89.05	96.71	Shut-In(1)
63	837.09	99.12	End Shut-In(1)
63	90.93	98.98	Open To Flow (2)

PRESSURE SUMMARY

Pressure Temp Annotation

100.93 | Shut-In(2) 107 120.29 174 831.62 102.94 End Shut-In(2) 1556.33 103.06 Final Hydro-static 174

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Oil spotted mud Mud 99%Oil 1%	1.26

Gas Rates

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

Printed: 2013.01.20 @ 08:35:00



TOOL DIAGRAM

RJM Company

32-17s-10w-Barton

Po Box 256 Claflin Kansas

Boys Town Unit #2

67525

0.00 ft Diameter:

Diameter:

Job Ticket: 17411 DST#:3

ATTN: Jim Musgrove

Test Start: 2013.01.20 @ 02:40:00

Tool Information

Drill Collar:

Drill Pipe: Length: 3124.00 ft Diameter: Heavy Wt. Pipe: Length: 0.00 ft Diameter: 3.80 inches Volume: 43.82 bbl 0.00 bbl 0.00 inches Volume: 0.00 inches Volume: 0.00 bbl

Total Volume:

6.75 inches

Ref. No: 17411

Tool Weight: 2000.00 lb Weight set on Packer: 20000.00 lb Weight to Pull Loose: 34000.00 lb

Drill Pipe Above KB: 33.00 ft

Length:

Tool Chased 0.00 ft String Weight: Initial 30000.00 lb

Depth to Top Packer: 3111.00 ft Depth to Bottom Packer: ft Final 31000.00 lb

Printed: 2013.01.20 @ 08:35:00

Interval between Packers: 79.20 ft Tool Length:

99.20 ft

2

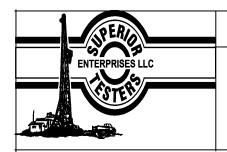
43.82 bbl

Tool Comments:

Number of Packers:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3096.00		
Hydrolic Tool	5.00			3101.00		
Packer	5.00			3106.00	20.00	Bottom Of Top Packer
Packer	5.00			3111.00		
Anchor	5.00			3116.00		
Change Over Sub	0.75			3116.75		
Drill Pipe	31.70			3148.45		
Change Over Sub	0.75			3149.20		
Anchor	36.00			3185.20		
Recorder	1.00	8405	Inside	3186.20		
Recorder	1.00	8400	Outside	3187.20		
Bullnose	3.00			3190.20	79.20	Bottom Packers & Anchor

Total Tool Length: 99.20



FLUID SUMMARY

DST#:3

RJM Company 32-17s-10w-Barton

Po Box 256 Claflin Kansas Boys Town Unit #2

67525 Job Ticket: 17411

ATTN: Jim Musgrove Test Start: 2013.01.20 @ 02:40:00

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: 47.00 sec/qt Cushion Volume: bbl

Water Loss: 9.20 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psia

Salinity: 9000.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Oil spotted mud Mud 99%Oil 1%	1.262

Total Length: 90.00 ft Total Volume: 1.262 bbl

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

Laboratory Name: Laboratory Location:

Ref. No: 17411

Recovery Comments:

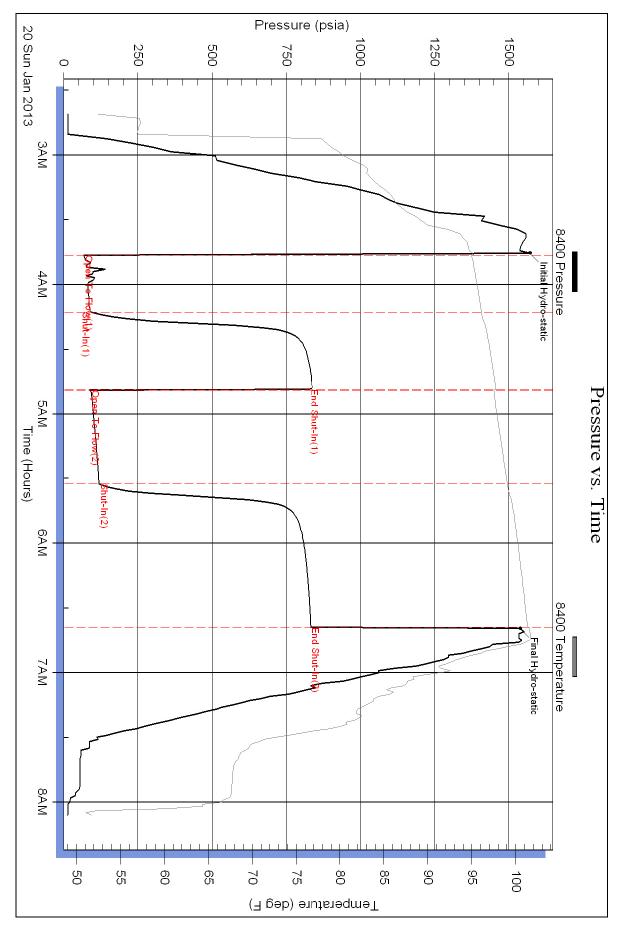
Superior Testers Enterprises LLC

Printed: 2013.01.20 @ 08:35:00

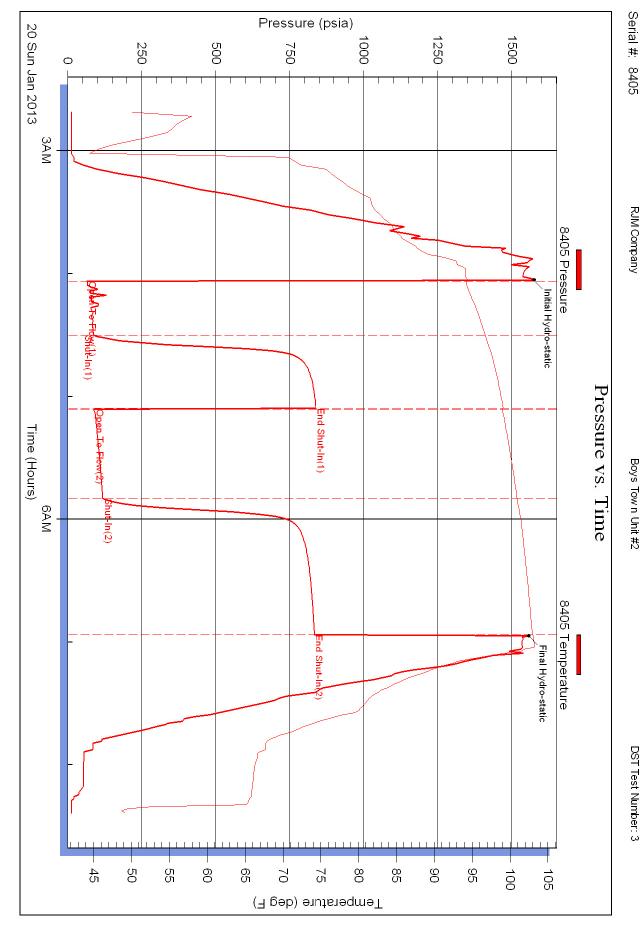
Printed: 2013.01.20 @ 08:35:01

Serial #: 8400

RJM Company



Printed: 2013.01.20 @ 08:35:01





Prepared For: RJM Company

Po Box 256 Claflin Kansas

67525

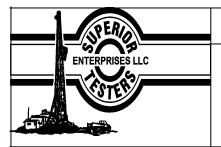
ATTN: Jim Musgrove

Boys Town Unit #2

32-17s-10w-Barton

Start Date: 2013.01.20 @ 05:30:00 End Date: 2013.01.20 @ 11:16:16 Job Ticket #: 17412 DST #: 4

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



RJM Company

32-17s-10w-Barton

Boys Town Unit #2

Po Box 256 Claflin Kansas

67525

Job Ticket: 17412

Tester:

DST#:4

ATTN: Jim Musgrove Test Start: 2013.01.20 @ 05:30:00

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 06:47:23 Time Test Ended: 11:16:16

Interval:

Unit No: 3315-Great Bend-60

Dustin Elis

3211.00 ft (KB) To 3248.00 ft (KB) (TVD)

Reference Elevations: 1798.00 ft (KB)

Total Depth: 3248.00 ft (KB) (TVD)

1790.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8400 Outside

 Press@RunDepth:
 60.98 psia
 @ 3245.00 ft (KB)
 Capacity:
 5000.00 psia

 Start Date:
 2013.01.20
 End Date:
 2013.01.20
 Last Calib.:
 2013.01.20

 Start Date:
 2013.01.20
 End Date:
 2013.01.20
 Last Calib.:
 2013.01.20

 Start Time:
 05:30:00
 End Time:
 11:16:16
 Time On Btm:
 2013.01.20 @ 06:46:23

Time Off Btm: 2013.01.20 @ 09:51:53

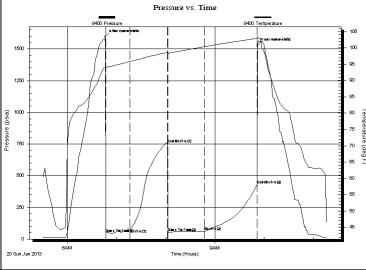
DDECCLIDE CLIMMADV

TEST COMMENT: 1st Open 30 minutes Fair building blow blew bottom bucket 18 minutes.

1st Shut in 45 minutes No blow back

2nd Open 45 minutes Fair building blow blew 10 inches .

2nd Shut in 60 minutes No blow back.



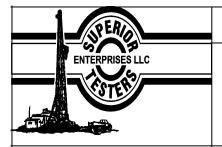
PRESSURE SUMMARY								
Ī	Time	Pressure	Temp	Annotation				
	(Min.)	(psia)	(deg F)					
	0	1597.93	94.07	Initial Hydro-static				
	1	47.26	93.98	Open To Flow (1)				
	30	76.71	95.79	Shut-ln(1)				
_	76	753.44	98.62	End Shut-In(1)				
Temperature (deg F)	77	53.35	98.40	Open To Flow (2)				
rature	121	60.98	100.40	Shut-In(2)				
(deq	185	430.51	102.95	End Shut-In(2)				
J	186	1528.99	103.61	Final Hydro-static				

Recovery

Length (ft)	Description	Volume (bbl)
55.00	Oil cut mud 60%Mud 40%Oil	0.77

Gas Rates				
Choke (inches)	Proceure (neia)	Gas Rate (Mcf/d)		

Superior Testers Enterprises LLC Ref. No: 17412 Printed: 2013.01.20 @ 23:27:02



RJM Company

32-17s-10w-Barton

Boys Town Unit #2

Reference Elevations:

Po Box 256 Claflin Kansas

ATTN: Jim Musgrove

67525

Job Ticket: 17412

Tester:

DST#:4

Test Start: 2013.01.20 @ 05:30:00

Dustin Elis

1798.00 ft (KB)

1790.00 ft (CF)

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: Test Type: Conventional Bottom Hole (Initial) No Whipstock: ft (KB)

Time Tool Opened: 06:47:23 Time Test Ended: 11:16:16

Unit No: 3315-Great Bend-60

Interval: 3211.00 ft (KB) To 3248.00 ft (KB) (TVD) Total Depth: 3248.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8405 Inside

Press@RunDepth: 429.02 psia @ 3244.00 ft (KB) Capacity: 5000.00 psia

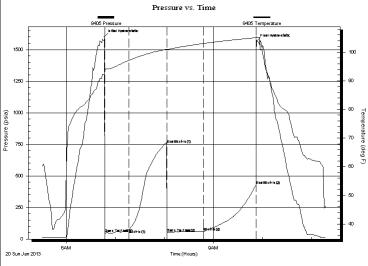
Start Date: 2013.01.20 End Date: Last Calib.: 2013.01.20 2013.01.20 Start Time: 05:30:00 End Time: 11:17:30 Time On Btm: 2013.01.20 @ 06:47:00 Time Off Btm: 2013.01.20 @ 09:53:00

TEST COMMENT: 1st Open 30 minutes Fair building blow blew bottom bucket 18 minutes.

1st Shut in 45 minutes No blow back

2nd Open 45 minutes Fair building blow blew 10 inches .

2nd Shut in 60 minutes No blow back.



4				
	Time	Pressure	Temp	Annotation
	(Min.)	(psia)	(deg F)	
	0	1603.00	92.47	Initial Hydro-static
	1	45.74	93.56	Open To Flow (1)
	30	75.60	97.17	Shut-In(1)
_	76	754.75	101.04	End Shut-In(1)
Temperature	77	52.04	100.94	Open To Flow (2)
rature	122	60.24	103.04	Shut-In(2)
fdea	185	429.02	105.04	End Shut-In(2)
פ	186	1566.64	105.25	Final Hydro-static
				,

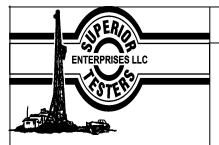
PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
55.00	Oil cut mud 60%Mud 40%Oil	0.77

Gas Rates				
Choke (inches)	Pressure (nois)	Gas Rate (Mcf/d)		

Superior Testers Enterprises LLC Ref. No: 17412 Printed: 2013.01.20 @ 23:27:02



TOOL DIAGRAM

RJM Company

32-17s-10w-Barton

Po Box 256 Claflin Kansas

Job Ticket: 17412

DST#:4

67525

OOD HOROL 17412

Boys Town Unit #2

ATTN: Jim Musgrove

Test Start: 2013.01.20 @ 05:30:00

Tool Information

Drill Collar:

Drill Pipe: Length: 3211.00 ft Diameter: Heavy Wt. Pipe: Length: 0.00 ft Diameter:

 1.00 ft
 Diameter:
 3.80 inches Volume:
 45.04 bbl

 0.00 ft
 Diameter:
 0.00 inches Volume:
 0.00 bbl

 0.00 ft
 Diameter:
 0.00 inches Volume:
 0.00 bbl

Total Volume:

45.04 bbl

Tool Weight: 2000.00 lb Weight set on Packer: 20000.00 lb Weight to Bull Logac: 22000.00 lb

Drill Pipe Above KB: 20.00 ft

Length:

Weight to Pull Loose: 33000.00 lb Tool Chased 0.00 ft

Depth to Top Packer: 3211.00 ft
Depth to Bottom Packer: ft

String Weight: Initial 31000.00 lb

Printed: 2013.01.20 @ 23:27:02

Interval between Packers: 37.00 ft

Final 32000.00 lb

Tool Length: 57.00 ft
Number of Packers: 2

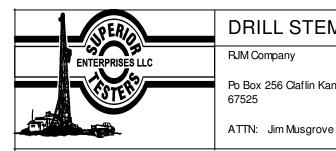
2 Diameter: 6.75 inches

Ref. No: 17412

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3196.00		
Hydrolic Tool	5.00			3201.00		
Packer	5.00			3206.00	20.00	Bottom Of Top Packer
Packer	5.00			3211.00		
Anchor	32.00			3243.00		
Recorder	1.00	8405	Inside	3244.00		
Recorder	1.00	8400	Outside	3245.00		
Bullnose	3.00			3248.00	37.00	Bottom Packers & Anchor

Total Tool Length: 57.00



FLUID SUMMARY

RJM Company

32-17s-10w-Barton

Po Box 256 Claflin Kansas

Boys Town Unit #2 Job Ticket: 17412

Serial #:

67525

DST#:4

Test Start: 2013.01.20 @ 05:30:00

Mud and Cushion Information

Cushion Type: Mud Type: Gel Chem Oil API: deg API Water Salinity: ppm

Mud Weight: Cushion Length: 9.00 lb/gal ft bbl

Viscosity: 44.00 sec/qt Cushion Volume:

Water Loss: 9.60 in³ Gas Cushion Type:

Resistivity: Gas Cushion Pressure: ohm.m psia

Salinity: 8000.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	Oil cut mud 60%Mud 40%Oil	0.772

Total Length: 55.00 ft Total Volume: 0.772 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

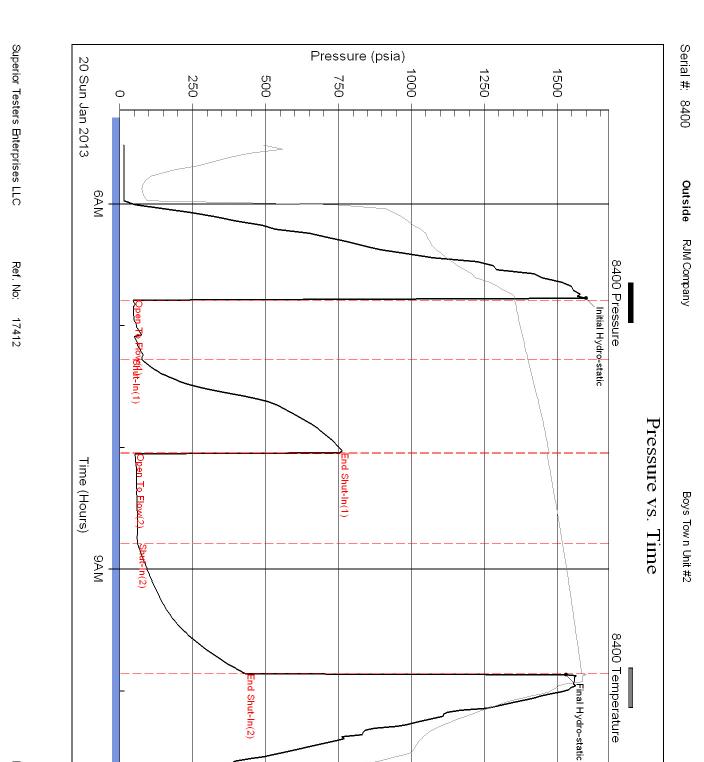
Laboratory Name: Laboratory Location:

Ref. No: 17412

Recovery Comments:

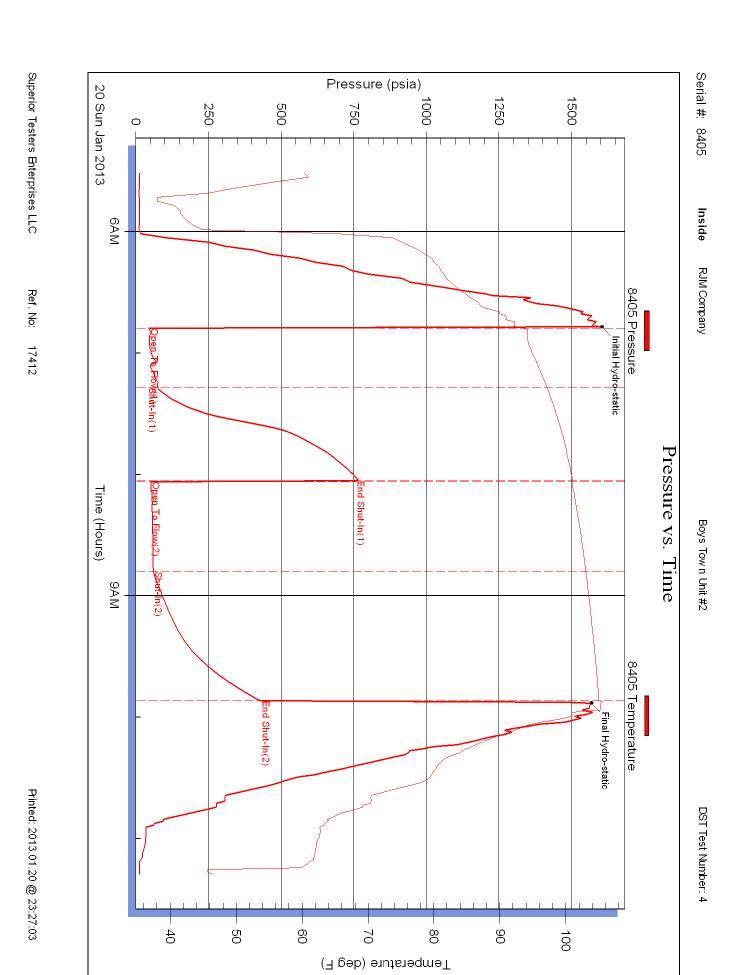
Superior Testers Enterprises LLC

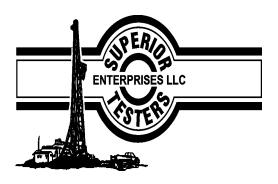
Printed: 2013.01.20 @ 23:27:02



DST Test Number: 4

Temperature (deg F)





Prepared For: RJM Company

Po Box 256 Claflin Kansas

67525

ATTN: Jim Musgrove

Boys Town Unit #2

32-17s-10w-Barton

Start Date: 2013.01.21 @ 07:40:00 End Date: 2013.01.21 @ 13:10:30 Job Ticket #: 17413 DST #: 5

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



RJM Company

32-17s-10w-Barton

Po Box 256 Claflin Kansas

67525

Job Ticket: 17413

Boys Town Unit #2

DST#:5

ATTN: Jim Musgrove

Test Start: 2013.01.21 @ 07:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:02:00 Time Test Ended: 13:10:30

Tester: Dustin Elis

Unit No: 3315-Great Bend-60

1798.00 ft (KB) Reference Elevations: 1790.00 ft (CF)

> KB to GR/CF: 8.00 ft

Test Type: Conventional Bottom Hole (Initial)

3211.00 ft (KB) To 3251.00 ft (KB) (TVD) Interval: Total Depth: 3251.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair Hole Diameter:

Serial #: 8400 Press@RunDepth: Outside

355.72 psia @

3248.00 ft (KB)

2013.01.21

Capacity: Last Calib.: 5000.00 psia

2013.01.21

Start Date: 2013.01.21 07:40:00 Start Time:

End Date: End Time:

13:10:30 Time On Btm:

2013.01.21 @ 09:01:00

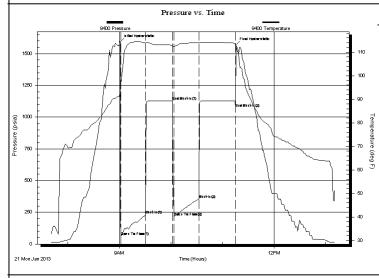
Time Off Btm: 2013.01.21 @ 11:15:30

TEST COMMENT: 1st Open 30 minutes Strong building blow blew bottom bucket 4 minutes.

1st Shut in 30 minutes No blow back.

2nd Open 30 minutes Strong building blow blew bottom bucket 8 minutes.

2nd Shut in 45 minutes No blow back.



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psia)	(deg F)	
0	1592.74	92.48	Initial Hydro-static
1	62.36	96.11	Open To Flow (1)
30	230.54	113.82	Shut-In(1)
61	1128.99	112.94	End Shut-In(1)
63	217.60	112.41	Open To Flow (2)
92	355.72	113.93	Shut-In(2)
134	1072.44	113.77	End Shut-In(2)
135	1569.69	112.62	Final Hydro-static

Recovery

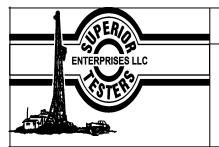
Length (ft)	Description	Volume (bbl)
340.00	Gassy oil cut mud	4.77
0.00	Gas 40% Oil 25% Mud 35%	0.00
170.00	Gassy oil cut muddy water	2.38
0.00	Gas 5% Oil 45% Mud 45% Water 5%	0.00
170.00	Gassy oil cut muddy water	2.38
0.00	Gas 10% Oil 40% Mud 20% Water 30%	0.00

Gas Rates

Superior Testers Enterprises LLC

Ref. No: 17413

Printed: 2013.01.21 @ 13:38:19



RJM Company

32-17s-10w-Barton

Boys Town Unit #2

Po Box 256 Claflin Kansas

Job Ticket: 17413

67525

DST#:5

ATTN: Jim Musgrove

Test Start: 2013.01.21 @ 07:40:00

Dustin Elis

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: Test Type: Conventional Bottom Hole (Initial) No Whipstock: ft (KB)

Time Tool Opened: 09:02:00 Time Test Ended: 13:10:30

Tester: Unit No: 3315-Great Bend-60

Interval: 3211.00 ft (KB) To 3251.00 ft (KB) (TVD)

1798.00 ft (KB) Reference Elevations:

Total Depth: 3251.00 ft (KB) (TVD) 1790.00 ft (CF)

7.88 inches Hole Condition: Fair Hole Diameter:

KB to GR/CF: 8.00 ft

Serial #: 8405 Inside

Press@RunDepth: 1129.37 psia @ 3247.00 ft (KB)

Capacity: Last Calib.: 5000.00 psia

2013.01.21

Start Date: 2013.01.21 07:40:00 Start Time:

End Date: 2013.01.21 End Time: 16:24:53

Time On Btm:

2013.01.21 @ 09:01:30

Time Off Btm:

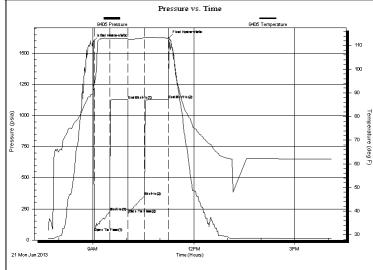
2013.01.21 @ 11:15:30

TEST COMMENT: 1st Open 30 minutes Strong building blow blew bottom bucket 4 minutes.

1st Shut in 30 minutes No blow back.

2nd Open 30 minutes Strong building blow blew bottom bucket 8 minutes.

2nd Shut in 45 minutes No blow back.



PRESSURE SUMMARY

1	Time	Pressure	Temp	Annotation
	(Min.)	(psia)	(deg F)	
	0	1595.39	92.74	Initial Hydro-static
	1	63.12	93.45	Open To Flow (1)
	29	228.47	112.84	Shut-In(1)
,	61	1127.55	112.94	End Shut-In(1)
	62	213.66	112.74	Open To Flow (2)
	91	354.24	113.25	Shut-In(2)
	133	1129.37	113.11	End Shut-In(2)
,	134	1626.54	113.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
340.00	Gassy oil cut mud	4.77
0.00	Gas 40% Oil 25% Mud 35%	0.00
170.00	Gassy oil cut muddy water	2.38
0.00	Gas 5% Oil 45% Mud 45% Water 5%	0.00
170.00	Gassy oil cut muddy water	2.38
0.00	Gas 10% Oil 40% Mud 20% Water 30%	0.00

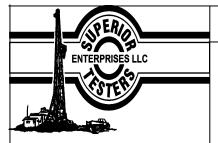
Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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Superior Testers Enterprises LLC

Ref. No: 17413

Printed: 2013.01.21 @ 13:38:19



TOOL DIAGRAM

RJM Company

32-17s-10w-Barton

Po Box 256 Claflin Kansas

Boys Town Unit #2

67525

Job Ticket: 17413 DST#:5

ATTN: Jim Musgrove

Test Start: 2013.01.21 @ 07:40:00

Tool Information

Drill Pipe: Length: 3213.00 ft Diameter: Heavy Wt. Pipe: Length: 0.00 ft Diameter: Drill Collar: Length: 0.00 ft Diameter: 3.80 inches Volume: 45.07 bbl 0.00 inches Volume: 0.00 bbl 0.00 inches Volume: 0.00 bbl

45.07 bbl

Total Volume:

Tool Weight: 2000.00 lb Weight set on Packer: 20000.00 lb Weight to Pull Loose: 34000.00 lb

Drill Pipe Above KB: 22.00 ft Tool Chased 0.00 ft String Weight: Initial 33000.00 lb

Depth to Top Packer: 3211.00 ft Depth to Bottom Packer: ft Final 34000.00 lb

Printed: 2013.01.21 @ 13:38:20

Interval between Packers: 40.00 ft 60.00 ft Tool Length:

Number of Packers: 2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3196.00		
Hydrolic Tool	5.00			3201.00		
Packer	5.00			3206.00	20.00	Bottom Of Top Packer
Packer	5.00			3211.00		
Anchor	35.00			3246.00		
Recorder	1.00	8405	Inside	3247.00		
Recorder	1.00	8400	Outside	3248.00		
Bullnose	3.00			3251.00	40.00	Bottom Packers & Anchor

Total Tool Length: 60.00

Ref. No: 17413



FLUID SUMMARY

DST#:5

RJM Company 32-17s-10w-Barton

Po Box 256 Claflin Kansas Boys Town Unit #2

67525 Job Ticket: 17413

ATTN: Jim Musgrove Test Start: 2013.01.21 @ 07:40:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 48.00 sec/qt Cushion Volume: bbl

Water Loss: 8.80 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psia

Salinity: 6800.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
340.00	Gassy oil cut mud	4.769
0.00	Gas 40% Oil 25% Mud 35%	0.000
170.00	Gassy oil cut muddy w ater	2.385
0.00	Gas 5% Oil 45% Mud 45% Water 5%	0.000
170.00	Gassy oil cut muddy w ater	2.385
0.00	Gas 10% Oil 40% Mud 20% Water 30%	0.000

Total Length: 680.00 ft Total Volume: 9.539 bbl

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

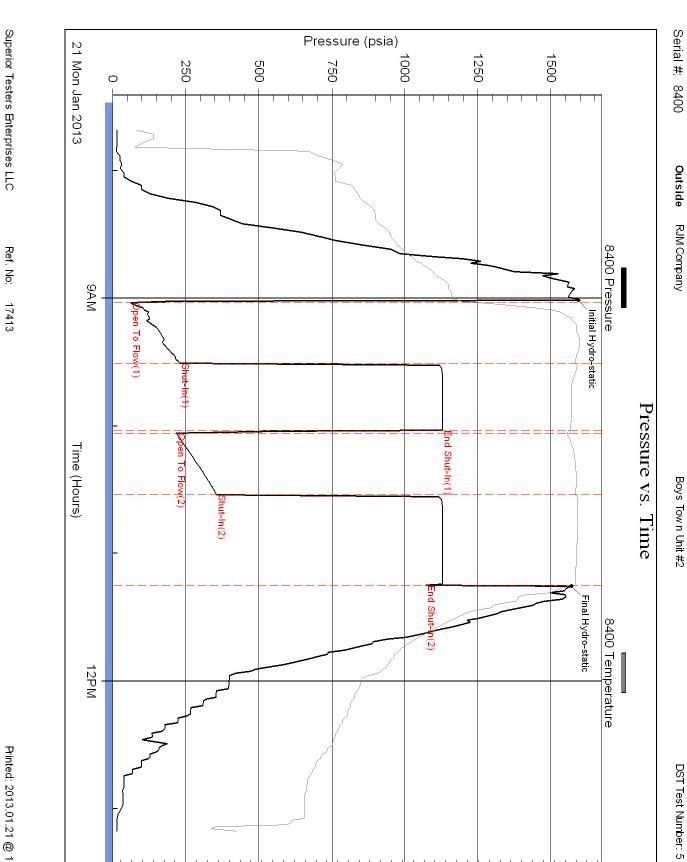
Laboratory Name: Laboratory Location:

Ref. No: 17413

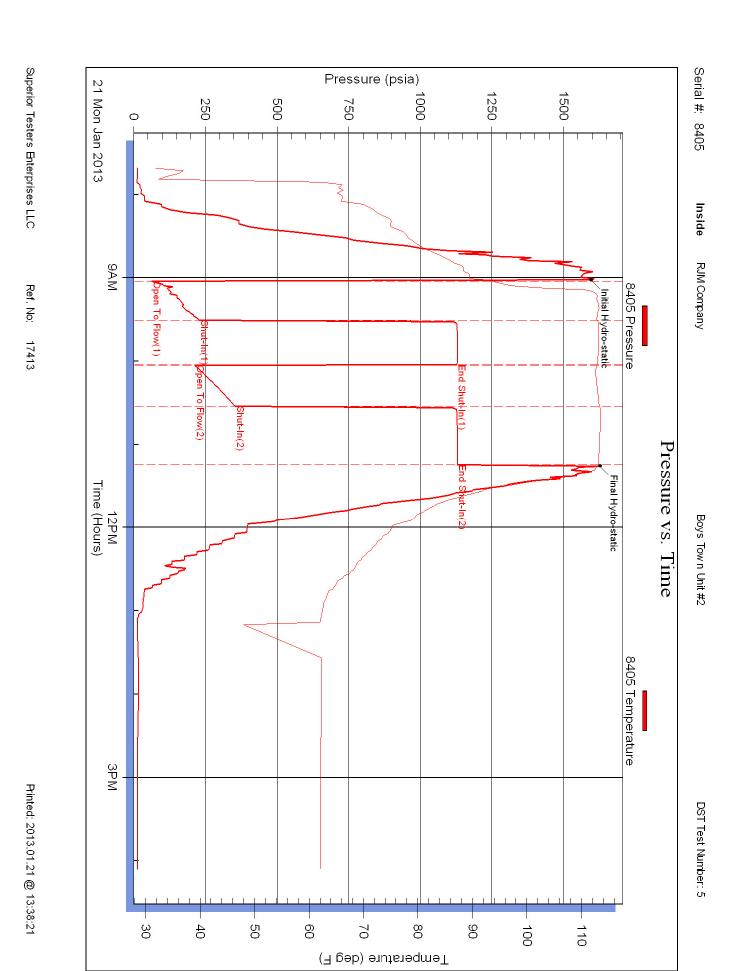
Recovery Comments:

Superior Testers Enterprises LLC

Printed: 2013.01.21 @ 13:38:20



Temperature (deg F)



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. 6363

Date 1-15-13 Sec. 32	Twp. 17	Range	1- 1	County 15 Kerth	State 45	On Location	11. 45 PM	
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Lease Boys town unit Well No. 2 Contractor Southwind 2			Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish					
Type Job Set Pace	ID" to not	ido arti la ro	FEMOT	cementer and helper to assist owner or contractor to do work as listed.				
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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 ced at a rate of 18 percent per annum until paid. Notwith-standing 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.
- 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 constructed 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			30x 32 Russell, KS 67665 No. 6064
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Contractor Southwir	1 #2	xsm ēd i∃Moti	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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Tbg. Size	Depth		City State
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- (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 sele 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 selviced 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.
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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/

Sam Brownback, Governor

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

March 22, 2013

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

Re: ACO1 API 15-053-21280-00-00 Boys Town Unit 2 NW/4 Sec.32-17S-10W Ellsworth 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