



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1229706
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: _____

1229706

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

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

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

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

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

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

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

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

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

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	WNRB 1-12
Doc ID	1229706

All Electric Logs Run

DIL
DUCP
MEL
BHCS



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N. Water STE 300
Wichita KS 67202-1216

ATTN: Bob Stolze

WNRB #1-12

12-21s-19w Pawnee,KS

Start Date: 2014.09.11 @ 06:12:00

End Date: 2014.09.11 @ 14:15:00

Job Ticket #: 60454 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.16 @ 09:01:04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
250 N. Water STE 300
Wichita KS 67202-1216
ATTN: Bob Stolzle

12-21s-19w Pawnee, KS
WNRB #1-12
Job Ticket: 60454 **DST#: 1**
Test Start: 2014.09.11 @ 06:12:00

GENERAL INFORMATION:

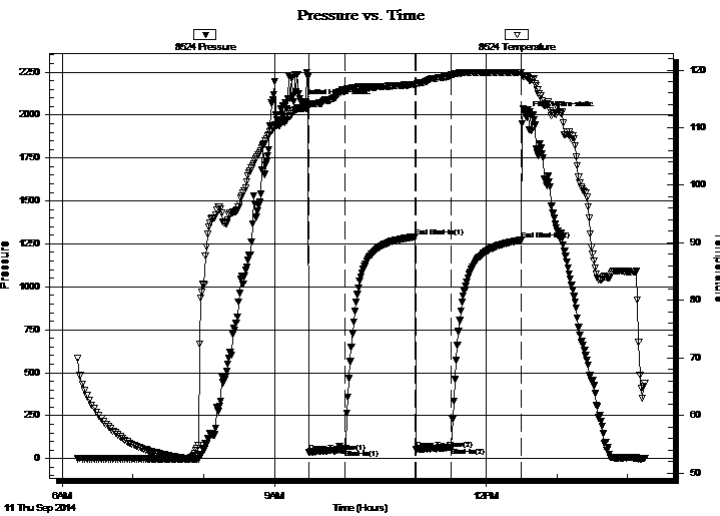
Formation: **Fort Scott Sandstone**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:29:30
Time Test Ended: 14:15:00
Interval: **4156.00 ft (KB) To 4195.00 ft (KB) (TVD)**
Total Depth: 4195.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: S3
Reference Elevations: 2124.00 ft (KB)
2113.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8524

Inside

Press@RunDepth: 64.68 psig @ 4191.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.11 End Date: 2014.09.11 Last Calib.: 2014.09.11
Start Time: 06:13:00 End Time: 14:15:00 Time On Btm: 2014.09.11 @ 09:23:30
Time Off Btm: 2014.09.11 @ 12:33:30

TEST COMMENT: IFP 30 Weak blow built to 3/4"
ISI 60 No blow back.
FFP 60 Weak surface blow that died at 10 minutes. Did not flush per Geo.
FSI 90 No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2064.40	113.31	Initial Hydro-static
6	37.72	113.62	Open To Flow (1)
37	53.30	116.47	Shut-In(1)
96	1291.40	117.48	End Shut-In(1)
97	54.94	117.29	Open To Flow (2)
127	64.68	119.09	Shut-In(2)
186	1271.27	119.59	End Shut-In(2)
190	1994.07	118.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% mud	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
250 N. Water STE 300
Wichita KS 67202-1216
ATTN: Bob Stolzle

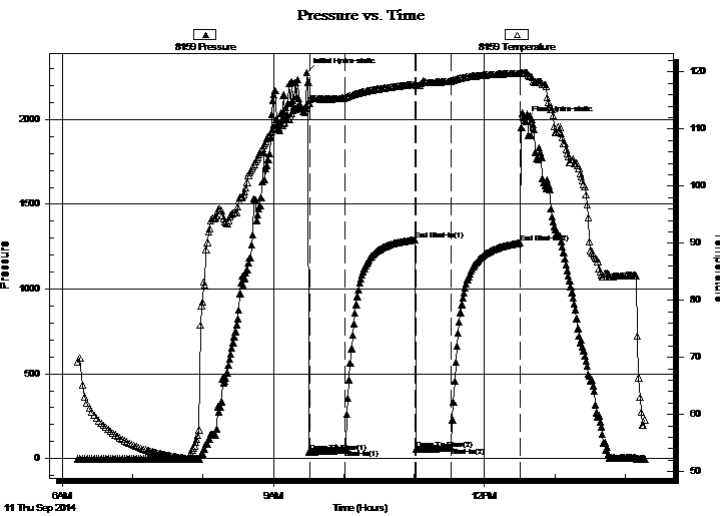
12-21s-19w Pawnee, KS
WNRB #1-12
Job Ticket: 60454 **DST#: 1**
Test Start: 2014.09.11 @ 06:12:00

GENERAL INFORMATION:

Formation: **Fort Scott Sandstone**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:29:30
 Time Test Ended: 14:15:00
 Interval: **4156.00 ft (KB) To 4195.00 ft (KB) (TVD)**
 Total Depth: 4195.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: S3
 Reference Elevations: 2124.00 ft (KB)
 2113.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8159 Outside
 Press@RunDepth: 1271.57 psig @ 4192.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.11 End Date: 2014.09.11 Last Calib.: 2014.09.11
 Start Time: 06:13:00 End Time: 14:16:30 Time On Btm: 2014.09.11 @ 09:28:30
 Time Off Btm: 2014.09.11 @ 12:34:30

TEST COMMENT: IFP 30 Weak blow built to 3/4"
 ISI 60 No blow back.
 FFP 60 Weak surface blow that died at 10 minutes. Did not flush per Geo.
 FSI 90 No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2278.50	113.89	Initial Hydro-static
3	38.31	115.26	Open To Flow (1)
33	52.92	115.50	Shut-In(1)
92	1291.24	117.85	End Shut-In(1)
94	52.82	117.68	Open To Flow (2)
123	64.75	118.40	Shut-In(2)
182	1271.57	119.81	End Shut-In(2)
186	1993.84	119.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% mud	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

12-21s-19w Pawnee, KS

250 N. Water STE 300
Wichita KS 67202-1216

WNRB #1-12

Job Ticket: 60454

DST#: 1

ATTN: Bob Stolzle

Test Start: 2014.09.11 @ 06:12:00

Tool Information

Drill Pipe:	Length: 3914.00 ft	Diameter: 3.80 inches	Volume: 54.90 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: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 56.11 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4156.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	67.00 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			4133.00	
Hydraulic tool	5.00			4138.00	
Jars	6.00			4144.00	
Safety Joint	2.00			4146.00	
Top Packer	5.00			4151.00	
Packer	5.00			4156.00	28.00 Bottom Of Top Packer
Anchor	34.00			4190.00	
Recorder	1.00	8524	Inside	4191.00	
Recorder	1.00	8159	Outside	4192.00	
Bull Plug	3.00			4195.00	39.00 Anchor Tool
Total Tool Length:	67.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

12-21s-19w Pawnee,KS

250 N. Water STE 300
Wichita KS 67202-1216

WNRB #1-12

Job Ticket: 60454

DST#: 1

ATTN: Bob Stolzle

Test Start: 2014.09.11 @ 06:12:00

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100% mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

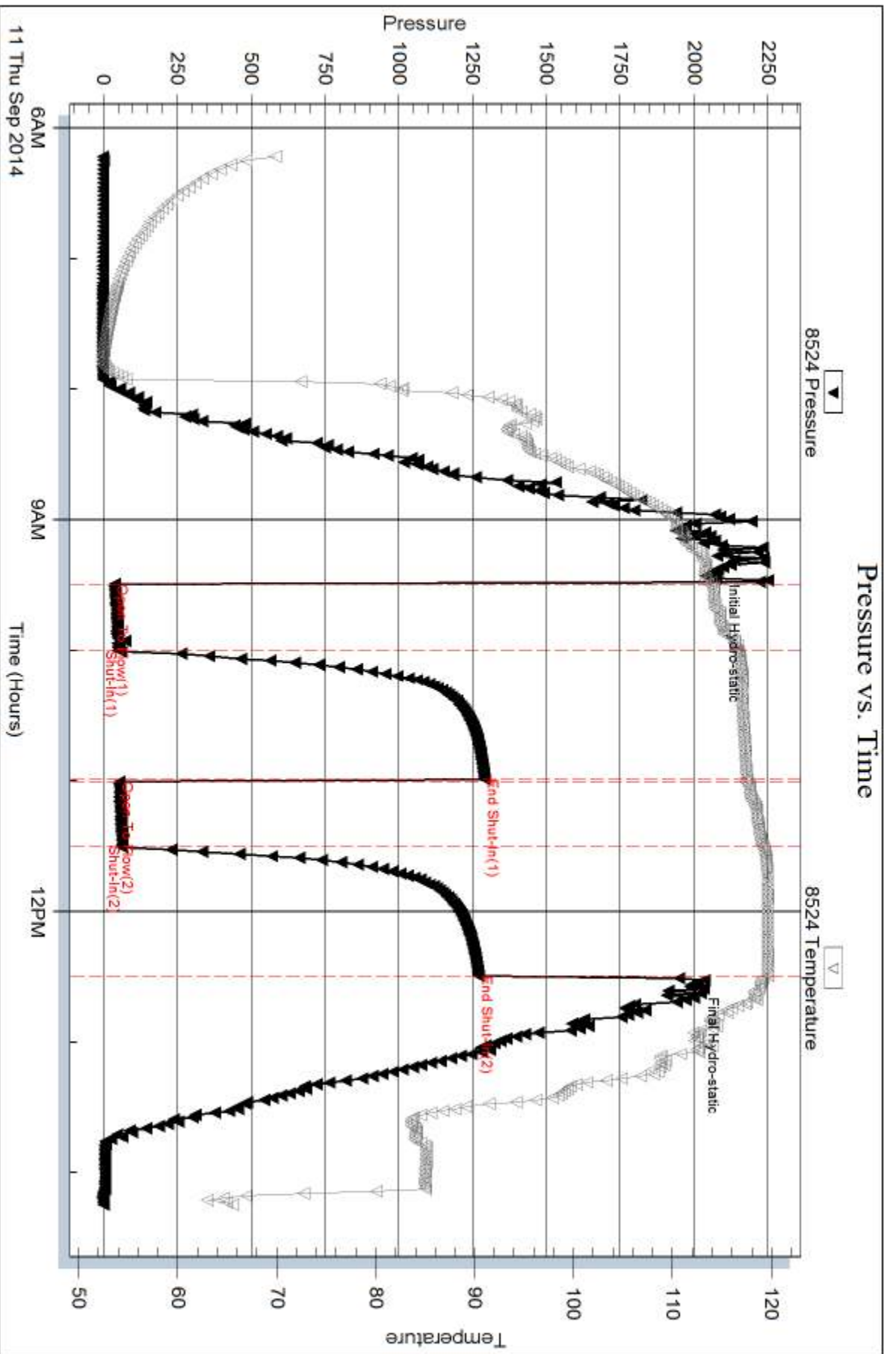
Num Gas Bombs: 0

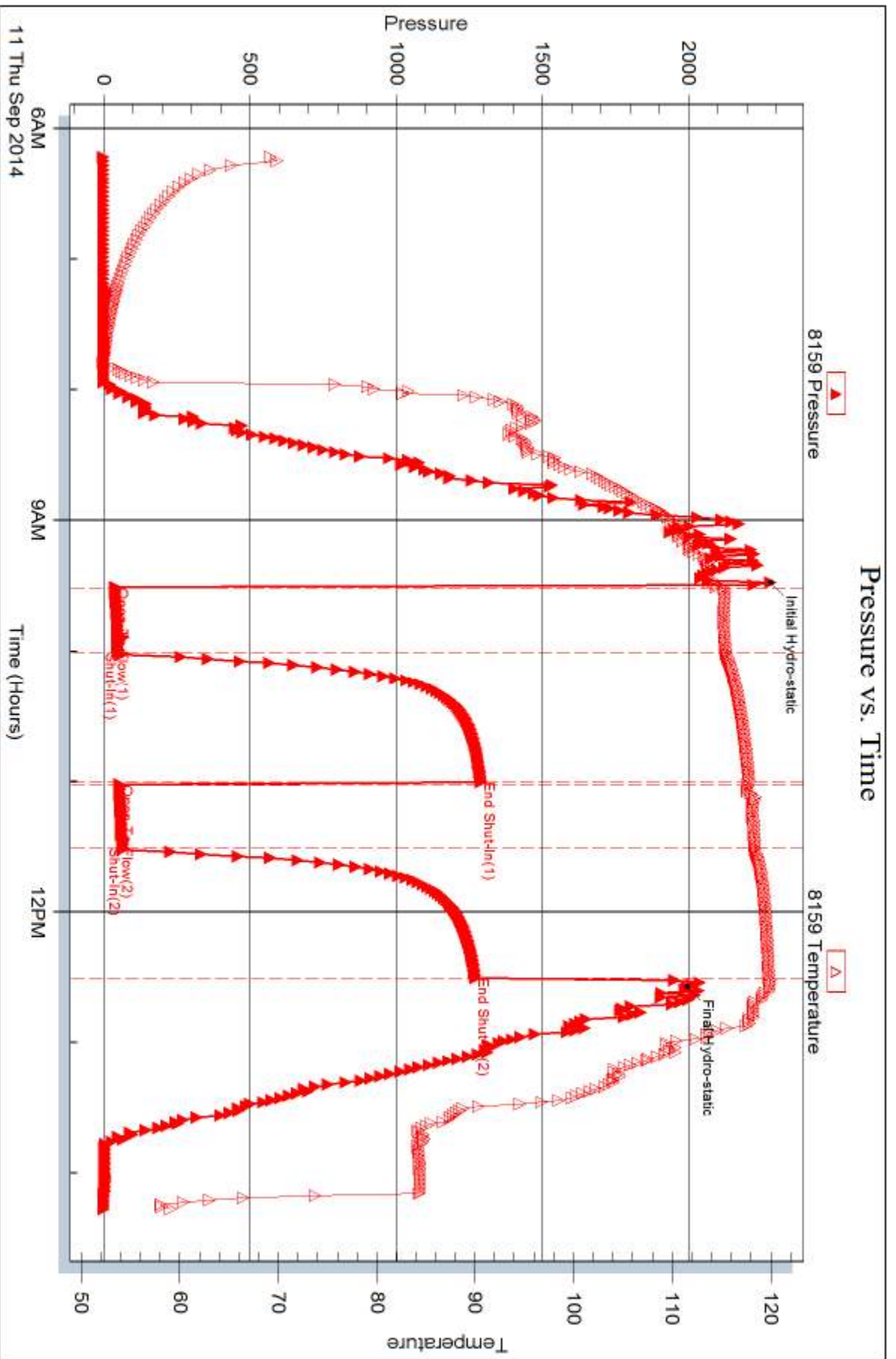
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N. Water STE 300
Wichita KS 67202-1216

ATTN: Bob Stolze

WNRB #1-12

12-21s-19w Pawnee,KS

Start Date: 2014.09.11 @ 20:00:00

End Date: 2014.09.12 @ 03:25:00

Job Ticket #: 60455 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.16 @ 09:00:30

Murfin Drilling Co. Inc.

12-21s-19w Pawnee,KS

WNRB #1-12

DST # 2

Conglomerate Sandsto

2014.09.11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
250 N. Water STE 300
Wichita KS 67202-1216
ATTN: Bob Stolzle

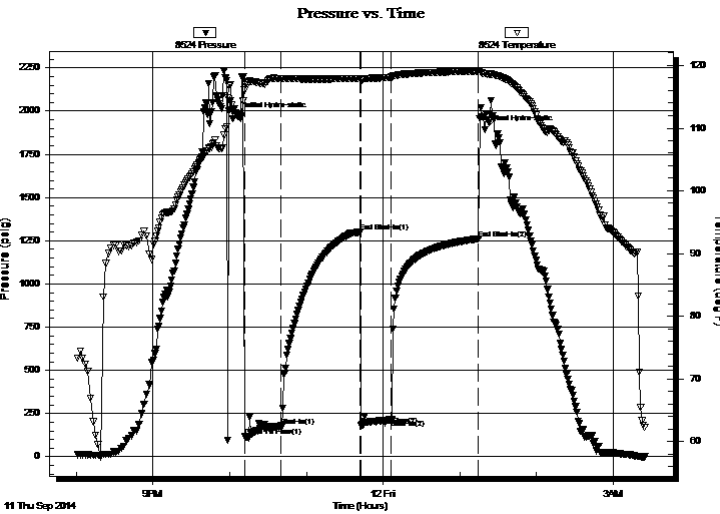
12-21s-19w Pawnee, KS
WNRB #1-12
Job Ticket: 60455 **DST#: 2**
Test Start: 2014.09.11 @ 20:00:00

GENERAL INFORMATION:

Formation: **Conglomerate Sandsto**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 22:11:30 Tester: Shane Konzem
Time Test Ended: 03:25:00 Unit No: S3
Interval: 4158.00 ft (KB) To 4220.00 ft (KB) (TVD) Reference Elevations: 2124.00 ft (KB)
Total Depth: 4220.00 ft (KB) (TVD) 2113.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 11.00 ft

Serial #: 8524 Inside
Press@RunDepth: 216.05 psig @ 4216.90 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.11 End Date: 2014.09.12 Last Calib.: 2014.09.12
Start Time: 20:01:00 End Time: 03:25:00 Time On Btm: 2014.09.11 @ 22:06:30
Time Off Btm: 2014.09.12 @ 01:19:30

TEST COMMENT: IFP 30 Weak blow built to 4"
ISI 60 No blow back.
FFP 30 Weak blow built to 4"
FSI 60 No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1966.66	112.10	Initial Hydro-static
5	116.55	116.09	Open To Flow (1)
34	178.61	117.88	Shut-In(1)
95	1298.91	117.94	End Shut-In(1)
96	181.93	117.67	Open To Flow (2)
120	216.05	118.13	Shut-In(2)
188	1261.57	119.12	End Shut-In(2)
193	1894.36	118.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
276.00	100% Mud.	1.63

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
250 N. Water STE 300
Wichita KS 67202-1216
ATTN: Bob Stolzle

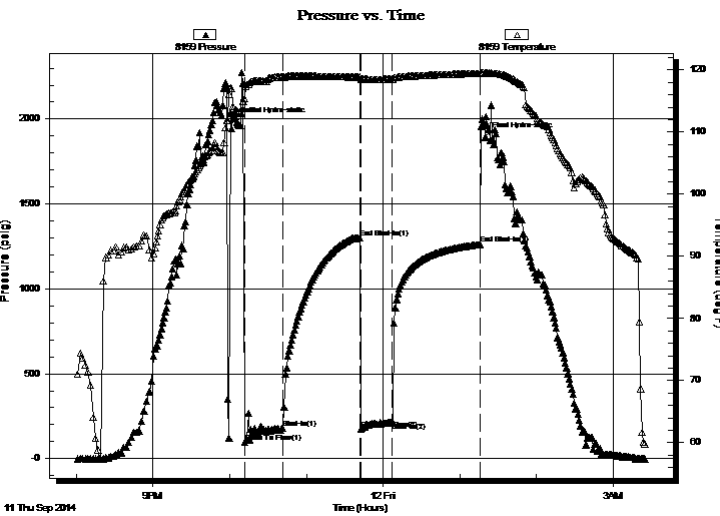
12-21s-19w Pawnee, KS
WNRB #1-12
Job Ticket: 60455 **DST#: 2**
Test Start: 2014.09.11 @ 20:00:00

GENERAL INFORMATION:

Formation: **Conglomerate Sandsto**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 22:11:30 Tester: Shane Konzem
Time Test Ended: 03:25:00 Unit No: S3
Interval: **4158.00 ft (KB) To 4220.00 ft (KB) (TVD)** Reference Elevations: 2124.00 ft (KB)
Total Depth: 4220.00 ft (KB) (TVD) 2113.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 11.00 ft

Serial #: 8159 Outside
Press@RunDepth: 1262.21 psig @ 4217.90 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.11 End Date: 2014.09.12 Last Calib.: 2014.09.12
Start Time: 20:01:00 End Time: 03:25:00 Time On Btm: 2014.09.11 @ 22:05:30
Time Off Btm: 2014.09.12 @ 01:20:00

TEST COMMENT: IFP 30 Weak blow built to 4"
ISI 60 No blow back.
FFP 30 Weak blow built to 4"
FSI 60 No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1982.78	113.40	Initial Hydro-static
6	97.96	115.41	Open To Flow (1)
36	177.33	118.85	Shut-In(1)
97	1300.66	118.86	End Shut-In(1)
97	173.73	118.55	Open To Flow (2)
122	213.67	118.54	Shut-In(2)
190	1262.21	119.47	End Shut-In(2)
195	1894.15	119.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
276.00	100% Mud.	1.63

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

12-21s-19w Pawnee,KS

250 N. Water STE 300
Wichita KS 67202-1216

WNRB #1-12

Job Ticket: 60455

DST#: 2

ATTN: Bob Stolzle

Test Start: 2014.09.11 @ 20:00:00

Tool Information

Drill Pipe:	Length: 3889.00 ft	Diameter: 3.80 inches	Volume: 54.55 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: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 55.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4158.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.90 ft			
Tool Length:	90.90 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			4135.00	
Hydraulic tool	5.00			4140.00	
Jars	6.00			4146.00	
Safety Joint	2.00			4148.00	
Packer	5.00			4153.00	28.00 Bottom Of Top Packer
Packer	5.00			4158.00	
Anchor	5.00			4163.00	
Change Over Sub	0.75			4163.75	
Drill Pipe	31.40			4195.15	
Drill Pipe	0.00			4195.15	
Change Over Sub	0.75			4195.90	
Anchor	20.00			4215.90	
Recorder	1.00	8524	Inside	4216.90	
Recorder	1.00	8159	Outside	4217.90	
Bullk Plug	3.00			4220.90	62.90 Bottom Packers & Anchor

Total Tool Length: 90.90



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

12-21s-19w Pawnee,KS

250 N. Water STE 300
Wichita KS 67202-1216

WNRB #1-12

Job Ticket: 60455

DST#: 2

ATTN: Bob Stolzle

Test Start: 2014.09.11 @ 20:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.09 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
276.00	100% Mud.	1.631

Total Length: 276.00 ft Total Volume: 1.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

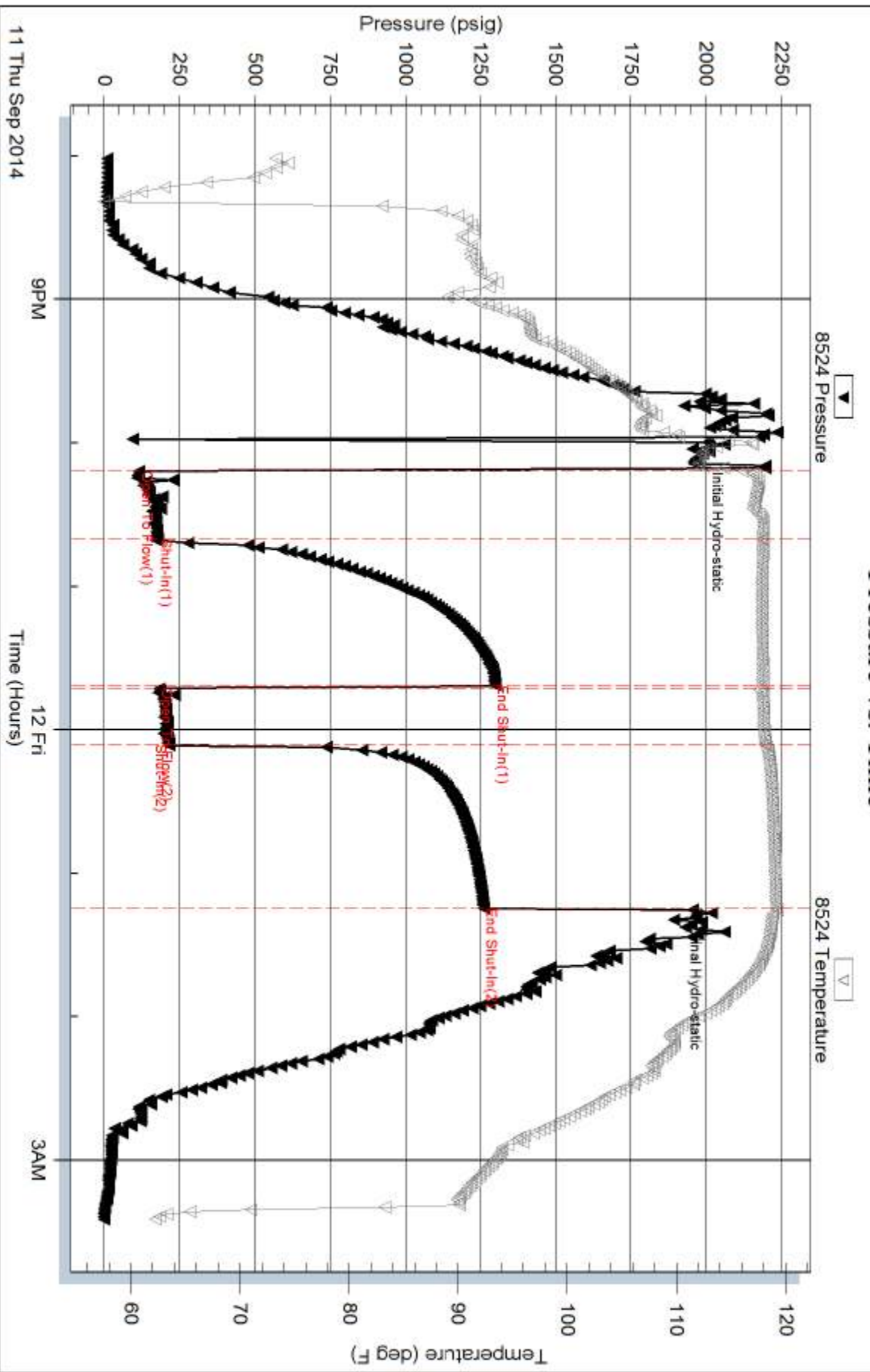
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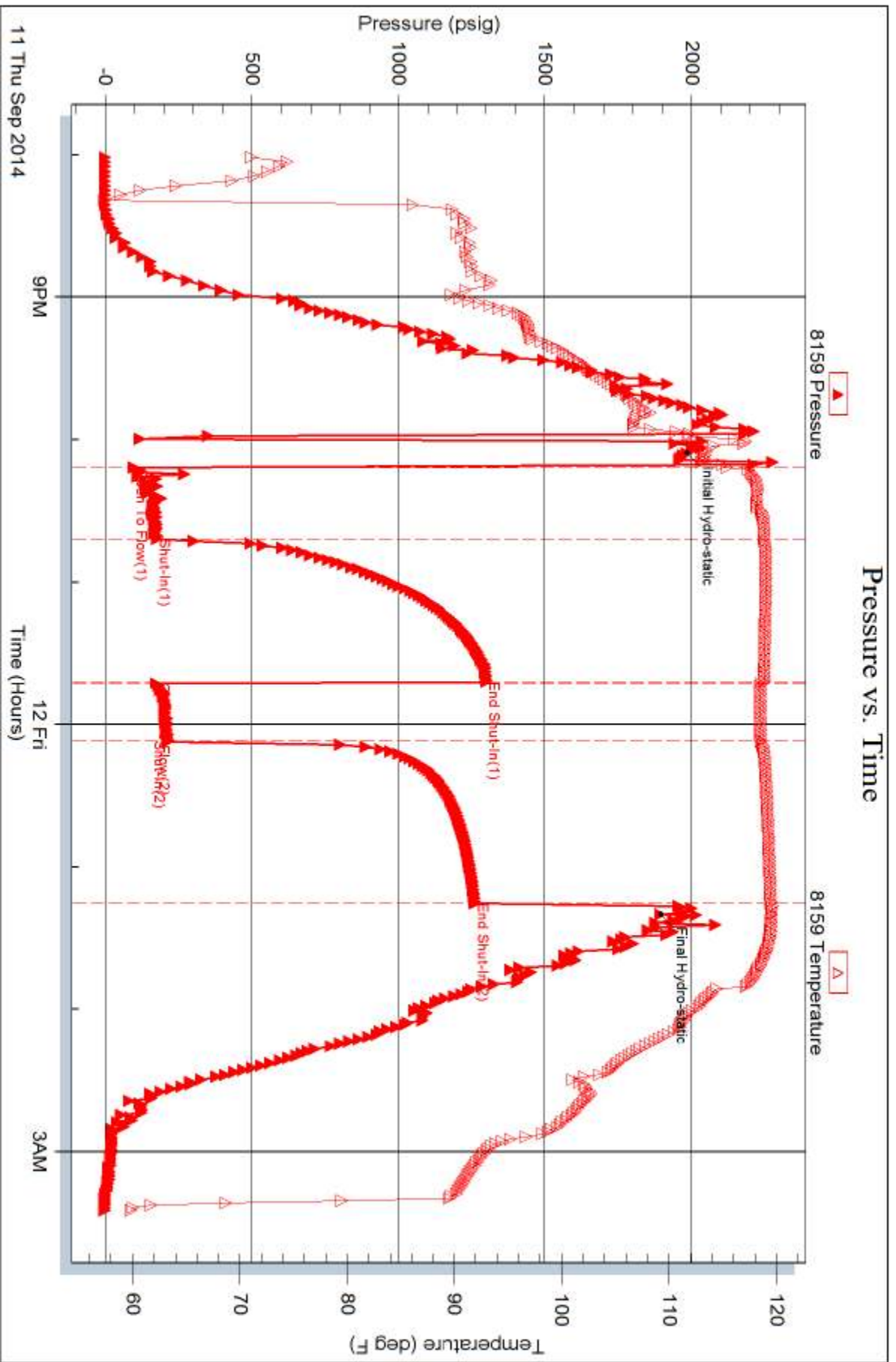
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60454

4/10

Well Name & No. WNRB #1-12 Test No. 1 Date 9-11-14
 Company Murfin Drilling Co. Inc. Elevation 2124 KB 2113 GL
 Address 250 N. Water STE 300 Wichita KS 67202-1216
 Co. Rep / Geo. Bob Stolze Rig Murfin Rig # 21
 Location: Sec. 12 Twp. 21S Rge. 19W Co. Pawnee State KS

Interval Tested 4156 - 4195 Zone Tested Ft. Scott Sandstone
 Anchor Length 39' Drill Pipe Run 3914 Mud Wt. 9.2
 Top Packer Depth 4151 Drill Collars Run 246 Vis 62
 Bottom Packer Depth 4156 Wt. Pipe Run 0 WL 8.8
 Total Depth 4195 Chlorides 6,800 ppm System LCM 2
 Blow Description 1st Open - weak blow built to 3/4 inch into water. 1st Shut In - No blow back. 2nd Open - weak surface blow that died at 10mins. Did not flush per Geo. 2nd Shut in - No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud</u>			<u>100</u>	

Rec Total 10 BHT 118 Gravity \ API RW \ @ \ ° F Chlorides \ ppm

(A) Initial Hydrostatic <u>2064</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>0530</u>
(B) First Initial Flow <u>37</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0740</u>
(C) First Final Flow <u>53</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0930</u>
(D) Initial Shut-In <u>1291</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1230</u>
(E) Second Initial Flow <u>54</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1415</u>
(F) Second Final Flow <u>64</u>	<input checked="" type="checkbox"/> Mileage <u>84</u> 130.20	Comments
(G) Final Shut-In <u>1271</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1994</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1705.20</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1705.20</u>	

Approved By _____ Our Representative Shane [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60455

Well Name & No. WNRB #1-12 Test No. 2 Date 9-11-14
 Company Murfin Drilling Co, Inc. Elevation 2124 KB 2113 GL
 Address 250 N. Water STE 300 Wichita KS 67202-1216
 Co. Rep / Geo. Bob Stoltzle Rig Murfin Drilling Rig #21
 Location: Sec. 12 Twp. 21S Rge. 19W Co. Pawnee State KS

Interval Tested 4158 - 4220 Zone Tested conglomerate sand stone
 Anchor Length 62 Drill Pipe Run 3889 Mud Wt. 9.6
 Top Packer Depth 4153 Drill Collars Run 246 Vis 65
 Bottom Packer Depth 4158 Wt. Pipe Run 0 WL 8.1
 Total Depth 4220 Chlorides 7800 ppm System LCM 2
 Blow Description 1st Open - Weak blow built to 4 inches into water. 1st Shut In - No Blow back. 2nd Open - Weak blow built to 4 inches into water. 2nd Shut In - No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>276</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 276 BHT 118 Gravity 1250 API RW 130.20 @ 1 ° F Chlorides 7800 ppm

(A) Initial Hydrostatic 1966 Test 1250 T-On Location 2030
 (B) First Initial Flow 116 Jars 250 T-Started 2115
 (C) First Final Flow 178 Safety Joint 75 T-Open 2310
 (D) Initial Shut-In 1298 Circ Sub _____ T-Pulled 2210
 (E) Second Initial Flow 181 Hourly Standby _____ T-Out _____
 (F) Second Final Flow 216 Mileage 84 130.20 Comments _____
 (G) Final Shut-In 1261 Sampler _____
 (H) Final Hydrostatic 1894 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1705.20
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1705.20

Approved By _____

Our Representative [Signature]



www Prod-MG

PAGE 1 of 1	CUST NO 1002852	YARD # 1718	INVOICE DATE 09/08/2014
INVOICE NUMBER 91588317			

Pratt (620) 672-1201
 B MURFIN DRILLING
 I PO Box: 288
 L RUSSELL
 L KS US 67665
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME WNRB 1-12
 O LOCATION
 B COUNTY Pawnee
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

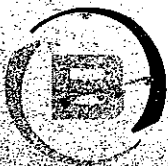
JOB # 40763252	EQUIPMENT # 27463	PURCHASE ORDER NO.	TERMS Net - 30 days	DUE DATE 10/08/2014
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	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 09/07/2014 to 09/07/2014</i>				
0040763252				
171811099A Cement-New Well Casing/Pi 09/07/2014				
Cement 8 5/8 Surface				
A-Con Blend Common	200.00	EA	13.86	2,772.00 T
Common Cement	200.00	EA	12.32	2,464.00 T
Celloflake	100.00	EA	2.85	284.90 T
Calcium Chloride	940.00	EA	0.81	759.99 T
"Wooden Cmt Plug, 8 5/8""	1.00	EA	123.20	123.20
"Baffle Plate Alum., 8 5/8" (Blue)"	1.00	EA	130.90	130.90
Centralizer 8 5/8 x 12 1/4	3.00	EA	111.65	334.95
"Unit Mileage Chg (PU, cars one way)"	75.00	MI	3.27	245.44
Heavy Equipment Mileage	150.00	MI	5.39	808.50
"Proppant & Bulk Del. Chgs., per ton mil	1,410.00	EA	1.69	2,388.54
Depth Charge; 1001'-2000'	1.00	EA	1,155.00	1,155.00
Blending & Mixing Service Charge	400.00	BAG	1.08	431.20
Plug Container Util. Chg.	1.00	EA	192.50	192.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	134.75	134.75

USED FOR New Well Drilling
 APPROVED [Signature]

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	12,225.87
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	511.89
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	12,737.76
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

MJR



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 11030 A

DATE _____ TICKET NO. _____

DATE OF JOB: 7/1/01		DISTRICT: P...		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER:				LEASE: 11030				WELL NO. 11030	
ADDRESS:				COUNTY: P...				STATE: KS	
CITY:				STATE:				SERVICE CREW: D...	
AUTHORIZED BY:				JOB TYPE: C...					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
22153									
22463									
19960									
21010									
						ARRIVED AT JOB		AM/PM	
						START OPERATION		AM/PM	
						FINISH OPERATION		AM/PM	
						RELEASED		AM/PM	
						MILES FROM STATION TO WELL			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP101	Common Cement	Sb	200		200.00
CP100C	Common Cement	Sb	200		200.00
CC102	Common Cement	Lb	100		970.00
CC109	Common Cement	Lb	940		917.00
CP123	Common Cement	Lb	1		110.00
CP123	Common Cement	Lb	1		170.00
CP171	Common Cement	Lb	3		435.00
F100	Common Cement	lb	75		313.75
F101	Common Cement	lb	100		1000.00
F102	Common Cement	lb	1000		8100.00
CT102	Common Cement	Yds	1		1000.00
CP100	Common Cement	Sb	100		560.00
CP100	Common Cement	Sb	1		250.00
3003	Common Cement	Lb	1		170.00

SUB TOTAL 12,225.87

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:
------------------------	---

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer <i>Multon Petroleum Co. Inc</i>	Lease No.	Date <i>9-7-2014</i>
Lease <i>WNRB</i>	Well # <i>1-12</i>	
Field Order # <i>11095</i>	Station <i>Prestiks</i>	Casing <i>8 5/8</i>
Type Job <i>CNW 8 5/8 SUIPAC</i>	Depth <i>1028</i>	County <i>Pgwinne</i>
	Formation <i>TD-1024</i>	State <i>KS</i>
		Legal Description <i>12-21-19</i>

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size <i>8 5/8</i>	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth <i>1024</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>65</i>	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <i>782</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager	Treater
Service Units <i>27283 27463 19960 21010</i>		
Driver Names <i>Darin Ed Gibson Gibson</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>8:30am</i>					<i>On location / Safety meetings</i>
					<i>Run 1024' 8 5/8</i>
					<i>Cementing - 1.14.22</i>
					<i>2005x A-con Blend 3%cc, 1/4 # Cellulose</i>
					<i>12 pps, 2.47 void, 14.45 water</i>
					<i>2005x Common 3%cc, 1/4 # Cellulose</i>
					<i>2% Bor, 15 pps, 1.34 void, 6.13 water</i>
	<i>300</i>		<i>3</i>	<i>5</i>	<i>Pump 3 bbls water</i>
	<i>300</i>		<i>88</i>	<i>5</i>	<i>mix 2005K test cement</i>
	<i>300</i>		<i>48</i>	<i>5</i>	<i>mix 2005K test cement</i>
					<i>Shut down</i>
					<i>Release plug</i>
	<i>300</i>		<i>0</i>	<i>5</i>	<i>Start displacement</i>
	<i>300</i>		<i>52</i>	<i>3</i>	<i>slow RST</i>
	<i>300</i>		<i>62</i>	<i>3</i>	<i>Bump plug - Did not Bump</i>
					<i>Shut in</i>
					<i>Cement did circulate</i>
					<i>Job complete / Doing a crew</i>
					<i>Thank you!!!</i>



acct.
Prod-MG
BASIC
ENERGY SERVICES

PAGE 1 of 1	CUST NO 1002852	YARD # 1718	INVOICE DATE 09/16/2014
INVOICE NUMBER 91595458			

Pratt (620) 672-1201

B MURFIN DRILLING
I PO Box: 288
L RUSSELL
L KS US 67665
T
O **ATTN:** ACCOUNTS PAYABLE

J **LEASE NAME** WNRB 1-12
O **LOCATION**
B
S **COUNTY** Pawnee
I **STATE** KS
T **JOB DESCRIPTION** Cement-New Well Casing/Pi
E **JOB CONTACT**

JOB # 40765860	EQUIPMENT # 19843	PURCHASE ORDER NO.	TERMS Net - 30 days	DUE DATE 10/16/2014
--------------------------	-----------------------------	---------------------------	-------------------------------	-------------------------------

For Service Dates: 09/13/2014 to 09/13/2014

0040765860

171811321A Cement-New Well Casing/Pi 09/13/2014
Cement P.T.A.

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
60/40 POZ	220.00	EA	9.24	2,032.51 T
Cement Gel	380.00	EA	0.19	73.14 T
"Unit Mileage Chg (PU, cars one way)"	75.00	MI	3.27	245.40
Heavy Equipment Mileage	150.00	MI	5.39	808.38
"Proppant & Bulk Del. Chgs., per ton mil	713.00	EA	1.69	1,207.65
Depth Charge; 1001'-2000'	1.00	EA	1,154.83	1,154.83
Blending & Mixing Service Charge	220.00	BAG	1.08	237.13
"Service Supervisor, first 8 hrs on loc.	1.00	EA	134.73	134.73

USED FOR *Drilling PA*
APPROVED *[Signature]*

PLEASE REMIT TO: BASIC ENERGY SERVICES, LP PO BOX 841903 DALLAS, TX 75284-1903	SEND OTHER CORRESPONDENCE TO: BASIC ENERGY SERVICES, LP 801 CHERRY ST, STE 2100 FORT WORTH, TX 76102	SUB TOTAL TAX INVOICE TOTAL	5,893.77 171.61 6,065.38
--	--	--	---

MJR



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 11321 A

DATE _____ TICKET NO. _____

DATE OF JOB: 9-15-14		DISTRICT		NEW WELL <input type="checkbox"/>		OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/>		INJ <input type="checkbox"/>		WDW <input type="checkbox"/>		CUSTOMER ORDER NO.	
CUSTOMER: <i>Walter</i>				LEASE: <i>6-11-11</i>				WELL NO.							
ADDRESS				COUNTY: <i>Pratt</i>				STATE: <i>KS</i>							
CITY				STATE				SERVICE CREW: <i>...</i>							
AUTHORIZED BY: <i>...</i>				JOB TYPE: <i>...</i>											
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME					
<i>3806</i>	<i>6.5</i>					ARRIVED AT JOB:	<i>9-15-14</i>			<i>7:00</i>					
<i>1059</i>	<i>1.5</i>					START OPERATION:	<i>9-15-14</i>			<i>7:52</i>					
						FINISH OPERATION:	<i>9-15-14</i>			<i>9:25</i>					
						RELEASED:	<i>9-15-14</i>			<i>11:11</i>					
						MILES FROM STATION TO WELL									

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

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SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<i>1110</i>	<i>1000 PWT</i>	<i>EA</i>	<i>276</i>		<i>2110.00</i>
<i>1111</i>	<i>Concrete Pad</i>	<i>EA</i>	<i>2</i>		<i>46.00</i>
<i>1112</i>	<i>1/2" x 1/2" x 1/2" ...</i>	<i>EA</i>	<i>72</i>		<i>315.75</i>
<i>1113</i>	<i>...</i>	<i>EA</i>	<i>100</i>		<i>1050.00</i>
<i>1114</i>	<i>...</i>	<i>EA</i>	<i>213</i>		<i>1567.50</i>
<i>1115</i>	<i>...</i>	<i>EA</i>	<i>1</i>		<i>1500.00</i>
<i>1116</i>	<i>...</i>	<i>EA</i>	<i>2</i>		<i>305.00</i>
<i>1117</i>	<i>...</i>	<i>EA</i>	<i>1</i>		<i>175.00</i>
SUB TOTAL					

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<i>...</i>

SERVICE REPRESENTATIVE	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:
	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

WNRB #1-12
 Daily Drilling Report
 Page Two

MDCI WNRB #1-12 330 FNL 990 FWL Sec. 12-T21S-R19W 2124' KB							Harter Earl M JR Mezger #1 12-T21S-R19W NW NE NE 2127' KB	
Formation	Sample Top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	1242	+882	+3	1240	+884	+5	1248	+879
B/Anhydrite	1265	+859	+2	1262	+862	+5	1270	+857
Topeka	3308	-1184	+15	3318	-1194	+5	3326	-1199
Heebner	3650	-1526	+3	3649	-1525	+4	3656	-1529
Lansing	3703	-1579	+5	3703	-1579	+5	3711	-1584
BKC	4018	-1894	+9	4018	-1894	+9	4030	-1903
Pawnee	4114	-1990	+15	4116	-1992	+14	4132	-2005
Cherokee	4188	-2064	+21	4189	-2065	+20	4212	-2085
Mississippi	4251	-2127	+9	4255	-2131	+5	4263	-2136
RTD	4370						4288	-2161
LTD				4373				