



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1219863
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: _____

1219863

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
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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	Jones 'A' 3-17
Doc ID	1219863

All Electric Logs Run

DIL
DUCP
MEL
BHCS



DRILL STEM TEST REPORT

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

250 N Water Suite 300
Wichita, KS 67202

ATTN: Bob Stolze

Jones 'A' #3-17

17-15s-37w Cheyenne,KS

Start Date: 2014.07.08 @ 23:06:00

End Date: 2014.07.09 @ 06:56:50

Job Ticket #: 57184 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.17 @ 14:30:55

Murfin Drilling Co., Inc.

17-15s-37w Cheyenne,KS

Jones 'A' #3-17

DST # 1

Stotter Ls

2014.07.08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N Water Suite 300
Wichita, KS 67202
ATTN: Bob Stolzle

17-15s-37w Cheyenne,KS
Jones 'A' #3-17
Job Ticket: 57184 **DST#: 1**
Test Start: 2014.07.08 @ 23:06:00

GENERAL INFORMATION:

Formation: **Stotler Ls**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:49:10
Time Test Ended: 06:56:50
Test Type: Conventional Bottom Hole (Initial)
Tester: Chuck Smith
Unit No: 62
Interval: **3799.00 ft (KB) To 3865.00 ft (KB) (TVD)**
Reference Elevations: 3141.00 ft (KB)
Total Depth: 3865.00 ft (KB) (TVD) 3136.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

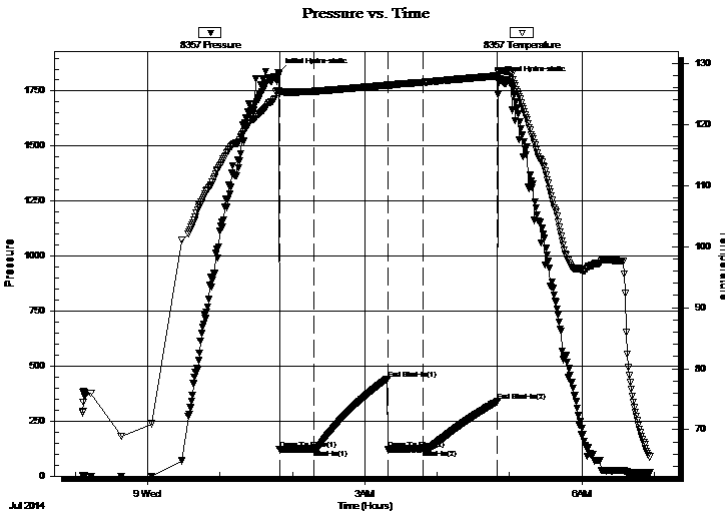
Serial #: 8357

Inside

Press@RunDepth: 123.80 psig @ 3800.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.07.08 End Date: 2014.07.09 Last Calib.: 2014.07.09
Start Time: 23:06:02 End Time: 06:56:49 Time On Btm: 2014.07.09 @ 01:48:20
Time Off Btm: 2014.07.09 @ 04:50:50

TEST COMMENT: 30- Packer seat failed, reset tool, tool slid 8-10', 2" blow died @ 12 min.
60- No return.
30- No blow .
60- No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1832.81	125.47	Initial Hydro-static
1	122.89	125.00	Open To Flow (1)
30	123.84	125.42	Shut-In(1)
91	442.32	126.42	End Shut-In(1)
91	122.47	126.31	Open To Flow (2)
121	123.80	126.87	Shut-In(2)
182	340.17	127.93	End Shut-In(2)
183	1797.80	128.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	M 100m Some oil spots in tool with odor	1.25

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N Water Suite 300
Wichita, KS 67202

ATTN: Bob Stolzle

17-15s-37w Cheyenne,KS

Jones 'A' #3-17

Job Ticket: 57184

DST#: 1

Test Start: 2014.07.08 @ 23:06:00

GENERAL INFORMATION:

Formation:	Stotler Ls		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened:	01:49:10		Tester: Chuck Smith
Time Test Ended:	06:56:50		Unit No: 62
Interval:	3799.00 ft (KB) To 3865.00 ft (KB) (TVD)		Reference Elevations: 3141.00 ft (KB)
Total Depth:	3865.00 ft (KB) (TVD)		3136.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Good	KB to GR/CF: 5.00 ft

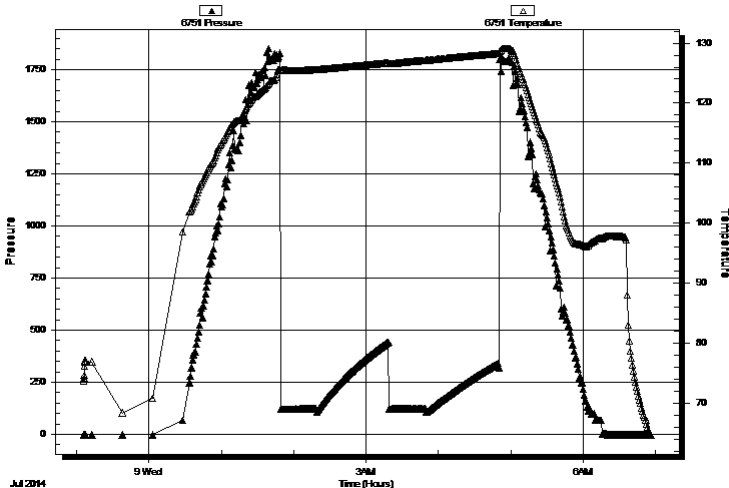
Serial #: 6751

Outside

Press@RunDepth:	psig @	3800.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2014.07.08	End Date:	2014.07.09	Last Calib.:	2014.07.09
Start Time:	23:05:52	End Time:	06:56:39	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: 30- Packer seat failed, reset tool, tool slid 8-10', 2" blow died @ 12 min.
 60- No return.
 30- No blow .
 60- No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
210.00	M 100m Some oil spots in tool with odor	1.25

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

17-15s-37w Cheyenne,KS

250 N Water Suite 300
Wichita, KS 67202

Jones 'A' #3-17

Job Ticket: 57184

DST#: 1

ATTN: Bob Stolzle

Test Start: 2014.07.08 @ 23:06:00

Tool Information

Drill Pipe:	Length: 3604.00 ft	Diameter: 3.82 inches	Volume: 51.09 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 52.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.50 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3799.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	93.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3772.50	
Shut In Tool	5.00			3777.50	
Hydraulic tool	5.00			3782.50	
Jars	5.00			3787.50	
Safety Joint	2.50			3790.00	
Packer	5.00			3795.00	27.50 Bottom Of Top Packer
Packer	4.00			3799.00	
Stubb	1.00			3800.00	
Recorder	0.00	8357	Inside	3800.00	
Recorder	0.00	6751	Outside	3800.00	
Perforations	29.00			3829.00	
Change Over Sub	1.00			3830.00	
Drill Pipe	31.00			3861.00	
Change Over Sub	1.00			3862.00	
Bullnose	3.00			3865.00	66.00 Bottom Packers & Anchor

Total Tool Length: 93.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

17-15s-37w Cheyenne,KS

250 N Water Suite 300
Wichita, KS 67202

Jones 'A' #3-17

Job Ticket: 57184

DST#: 1

ATTN: Bob Stolzle

Test Start: 2014.07.08 @ 23:06:00

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: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
210.00	M 100m Some oil spots in tool w ith odor	1.255

Total Length: 210.00 ft Total Volume: 1.255 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

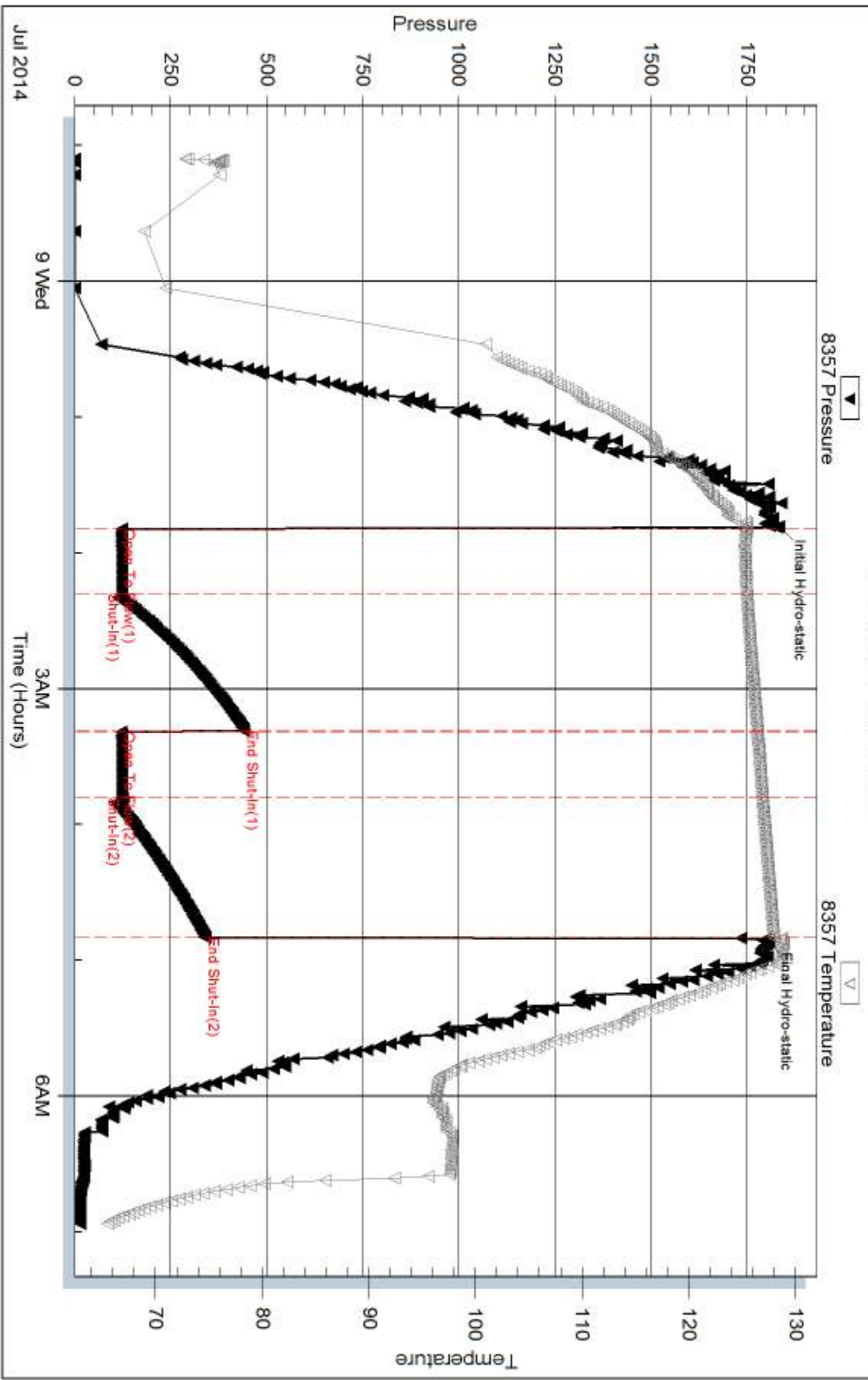
Serial #:

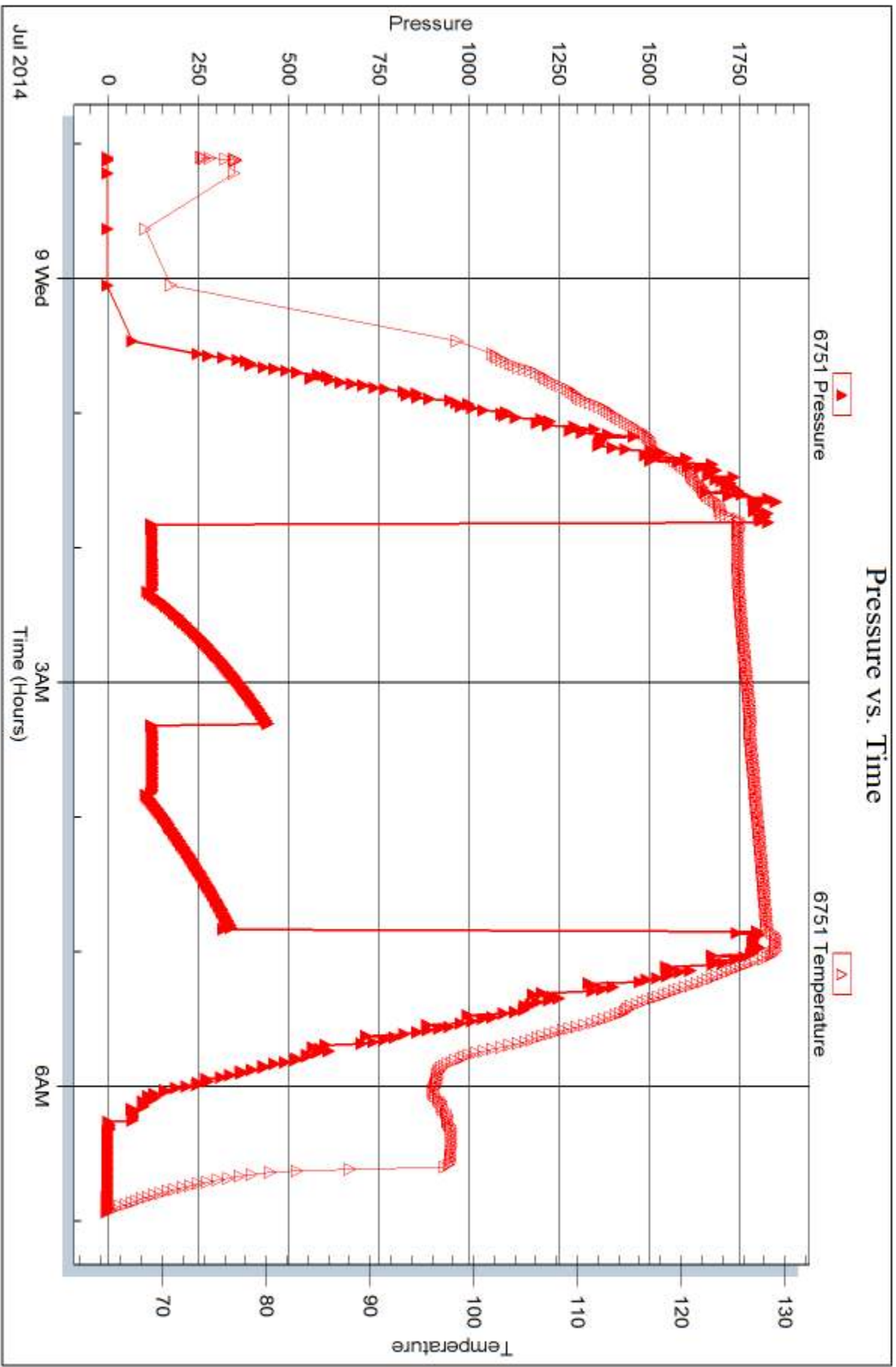
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

250 N Water Suite 300
Wichita, KS 67202

ATTN: Bob Stolzle

Jones 'A' #3-17

17-15s-37w Cheyenne,KS

Start Date: 2014.07.10 @ 04:43:00

End Date: 2014.07.10 @ 12:49:30

Job Ticket #: 57185 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.17 @ 14:30:34

Murfin Drilling Co., Inc.
17-15s-37w Cheyenne,KS
Jones 'A' #3-17
DST # 2
LKC 'A'
2014.07.10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N Water Suite 300
Wichita, KS 67202
ATTN: Bob Stolzle

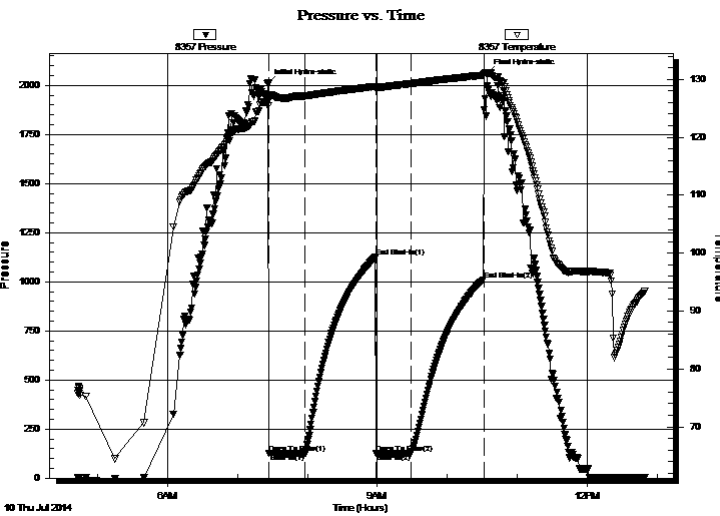
17-15s-37w Cheyenne,KS
Jones 'A' #3-17
Job Ticket: 57185 **DST#: 2**
Test Start: 2014.07.10 @ 04:43:00

GENERAL INFORMATION:

Formation: **LKC 'A'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:27:00
Time Test Ended: 12:49:30
Interval: **4048.00 ft (KB) To 4130.00 ft (KB) (TVD)**
Total Depth: 4130.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Smith
Unit No: 62
Reference Elevations: 3141.00 ft (KB)
3136.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8357 Inside
Press@RunDepth: 124.92 psig @ 4049.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.07.10 End Date: 2014.07.10 Last Calib.: 2014.07.10
Start Time: 04:43:02 End Time: 12:49:30 Time On Btm: 2014.07.10 @ 07:25:40
Time Off Btm: 2014.07.10 @ 10:33:40

TEST COMMENT: Tool opened and slid 20', 10" blow died @ 10 min.
No return.
No blow.
No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2008.93	125.97	Initial Hydro-static
2	125.08	126.45	Open To Flow (1)
32	124.67	127.10	Shut-In(1)
93	1125.19	128.79	End Shut-In(1)
93	126.72	128.46	Open To Flow (2)
123	124.92	129.26	Shut-In(2)
186	1011.17	130.73	End Shut-In(2)
188	2061.68	130.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	OSM 100m	0.30
124.00	SGOCM 1g 1o 98m	0.61
20.00	GOCM 2g 3o 95m	0.27

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N Water Suite 300
Wichita, KS 67202
ATTN: Bob Stolzle

17-15s-37w Cheyenne, KS

Jones 'A' #3-17

Job Ticket: 57185 **DST#: 2**

Test Start: 2014.07.10 @ 04:43:00

GENERAL INFORMATION:

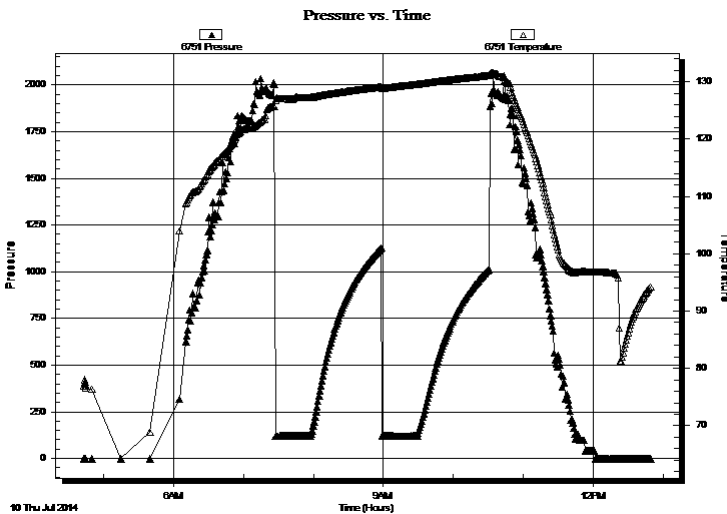
Formation: **LKC 'A'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:27:00
 Time Test Ended: 12:49:30
 Interval: **4048.00 ft (KB) To 4130.00 ft (KB) (TVD)**
 Total Depth: 4130.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Smith
 Unit No: 62
 Reference Elevations: 3141.00 ft (KB)
 3136.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6751

Outside

Press@RunDepth: psig @ 4049.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.10 End Date: 2014.07.10 Last Calib.: 2014.07.10
 Start Time: 04:43:02 End Time: 12:49:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: Tool opened and slid 20', 10" blow died @ 10 min.
 No return.
 No blow .
 No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
61.00	OSM 100m	0.30
124.00	SGOCM 1g 1o 98m	0.61
20.00	GOCM 2g 3o 95m	0.27

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

17-15s-37w Cheyenne,KS

250 N Water Suite 300
Wichita, KS 67202

Jones 'A' #3-17

Job Ticket: 57185

DST#: 2

ATTN: Bob Stolzle

Test Start: 2014.07.10 @ 04:43:00

Tool Information

Drill Pipe:	Length: 3852.00 ft	Diameter: 3.82 inches	Volume: 54.60 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 55.51 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.50 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4048.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	109.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4021.50	
Shut In Tool	5.00			4026.50	
Hydraulic tool	5.00			4031.50	
Jars	5.00			4036.50	
Safety Joint	2.50			4039.00	
Packer	5.00			4044.00	27.50 Bottom Of Top Packer
Packer	4.00			4048.00	
Stubb	1.00			4049.00	
Recorder	0.00	8357	Inside	4049.00	
Recorder	0.00	6751	Outside	4049.00	
Perforations	13.00			4062.00	
Change Over Sub	1.00			4063.00	
Drill Pipe	63.00			4126.00	
Change Over Sub	1.00			4127.00	
Bullnose	3.00			4130.00	82.00 Bottom Packers & Anchor

Total Tool Length: 109.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

17-15s-37w Cheyenne, KS

250 N Water Suite 300
Wichita, KS 67202

Jones 'A' #3-17

Job Ticket: 57185

DST#: 2

ATTN: Bob Stolzle

Test Start: 2014.07.10 @ 04:43:00

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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
61.00	OSM 100m	0.300
124.00	SGOCM 1g 1o 98m	0.610
20.00	GOCM 2g 3o 95m	0.274

Total Length: 205.00 ft Total Volume: 1.184 bbl

Num Fluid Samples: 0

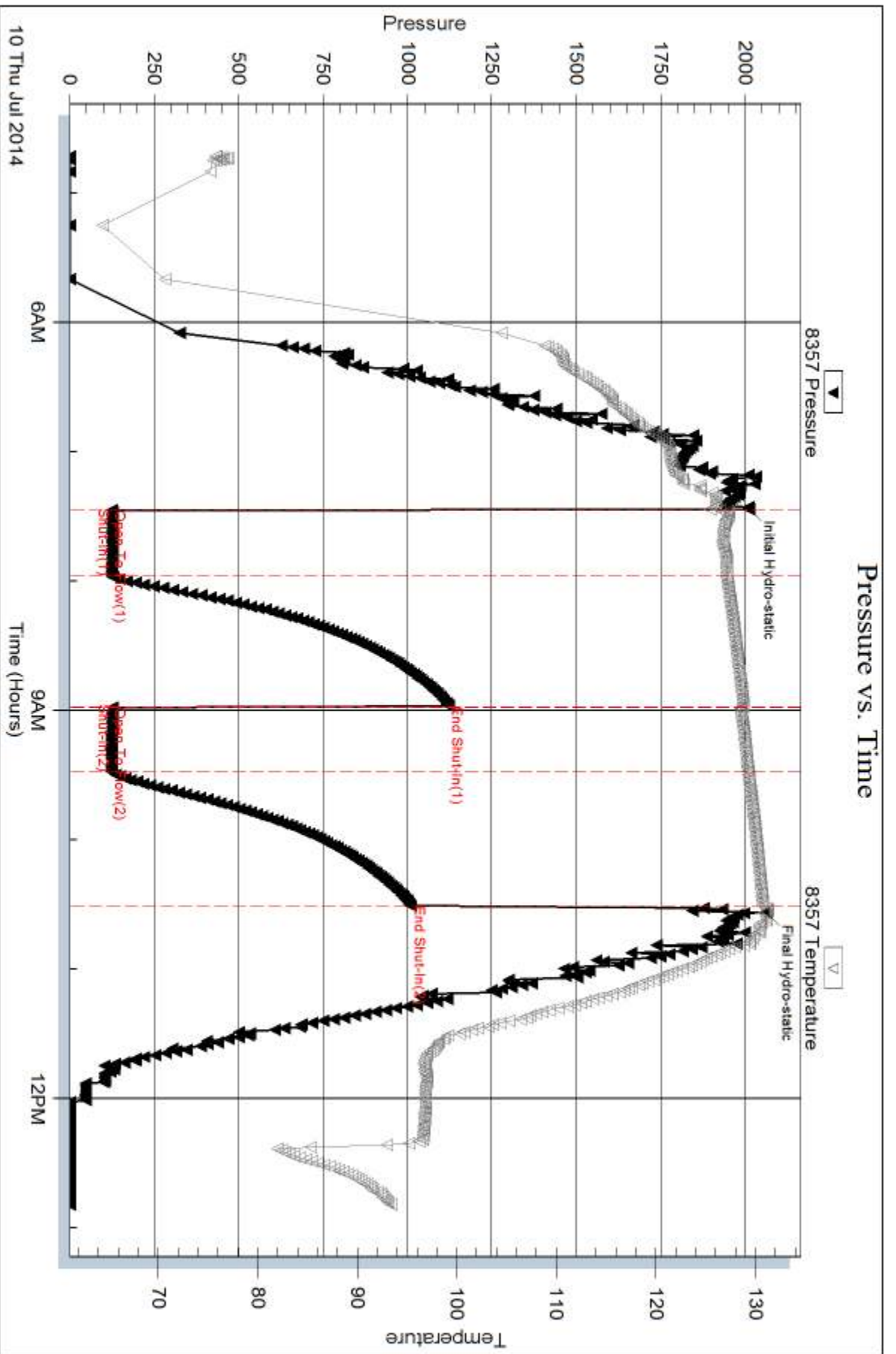
Num Gas Bombs: 0

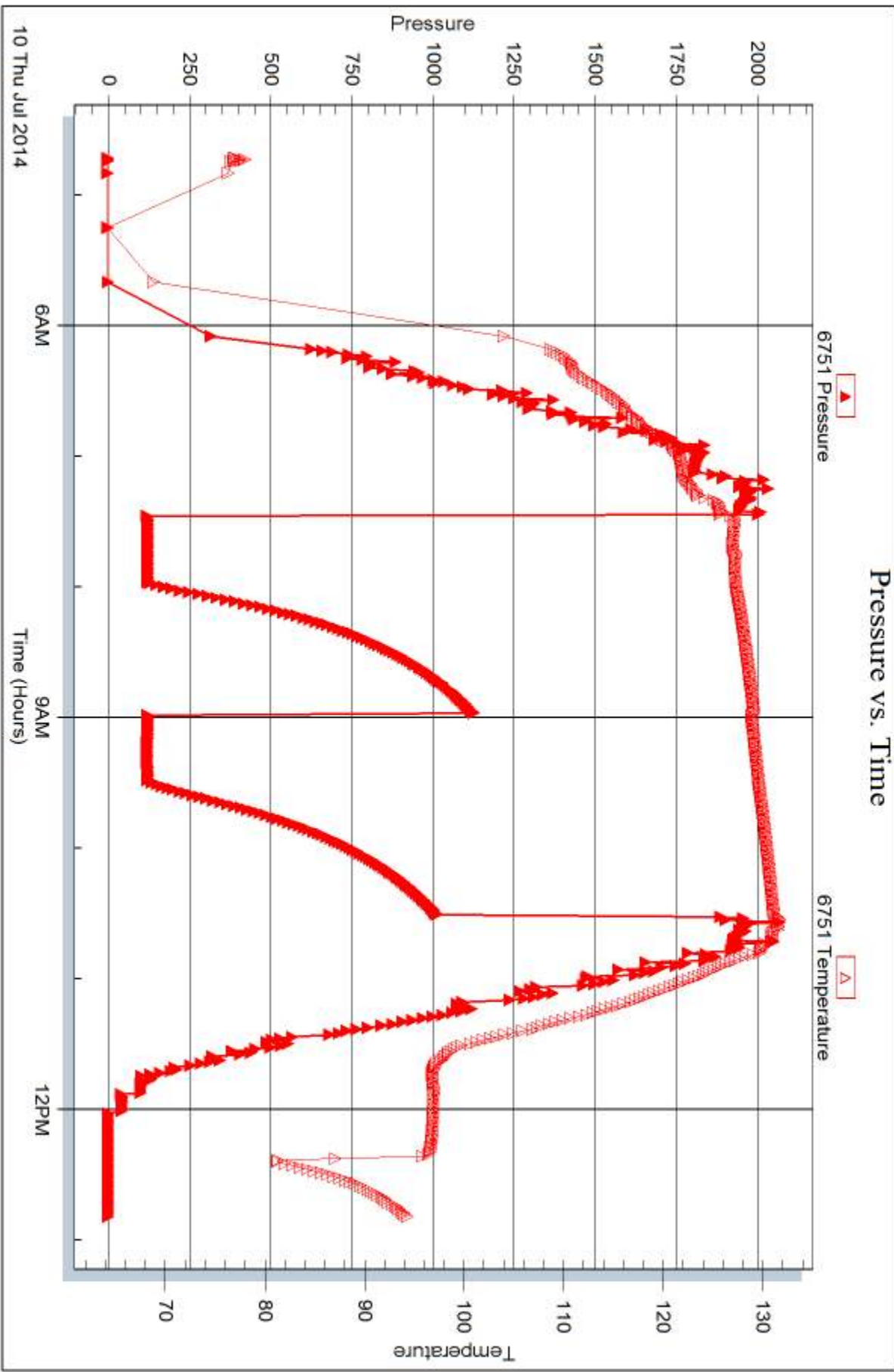
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

250 N Water Suite 300
Wichita, KS 67202

ATTN: Bob Stolze

Jones 'A' #3-17

17-15s-37w Cheyenne,KS

Start Date: 2014.07.10 @ 21:11:00

End Date: 2014.07.11 @ 06:10:10

Job Ticket #: 57186 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.17 @ 14:30:12

Murfin Drilling Co., Inc.
17-15s-37w Cheyenne,KS
Jones 'A' #3-17
DST # 3
LKC 'A-D'
2014.07.10



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
 250 N Water Suite 300
 Wichita, KS 67202
 ATTN: Bob Stolzle

17-15s-37w Cheyenne, KS

Jones 'A' #3-17

Job Ticket: 57186 **DST#: 3**
 Test Start: 2014.07.10 @ 21:11:00

GENERAL INFORMATION:

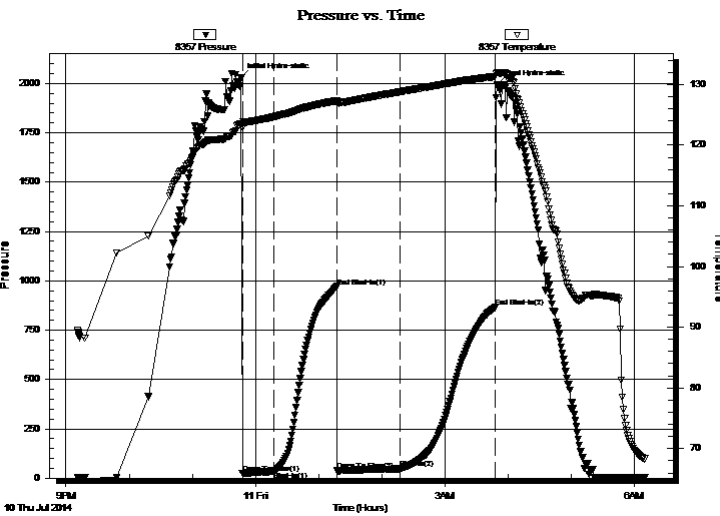
Formation: **LKC 'A-D'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:47:20
 Time Test Ended: 06:10:10
 Interval: **4105.00 ft (KB) To 4180.00 ft (KB) (TVD)**
 Total Depth: 4180.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Smith
 Unit No: 62
 Reference Elevations: 3141.00 ft (KB)
 3136.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8357

Inside

Press@RunDepth: 47.44 psig @ 4106.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.10 End Date: 2014.07.11 Last Calib.: 2014.07.11
 Start Time: 21:11:02 End Time: 06:10:10 Time On Btm: 2014.07.10 @ 23:46:10
 Time Off Btm: 2014.07.11 @ 03:49:10

TEST COMMENT: 1 1/2" Blow . Tool slid 5' w hile still closed.
 No return.
 1/2" Blow .
 No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2029.00	123.59	Initial Hydro-static
2	23.13	122.91	Open To Flow (1)
32	33.40	124.67	Shut-In(1)
91	971.28	127.32	End Shut-In(1)
92	37.42	127.06	Open To Flow (2)
151	47.44	128.79	Shut-In(2)
242	866.24	131.30	End Shut-In(2)
243	1994.62	131.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	OCM 35o 65m	0.30

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
 250 N Water Suite 300
 Wichita, KS 67202
 ATTN: Bob Stolzle

17-15s-37w Cheyenne, KS
Jones 'A' #3-17
 Job Ticket: 57186 **DST#: 3**
 Test Start: 2014.07.10 @ 21:11:00

GENERAL INFORMATION:

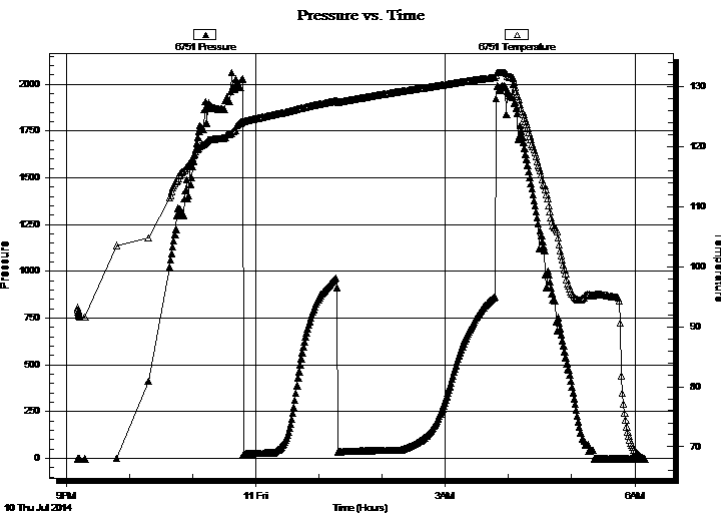
Formation: **LKC 'A-D'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:47:20
 Time Test Ended: 06:10:10
 Interval: **4105.00 ft (KB) To 4180.00 ft (KB) (TVD)**
 Total Depth: 4180.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Smith
 Unit No: 62
 Reference Elevations: 3141.00 ft (KB)
 3136.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6751

Outside

Press@RunDepth: psig @ 4106.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.10 End Date: 2014.07.11 Last Calib.: 2014.07.11
 Start Time: 21:10:52 End Time: 06:10:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 1 1/2" Blow . Tool slid 5' w hile still closed.
 No return.
 1/2" Blow .
 No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
62.00	OCM 35o 65m	0.30

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

17-15s-37w Cheyenne,KS

250 N Water Suite 300
Wichita, KS 67202

Jones 'A' #3-17

Job Ticket: 57186

DST#: 3

ATTN: Bob Stolzle

Test Start: 2014.07.10 @ 21:11:00

Tool Information

Drill Pipe:	Length: 3910.00 ft	Diameter: 3.82 inches	Volume: 55.43 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 56.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.50 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4105.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	102.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4078.50	
Shut In Tool	5.00			4083.50	
Hydraulic tool	5.00			4088.50	
Jars	5.00			4093.50	
Safety Joint	2.50			4096.00	
Packer	5.00			4101.00	27.50 Bottom Of Top Packer
Packer	4.00			4105.00	
Stubb	1.00			4106.00	
Recorder	0.00	8357	Inside	4106.00	
Recorder	0.00	6751	Outside	4106.00	
Perforations	6.00			4112.00	
Change Over Sub	1.00			4113.00	
Drill Pipe	63.00			4176.00	
Change Over Sub	1.00			4177.00	
Bullnose	3.00			4180.00	75.00 Bottom Packers & Anchor

Total Tool Length: 102.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

17-15s-37w Cheyenne,KS

250 N Water Suite 300
Wichita, KS 67202

Jones 'A' #3-17

Job Ticket: 57186

DST#: 3

ATTN: Bob Stolzle

Test Start: 2014.07.10 @ 21:11:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	OCM 35o 65m	0.305

Total Length: 62.00 ft Total Volume: 0.305 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

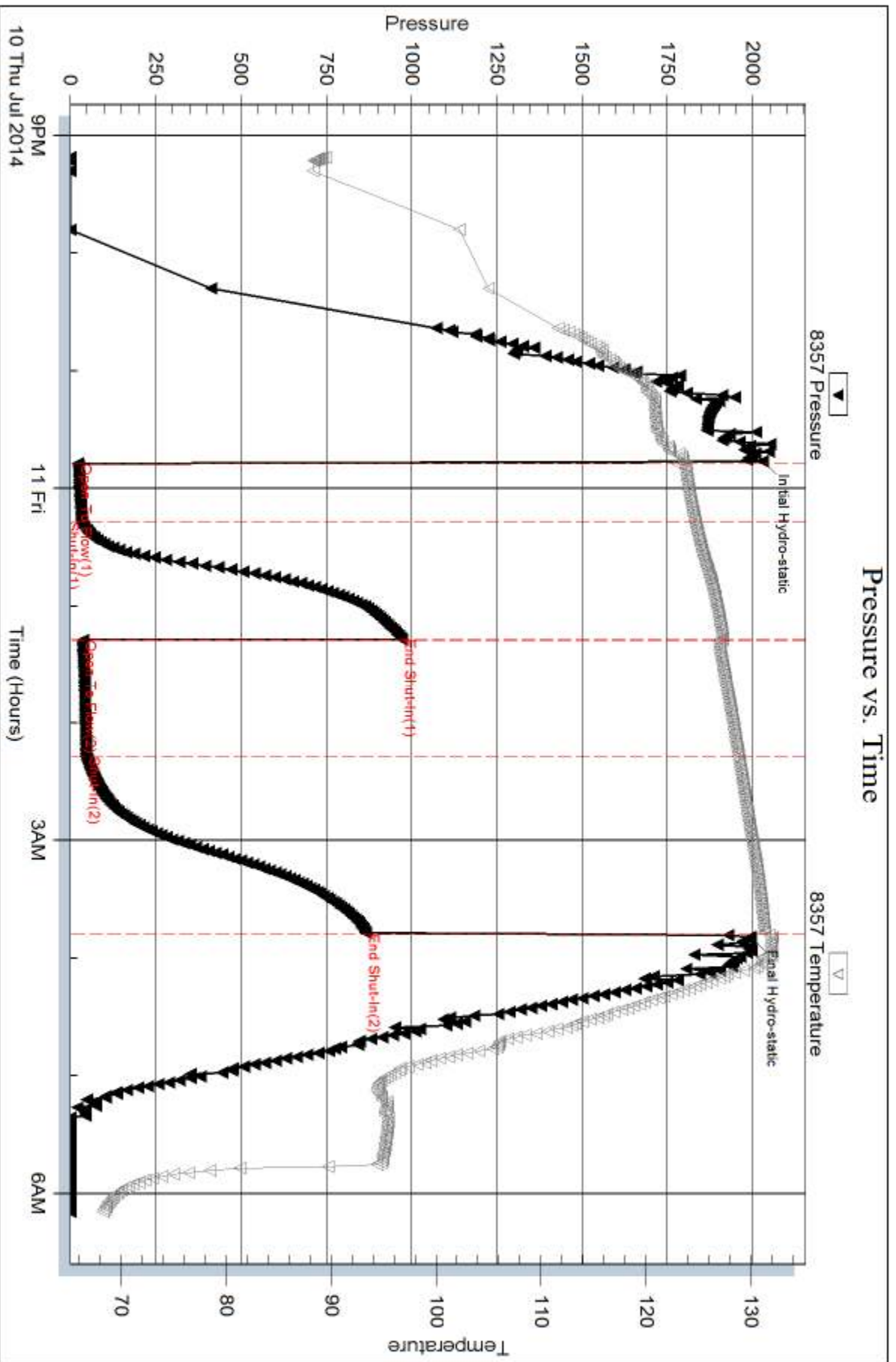
Serial #:

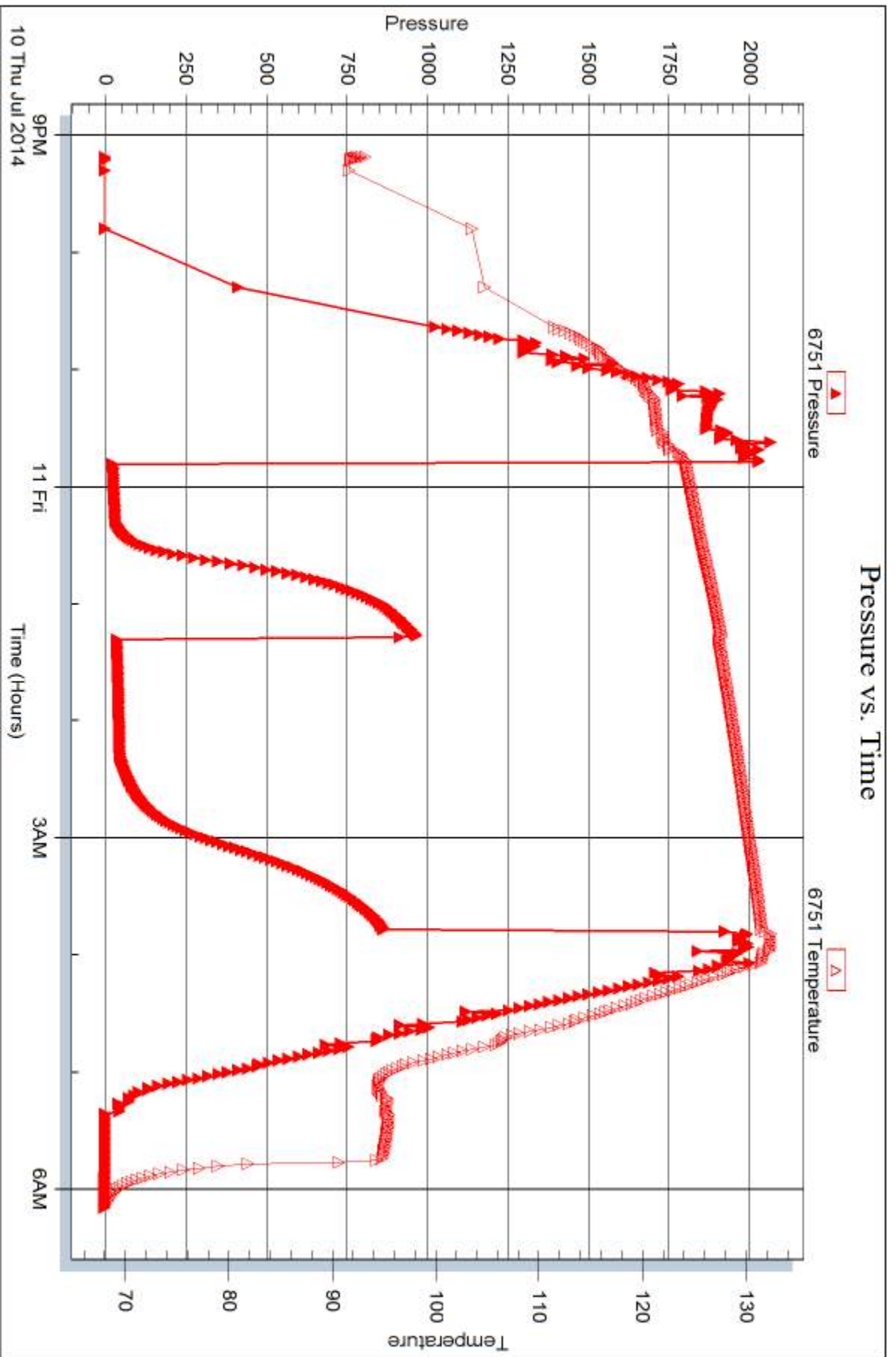
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

250 N Water Suite 300
Wichita, KS 67202

ATTN: Bob Stolzle

Jones 'A' #3-17

17-15s-37w Cheyenne,KS

Start Date: 2014.07.11 @ 23:18:00

End Date: 2014.07.12 @ 07:14:00

Job Ticket #: 58270 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.17 @ 14:29:44



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N Water Suite 300
Wichita, KS 67202
ATTN: Bob Stolzle

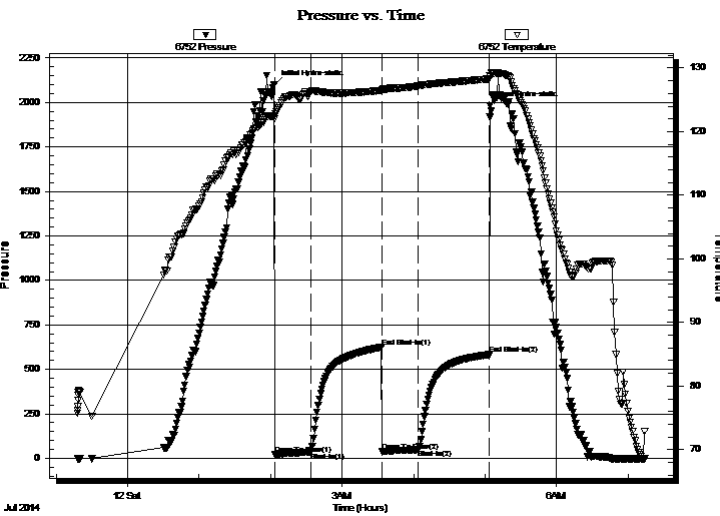
17-15s-37w Cheyenne,KS
Jones 'A' #3-17
Job Ticket: 58270 **DST#: 4**
Test Start: 2014.07.11 @ 23:18:00

GENERAL INFORMATION:

Formation: **LKC " G - J "**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 02:03:30 Tester: Ryan Nichols
Time Test Ended: 07:14:00 Unit No: 78
Interval: 4172.00 ft (KB) To 4330.00 ft (KB) (TVD) Reference Elevations: 3141.00 ft (KB)
Total Depth: 4330.00 ft (KB) (TVD) 3136.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 6752 Inside
Press@RunDepth: 49.36 psig @ 4173.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.07.11 End Date: 2014.07.12 Last Calib.: 2014.07.12
Start Time: 23:18:01 End Time: 07:14:00 Time On Btm: 2014.07.12 @ 02:03:10
Time Off Btm: 2014.07.12 @ 05:04:09

TEST COMMENT: 30 IF - 1" blow built to 1 1/4" @ 20 mins died back to 1"
60 ISI - No return
30 FF - No blow
60 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2101.90	122.45	Initial Hydro-static
1	20.55	122.08	Open To Flow (1)
31	35.68	126.25	Shut-In(1)
90	625.72	126.47	End Shut-In(1)
91	38.03	126.33	Open To Flow (2)
121	49.36	127.16	Shut-In(2)
181	583.50	128.29	End Shut-In(2)
181	1981.99	128.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	Mud 100%M	0.30

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

17-15s-37w Cheyenne, KS

250 N Water Suite 300
Wichita, KS 67202

Jones 'A' #3-17

ATTN: Bob Stolzle

Job Ticket: 58270

DST#: 4

Test Start: 2014.07.11 @ 23:18:00

GENERAL INFORMATION:

Formation: **LKC "G - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:03:30

Time Test Ended: 07:14:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 4172.00 ft (KB) To 4330.00 ft (KB) (TVD)

Reference Elevations: 3141.00 ft (KB)

Total Depth: 4330.00 ft (KB) (TVD)

3136.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: psig @ 4173.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.11 End Date: 2014.07.12

Last Calib.: 2014.07.12

Start Time: 23:18:01 End Time: 07:14:00

Time On Btm:

Time Off Btm:

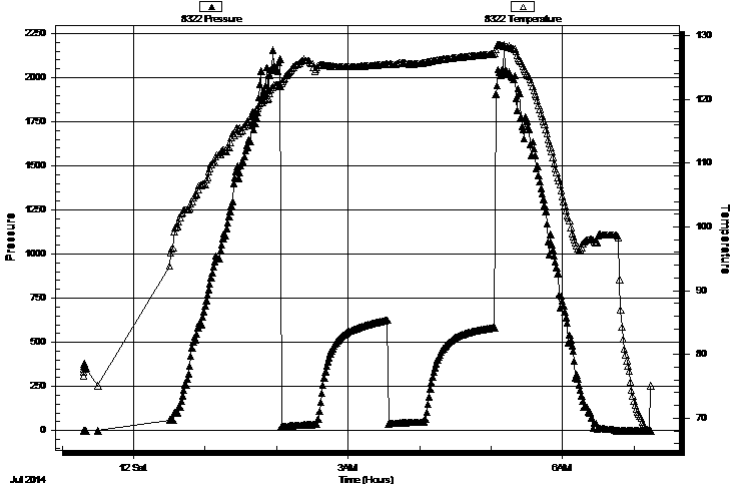
TEST COMMENT: 30 IF - 1" blow built to 1 1/4" @ 20 mins died back to 1"

60 ISI - No return

30 FF - No blow

60 FSI - No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
62.00	Mud 100%M	0.30

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

17-15s-37w Cheyenne,KS

250 N Water Suite 300
Wichita, KS 67202

Jones 'A' #3-17

Job Ticket: 58270

DST#: 4

ATTN: Bob Stolzle

Test Start: 2014.07.11 @ 23:18:00

Tool Information

Drill Pipe:	Length: 3976.00 ft	Diameter: 3.82 inches	Volume: 56.36 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 57.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4172.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	158.00 ft			
Tool Length:	185.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4146.00	
Shut In Tool	5.00			4151.00	
Hydraulic tool	5.00			4156.00	
Jars	5.00			4161.00	
Safety Joint	2.00			4163.00	
Packer	5.00			4168.00	27.00 Bottom Of Top Packer
Packer	4.00			4172.00	
Stubb	1.00			4173.00	
Recorder	0.00	6752	Inside	4173.00	
Recorder	0.00	8322	Outside	4173.00	
Perforations	26.00			4199.00	
Change Over Sub	1.00			4200.00	
Drill Pipe	126.00			4326.00	
Change Over Sub	1.00			4327.00	
Bullnose	3.00			4330.00	158.00 Bottom Packers & Anchor

Total Tool Length: 185.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

17-15s-37w Cheyenne,KS

250 N Water Suite 300
Wichita, KS 67202

Jones 'A' #3-17

Job Ticket: 58270

DST#: 4

ATTN: Bob Stolzle

Test Start: 2014.07.11 @ 23:18:00

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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	Mud 100%M	0.305

Total Length: 62.00 ft Total Volume: 0.305 bbl

Num Fluid Samples: 0

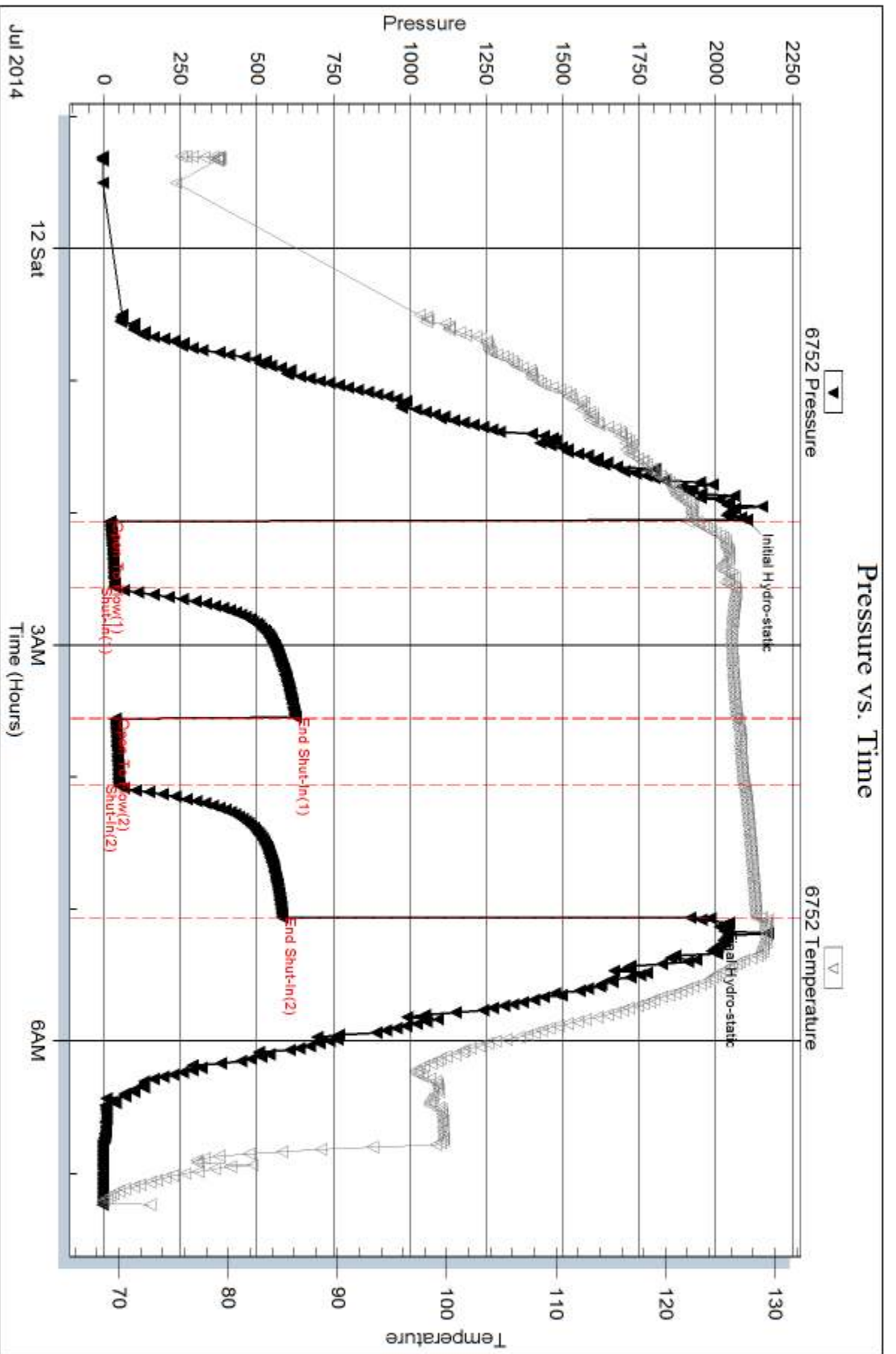
Num Gas Bombs: 0

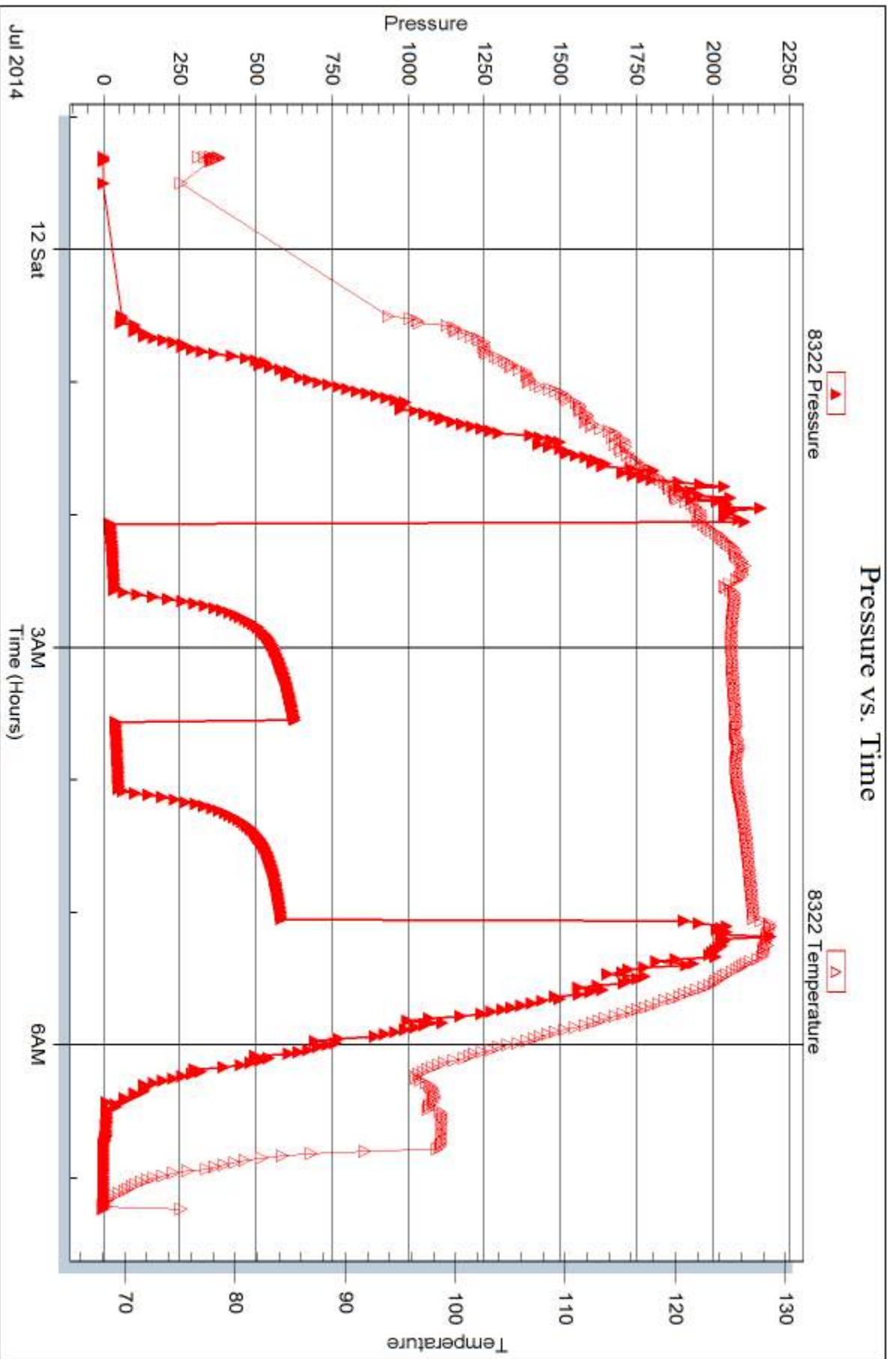
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

250 N Water Suite 300
Wichita, KS 67202

ATTN: Bob Stolzle

Jones 'A' #3-17

17-15s-37w Cheyenne,KS

Start Date: 2014.07.13 @ 03:50:00

End Date: 2014.07.13 @ 12:17:39

Job Ticket #: 58271 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.17 @ 14:29:07

Murfin Drilling Co., Inc.

17-15s-37w Cheyenne,KS

Jones 'A' #3-17

DST # 5

Upper Pawnee LS.

2014.07.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N Water Suite 300
Wichita, KS 67202
ATTN: Bob Stolzle

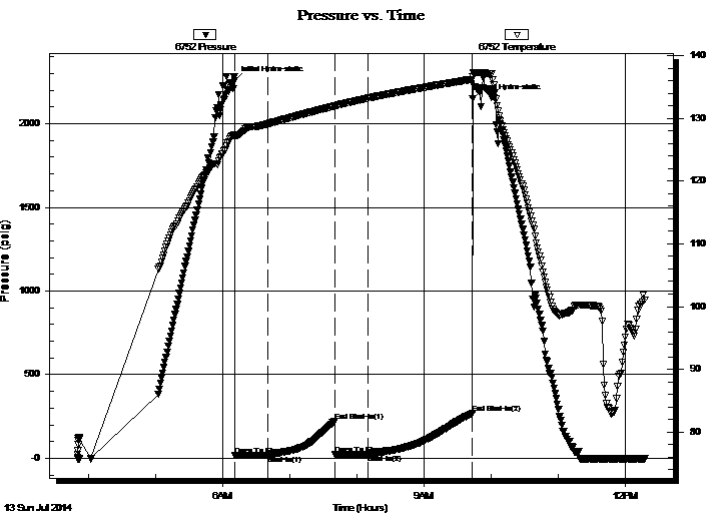
17-15s-37w Cheyenne, KS
Jones 'A' #3-17
Job Ticket: 58271 **DST#: 5**
Test Start: 2014.07.13 @ 03:50:00

GENERAL INFORMATION:

Formation: **Upper Pawnee LS.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:10:50
Time Test Ended: 12:17:39
Interval: **4475.00 ft (KB) To 4525.00 ft (KB) (TVD)**
Total Depth: 4525.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Ryan Nichols
Unit No: 78
Reference Elevations: 3141.00 ft (KB)
3136.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6752 Inside
Press@RunDepth: 22.74 psig @ 4476.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.07.13 End Date: 2014.07.13 Last Calib.: 2014.07.13
Start Time: 03:50:01 End Time: 12:17:40 Time On Btm: 2014.07.13 @ 06:10:20
Time Off Btm: 2014.07.13 @ 09:43:20

TEST COMMENT: 30 IF - 1/4" blow built to 1"
60 ISI - No return
30 FF - No blow
90 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2258.08	127.43	Initial Hydro-static
1	16.40	127.12	Open To Flow (1)
30	19.83	129.15	Shut-In(1)
90	222.40	131.99	End Shut-In(1)
90	21.54	131.94	Open To Flow (2)
120	22.74	133.26	Shut-In(2)
213	268.67	136.26	End Shut-In(2)
213	2151.25	136.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM - 30%o - 70%M	0.05

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

17-15s-37w Cheyenne, KS

250 N Water Suite 300
Wichita, KS 67202

Jones 'A' #3-17

Job Ticket: 58271

DST#: 5

ATTN: Bob Stolzle

Test Start: 2014.07.13 @ 03:50:00

GENERAL INFORMATION:

Formation: **Upper Pawnee LS.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:10:50

Time Test Ended: 12:17:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: **4475.00 ft (KB) To 4525.00 ft (KB) (TVD)**

Reference Elevations: 3141.00 ft (KB)

Total Depth: 4525.00 ft (KB) (TVD)

3136.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: psig @ 4476.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.13

End Date:

2014.07.13

Last Calib.:

2014.07.13

Start Time: 03:50:01

End Time:

12:17:40

Time On Btm:

Time Off Btm:

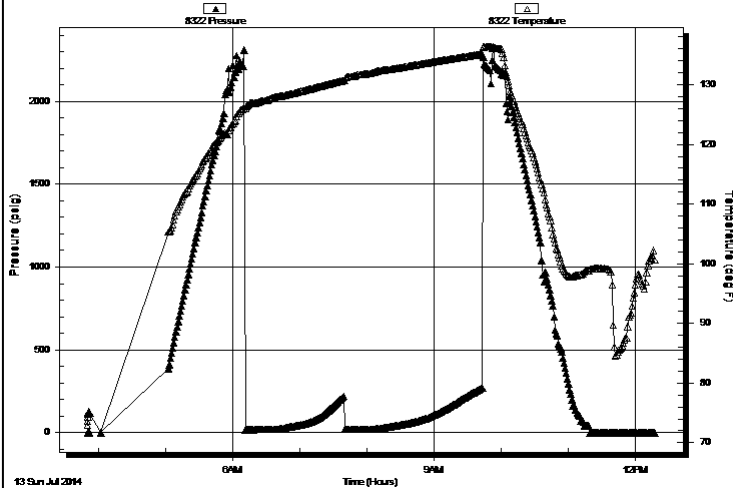
TEST COMMENT: 30 IF - 1/4" blow built to 1"

60 ISI - No return

30 FF - No blow

90 FSI - No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM - 30%o - 70%M	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

17-15s-37w Cheyenne,KS

250 N Water Suite 300
Wichita, KS 67202

Jones 'A' #3-17

Job Ticket: 58271

DST#: 5

ATTN: Bob Stolzle

Test Start: 2014.07.13 @ 03:50:00

Tool Information

Drill Pipe:	Length: 4291.00 ft	Diameter: 3.82 inches	Volume: 60.83 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 61.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4475.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4449.00	
Shut In Tool	5.00			4454.00	
Hydraulic tool	5.00			4459.00	
Jars	5.00			4464.00	
Safety Joint	2.00			4466.00	
Packer	5.00			4471.00	27.00 Bottom Of Top Packer
Packer	4.00			4475.00	
Stubb	1.00			4476.00	
Recorder	0.00	6752	Inside	4476.00	
Recorder	0.00	8322	Outside	4476.00	
Perforations	13.00			4489.00	
Change Over Sub	1.00			4490.00	
Drill Pipe	31.00			4521.00	
Change Over Sub	1.00			4522.00	
Bullnose	3.00			4525.00	50.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

17-15s-37w Cheyenne,KS

250 N Water Suite 300
Wichita, KS 67202

Jones 'A' #3-17

Job Ticket: 58271

DST#: 5

ATTN: Bob Stolzle

Test Start: 2014.07.13 @ 03:50:00

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: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM - 30%o - 70%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

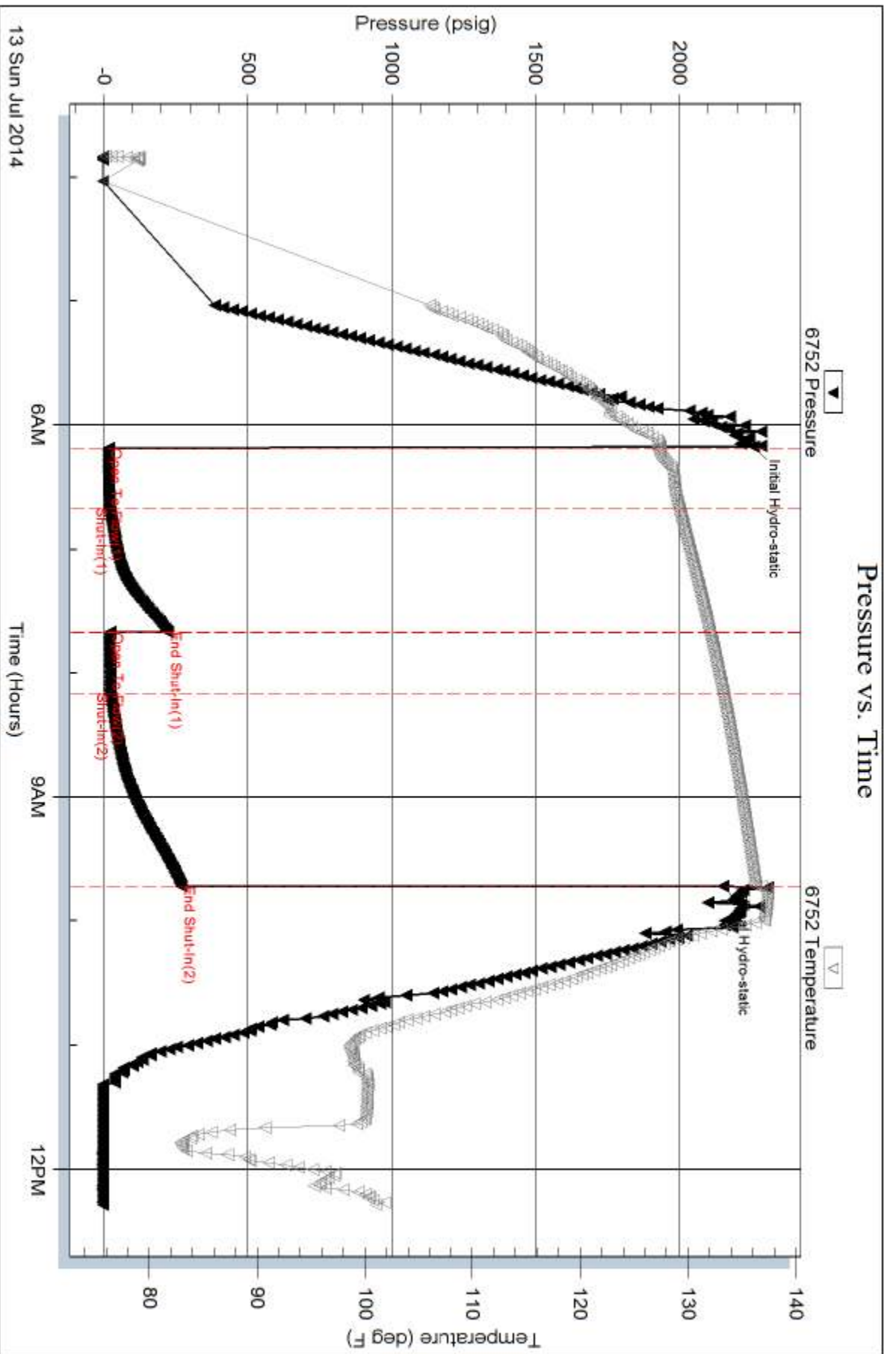
Num Gas Bombs: 0

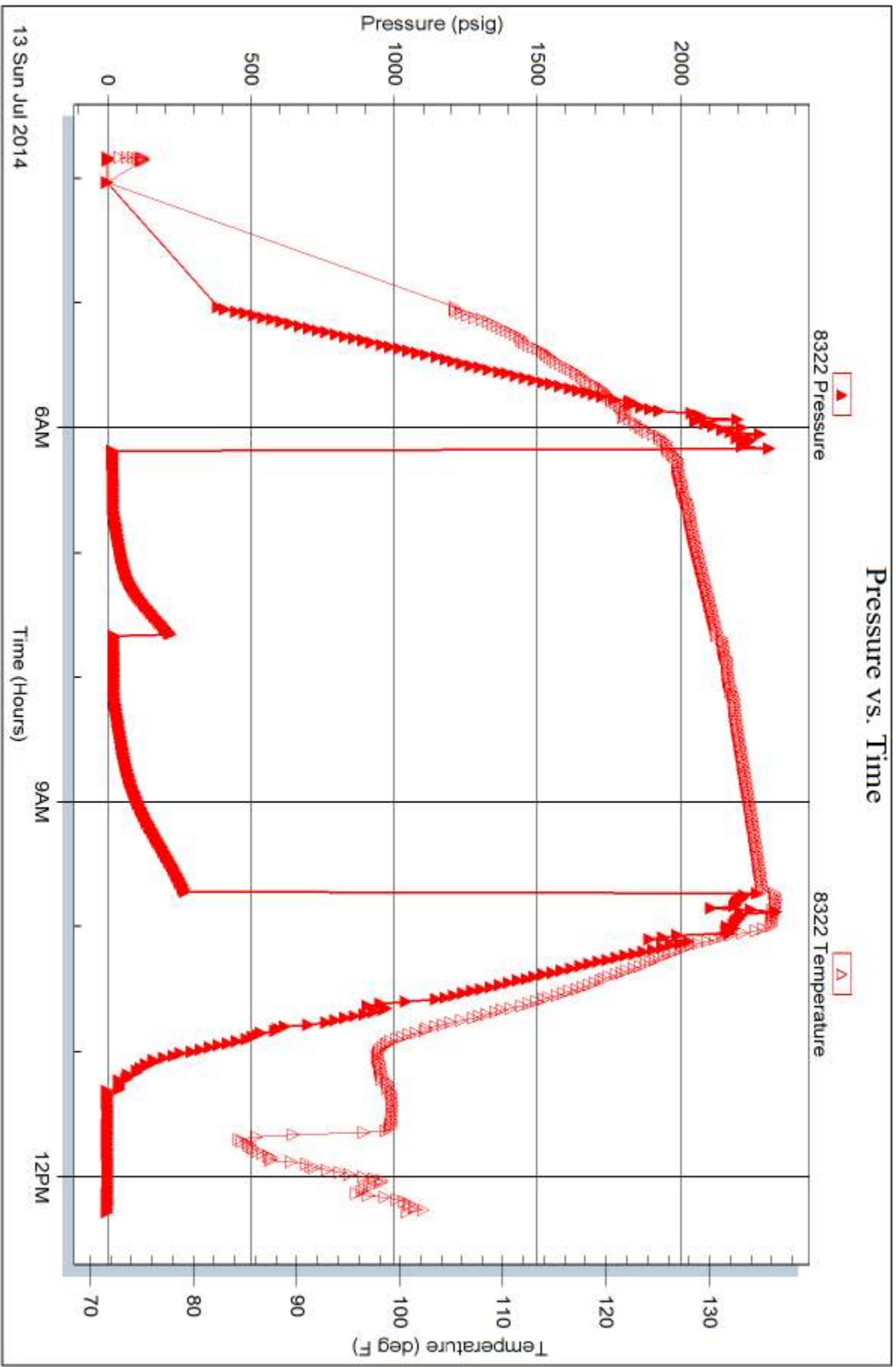
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57184

4/10

Well Name & No. Jones A # 3-17 Test No. 1 Date 7-8-14
 Company Murfin Drilling Co., Inc Elevation 3141 KB 3136 GL
 Address 250 N. Water St. 300 Wichita, KS 67202
 Co. Rep / Geo. Bob Stolzle Rig M.D.C. #8
 Location: Sec. 17 Twp. 15 Rge. 37 Co. Cheyenne State Ks

Interval Tested 3799-3865 Zone Tested Stoker Ls
 Anchor Length 866 Drill Pipe Run 3604 Mud Wt. 8.9
 Top Packer Depth 3795 Drill Collars Run 186 Vis 52
 Bottom Packer Depth 3799 Wt. Pipe Run 0 WL 6.0
 Total Depth 3865 Chlorides 600 ppm System LCM 4*
 Blow Description Packer seat failed, reset tool, tool slid 8-10 feet, 2" blow died @ 12 min.
No blow.
No blow.
No return.

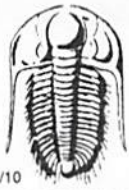
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>210</u>	Feet of <u>M Some oil spots in tool with odac</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 210 BHT 128 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1833</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>23:05</u>
(B) First Initial Flow <u>123</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>23:06</u>
(C) First Final Flow <u>124</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1:49</u>
(D) Initial Shut-In <u>442</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>4:50</u>
(E) Second Initial Flow <u>122</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>6:57</u>
(F) Second Final Flow <u>124</u>	<input checked="" type="checkbox"/> Mileage <u>132</u> rt <u>204.60</u>	Comments
(G) Final Shut-In <u>340</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1798</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1679.60</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1679.60</u>	

Approved By _____ Our Representative Chuck Amick

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. 57185

Well Name & No. Jones 'A' # 3-17 Test No. 2 Date 7-10-14
 Company Murfin Drilling Co., Inc. Elevation 3141 KB 3136 GL
 Address POB 250 N. Water St. 300 Wichita, KS 67202
 Co. Rep / Geo. Bob Stolze Rig MDC #8
 Location: Sec. 17 Twp. 15 Rge. 37W Co. Cheyenne State KS

Interval Tested 4048 - 4130 Zone Tested Lansing 'A'
 Anchor Length 82 Drill Pipe Run 3852 Mud Wt. 9.1
 Top Packer Depth 4044 Drill Collars Run 186 Vis 67
 Bottom Packer Depth 4048 Wt. Pipe Run 0 WL 6.4
 Total Depth 4130 Chlorides 600 ppm System LCM 2[#]
 Blow Description Tool opened and slid 20', 10" blow died @ 10 min.
No return.
No blow.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>20</u>	Feet of <u>GOCM</u>	<u>2</u> %gas	<u>3</u> %oil	%water <u>95</u>	%mud
Rec <u>124</u>	Feet of <u>SGOCM</u>	<u>1</u> %gas	<u>1</u> %oil	%water <u>98</u>	%mud
Rec <u>61</u>	Feet of <u>OSM</u>	%gas	%oil	%water <u>100</u>	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 205 BHT 131 Gravity — API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2009</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>4:35</u>
(B) First Initial Flow <u>125</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>4:43</u>
(C) First Final Flow <u>125</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>7:27</u>
(D) Initial Shut-In <u>1125</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>10:31</u>
(E) Second Initial Flow <u>127</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>12:50</u>
(F) Second Final Flow <u>125</u>	<input checked="" type="checkbox"/> Mileage <u>204.60</u>	Comments _____
(G) Final Shut-In <u>1011</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2062</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input checked="" type="checkbox"/> Ruined Packer <u>320</u>
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>320</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>2099.60</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1779.60</u>	

Approved By _____ Our Representative Chuck Smith

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. 57186

Well Name & No. Jones 'A' #3-17 Test No. 3 Date 7-10-14
 Company Martin Drilling Co., Inc. Elevation 3141 KB 3136 GL
 Address 250 N. Water Ste. 300 Wichita, KS 67202
 Co. Rep / Geo. Bob Stojzle Rig MDC #8
 Location: Sec. 17 Twp. 15 Rge. 37w Co. Cheyenne State KS

Interval Tested 4105 - 4180 Zone Tested Lansing 'A-D'
 Anchor Length 75 Drill Pipe Run 3910 Mud Wt. 9.0
 Top Packer Depth 4101 Drill Collars Run 186 Vis 55
 Bottom Packer Depth 4105 Wt. Pipe Run 0 WL 6.0
 Total Depth 4180 Chlorides 600 ppm System LCM 4#
 Blow Description 1 1/2" Blow. Tool slid 5' while still closed.
No return.
1/2" Blow.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>62</u>	Feet of <u>OCM</u>	%gas	<u>35%</u> oil	%water	<u>65%</u> mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 62 BHT 131 Gravity - API RW - @ - °F Chlorides - ppm
 (A) Initial Hydrostatic 2029 Test 1250 T-On Location 21:10
 (B) First Initial Flow 23 Jars 250 T-Started 21:11
 (C) First Final Flow 33 Safety Joint 75 T-Open 23:46
 (D) Initial Shut-In 971 Circ Sub N/C T-Pulled 3:49
 (E) Second Initial Flow 37 Hourly Standby _____ T-Out 68:10
 (F) Second Final Flow 47 Mileage 204.60 Comments _____
 (G) Final Shut-In 866 Sampler _____
 (H) Final Hydrostatic 1995 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1779.60

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Total 1779.60
 MP/DST Disc't _____

Approved By _____ Our Representative Chuck Smith

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **58270**

Well Name & No. Jones A #3-17 Test No. 4 Date 7/11/14
 Company Martin Drilling Co. Elevation 3141 KB 3136 GL
 Address 250 N. Water STE 300 Wichita KS 67206
 Co. Rep / Geo. Bob Stalze Rig Martin #8
 Location: Sec. 17 Twp. 1S Rge. 37W Co. Cheyenne State KS

Interval Tested 4172 - 4330 Zone Tested LKC "G-J"
 Anchor Length 158' Drill Pipe Run 3976' Mud Wt. 9.1
 Top Packer Depth 4167 Drill Collars Run 186' Vis 64
 Bottom Packer Depth 4172 Wt. Pipe Run 0 WL 6.0
 Total Depth 4330 Chlorides 600 ppm System LCM 3
 Blow Description IF - 1" blow built to 1 1/4" @ 20 mins died back to 1"
ISI - No return
FF - No blow
FSI - No return

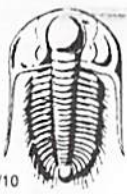
Rec	Feet of	%gas	%oil	%water	%mud
<u>62'</u>	<u>Mud</u>			<u>100%</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 62' BHT 128° Gravity — API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic <u>2102</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>22:30</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>23:18</u>
(C) First Final Flow <u>36</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>02:04</u>
(D) Initial Shut-In <u>626</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>05:04</u>
(E) Second Initial Flow <u>38</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>07:14</u>
(F) Second Final Flow <u>49</u>	<input checked="" type="checkbox"/> Mileage <u>0.132 RT</u> 204.60	Comments
(G) Final Shut-In <u>584</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1982</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>1779.60</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1779.60</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58271

Well Name & No. Jones A #3-17 Test No. 5 Date 7/13/14
 Company Murkin Drilling Co. Elevation 3141 KB 3136 GL
 Address 250 N. Water STE 300 Wichita KS 67206
 Co. Rep / Geo. Bob Stalze Rig Murkin #8
 Location: Sec. 17 Twp. 1S Rge. 37W Co. Cheyenne State KS

Interval Tested 4475 - 4525 Zone Tested Upper Pawnee LS.
 Anchor Length 50' Drill Pipe Run 4291' Mud Wt. 8.9
 Top Packer Depth 4470 Drill Collars Run 186' Vis 62
 Bottom Packer Depth 4475 Wt. Pipe Run 0' WL 6.4
 Total Depth 4525 Chlorides 100 ppm System LCM 2

Blow Description IF - 1/4" blow built to 1"
ISI - No return
FF - No blow
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>OCM</u>	<u>30</u>		<u>70</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 10' BHT 136 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2258</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>03:15</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>03:50</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>06:10</u>
(D) Initial Shut-In <u>222</u>	<input checked="" type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>09:40</u>
(E) Second Initial Flow <u>22</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>12:17</u>
(F) Second Final Flow <u>23</u>	<input checked="" type="checkbox"/> Mileage <u>132 RT</u> 204.60	Comments <u>—</u>
(G) Final Shut-In <u>269</u>	<input type="checkbox"/> Sampler <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
(H) Final Hydrostatic <u>2151</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer <u>—</u>	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	Total <u>1779.60</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby <u>—</u>	MP/DST Disc't <u>—</u>
	<input type="checkbox"/> Accessibility <u>—</u>	
	Sub Total <u>1779.60</u>	

Approved By _____

Our Representative Ryan Nichols

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.

DRILLING TIME AND SHUT-INS

DATE: 7/17/14
WELL NO: 3-17
WELL NAME: 8357

OPERATOR: **Illinois Co., Inc.**
CONTRACT NO: 3-17
JOB NO: 3-17

LOG NO: 3-17
LOG DATE: 7/17/14
LOG TIME: 11:14 AM

LOG BY: **Robert Stolzle**
LOG CHECKED BY: **Mike Bost**

PERMITS

STATE OF KANSAS
WELL PERMIT NO: 4680
WELL NAME: 8357
WELL TYPE: OIL
WELL STATUS: ACTIVE
WELL DEPTH: 4681'

WELL LOG

WELL NO: 8357
WELL NAME: 8357
WELL TYPE: OIL
WELL STATUS: ACTIVE
WELL DEPTH: 4681'

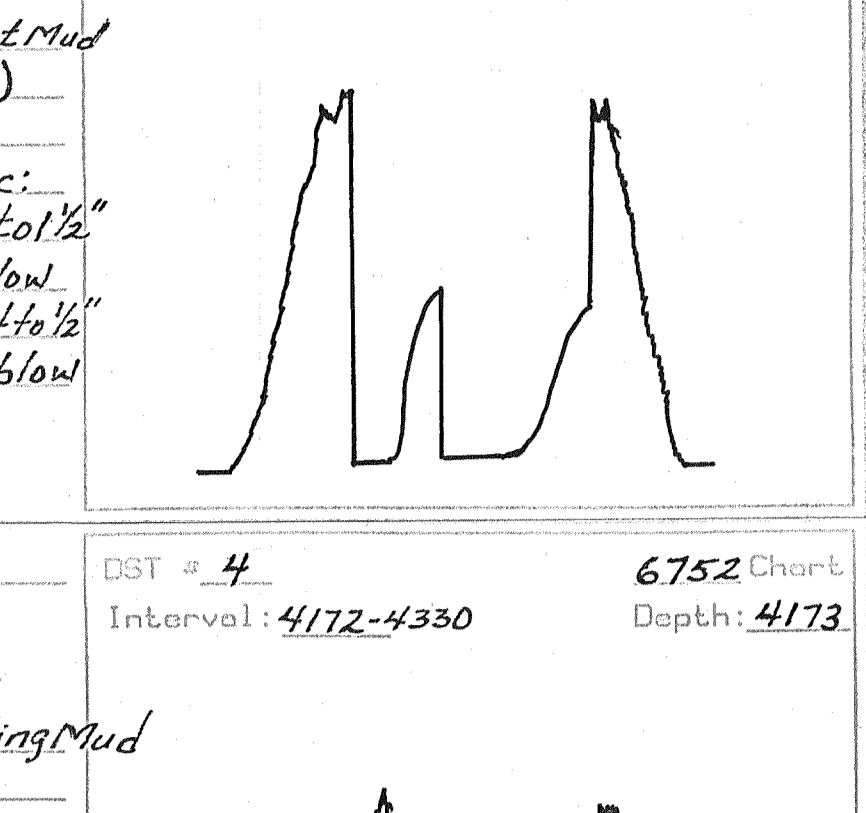
WELL LOG

WELL NO: 8357
WELL NAME: 8357
WELL TYPE: OIL
WELL STATUS: ACTIVE
WELL DEPTH: 4681'

DST # 1 ZONE: Scotler Ls.
Interval: 3199-3865'

Pressure:	Time	Press.	RECOVERY
1. Initial Hydrostatic		1833 psi	210 Mud w/ oil spots in tank
2. Initial Flow: Start	0	123 psi	
3. Initial Flow: End	30	124 psi	
4. Initial Shut-in: End	60	442 psi	Blow Desc: IF-2' dia in 12 min
5. Final Flow: Start	0	122 psi	IF-1: No blow
6. Final Flow: End	30	124 psi	IF-2: No blow
7. Final Shut-in: End	60	340 psi	IF-3: No blow
8. Final Hydrostatic		1798 psi	IF-4: No blow

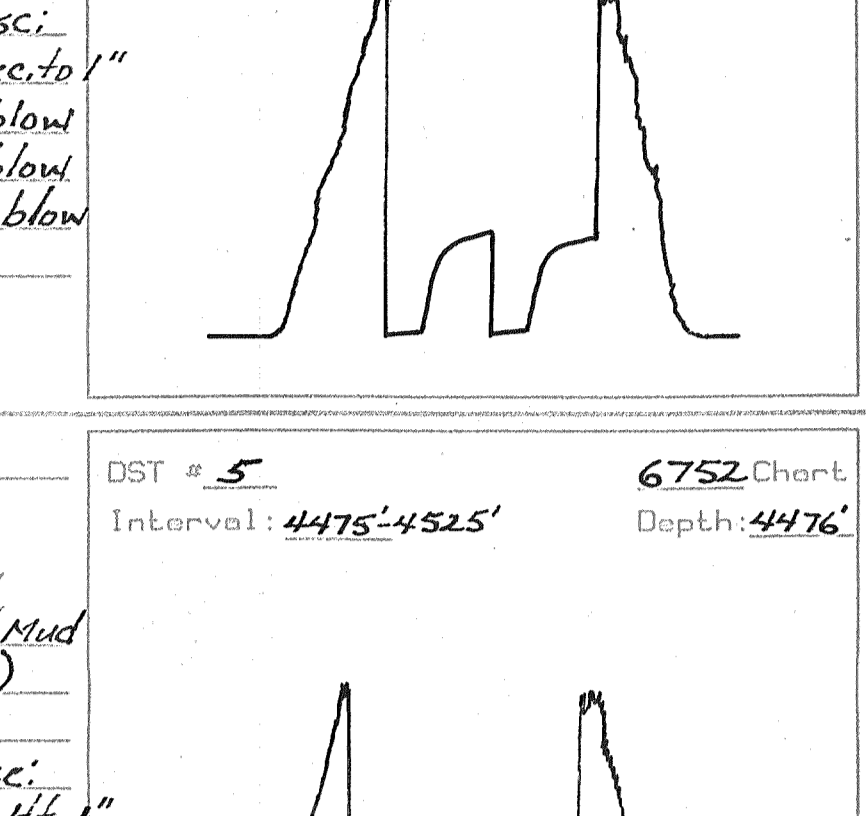
DHT: 128°F



DST # 2 ZONE: Lansing A' Zone
Interval: 4048-4130'

Pressure:	Time	Press.	RECOVERY
1. Initial Hydrostatic		2009 psi	20 Gas + Oil Cut Mud (249 gas, 390 oil)
2. Initial Flow: Start	0	125 psi	124 1/2' light Gas Oil Cut Mud
3. Initial Flow: End	30	125 psi	
4. Initial Shut-in: End	60	115 psi	6' Dis. Sp. of Mud (100% Mud)
5. Final Flow: Start	0	127 psi	Total Rec. 205'
6. Final Flow: End	30	121 psi	Blow Desc: IF-10' blow in 10 min
7. Final Shut-in: End	60	105 psi	IF-1: No blow
8. Final Hydrostatic		2062 psi	IF-2: No blow

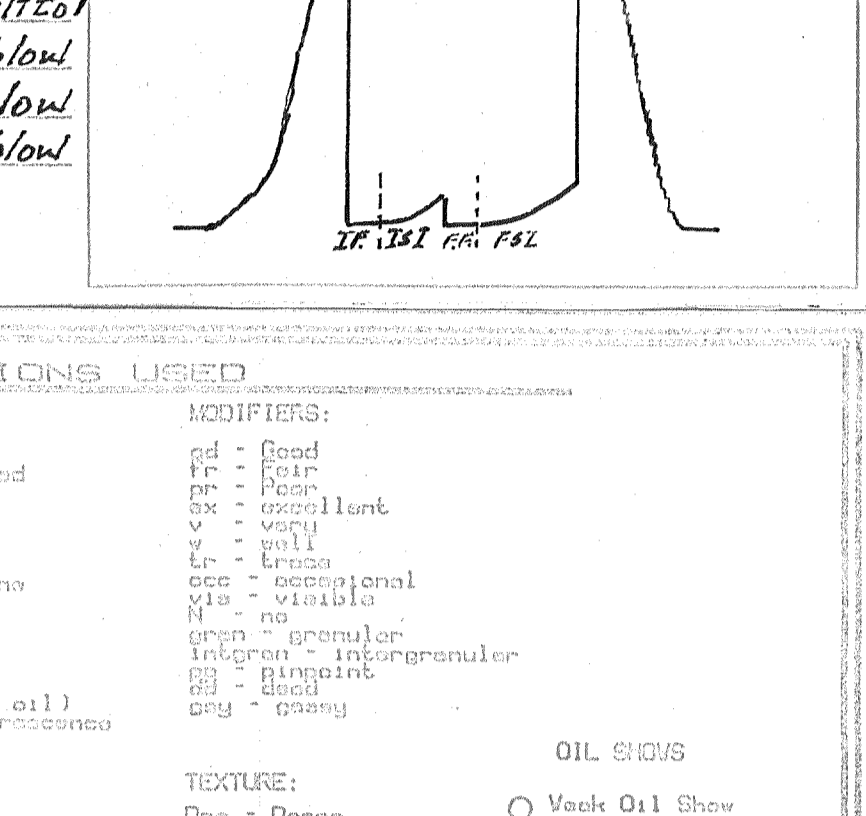
DHT: 131°F



DST # 3 ZONE: Lansing A' (w/ and D' Zones)
Interval: 4105-4180'

Pressure:	Time	Press.	RECOVERY
1. Initial Hydrostatic		2022 psi	62' Oil Cut Mud (35% Oil)
2. Initial Flow: Start	0	23 psi	
3. Initial Flow: End	30	93 psi	Blow Desc: IF-14' built to 1/2"
4. Initial Shut-in: End	60	37 psi	IF-1: No blow
5. Final Flow: Start	0	47 psi	IF-2: No blow
6. Final Flow: End	30	866 psi	IF-3: No blow
7. Final Shut-in: End	60	1995 psi	IF-4: No blow

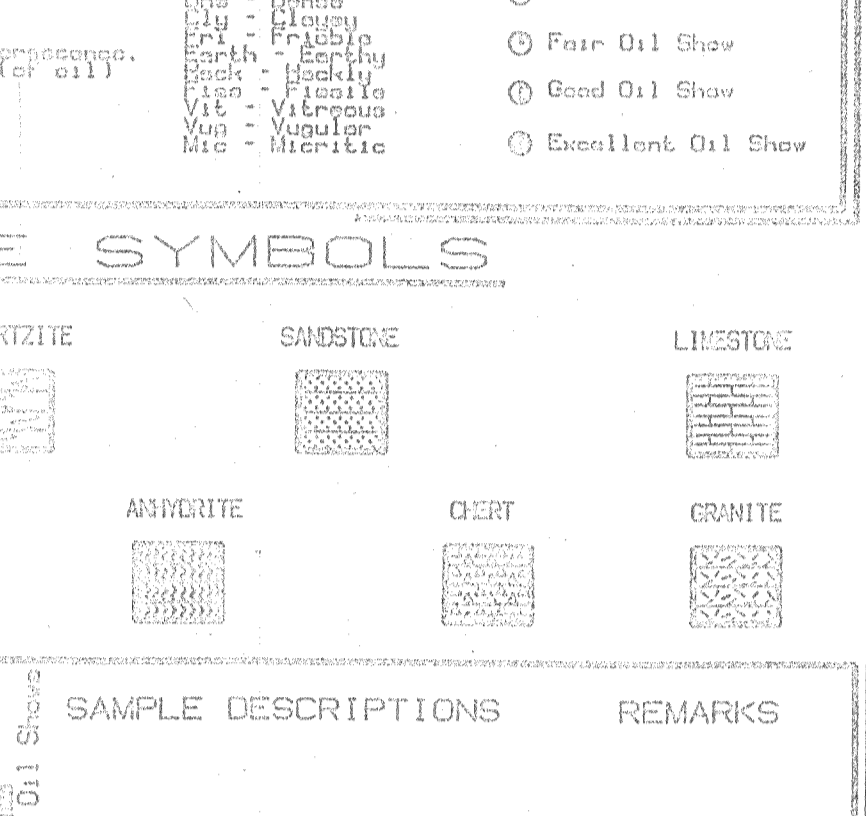
DHT: 132°F



DST # 4 ZONE: L-KC G, H, J Zones
Interval: 4172-4330'

Pressure:	Time	Press.	RECOVERY
1. Initial Hydrostatic		2102 psi	62' Drilling Mud
2. Initial Flow: Start	0	36 psi	
3. Initial Flow: End	30	626 psi	Blow Desc: IF-14' dec. to 1"
4. Initial Shut-in: End	60	38 psi	IF-1: No blow
5. Final Flow: Start	0	49 psi	IF-2: No blow
6. Final Flow: End	30	584 psi	IF-3: No blow
7. Final Shut-in: End	60	1982 psi	IF-4: No blow

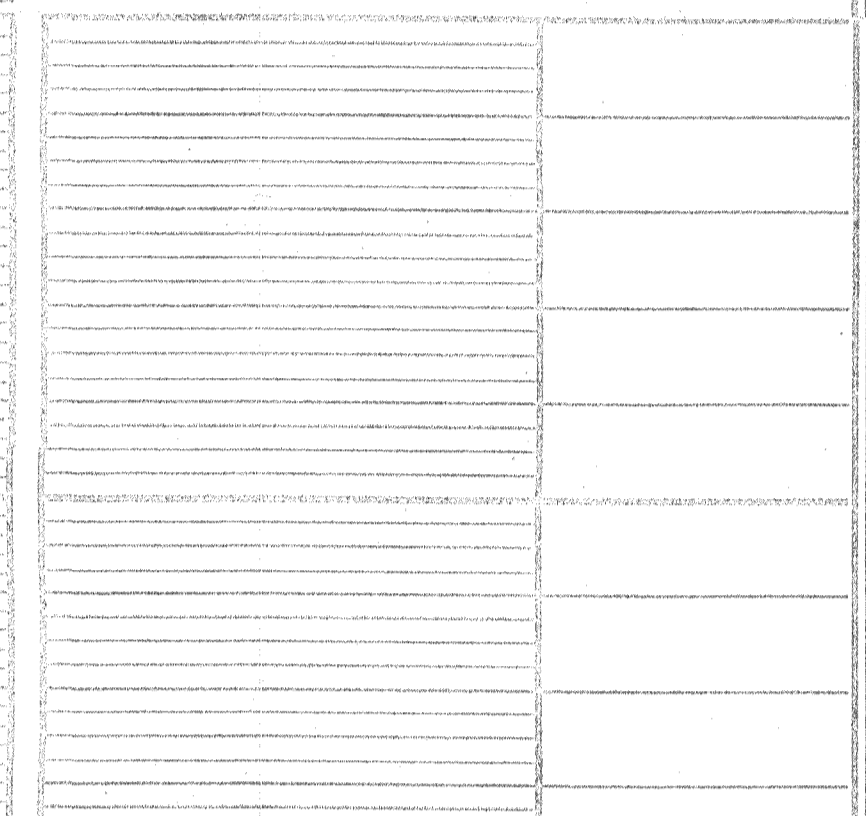
DHT: 129°F



DST # 5 ZONE: Upper Pawnee Ls.
Interval: 4475-4525'

Pressure:	Time	Press.	RECOVERY
1. Initial Hydrostatic		2258 psi	10' Oil Cut Mud (30% Oil)
2. Initial Flow: Start	0	16 psi	
3. Initial Flow: End	30	20 psi	Blow Desc: IF-14' built to 1"
4. Initial Shut-in: End	60	22 psi	IF-1: No blow
5. Final Flow: Start	0	22 psi	IF-2: No blow
6. Final Flow: End	30	23 psi	IF-3: No blow
7. Final Shut-in: End	60	269 psi	IF-4: No blow
8. Final Hydrostatic		2151 psi	IF-5: No blow

DHT: 137°F

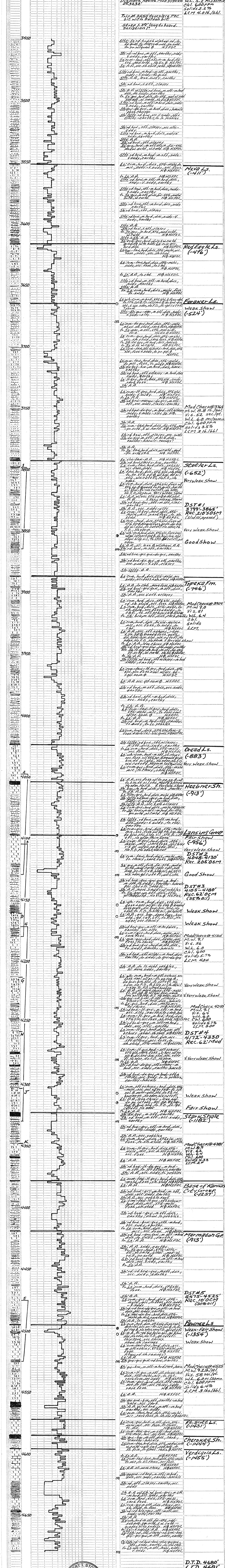


ABBREVIATIONS USED

ROCK TYPES:	FACIES:	MODIFIERS:
Ls - Limestone	Fm - Fingeringed	ad - Good
Sh - Shale	Yf - Very fine grained	fr - Fair
Sl - Sandstone	Med - Medium	ex - excellent
St - Siltstone	Co - Coarse	po - poor
Ch - Chert	CS - Coarse sandstone	po - poor
Cl - Claystone	CS - Coarse sandstone	po - poor
CS - Coarse sandstone	CS - Coarse sandstone	po - poor
MS - Medium sandstone	MS - Medium sandstone	po - poor
FS - Fine sandstone	FS - Fine sandstone	po - poor
SS - Sandstone	SS - Sandstone	po - poor
SL - Siltstone	SL - Siltstone	po - poor
SH - Shale	SH - Shale	po - poor
CH - Chert	CH - Chert	po - poor
CL - Claystone	CL - Claystone	po - poor
CS - Coarse sandstone	CS - Coarse sandstone	po - poor
MS - Medium sandstone	MS - Medium sandstone	po - poor
FS - Fine sandstone	FS - Fine sandstone	po - poor
SS - Sandstone	SS - Sandstone	po - poor
SL - Siltstone	SL - Siltstone	po - poor
SH - Shale	SH - Shale	po - poor
CH - Chert	CH - Chert	po - poor
CL - Claystone	CL - Claystone	po - poor

ROCK TYPE SYMBOLS

SCALE	CARBONACEOUS SHALE	QUARTZITE	SANDSTONE	LIMESTONE
SILT	CLAYSTONE	DOLomite	ARGILLITE	CHERT
CRINITE				





*acet
Prod-M6*

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 144194
Invoice Date: Jul 5, 2014
Page: 1

Voice: (817) 546-7282
Fax: (817) 246-3361

Bill To:
Murfin Drtg. Co., Inc. 250 N. Water STE #300 Wichita, KS 67202

Customer ID	Field Ticket #	Payment Terms	
Murfin	63252	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jul 5, 2014	8/4/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Jones A #3-17		
225.00	CEMENT MATERIALS	Class A Common	17.90	4,027.50
634.00	CEMENT MATERIALS	Chloride	1.10	697.40
236.24	CEMENT SERVICE	Cubic Feet Charge	2.48	585.88
951.30	CEMENT SERVICE	Ton Mileage Charge	2.75	2,616.08
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
90.00	CEMENT SERVICE	Pump Truck Mileage	7.70	693.00
90.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	396.00
1.00	CEMENT SUPERVISOR	Kelly Gabel		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		

Subtotal	10,528.11
Sales Tax	385.08
Total Invoice Amount	10,913.19
Payment/Credit Applied	
TOTAL	10,913.19

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 3,684.83

ONLY IF PAID ON OR BEFORE
Aug 4, 2014

*OK
JR*



*Acct
Prod-Me*

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 144444

Invoice Date: Jul 14, 2014

Page: 1

Voice: (817) 546-7282

Fax: (817) 246-3361

Bill To:
Murfin Drlg. Co., Inc. 250 N. Water STE #300 Wichita, KS 67202

Customer ID	Field Ticket #	Payment Terms	
Murfin	63308	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Jul 14, 2014	8/13/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Jones A #3-17		
250.00	CEMENT MATERIALS	60/40 4% Gel Blend	18.92	4,730.00
63.00	CEMENT MATERIALS	Flo Seal	2.97	187.11
268.53	CEMENT SERVICE	Cubic Feet Charge	2.48	665.95
896.80	CEMENT SERVICE	Ton Mileage Charge	2.75	2,466.20
1.00	CEMENT SERVICE	Plug to Abandon	2,600.47	2,600.47
80.00	CEMENT SERVICE	Pump Truck Mileage	7.70	616.00
80.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	352.00
1.00	EQUIPMENT SALES	8-5/8 Wooden Plgu	110.00	110.00
1.00	CEMENT SUPERVISOR	Talon Jones		
1.00	CEMENT SUPERVISOR	LaRene Wentz		

Subtotal	11,727.73
Sales Tax	955.81
Total Invoice Amount	12,683.54
Payment/Credit Applied	
TOTAL	12,683.54

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 4,066.20 ✓

ONLY IF PAID ON OR BEFORE

Aug 13, 2014

- 4066.20

8617.34

*OK
JA*

ALLIED OIL & GAS SERVICES, LLC 063308

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Ordelcytes

DATE <u>2-14-14</u>	SEC. <u>12</u>	TWP. <u>15</u>	RANGE <u>37W</u>	CALLED OUT	ON LOCATION <u>1:30 pm</u>	JOB START <u>5 pm</u>	JOB FINISH <u>6 pm</u>
LEASE <u>Jones A</u>	WELL # <u>3-17</u>	LOCATION <u>State line 3E, 28</u>			COUNTY <u>Cherokee</u>	STATE <u>Ks</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			<u>SB-west 280</u>				

CONTRACTOR Murfin #8

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 4680

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH 3130

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT mud/water

EQUIPMENT

OWNER Same

CEMENT AMOUNT ORDERED 250 sks 60/40
4 1/2 gal 14 # Flo-seal

COMMON _____	@ _____	_____
POZMIX _____	@ _____	_____
GEL _____	@ _____	_____
CHLORIDE _____	@ _____	_____
ASC _____	@ _____	_____
<u>250 sks 60/40 4 1/2</u>	@ <u>18.92</u>	<u>4,730.00</u>
<u>Flo Seal 63lbs</u>	@ <u>2.92</u>	<u>187.11</u>
<u>Material Tot</u>	@ <u>0</u>	<u>4,917.11</u>
<u>(1780.98/350)</u>	@ _____	_____
HANDLING <u>268.53 cut</u>	@ <u>2.48</u>	<u>665.95</u>
MILEAGE <u>11.31 ten X 80mi</u>	@ <u>2.75</u>	<u>2,966.20</u>
TOTAL		_____

PUMP TRUCK CEMENTER Talon Jones

423 HELPER LaRene W.

BULK TRUCK # 373 DRIVER Juan #1, Beto (tw)

BULK TRUCK # _____ DRIVER _____

REMARKS:

mix 50sks @ 3130ft displace mud

mix 10sks @ 2336ft displace mud

mix 50sks @ 220ft displace water

Set plug @ 40ft

mix 10sks @ 40ft

R.H 30sks

M.H 10sks

Thank you!

CHARGE TO: Murfin drilling

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 Redney Farr

SIGNATURE Redney Farr

SERVICE

DEPTH OF JOB _____	<u>3130ft</u>
PUMP TRUCK CHARGE _____	<u>2600.47</u>
EXTRA FOOTAGE _____	@ _____
MILEAGE <u>H.V. 80 mi</u>	@ <u>2.70</u> <u>616.00</u>
MANIFOLD _____	@ _____
<u>L.V. 80 mi</u>	@ <u>4.40</u> <u>352.00</u>
TOTAL <u>6,206.11</u>	

(2345.20/350)

PLUG & FLOAT EQUIPMENT

<u>8 1/4 wooden plug</u>	@ _____	<u>110.00</u>
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
TOTAL <u>110.00</u>		

SALES TAX (If Any) _____

TOTAL CHARGES 11,727.73

DISCOUNT 4,066.20 (35%) PAID IN 30 DAYS

7,661.52 Net.

Jones 'A' #3-17
 Daily Drilling Report
 Page Two

- 7/12/14 Depth 4330'. Cut 150'. DT: none. CT: 15¼ hrs. Dev.: none. **LKC G:** Ls wh-crm, hard-soft chlky, occasionally oolitic & foss, pr-fr vug porosity, drk brn-blk stn, fr cut & fluor, no odor, tr bleeding oil, tr dead oil, very wk show. **LKC H:** Ls crm-lt grey, hard-soft chlky, v fn grn, xln-tr foss porosity, 2-3 pieces poor pp porosity, drk brn-blk stn, wk cut & fluor, no odor, no SFO. **LKC J:** Ls crm, soft chlky hard dns, v fn grn-micro xln, occasionally oolitic, p-fr int particle porosity, tr pp & larger vug porosity, modeled-uniform stn, tr FO on break, fr-gd cut & fluor, no odor, fr show. **DST #4 4172-4330 (LKC G-J):** 30-60-30-60 IF: 1" blw. increased to 1¼", died back to 1". FF: no blw. Rec.: 62' M. HP: 2102-1982. FP: 21/36, 38/49. SIP: 626-584. BHT: 129°.
- 7/13/14 Depth 4525'. Cut 195'. DT: 1hr drlg line. CT: 10¼ hrs. Dev.: none. **Pawnee:** Ls crm, hrd dns, occasional soft chlky, v fn grn-micro xln, foss, oolitic, occasional pr-fr int oolitic porosity, tr fr-gd vug porosity, no odor, rare FO, gd cut & fluor, wk-fr show. **DST #5 4475-4525 (Paw):** 30-60-30-90. IF: 1' blw. FF: no blw.
- 7/14/14 RTD 4680'. Cut 155'. DT: None. CT: 14¾ hrs. Dev.: ½° @ 4680'. **DST #5 4475-4525 (Paw):** 30-60-30-90. IF: 1' blw. FF: no blw. Rec.: 10'OCM (30%O, 70%M). HP: 2258-2151. FP: 16/20, 22/23. SIP: 222-269. BHT: 136°. TD @ 12:00AM 7/14. Pioneer started logging @ 4:45AM 7/14. LTD: 4681'.
- 7/15/14 RTD: 4680'. CT: 15½ hrs. Pioneer finished logging @ 10:30AM 7/14. Allied plugged, 3:00PM – 6:30PM 7/14, as follows using 60/40Poz, 4%Gel, ¼#Flo seal, 50sxs @ 3130', 100sxs @ 2336', 50sxs @ 270', 10sxs & plug @ 40', 30sxs RH, 10sxs MH. Orders: Marvin Mills KCC 7/10. RR @ 10:30PM 7/14. FINAL REPORT

MDCI Jones A #3-17 660' FNL 1980' FWL Sec. 17-T1S-R37W 3141' KB							MDCI Jones A #1-17 1050' FSL 2310' FWL Sec. 17-T1S-R37W 3149' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3102	+39	Flat	3098	+43	+4	3110	+39
B/Anhydrite	3135	+6	-1	3133	+8	+1	3142	+7
Neva	3552	-411	Flat	3552	-411	Flat	3560	-411
Red Eagle	3617	-476	-1	3615	-474	+1	3624	-475
Foraker	3664	-523	-1	3665	-524	-2	3671	-522
Stotler	3793	-652	-1	3793	-652	-1	3800	-651
Topeka	3887	-746	-1	3888	-747	-2	3894	-745
Oread	4024	-883	-1	4023	-882	Flat	4031	-882
Lansing	4097	-956	+3	4100	-959	Flat	4108	-959
Stark	4323	-1182	-2	4321	-1180	Flat	4329	-1180
BKC	4378	-1237	-1	4378	-1237	-1	4385	-1236
Pawnee	4492	-1351	+2	4496	-1355	-1	4503	-1354
Cherokee	4585	-1444	-1	4589	-1448	-5	4592	-1443
RTD	4680						4680	
LTD				4681			4680	