



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1120836
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1120836

Operator Name: _____ Lease Name: _____ Well #: _____

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

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

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

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Barline Oil, LLC
Well Name	Ratliff/Wangerin Unit 1-17
Doc ID	1120836

Tops

Name	Top	Datum
Anhy	1418	+565
Chase	1806	+177
Topeka	2855	-872
Heebner	3076	-1093
Lansing	3122	-1139
BKC	3392	-1409
Marmaton	3443	-1460
Cherokee Sh	3563	-1580
Mississippi Chert	3700	-1717
Viola Dolomite	3741	-1758
Simpson Sh	3854	-1871
Arbuckle	3896	-1913
LTD	3946	-1963



DRILL STEM TEST REPORT

Prepared For: **Barline Oil L.L.C**

7804 E Funston Ste 209 Wichita KS 67207

ATTN: Bill Ree

Ratliff/Wangerlin#1

17-2s-15w Smith

Start Date: 2013.01.06 @ 12:20:00

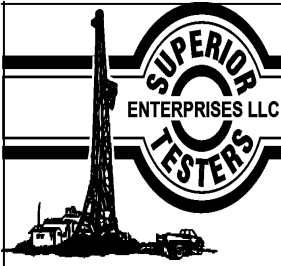
End Date: 2013.01.06 @ 18:20:30

Job Ticket #: 16995 DST #: 1

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

Printed: 2013.01.06 @ 18:38:42

Barline Oil L.L.C
17-2s-15w Smith
Ratliff/Wangerlin#1
DST # 1
Toronto Lansing A z
2013.01.06



DRILL STEM TEST REPORT

Barline Oil L.L.C
 7804 E Funston Ste 209 Wichita KS 67207
 ATTN: Bill Ree

17-2s-15w Smith
Ratliff/Wangerlin#1
 Job Ticket: 16995 **DST#: 1**
 Test Start: 2013.01.06 @ 12:20:00

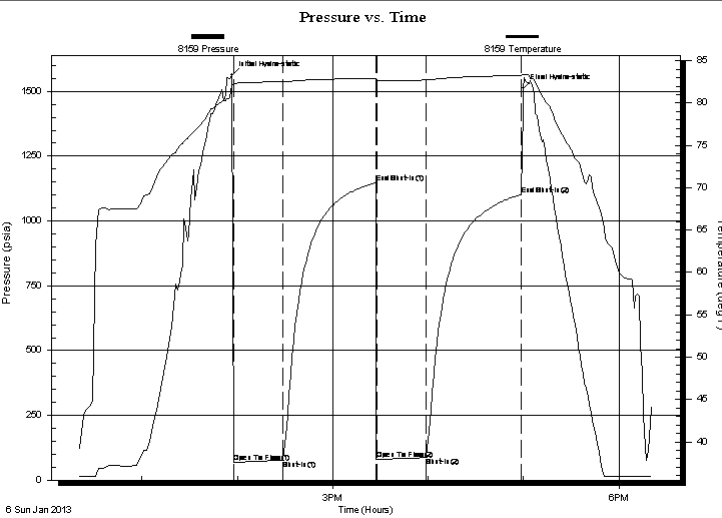
GENERAL INFORMATION:

Formation: **Teronto Lansing A z**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:57:30
 Time Test Ended: 18:20:30
 Interval: **3070.00 ft (KB) To 3155.00 ft (KB) (TVD)**
 Total Depth: 3155.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-270
 Reference Elevations: 1983.00 ft (KB)
 1970.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8159

Press@RunDepth: 86.95 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.01.06 End Date: 2013.01.06 Last Calib.: 2013.01.06
 Start Time: 12:20:00 End Time: 18:20:30 Time On Btm: 2013.01.06 @ 13:56:30
 Time Off Btm: 2013.01.06 @ 17:00:00

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 1 inch into water in 30 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 30 Minutes-Very weak surface blow built 1/4 inch into water in 30 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

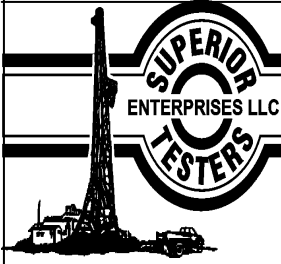
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1562.32	82.02	Initial Hydro-static
1	67.57	82.22	Open To Flow (1)
32	77.89	82.50	Shut-In(1)
91	1147.57	82.90	End Shut-In(1)
92	78.77	82.67	Open To Flow (2)
122	86.95	82.71	Shut-In(2)
182	1102.26	83.28	End Shut-In(2)
184	1512.03	83.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud	0.05

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Barline Oil L.L.C

17-2s-15w Smith

7804 E Funston Ste 209 Wichita KS 67207

Ratliff/Wangerlin#1

Job Ticket: 16995

DST#: 1

ATTN: Bill Ree

Test Start: 2013.01.06 @ 12:20:00

Tool Information

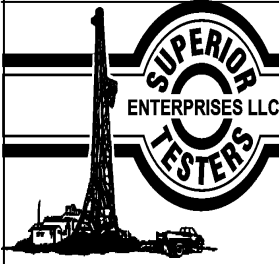
Drill Pipe:	Length: 2940.00 ft	Diameter: 3.80 inches	Volume: 41.24 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 41.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3070.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	105.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3055.00	
Hydraulic Tool	5.00			3060.00	
Packer	5.00			3065.00	20.00 Bottom Of Top Packer
Packer	5.00			3070.00	
Anchor	4.00			3074.00	
Change Over Sub	0.75			3074.75	
Drill Pipe	63.50			3138.25	
Change Over Sub	0.75			3139.00	
Anchor	11.00			3150.00	
Recorder	1.00	6731	Inside	3151.00	
Recorder	1.00	8159	Outside	3152.00	
Bullnose	3.00			3155.00	85.00 Bottom Packers & Anchor

Total Tool Length: 105.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Barline Oil L.L.C

17-2s-15w Smith

7804 E Funston Ste 209 Wichita KS 67207

Ratliff/Wangerlin#1

Job Ticket: 16995

DST#: 1

ATTN: Bill Ree

Test Start: 2013.01.06 @ 12:20:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

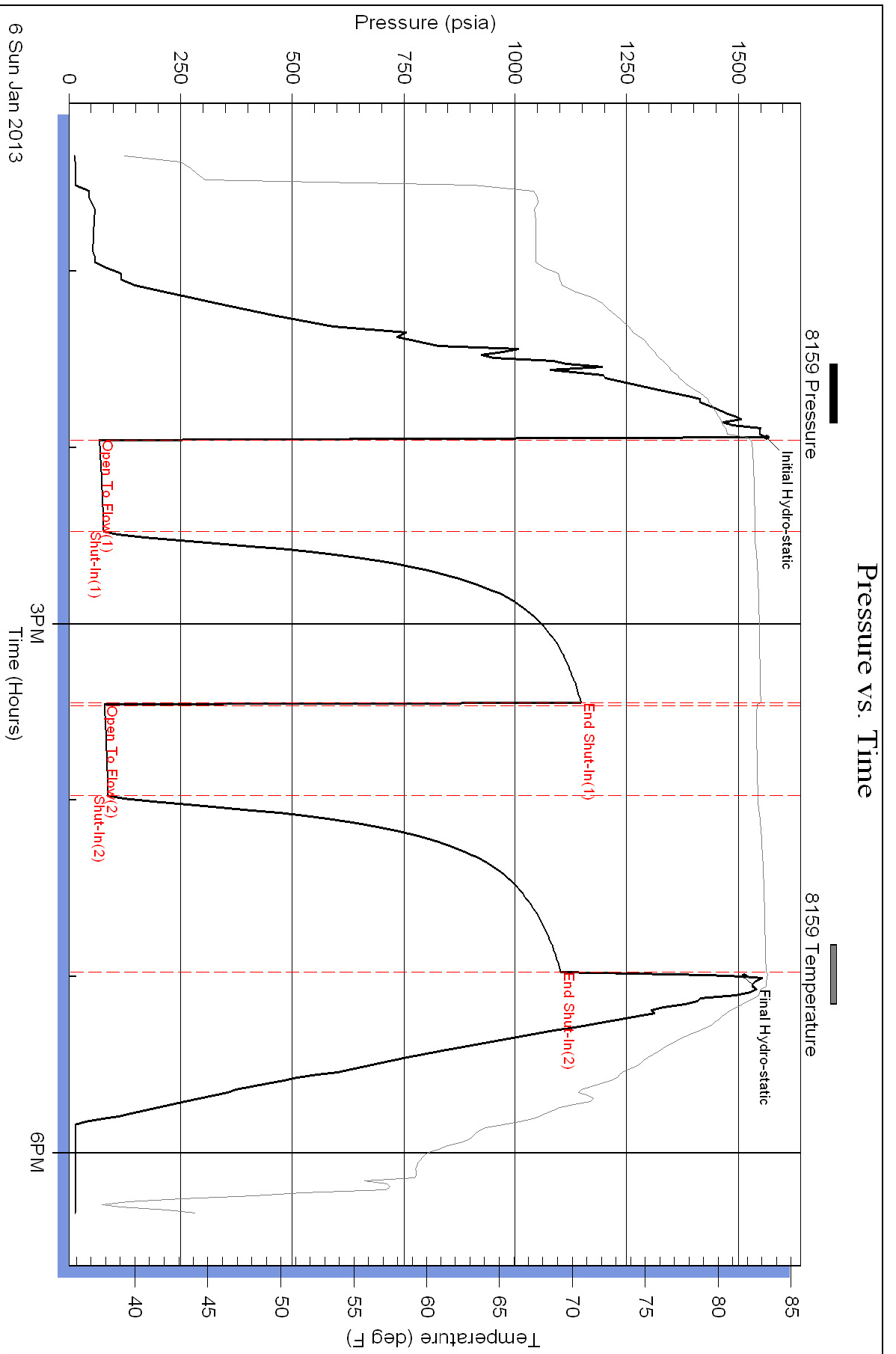
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Barline Oil L.L.C**

7804 E Funston Ste 209 Wichita KS 67207

ATTN: Bill Ree

Ratliff/Wangerlin#1

17-2s-15w Smith

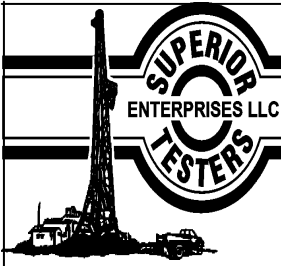
Start Date: 2013.01.07 @ 02:35:00

End Date: 2013.01.07 @ 09:25:30

Job Ticket #: 16996 DST #: 2

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

Printed: 2013.01.07 @ 09:38:48



DRILL STEM TEST REPORT

Barline Oil L.L.C

17-2s-15w Smith

7804 E Funston Ste 209 Wichita KS 67207

Ratliff/Wangerlin#1

Job Ticket: 16996

DST#: 2

ATTN: Bill Ree

Test Start: 2013.01.07 @ 02:35:00

GENERAL INFORMATION:

Formation: **Lansing BC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:15:30

Time Test Ended: 09:25:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-270

Interval: 3153.00 ft (KB) To 3205.00 ft (KB) (TVD)

Reference Elevations: 1983.00 ft (KB)

Total Depth: 3205.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8159

Press@RunDepth: 54.19 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.01.07 End Date: 2013.01.07

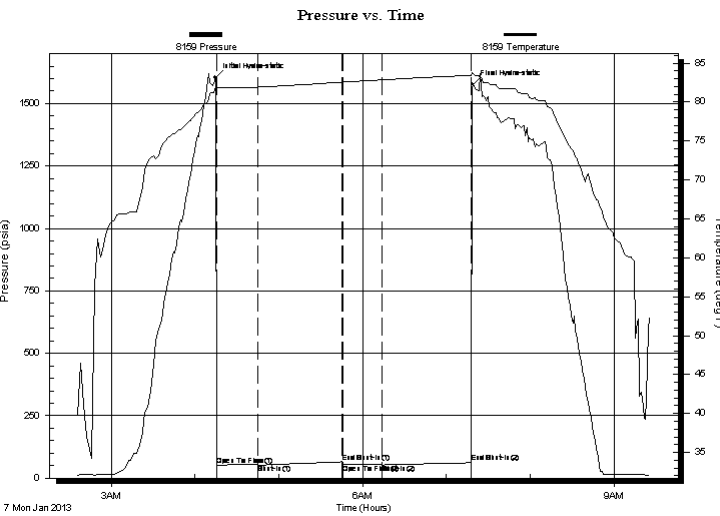
Last Calib.: 2013.01.07

Start Time: 02:35:00 End Time: 09:25:30

Time On Btm: 2013.01.07 @ 04:14:30

Time Off Btm: 2013.01.07 @ 07:19:00

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 1 inch into bucket w water in 30 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 30 Minutes-Weak surface blow did not build
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

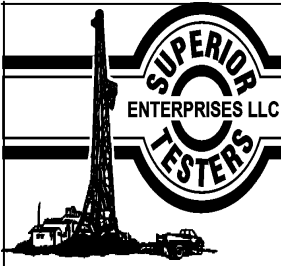
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1604.17	82.01	Initial Hydro-static
1	52.29	81.79	Open To Flow (1)
30	53.49	81.92	Shut-In(1)
91	65.20	82.56	End Shut-In(1)
92	53.59	82.57	Open To Flow (2)
120	54.19	82.86	Shut-In(2)
184	61.99	83.44	End Shut-In(2)
185	1577.30	83.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.02

Gas Rates

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



DRILL STEM TEST REPORT

Barline Oil L.L.C

17-2s-15w Smith

7804 E Funston Ste 209 Wichita KS 67207

Ratliff/Wangerlin#1

Job Ticket: 16996

DST#: 2

ATTN: Bill Ree

Test Start: 2013.01.07 @ 02:35:00

GENERAL INFORMATION:

Formation: **Lansing BC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:15:30

Time Test Ended: 09:25:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-270

Interval: 3153.00 ft (KB) To 3205.00 ft (KB) (TVD)

Reference Elevations: 1983.00 ft (KB)

Total Depth: 3205.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8525

Press@RunDepth: 69.75 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.01.07 End Date: 2013.01.07

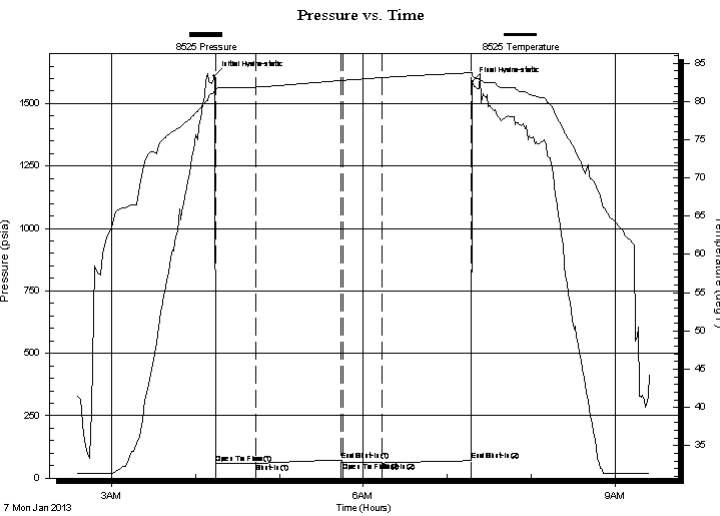
Last Calib.: 2013.01.07

Start Time: 02:35:00 End Time: 09:24:30

Time On Btm: 2013.01.07 @ 04:13:30

Time Off Btm: 2013.01.07 @ 07:18:00

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 1 inch into bucket w water in 30 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 30 Minutes-Weak surface blow did not build
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1611.40	81.35	Initial Hydro-static
1	59.87	81.67	Open To Flow (1)
30	61.10	81.88	Shut-In(1)
91	73.16	82.73	End Shut-In(1)
92	61.52	82.74	Open To Flow (2)
120	62.30	83.10	Shut-In(2)
184	69.75	83.74	End Shut-In(2)
185	1586.37	83.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.02

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Barline Oil L.L.C

17-2s-15w Smith

7804 E Funston Ste 209 Wichita KS 67207

Ratliff/Wangerlin#1

Job Ticket: 16996

DST#:2

ATTN: Bill Ree

Test Start: 2013.01.07 @ 02:35:00

Tool Information

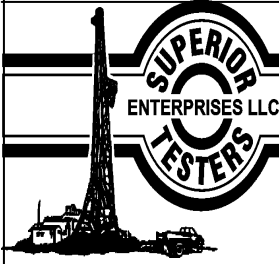
Drill Pipe:	Length: 3041.00 ft	Diameter: 3.80 inches	Volume: 42.66 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 43.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3153.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Ruined packer

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3138.00	
Hydraulic Tool	5.00			3143.00	
Packer	5.00			3148.00	20.00 Bottom Of Top Packer
Packer	5.00			3153.00	
Anchor	3.00			3156.00	
Change Over Sub	0.75			3156.75	
Drill Pipe	31.50			3188.25	
Change Over Sub	0.75			3189.00	
Anchor	11.00			3200.00	
Recorder	1.00	8525	Inside	3201.00	
Recorder	1.00	8159	Outside	3202.00	
Bullnose	3.00			3205.00	52.00 Bottom Packers & Anchor

Total Tool Length: 72.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Barline Oil L.L.C

17-2s-15w Smith

7804 E Funston Ste 209 Wichita KS 67207

Ratliff/Wangerlin#1

Job Ticket: 16996

DST#:2

ATTN: Bill Ree

Test Start: 2013.01.07 @ 02:35:00

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: 52.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: 400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

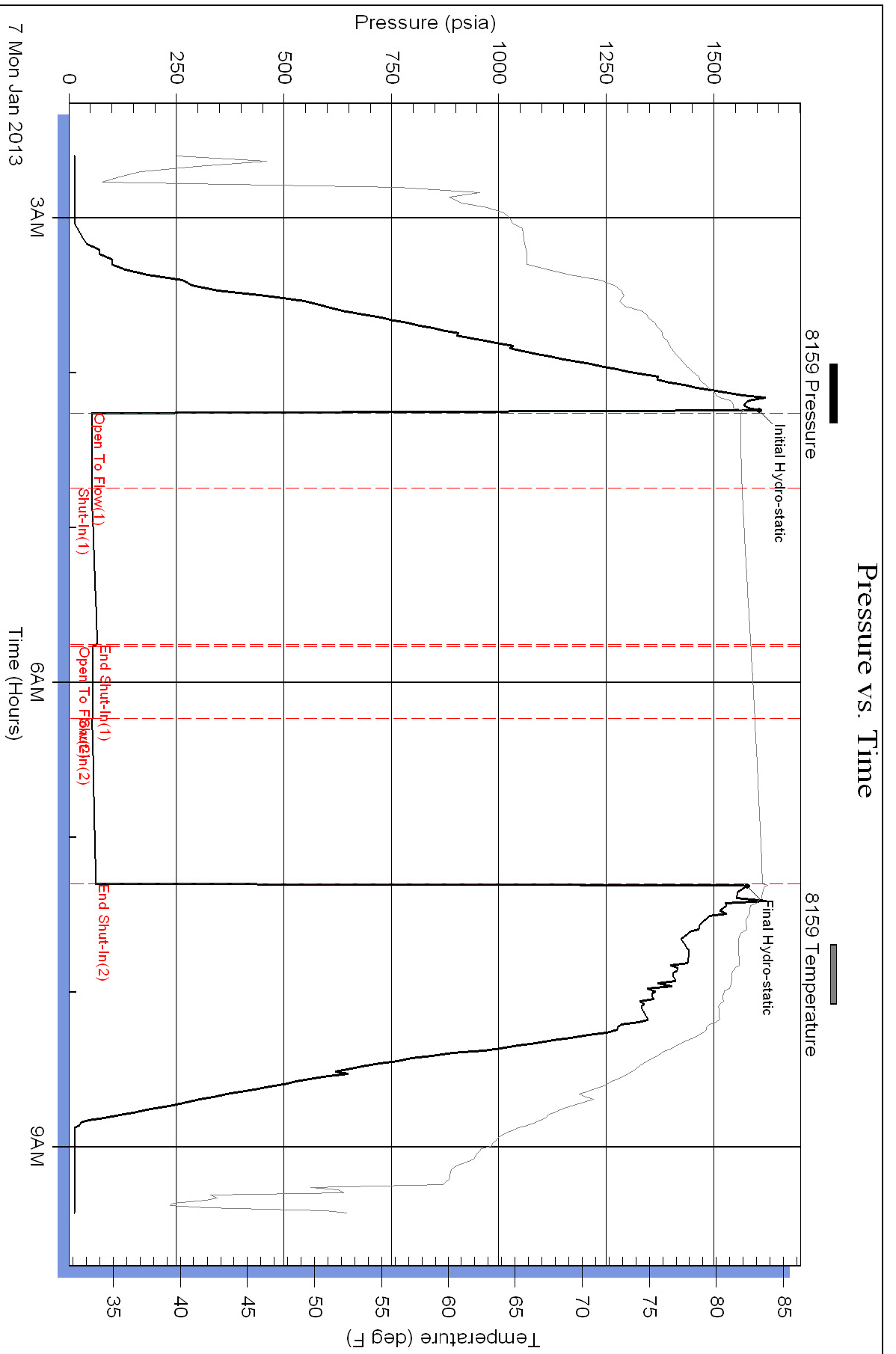
Num Gas Bombs: 0

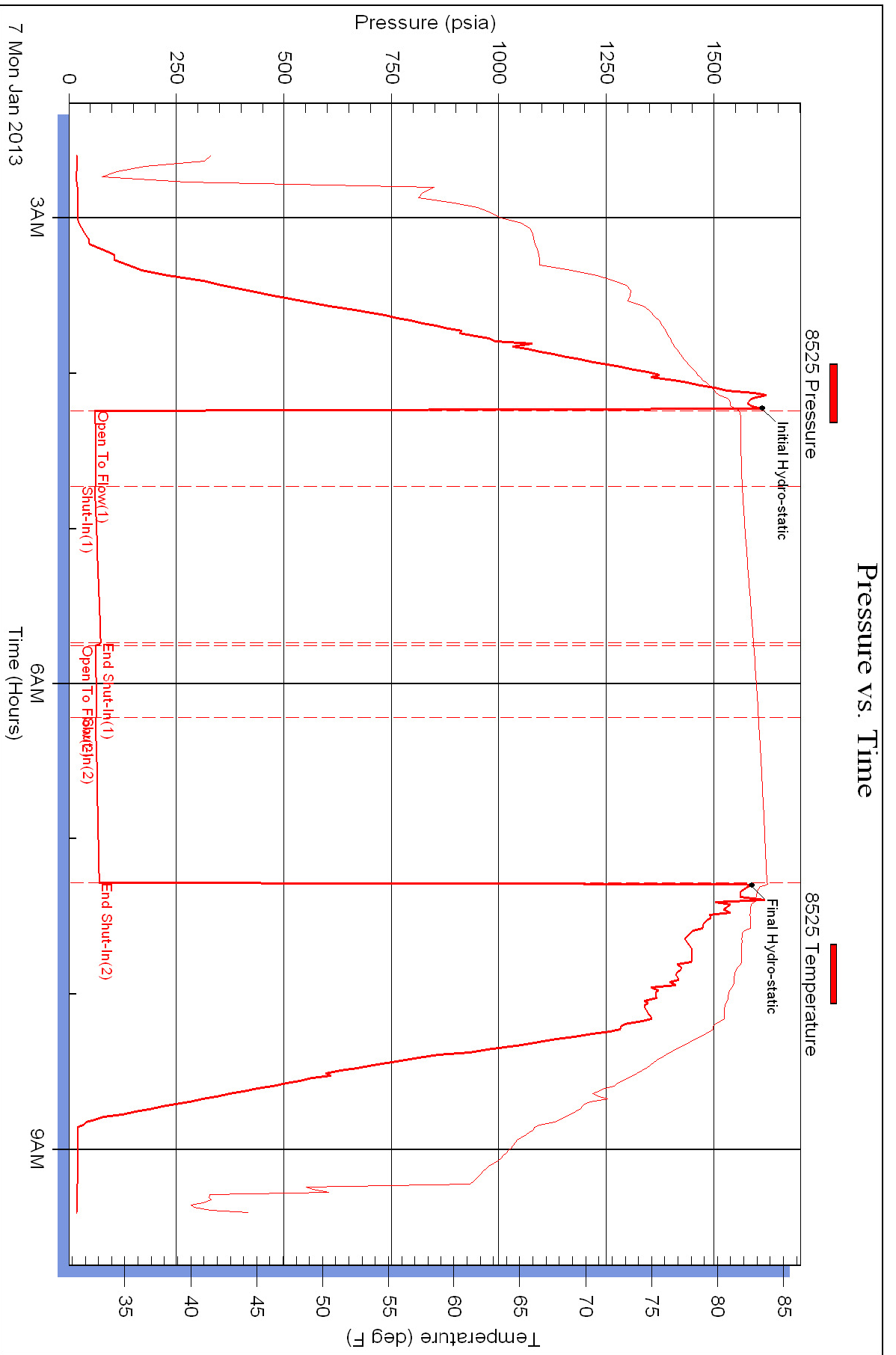
Serial #:

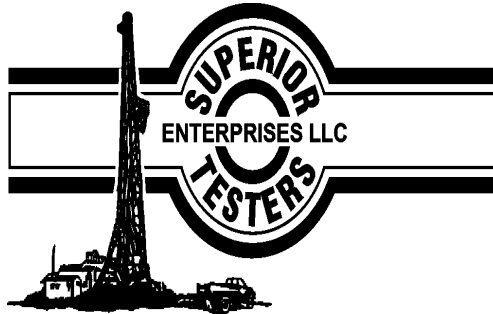
Laboratory Name:

Laboratory Location:

Recovery Comments: Ruined packer







DRILL STEM TEST REPORT

Prepared For: **Barline Oil L.L.C**

7804 E Funston Ste 209 Wichita KS 67207

ATTN: Bill Ree

Ratliff/Wangerlin#1

17-2s-15w Smith

Start Date: 2013.01.08 @ 14:50:00

End Date: 2013.01.08 @ 00:00:00

Job Ticket #: 16997 DST #: 3

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

Printed: 2013.01.08 @ 21:20:12

Barline Oil L.L.C
17-2s-15w Smith
Ratliff/Wangerlin#1
DST # 3
Mississippi
2013.01.08



DRILL STEM TEST REPORT

Barline Oil L.L.C

17-2s-15w Smith

7804 E Funston Ste 209 Wichita KS 67207

Ratliff/Wangerlin#1

Job Ticket: 16997

DST#: 3

ATTN: Bill Ree

Test Start: 2013.01.08 @ 14:50:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:19:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend -270

Interval: 3702.00 ft (KB) To 3732.00 ft (KB) (TVD)

Reference Elevations: 1983.00 ft (KB)

Total Depth: 3732.00 ft (KB) (TVD)

1970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8159

Press@RunDepth: 1234.62 psia @ ft (KB)

Capacity: psia

Start Date: 2013.01.08

End Date: 2013.01.08

Last Calib.: 1899.12.30

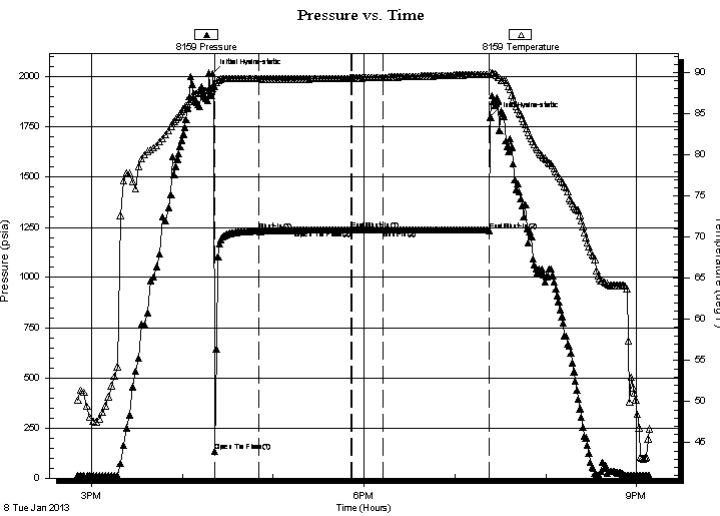
Start Time: 14:50:00

End Time: 21:08:30

Time On Btm: 2013.01.08 @ 16:20:00

Time Off Btm: 2013.01.08 @ 19:23:30

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 2 1/4 inches into bucket water in 30 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 30 Minutes-Very weak surface blow did not build
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

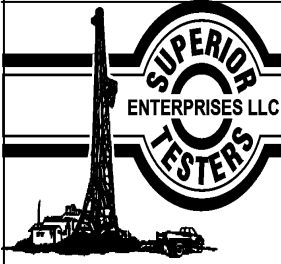
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2015.13	88.06	Initial Hydro-static
2	132.22	88.33	Open To Flow (1)
31	1232.32	89.23	Shut-In(1)
91	1236.67	89.31	End Shut-In(1)
92	1236.67	89.32	Open To Flow (2)
113	1236.87	89.42	Shut-In(2)
183	1234.62	89.80	End Shut-In(2)
184	1799.73	90.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud	0.05

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Barline Oil L.L.C

17-2s-15w Smith

7804 E Funston Ste 209 Wichita KS 67207

Ratliff/Wangerlin#1

Job Ticket: 16997

DST#: 3

ATTN: Bill Ree

Test Start: 2013.01.08 @ 14:50:00

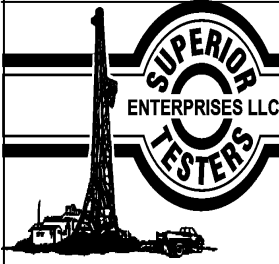
Tool Information

Drill Pipe:	Length: 3572.00 ft	Diameter: 3.80 inches	Volume: 50.11 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	5000.00 lb
			<u>Total Volume: 50.70 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3702.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	50.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut-In Tool	5.00			3687.00	
Hydraulic Tool	5.00			3692.00	
Packer	5.00			3697.00	20.00 Bottom Of Top Packer
Packer	5.00			3702.00	
Anchor	25.00			3727.00	
Recorder	1.00		Inside	3728.00	
Recorder	1.00		Outside	3729.00	
Bullnose	3.00			3732.00	30.00 Bottom Packers & Anchor

Total Tool Length: 50.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Barline Oil L.L.C

17-2s-15w Smith

7804 E Funston Ste 209 Wichita KS 67207

Ratliff/Wangerlin#1

Job Ticket: 16997

DST#: 3

ATTN: Bill Ree

Test Start: 2013.01.08 @ 14:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 70.00 sec/qt

Water Loss: 8.00 in³

Resistivity: ohm.m

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

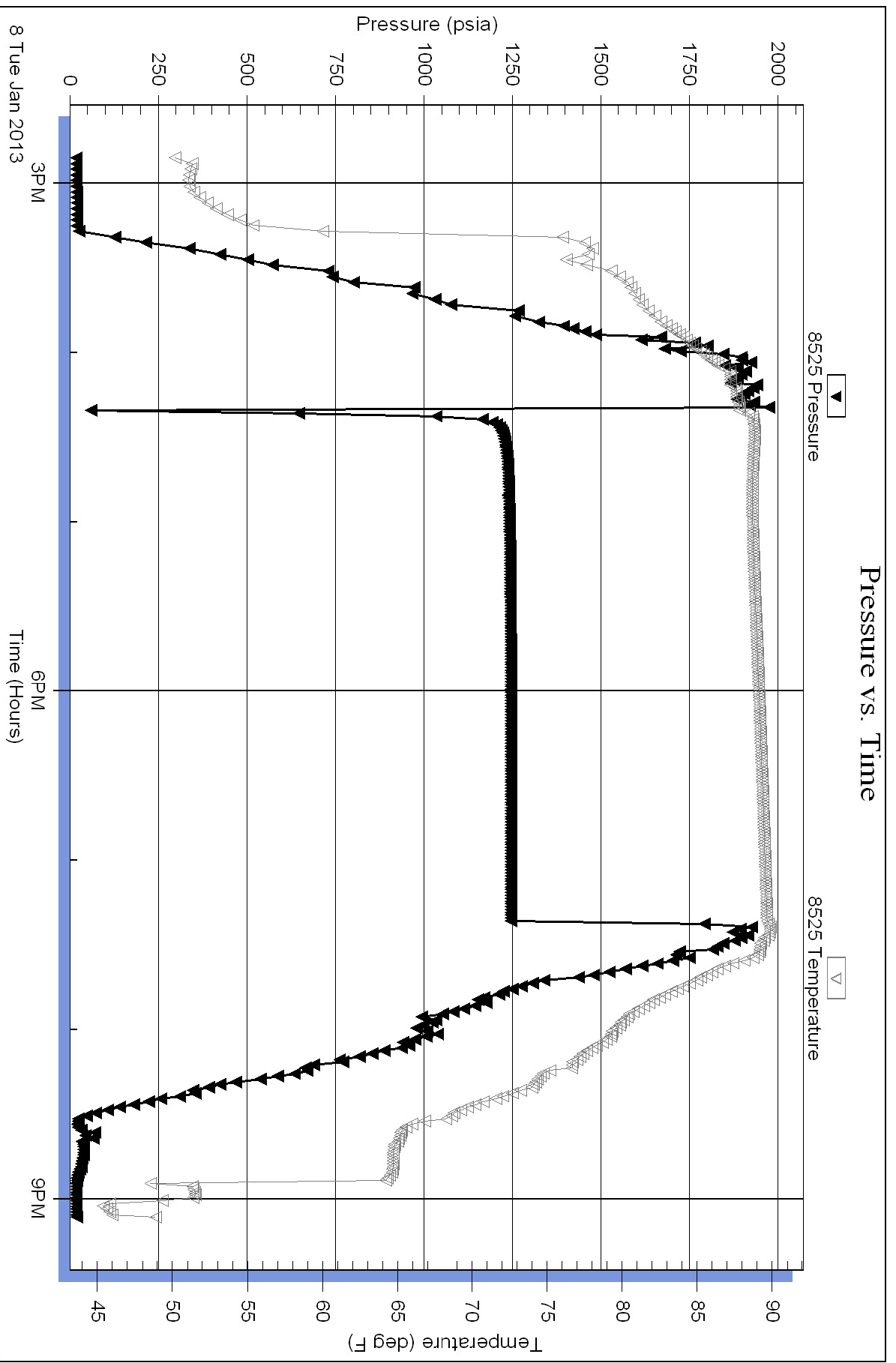
Recovery Comments:

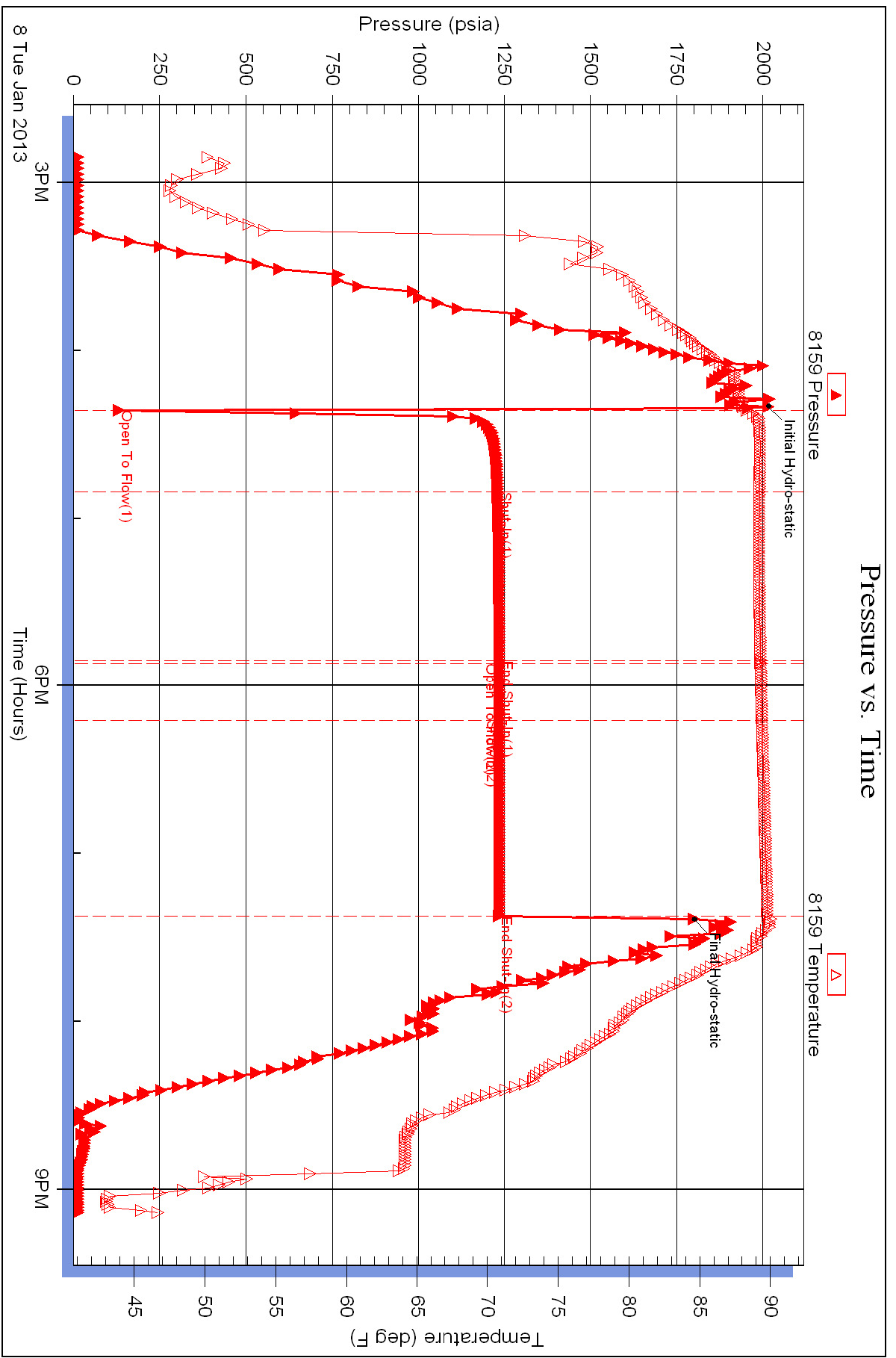
Serial #: 8525

Barline Oil L.L.C

Ratliff/Wangerlin#1

DST Test Number: 3





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

March 17, 2013

Bill Ree
Barline Oil, LLC
7804 E FUNSTON, STE. 209
WICHITA, KS 67207

Re: ACO1
API 15-183-20019-00-00
Ratliff/Wangerin Unit 1-17
SE/4 Sec.17-02S-15W
Smith 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,
Bill Ree



CEMENTING LOG

STAGE NO.

Date 1-10-13 District Russell Ticket No. 56854
 Company Barline Oil LLC Rig WW 12
 Lease Katiff-b langerin Unit Well No. 1-17
 County Smith State KS
 Location Kensington 7N 1/2 W Field Ninto

CEMENT DATA:

Spacer Type: _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ P
 LEAD: Pump Time _____ hrs. Type 60/40 49 gci
1/4 #F10 Excess _____
 Amt. 230 Sks Yield 1.41 ft³/sk Density 14.1 PPG
 TAIL: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
 WATER: Lead 6.7 gals/sk Tail _____ gals/sk Total _____ Bbls.
 Pump Trucks Used 417 - Woody O
 Bulk Equip. 410 - Nathan D

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size _____ Type _____ Weight _____ Collar _____

Casing Depths: Top _____ Bottom _____

Drill Pipe: Size 4 1/2 Weight 16.6 Callers _____
 Open Hole: Size 7 7/8 T.D. 3948 ft. P.B. to _____ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. 0.1422 Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type _____ Amt. _____ Bbls. Weight _____ PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE [Signature]

CEMENTER [Signature]

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls/Min.	
						Arrive on location
						Safety meeting
						set up
			4661			p1 25 sks @ 3900 ft
			5 min			displace with mud
			4661			p2 25 sks @ 1450 ft
			2 min			displace with mud
			16661			p3 100 sks @ 1000 ft
			5661			displace with water
			7661			p4 40 sks @ 275 ft
			2661			displace with water
						set wooden plug
			2661			top off hole
			5661			plug rat hole
						wash up
						tear down
						leave location

FINAL DISP. PRESS: _____ PSI BUMP PLUG TO _____ PSI BLEEDBACK _____ BBLs. THANK YOU

API: 15-183-20019-00-00

ALLIED OIL & GAS SERVICES, LLC 056854

Federal Tax I.D.# 20-5975804

API: 15-183-20019-00-00

REMIT TO: P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell KS

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
1-10-13	17	2	15			4:30 AM	5:00 AM
LEASE <u>Wagner</u>		WELL# <u>1-17</u>		LOCATION <u>Kearney Kensington 7N 1/2 W</u>		COUNTY <u>Smith</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)							

CONTRACTOR WU 12 OWNER _____

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 3948 CEMENT AMOUNT ORDERED 230 60/40 49 gal

CASING SIZE _____ DEPTH _____ 1/4 # 10

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 16.6 # DEPTH 3900

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

EQUIPMENT

PUMP TRUCK CEMENTER Robert Y

417 HELPER Woody O

BULK TRUCK _____

410 DRIVER Nathan D

BULK TRUCK _____

_____ DRIVER _____

REMARKS:

p1 25 @ 3900

p2 25 @ 1450

p3 100 @ 1000

p4 40 @ 275

p5 10 @ 40

Rathole 30 @

CHARGE TO: Barline Oil LLC

STREET _____

CITY _____ STATE _____ ZIP _____

CEMENT

AMOUNT ORDERED 230 60/40 49 gal

1/4 # 10

COMMON 138 @ 17.90 2470.20

POZMIX 92 @ 9.35 860.20

GEL 8 @ 23.40 187.20

CHLORIDE @ _____

ASC @ _____

1/2 scal 50 # 22x @ 2.97 148.50

@ _____

@ _____

@ _____

@ _____

@ _____

@ _____

@ _____

HANDLING 246.67 ft @ 2.48 611.73

MILEAGE 856.145 1/m @ 2.60 2225.98

TOTAL 6503.81

SERVICE

DEPTH OF JOB 3900

PUMP TRUCK CHARGE 2600.47

EXTRA FOOTAGE @ _____

MILEAGE 83 HVMI @ 7.70 639.10

MANIFOLD @ _____

83 LVMI @ 4.40 365.20

@ _____

@ _____

TOTAL 3604.77

PLUG & FLOAT EQUIPMENT

Wooden plug @ 107.64 107.64

@ _____

@ _____

@ _____

@ _____

@ _____

TOTAL 107.64

SALES TAX (If Any) 745.78

TOTAL CHARGES 10216.22

DISCOUNT 3422.43 IF PAID IN 30 DAYS

before tax net 6793.79

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner, agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Cathy Pharo

SIGNATURE Cathy Pharo



CEMENTING LOG

STAGE NO.

Date 1-3-13 District Russell Ticket No. # 56083
 Company Barline Oil, Wn Drill Rig #12
 Lease Barline Wagoner Well No. L-17
 County Spokane State KS
 Location Barline Wagoner Field L-17
7 north & west north into

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 8 5/8 Type _____ Weight _____ Collar _____

Casing Depths: Top _____ Bottom 219.39'

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size _____ T.D. _____ ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. _____ Lin. ft./Bbl. 106.37
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. 13.6037
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: _____
 Amt. 160 Sks Yield 1.34 ft³/sk Density _____
160 sk class A 3/4 cc 2.1 gal

LEAD: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

TAIL: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
 WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used #409 - Kevin R.
 Bulk Equip. #278 - Nathan D.

COMPANY REPRESENTATIVE _____ CEMENTER Pony Plannertul

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
* 2:00 AM						ON location - rigged up
						* Circulated mud to surface.
			24.38			* Pumped 160 sk @ 24.38 ^{gal} / min
			13.01			* Displaced cement @ 13.01 ^{gal} / min to surface.
						* Shut Swabber in @ 200psi.
						* Rigged down.

FINAL DISP. PRESS: _____ PSI BUMP PLUG TO _____ PSI BLEEDBACK _____ BBLs. THANK YOU

API: 15-183-20019-00-00



ALLIED OIL & GAS SERVICES, LLC 056083

Federal Tax I.D.# 20-5975804

API: 15-183-20019-00-00

SERVICE POINT:

Russell, Ks

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
1.3.13	17	2	15			6:30 am	7:00 am
LEASE <u>Hayden's</u> WELL # <u>1-17</u> LOCATION <u>Mannington, Ks</u>						COUNTY <u>Smith</u>	STATE <u>Ks</u>
OLD OR <u>NEW</u> (Circle one)				<u>7 north of west north into.</u>			

CONTRACTOR W.W. Drilling #12 OWNER _____

TYPE OF JOB Surface

HOLE SIZE 12 1/2 ID. CEMENT AMOUNT ORDERED 160 sk class A

CASING SIZE 9 5/8 DEPTH 219.39'

TUBING SIZE DEPTH 31 cc 2.1 gal

DRILL PIPE DEPTH _____

TOOL DEPTH _____

PRES. MAX MINIMUM _____

MEAS. LINE SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT 13.01 ^{bm} / 1120

EQUIPMENT

PUMP TRUCK CEMENTER Gleng Co.

409 HELPER Kevin A.

BULK TRUCK _____

278 DRIVER Nathan D.

BULK TRUCK _____

DRIVER _____

COMMON 160 sks @ 17.90 \$2,864.00

POZMIX @ _____

GEL 3 sk @ 23.40 \$70.20

CHLORIDE 5 sk @ 64.00 \$320.00

ASC @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING 172.09 #3 @ 2.48 \$426.79

MILEAGE 653.21 / mi @ 2.60 \$1,698.35

TOTAL \$5,379.33

REMARKS:

- * Circulate mud to surface.
- * Pump cement @ 24.38 ^{bm} / sk
- * Displace cement @ 13.01 ^{bm} / sk
- Return cement to surface.
- * Shut @ 5/8 Swags in.

Thanks!

CHARGE TO: Barline Oil

STREET _____

CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Calvin Brantley

SIGNATURE Calvin Brantley

SERVICE

DEPTH OF JOB 219.39'

PUMP TRUCK CHARGE \$1,512.25

EXTRA FOOTAGE @ _____

MILEAGE Heavy 83 miles @ 7.70 \$639.10

MANIFOLD Light 83 miles @ 4.40 \$365.20

_____ @ _____

_____ @ _____

TOTAL \$2,516.55

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

SALES TAX (if Any) 237.55

TOTAL CHARGES \$7,895.88

DISCOUNT \$2,108.29 IF PAID IN 30 DAYS

before tax BS 1-4
Net 5787.68