



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1224321
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: _____

1224321

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	Jones 'A' 2-17
Doc ID	1224321

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

ATTN: Rocky Milford

Jones 'A' #2-17

17 1S 37W Cheyenne KS

Start Date: 2014.06.16 @ 06:15:00

End Date: 2014.06.16 @ 15:56:00

Job Ticket #: 58795 DST #: 1

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

Printed: 2014.06.23 @ 08:49:56

Murfin Drilling CO, INC

17 1S 37W Cheyenne KS

Jones 'A' #2-17

DST # 1

LKC "A-D"

2014.06.16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling CO, INC
250 N Water STE. 300
Wichita KS 67202
ATTN: Rocky Milford

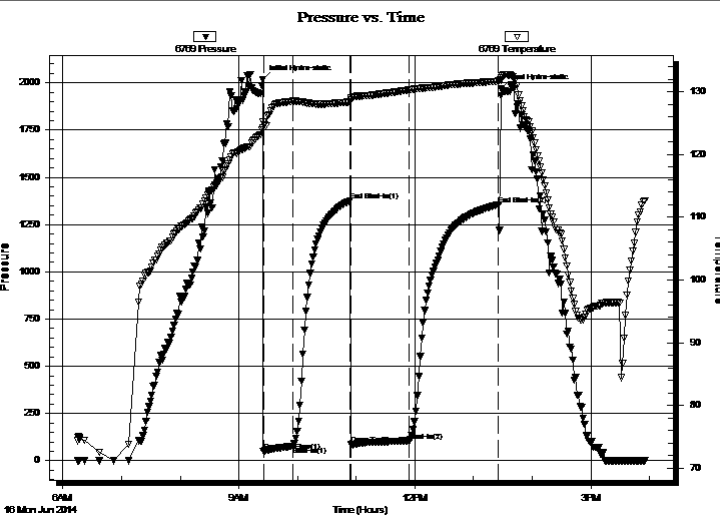
17 1S 37W Cheyenne KS
Jones 'A' #2-17
Job Ticket: 58795 **DST#: 1**
Test Start: 2014.06.16 @ 06:15:00

GENERAL INFORMATION:

Formation: **LKC "A-D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:25:00
Time Test Ended: 15:56:00
Interval: **4093.00 ft (KB) To 4215.00 ft (KB) (TVD)**
Total Depth: 4215.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Robert Zodrow
Unit No: 46
Reference Elevations: 3197.00 ft (KB)
3192.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6769 Outside
Press@RunDepth: 105.02 psig @ 4094.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.06.16 End Date: 2014.06.16 Last Calib.: 2014.06.16
Start Time: 06:15:05 End Time: 15:56:00 Time On Btm: 2014.06.16 @ 09:24:30
Time Off Btm: 2014.06.16 @ 13:28:30

TEST COMMENT: 30-IS- Blow built to 4 1/4"
60-IS- No return
60-FF- Blow built to 8 3/4"
90-FSI- Real weak surface blow on return died in 20 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2015.91	124.27	Initial Hydro-static
1	49.34	125.17	Open To Flow (1)
31	77.56	128.51	Shut-In(1)
90	1375.80	128.38	End Shut-In(1)
90	87.28	128.66	Open To Flow (2)
150	105.02	130.29	Shut-In(2)
241	1355.09	131.70	End Shut-In(2)
244	1967.52	132.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	gocm 17%g 40%o 43%m	1.28
0.00	160 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling CO, INC

17 1S 37W Cheyenne KS

250 N Water STE. 300
Wichita KS 67202

Jones 'A' #2-17

Job Ticket: 58795

DST#: 1

ATTN: Rocky Milford

Test Start: 2014.06.16 @ 06:15:00

GENERAL INFORMATION:

Formation: **LKC "A-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:25:00

Time Test Ended: 15:56:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Robert Zodrow

Unit No: 46

Interval: **4093.00 ft (KB) To 4215.00 ft (KB) (TVD)**

Reference Elevations: 3197.00 ft (KB)

Total Depth: 4215.00 ft (KB) (TVD)

3192.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8521 Inside

Press@RunDepth: psig @ 4094.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.16

End Date:

2014.06.16

Last Calib.:

2014.06.16

Start Time: 06:15:05

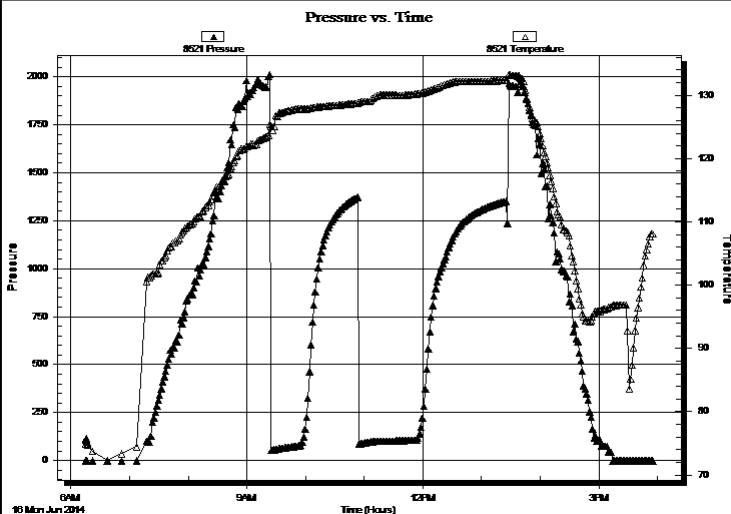
End Time:

15:55:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF- Blow built to 4 1/4"
60-IS- No return
60-FF- Blow built to 8 3/4"
90-FS- Real weak surface blow on return died in 20 mins



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
210.00	gocm 17%g 40%o 43%m	1.28
0.00	160 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling CO, INC

17 1S 37W Cheyenne KS

250 N Water STE. 300
Wichita KS 67202

Jones 'A' #2-17

Job Ticket: 58795

DST#: 1

ATTN: Rocky Milford

Test Start: 2014.06.16 @ 06:15:00

Tool Information

Drill Pipe:	Length: 3913.00 ft	Diameter: 3.88 inches	Volume: 57.22 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 94000.00 lb
			<u>Total Volume: 58.13 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4093.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	122.00 ft			
Tool Length:	149.00 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			4071.00	
Hydraulic tool	5.00			4076.00	
Jars	5.00			4081.00	
Safety Joint	3.00			4084.00	
Packer	5.00			4089.00	27.00 Bottom Of Top Packer
Packer	4.00			4093.00	
Stubb	1.00			4094.00	
Recorder	0.00	8521	Inside	4094.00	
Recorder	0.00	6769	Outside	4094.00	
Perforations	22.00			4116.00	
Change Over Sub	1.00			4117.00	
Drill Pipe	94.00			4211.00	
Change Over Sub	1.00			4212.00	
Bullnose	3.00			4215.00	122.00 Bottom Packers & Anchor

Total Tool Length: 149.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling CO, INC

17 1S 37W Cheyenne KS

250 N Water STE. 300
Wichita KS 67202

Jones 'A' #2-17

Job Ticket: 58795

DST#: 1

ATTN: Rocky Milford

Test Start: 2014.06.16 @ 06:15:00

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: 5.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	gocm 17%g 40%o 43%m	1.275
0.00	160 GIP	0.000

Total Length: 210.00 ft Total Volume: 1.275 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

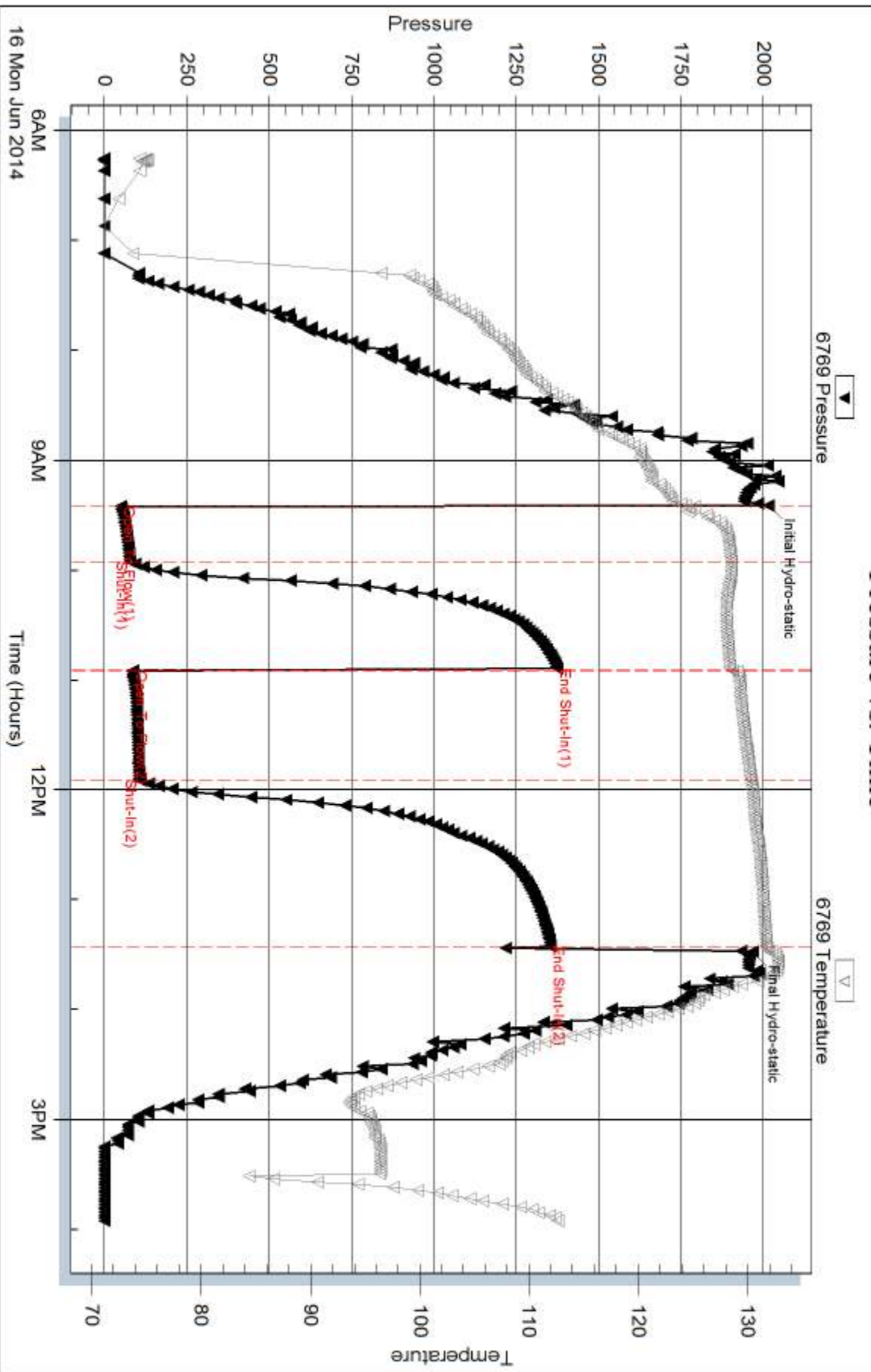
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



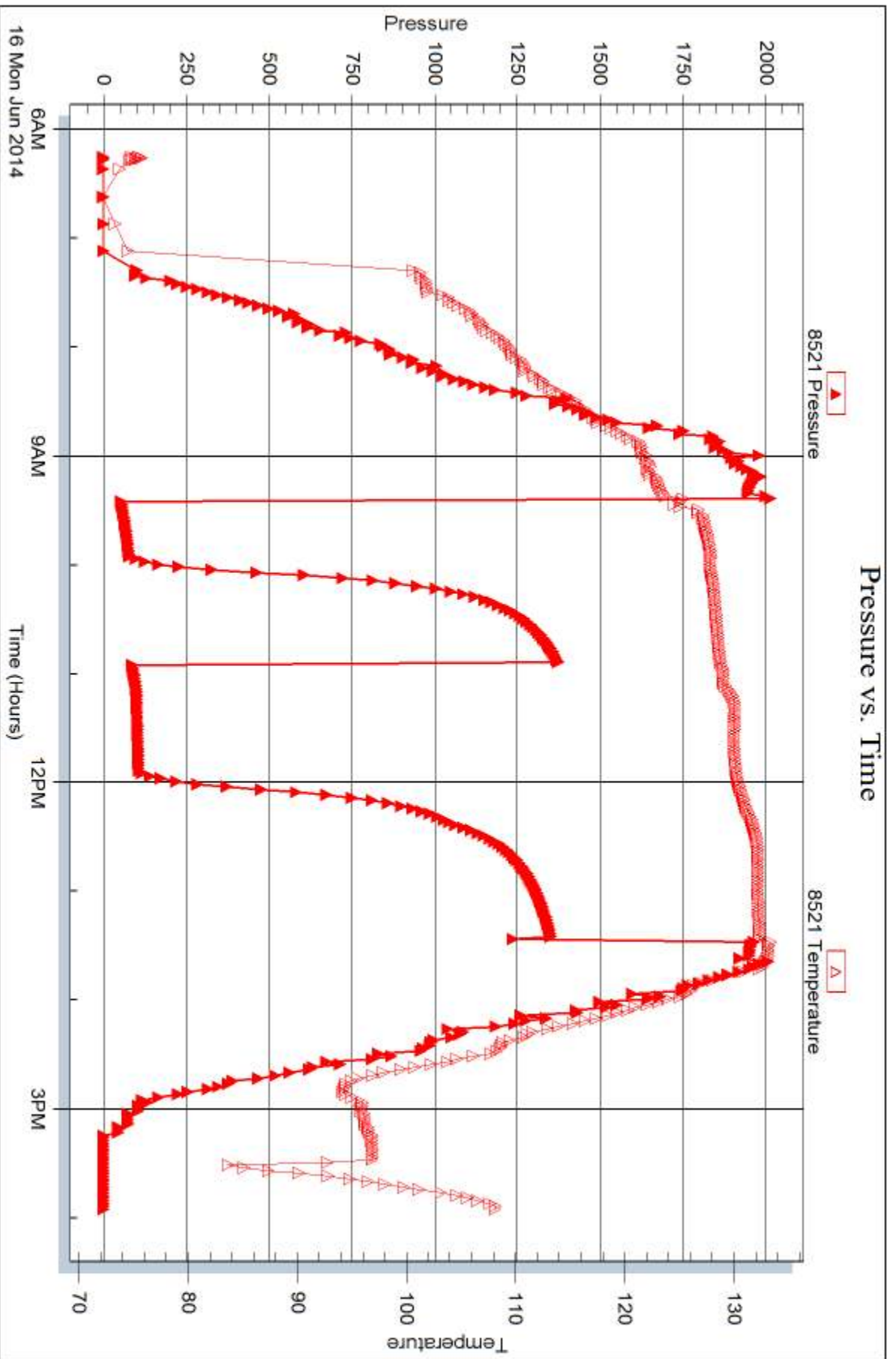
Serial #: 8521

Inside

Murfin Drilling CO, INC

Jones 'A' #2-17

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58795

Printed: 2014.06.23 @ 08:49:58



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling CO, INC**

250 N Water STE. 300
Wichita KS 67202

ATTN: Rocky Milford

Jones 'A' #2-17

17 1S 37W Cheyenne KS

Start Date: 2014.06.17 @ 08:15:00

End Date: 2014.06.17 @ 16:19:30

Job Ticket #: 58796 DST #: 2

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

Printed: 2014.06.23 @ 08:49:31

Murfin Drilling CO, INC

17 1S 37W Cheyenne KS

Jones 'A' #2-17

DST # 2

LKC "G-J"

2014.06.17



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling CO, INC
250 N Water STE. 300
Wichita KS 67202
ATTN: Rocky Milford

17 1S 37W Cheyenne KS
Jones 'A' #2-17
Job Ticket: 58796 **DST#: 2**
Test Start: 2014.06.17 @ 08:15:00

GENERAL INFORMATION:

Formation: **LKC "G-J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:15:30
Time Test Ended: 16:19:30
Interval: **4210.00 ft (KB) To 4363.00 ft (KB) (TVD)**
Total Depth: 4363.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 3197.00 ft (KB)
3192.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Robert Zodrow
Unit No: 46

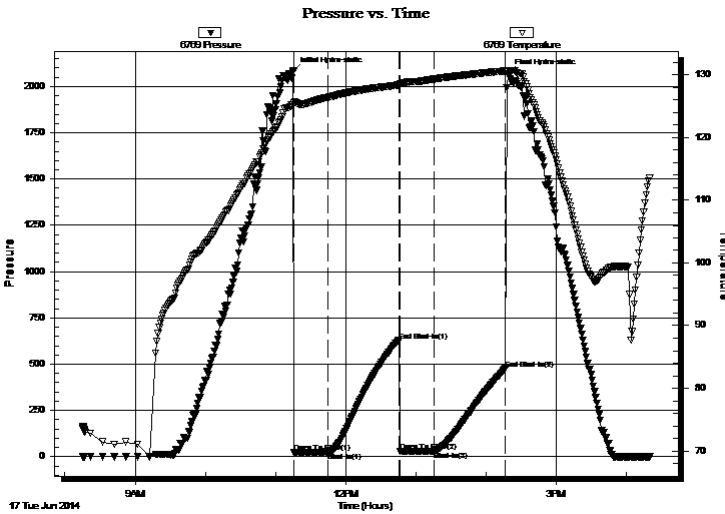
Serial #: 6769

Outside

Press@RunDepth: 30.39 psig @ 4211.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.06.17 End Date: 2014.06.17 Last Calib.: 2014.06.17
Start Time: 08:15:05 End Time: 16:19:29 Time On Btm: 2014.06.17 @ 11:15:00
Time Off Btm: 2014.06.17 @ 14:18:30

TEST COMMENT: 30-IF- Blow built to 3/4"
60-ISI- No return
30-FF- No blow
60-FSI- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2081.36	125.22	Initial Hydro-static
1	21.66	125.50	Open To Flow (1)
30	26.00	126.44	Shut-In(1)
91	623.78	128.41	End Shut-In(1)
91	28.13	128.51	Open To Flow (2)
120	30.39	129.33	Shut-In(2)
181	474.45	130.64	End Shut-In(2)
184	2070.46	130.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud w ith oil spots 100%m	0.10

* 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 1S 37W Cheyenne KS

250 N Water STE. 300
Wichita KS 67202

Jones 'A' #2-17

Job Ticket: 58796

DST#: 2

ATTN: Rocky Milford

Test Start: 2014.06.17 @ 08:15:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:15:30

Time Test Ended: 16:19:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Robert Zodrow

Unit No: 46

Interval: 4210.00 ft (KB) To 4363.00 ft (KB) (TVD)

Reference Elevations: 3197.00 ft (KB)

Total Depth: 4363.00 ft (KB) (TVD)

3192.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8521 Inside

Press@RunDepth: psig @ 4211.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.17

End Date:

2014.06.17

Last Calib.:

2014.06.17

Start Time: 08:15:05

End Time:

16:18:59

Time On Btm:

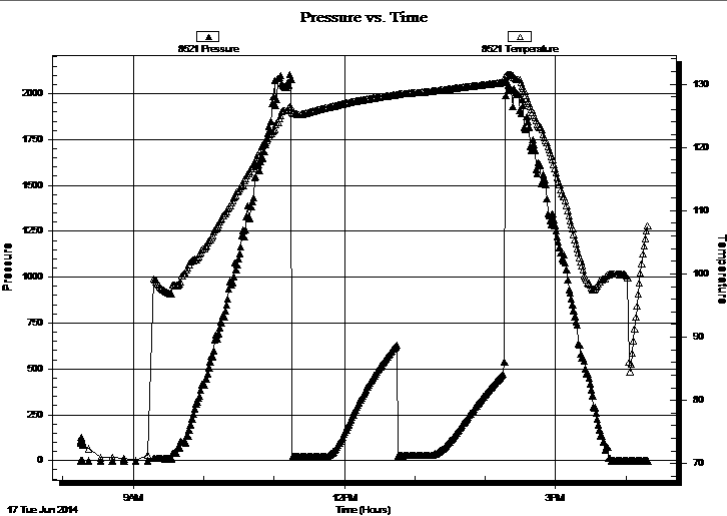
Time Off Btm:

TEST COMMENT: 30-IF- Blow built to 3/4"

60-ISI- No return

30-FF- No blow

60-FSI- No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud w ith oil spots 100%m	0.10

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 1S 37W Cheyenne KS

250 N Water STE. 300
Wichita KS 67202

Jones 'A' #2-17

Job Ticket: 58796

DST#: 2

ATTN: Rocky Milford

Test Start: 2014.06.17 @ 08:15:00

Tool Information

Drill Pipe:	Length: 4007.00 ft	Diameter: 3.88 inches	Volume: 58.60 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.51 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4210.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	153.00 ft			
Tool Length:	180.00 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			4188.00	
Hydraulic tool	5.00			4193.00	
Jars	5.00			4198.00	
Safety Joint	3.00			4201.00	
Packer	5.00			4206.00	27.00 Bottom Of Top Packer
Packer	4.00			4210.00	
Stubb	1.00			4211.00	
Recorder	0.00	8521	Inside	4211.00	
Recorder	0.00	6769	Outside	4211.00	
Perforations	22.00			4233.00	
Change Over Sub	1.00			4234.00	
Drill Pipe	125.00			4359.00	
Change Over Sub	1.00			4360.00	
Bullnose	3.00			4363.00	153.00 Bottom Packers & Anchor

Total Tool Length: 180.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling CO, INC

17 1S 37W Cheyenne KS

250 N Water STE. 300
Wichita KS 67202

Jones 'A' #2-17

Job Ticket: 58796

DST#: 2

ATTN: Rocky Milford

Test Start: 2014.06.17 @ 08:15:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	mud w ith oil spots 100%m	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

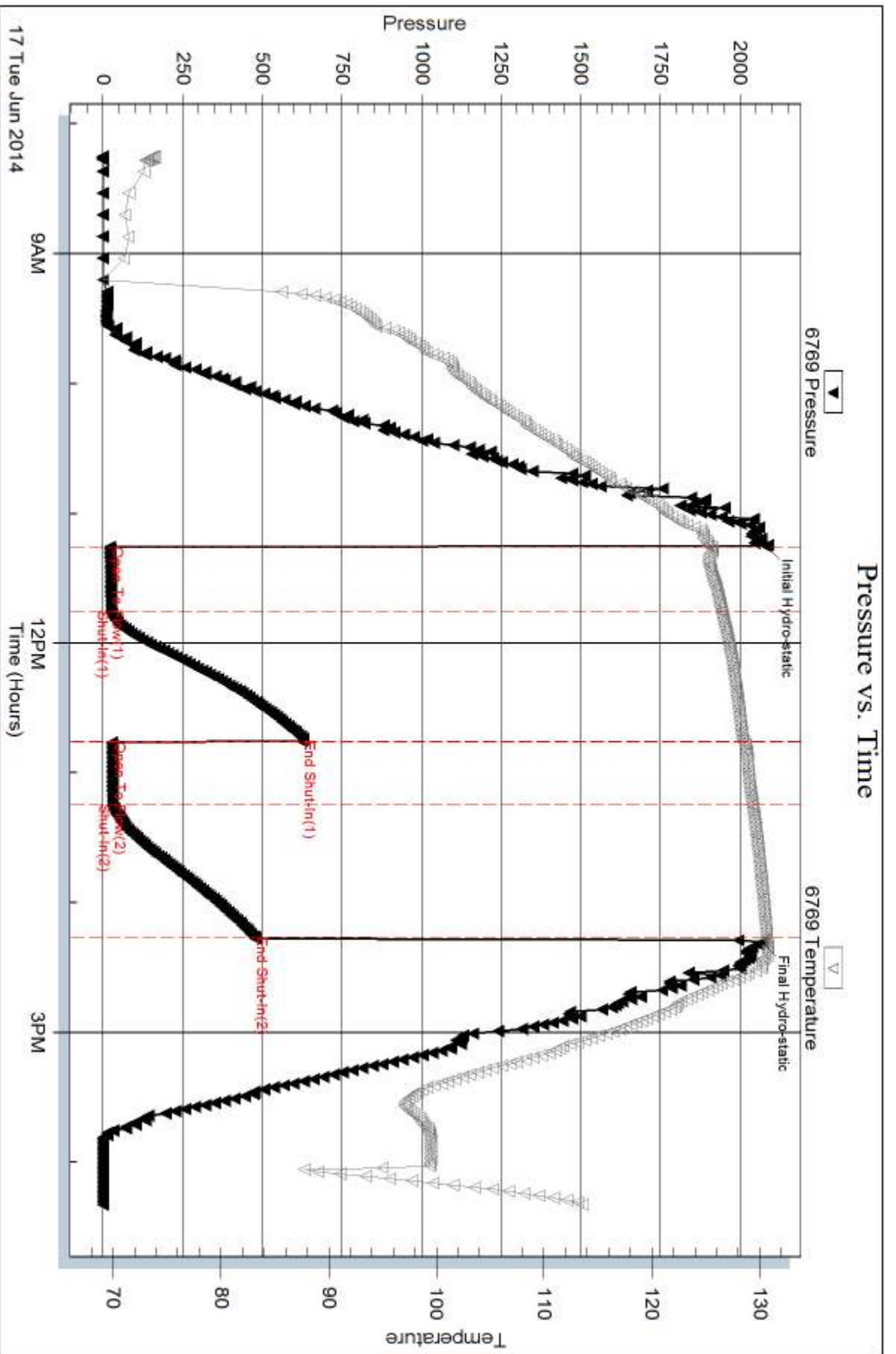
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



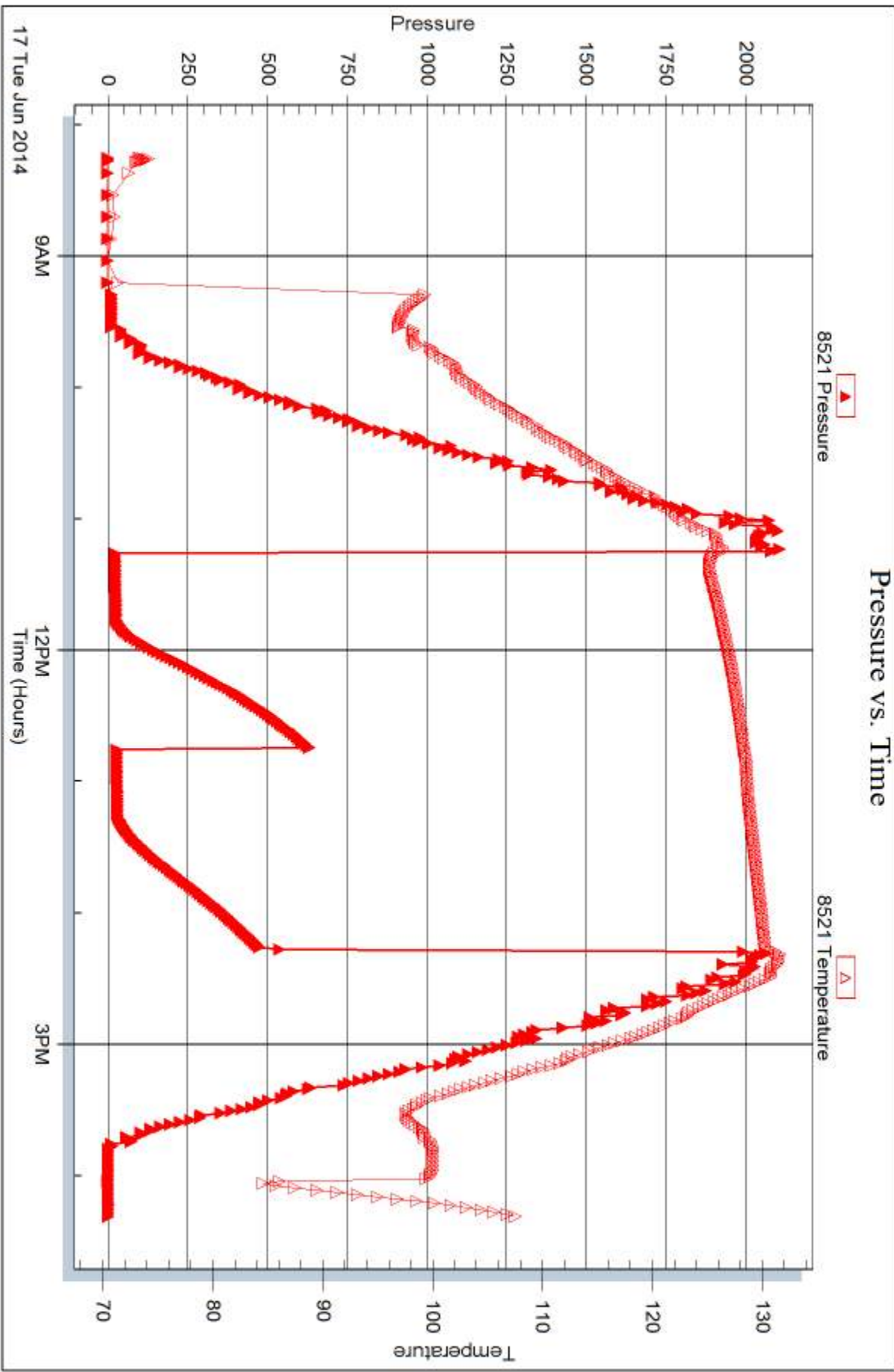
Serial #: 8521

Inside

Murfin Drilling CO, INC

Jones 'A' #2-17

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling CO, INC**

250 N Water STE. 300
Wichita KS 67202

ATTN: Rocky Milford

Jones 'A' #2-17

17 1S 37W Cheyenne KS

Start Date: 2014.06.18 @ 13:30:00

End Date: 2014.06.18 @ 22:08:30

Job Ticket #: 58797 DST #: 3

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

Printed: 2014.06.23 @ 08:47:21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling CO, INC

17 1S 37W Cheyenne KS

250 N Water STE. 300
Wichita KS 67202

Jones 'A' #2-17

ATTN: Rocky Milford

Job Ticket: 58797

DST#: 3

Test Start: 2014.06.18 @ 13:30:00

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:54:30
 Time Test Ended: 22:08:30
 Interval: **4513.00 ft (KB) To 4560.00 ft (KB) (TVD)**
 Total Depth: 4560.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Robert Zodrow
 Unit No: 46
 Reference Elevations: 3197.00 ft (KB)
 3192.00 ft (CF)
 KB to GR/CF: 5.00 ft

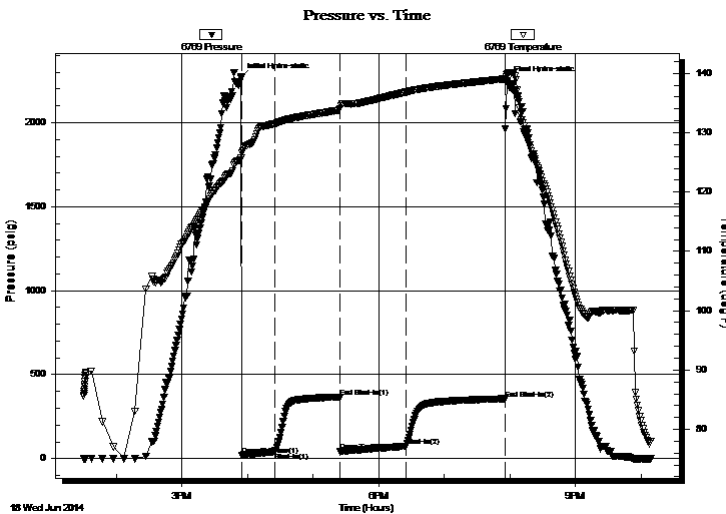
Serial #: 6769

Outside

Press@RunDepth: 75.80 psig @ 4514.00 ft (KB)
 Start Date: 2014.06.18 End Date: 2014.06.18
 Start Time: 13:30:05 End Time: 22:08:30
 Capacity: 8000.00 psig
 Last Calib.: 2014.06.18
 Time On Btm: 2014.06.18 @ 15:54:00
 Time Off Btm: 2014.06.18 @ 19:57:00

TEST COMMENT: 30-IS- Blow built to 4 3/4"
 60-IS- No return
 60-FF- Blow built to 11"
 90-FS- Return built to surface died in 45 mins

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2270.14	125.83	Initial Hydro-static
1	19.77	126.51	Open To Flow (1)
31	40.87	131.51	Shut-In(1)
90	363.25	133.79	End Shut-In(1)
91	42.86	134.00	Open To Flow (2)
151	75.80	136.81	Shut-In(2)
241	356.86	139.07	End Shut-In(2)
243	2248.17	139.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	ocm 5%g 45%o 50%m	0.30
123.00	clean oil 5%g 95%o	0.60
0.00	124 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling CO, INC

17 1S 37W Cheyenne KS

250 N Water STE. 300
Wichita KS 67202

Jones 'A' #2-17

Job Ticket: 58797

DST#: 3

ATTN: Rocky Milford

Test Start: 2014.06.18 @ 13:30:00

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 15:54:30
 Tester: Robert Zodrow
 Time Test Ended: 22:08:30
 Unit No: 46
 Interval: **4513.00 ft (KB) To 4560.00 ft (KB) (TVD)**
 Reference Elevations: 3197.00 ft (KB)
 Total Depth: 4560.00 ft (KB) (TVD)
 3192.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

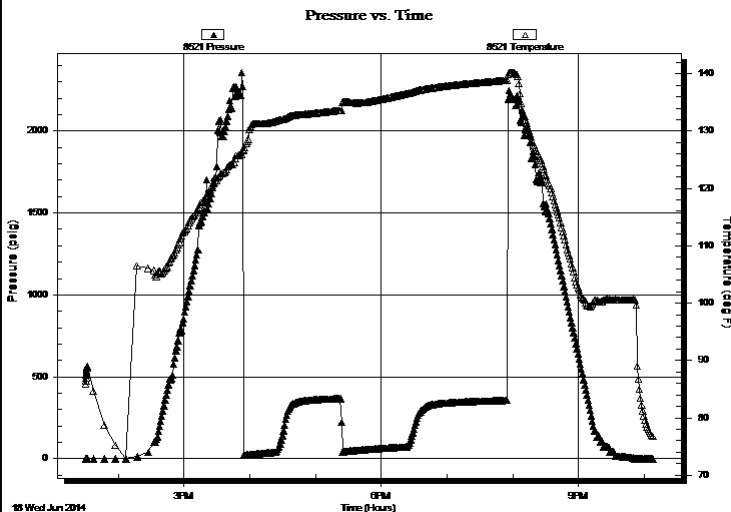
Serial #: 8521

Inside

Press@RunDepth: psig @ 4514.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2014.06.18
 End Date: 2014.06.18
 Last Calib.: 2014.06.18
 Start Time: 13:30:05
 End Time: 22:08:00
 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF- Blow built to 4 3/4"
 60-IS- No return
 60-FF- Blow built to 11"
 90-FS- Return built to surface died in 45 mins

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	ocm 5%g 45%o 50%m	0.30
123.00	clean oil 5%g 95%o	0.60
0.00	124 GIP	0.00

* 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 1S 37W Cheyenne KS

250 N Water STE. 300
Wichita KS 67202

Jones 'A' #2-17

Job Ticket: 58797

DST#: 3

ATTN: Rocky Milford

Test Start: 2014.06.18 @ 13:30:00

Tool Information

Drill Pipe:	Length: 4320.00 ft	Diameter: 3.88 inches	Volume: 63.18 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 64.09 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4513.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	74.00 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			4491.00	
Hydraulic tool	5.00			4496.00	
Jars	5.00			4501.00	
Safety Joint	3.00			4504.00	
Packer	5.00			4509.00	27.00 Bottom Of Top Packer
Packer	4.00			4513.00	
Stubb	1.00			4514.00	
Recorder	0.00	8521	Inside	4514.00	
Recorder	0.00	6769	Outside	4514.00	
Perforations	10.00			4524.00	
Change Over Sub	1.00			4525.00	
Drill Pipe	31.00			4556.00	
Change Over Sub	1.00			4557.00	
Bullnose	3.00			4560.00	47.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling CO, INC

17 1S 37W Cheyenne KS

250 N Water STE. 300
Wichita KS 67202

Jones 'A' #2-17

Job Ticket: 58797

DST#: 3

ATTN: Rocky Milford

Test Start: 2014.06.18 @ 13:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	ocm 5%g 45%o 50%m	0.305
123.00	clean oil 5%g 95%o	0.605
0.00	124 GIP	0.000

Total Length: 185.00 ft Total Volume: 0.910 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

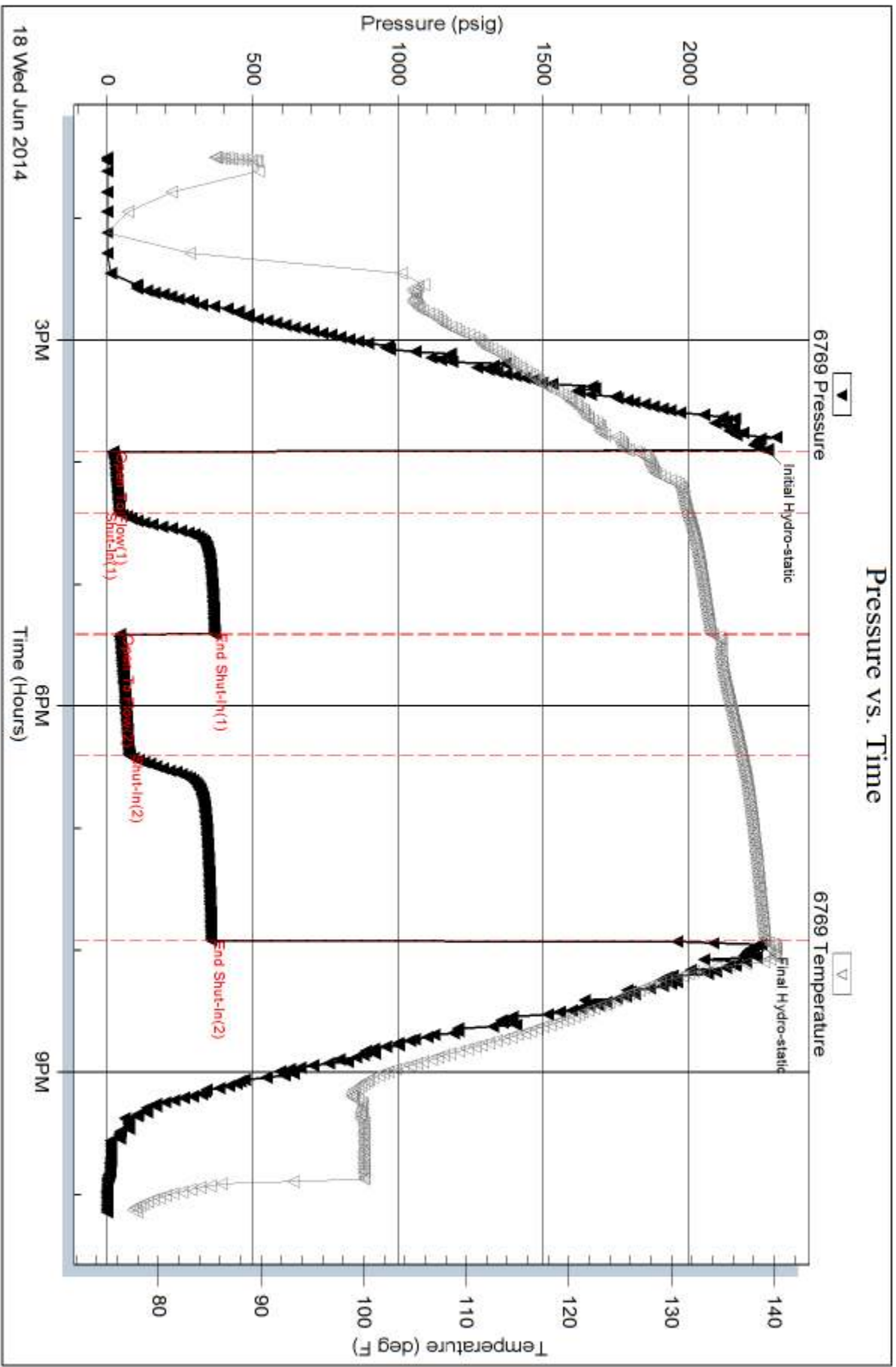
Recovery Comments:

Serial #: 6769

Outside Murfin Drilling CO, INC

Jones 'A' #2-17

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58797

Printed: 2014.06.23 @ 08:47:22

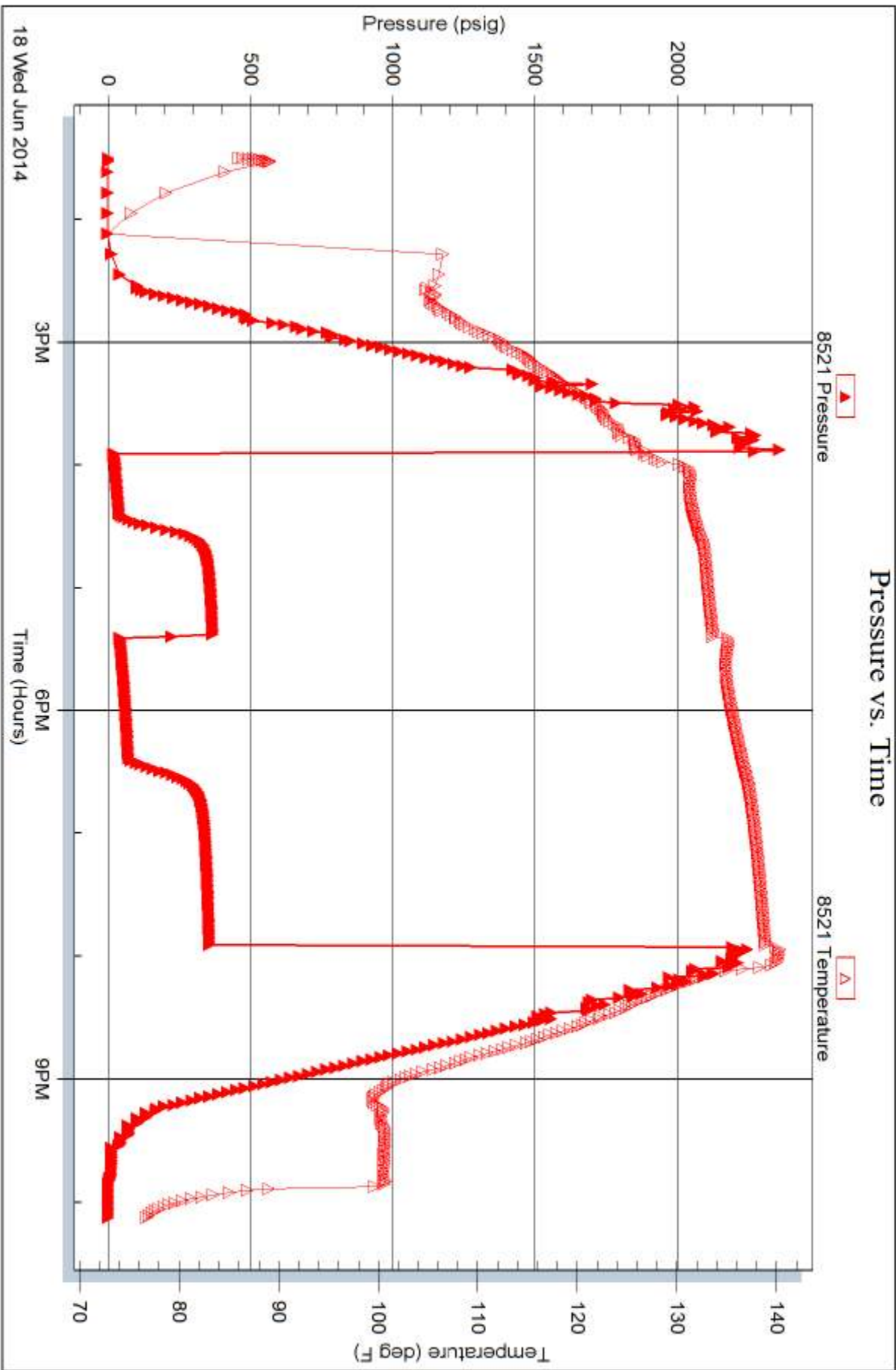
Serial #: 8521

Inside

Murfin Drilling CO., INC

Jones 'A' #2-17

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58797

Printed: 2014.06.23 @ 08:47:23



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58795

Well Name & No. Jones 'A' #2-17 Test No. 1 Date 6-16-2014
 Company Murfin Drilling CO, INC Elevation 3192 KB 3192 GL
 Address 250 N Water STE 300 Wichita KS, 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #8
 Location: Sec. 17 Twp. 2S Rge. 37W Co. Cheyenne State KS.

Interval Tested 4093 - 4215 Zone Tested LKC "A-D"
 Anchor Length 122 Drill Pipe Run 3913 Mud Wt. 9.7
 Top Packer Depth 4089 Drill Collars Run 185 Vis 62
 Bottom Packer Depth 4093 Wt. Pipe Run 0 WL 5.6
 Total Depth 4215 Chlorides 700 ppm System LCM 4.0

Blow Description IF - Blow built to 4 1/4"
ISI - NO return
FP - Blow built to 8 3/4"
FSI - Real weak surface blow on return died in 20 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>210</u>	<u>900m</u>	<u>17</u>	<u>40</u>	<u>43</u>	
Rec	Feet of <u>160 YIP</u>	%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 210 BHT 132 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2016 Test 1250 T-On Location 05:15 6-16
 (B) First Initial Flow 49 Jars 250 T-Started 06:15 6-16
 (C) First Final Flow 78 Safety Joint 75 T-Open 09:25 6-16
 (D) Initial Shut-In 1376 Circ Sub _____ T-Pulled 13:25 6-16
 (E) Second Initial Flow 87 Hourly Standby _____ T-Out 15:56 6-16
 (F) Second Final Flow 105 Mileage 132 RT 204.60 Comments _____
 (G) Final Shut-In 1355 Sampler _____
 (H) Final Hydrostatic 1968 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1779.60
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1779.60

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

Approved By Rocky Milford Our Representative Robert Zochow

Trilobite Testing Inc. shall not be liable for damaged or 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. 58796

Well Name & No. Jones 'A' #2-17 Test No. 2 Date 6-17-2014
 Company Murfin Drilling CO, Inc. Elevation 3197 KB 3192 GL
 Address 250 N water STE 300 Wichita KS, 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #8
 Location: Sec. 17 Twp. 1S Rge. 37W Co. Cheyenne State KS

Interval Tested 4210 - 4363 Zone Tested LKC "H-J"
 Anchor Length 153 Drill Pipe Run 4007 Mud Wt. 9.2
 Top Packer Depth 4206 Drill Collars Run 185 Vis 57
 Bottom Packer Depth 4210 Wt. Pipe Run 0 WL 6.0
 Total Depth 4363 Chlorides 200 ppm System LCM 2.0
 Blow Description IF - Blow built to 3/4"
ISI - No return
FF - NO blow
FSI - NO return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>mud</u>	<u>spotted</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 20 BHT 131 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2081 Test 1250 T-On Location 07:45 6-17
 (B) First Initial Flow 22 Jars 250 T-Started 08:15 6-17
 (C) First Final Flow 26 Safety Joint 75 T-Open 11:15 6-17
 (D) Initial Shut-In 624 Circ Sub _____ T-Pulled 14:16 6-17
 (E) Second Initial Flow 28 Hourly Standby _____ T-Out 16:19 6-17
 (F) Second Final Flow 30 Mileage 132 RT 204.60 Comments _____
 (G) Final Shut-In 474 Sampler _____
 (H) Final Hydrostatic 2070 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1779.60
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1779.60

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

Approved By Rocky Milford Our Representative Robert Zedner

Trilobite Testing Inc. shall not be liable for damaged or 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. 58797

Well Name & No. Jones 'A' #2-17 Test No. 3 Date 6-18-2019
 Company Murfin Drilling Co, Inc Elevation 3197 KB 3192 GL
 Address 250 N Water STE 300 Wichita KS, 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #8
 Location: Sec. 17 Twp. 1 S Rge. 37W Co. cheyenne State KS

Interval Tested 4513 - 4560 Zone Tested Pawnee
 Anchor Length 47 Drill Pipe Run 4320 Mud Wt. 9.3
 Top Packer Depth 4509 Drill Collars Run 185 Vis 55
 Bottom Packer Depth 4513 (shale) Wt. Pipe Run 0 WL 6.4
 Total Depth 4560 Chlorides 700 ppm System LCM 1.5
 Blow Description IF - Blow built to 4 3/4
ISI - No return
FF - Blow built to 11"
FSE - Return built to surface died in 45 mins

Rec	Feet of	%gas	%oil	%water	%mud
<u>123</u>	<u>oil</u>	<u>5</u>		<u>95</u>	
<u>62</u>	<u>ocm</u>	<u>5</u>	<u>45</u>	<u>50</u>	
	<u>124 HCP</u>				

Rec Total 185 BHT 139 Gravity 35 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2270 Test 1250 T-On Location 13:00 6-18
 (B) First Initial Flow 20 Jars 250 T-Started 13:30 6-18
 (C) First Final Flow 41 Safety Joint 75 T-Open 15:54 6-18
 (D) Initial Shut-In 363 Circ Sub _____ T-Pulled 19:55 6-18
 (E) Second Initial Flow 43 Hourly Standby _____ T-Out 22:08 6-18
 (F) Second Final Flow 76 Mileage 132 RT X 2 409.20 Comments Loaded tool
 (G) Final Shut-In 357 Sampler _____ 6-19-14 at 12:00
 (H) Final Hydrostatic 2248 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 2234.20
 Accessibility _____ MP/DST Disc't _____
 Sub Total 2234.20

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

Approved By Rocky Milford Our Representative Robert Zedman

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Robert L. Milford

PETROLEUM GEOLOGIST
Wichita Kansas

GEOLOGISTS REPORT
DRILLING TIME AND SAMPLE LOG

OPERATOR **Murfin Drilling Company, Inc.**
LEASE **Jones 'A' #2-17**
LOC SPOT **C NE NE**

ELEVATIONS
KB **3,190'**
CL **3,185'**

LOC FOOTAGE **660' FNL 660' FEL**
SEC. **17** T15P **15** R15S **37W**
COUNTY **Cheyenne** STATE **KANSAS**

CONTRACTOR **Murfin Drilling Co., Inc.** RIG NO. **8**
DRILLING STARTED **6-12-2014** COMPLETED **6-19-2014**
MUD DISPLAY/LOG **3,202** MUD TYPE **Chemical**
DRILLING TIME KEPT FROM **3,990'** TO **RTD**
SAMPLES SAVED FROM **3,990'** TO **RTD**
SAMPLES EXAMINED FROM **3,990'** TO **RTD**
GEOLOGICAL SUPERVISION FROM **3,990'** TO **RTD**

APR **15-02-21397-00-00**
SURFACE **8' 8" @ 219'**
w/ 225 sacks cement
Production **5.1/2" @ 800** sacks cement

ELECTRICAL SURVEYS
Forward Wireline
Dial Induction Log
Dial Compensated -

FORMATION NAME LOG TOP DATUM TOP SAMPLE DATE DATUM

Stone Corral 3134' +56 3136' +54
Neva 3588' -398 3590' -400
Topeka 3923' -733 3925' -735
Oread 4088' -868 4090' -870
Lansing 4136' -946 4138' -948
Stark 4388' -1168 4390' -1170
B/KC 4414' -1224 4416' -1226
Pawnee 4530' -1340 4532' -1342
Cherokee 4620' -1430 4622' -1432

Formation Name Log
Top Datum Top Sample Date Datum
Stone Corral
Borehole Compensated -
Microresistivity Log
Sonic Log



FORMATION NAME	LOG TOP	DATUM	TOP SAMPLE DATE	DATUM
Stone Corral	3134'	+56	3136'	+54
Neva	3588'	-398	3590'	-400
Topeka	3923'	-733	3925'	-735
Oread	4088'	-868	4090'	-870
Lansing	4136'	-946	4138'	-948
Stark	4388'	-1168	4390'	-1170
B/KC	4414'	-1224	4416'	-1226
Pawnee	4530'	-1340	4532'	-1342
Cherokee	4620'	-1430	4622'	-1432
Total Depth	4729'	-1539	4730'	-1540

DATE	7:00 AM DEPTH	REMARKS
6-11-14	0'	Spud @ 1:45 pm. Plug down @ 7:00 pm. Drilled out plug @ 3:00 am on 6-12-14 w/ PDC bit
6-12-14	505'	Cut 505' in last 24 hrs; 4 hrs drlg.. Bit trips @ 1345' & 1622' to clean out bit
6-13-14	2,035'	Cut 1,530' in last 24 hrs; 19.75 hrs drlg.. Bit trip @ 3335' (ran button bit)
6-14-14	3,360'	Cut 1,325' in last 24 hrs; 16.75 hrs drlg.
6-15-14	3,915'	Cut 555' in last 24 hrs; 21.75 hrs drlg. DST #1 @ 4215'
6-16-14	4,215'	Cut 300' in last 24 hrs; 14.5 hrs drlg. DST #2 @ 4363'
6-17-14	4,363'	Cut 148' in last 24 hrs; 7.5 hrs drlg.
6-18-14	4,540'	Cut 177' in last 24 hrs; 10.25 hrs drlg. DST #3 @ 4560'
6-19-14	4,640'	Cut 100' in last 24 hrs; 6 hrs drlg. RTD 4730' @ 12:03 pm
6-20-14	4,730'	Cut 90' in last 24 hrs; 4 hrs drlg. Ran production casing

Remarks

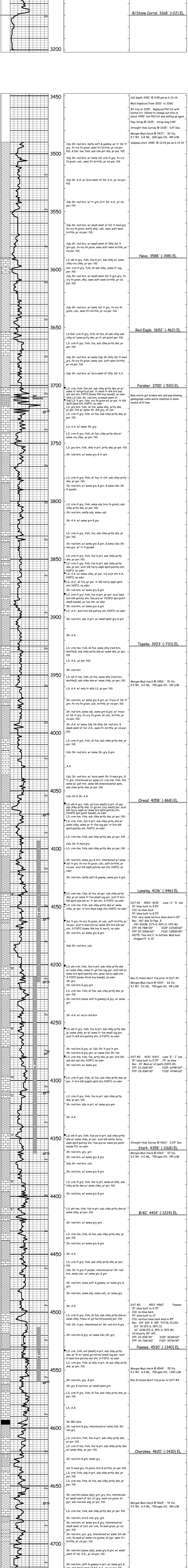
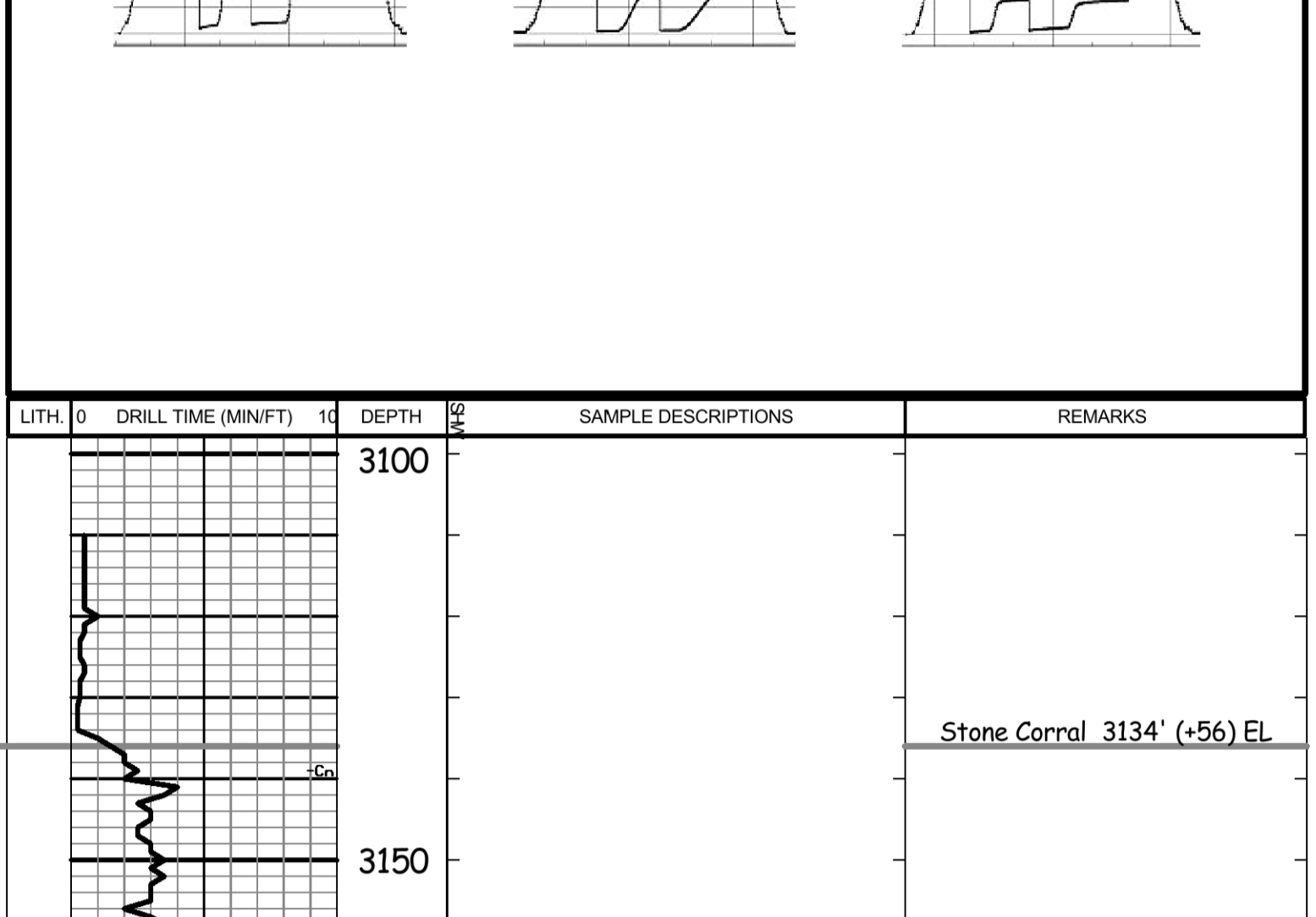
The electric log measurements correlate about 2' higher to the drilling measurements.

Formation tops and lithology on this report have been corrected to the electric log.

The drilling samples were deposited at the Kansas Geological Survey office in Wichita.

Respectfully submitted,

Robert L. Milford





Proel-MG

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 1437 96

Invoice Date: Jun 11, 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	64027	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jun 11, 2014	7/11/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Jones A #2-17		
225.00	CEMENT MATERIALS	Class A Common	17.90	4,027.50
635.00	CEMENT MATERIALS	Chloride	1.10	698.50
236.25	CEMENT SERVICE	Cubic Feet Charge	2.48	585.90
980.27	CEMENT SERVICE	Ton Mileage Charge	2.75	2,695.74
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
90.00	CEMENT SERVICE	Pump Truck Mileage	7.70	693.00
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
90.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	396.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		

Subtotal	10,883.89
Sales Tax	385.17
Total Invoice Amount	11,269.06
Payment/Credit Applied	
TOTAL	11,269.06

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

\$ 3,809.36

ONLY IF PAID ON OR BEFORE
Jul 11, 2014

OK
ll

ALLIED OIL & GAS SERVICES, LLC 064027

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Saklaks

DATE <u>6-11-14</u>	SEC. <u>17</u>	TWP. <u>1</u>	RANGE <u>37</u>	CALLED OUT	ON LOCATION <u>5:30 pm</u>	JOB START <u>6:30 pm</u>	JOB FINISH <u>2:00 PM</u>
LEASE <u>Travis A</u>	WELL# <u>2-17</u>	LOCATION <u>Berkelmann Rd 702, 32 (3D)</u>	COUNTY <u>Cherokee</u>	STATE <u>KS</u>			
OLD OR NEW (Circle one) <u>NEW</u>		<u>29, Winto</u>					

CONTRACTOR Merfin J
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 219
 CASING SIZE 8 3/8 DEPTH 219
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 30' per Rodney
 PERFS.
 DISPLACEMENT 120661

OWNER Same
 CEMENT
 AMOUNT ORDERED 225 stks com 3% CC

EQUIPMENT
 PUMP TRUCK CEMENTER LaRene E. Wash
 # 422 HELPER Wayne McLaughlin
 BULK TRUCK
 # 373/308 DRIVER Ramiro Zavala (TWS)
 BULK TRUCK
 # DRIVER

COMMON 225 stk @ 17.90 4027.50
 POZMIX @
 GEL @
 CHLORIDE 635# @ 1.10 698.50
 ASC @

Material Total 4726.00
(4659.10 / 35%)
 HANDLING 23625 stk @ 2.48 585.90
 MILEAGE 10.87 hr @ 90 x 2.75 2695.75
 TOTAL _____

REMARKS:

Mix 225 stks cement
Displace with water
Cement did circulate
30 ft pits

SERVICE

DEPTH OF JOB 219
 PUMP TRUCK CHARGE 1312.23
 EXTRA FOOTAGE @
 MILEAGE MDFU 90 @ 7.70 693.00
 MANIFOLD 5 wage @ 275.00
MFLU 90 @ 4.40 396.00
(2155.26 / 35%) 6,107.90
 TOTAL _____

PLUG & FLOAT EQUIPMENT

 @

 @

 @

 @

 @

 TOTAL _____

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 _____

SIGNATURE Rodney Fay

SALES TAX (If Any) _____
 TOTAL CHARGES 10,883.90
 DISCOUNT 3,809.36 (35%) IF PAID IN 30 DAYS
7,074.53 Net.



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
6/20/2014	26349

BILL TO	
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661	USED FOR <u>ICD3</u> APPROVED <u>JY RK</u>

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2-17	Jones A	Cheyenne	Company Tools	Oil	Development	Cement LongStri...	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				170	Miles	6.00	1,020.00
579D	Pump Charge - Top To Bottom LongString				1	Job	2,000.00	2,000.00
403-5	5 1/2" Cement Basket				3	Each	300.00	900.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	275.00	275.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	375.00	375.00T
409-5	5 1/2" Turbolizer				15	Each	90.00	1,350.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
330	Swift Multi-Density Standard (MIDCON II)				300	Sacks	18.50	5,550.00T
325	Standard Cement				200	Sacks	14.50	2,900.00T
284	Calseal				10	Sack(s)	35.00	350.00T
283	Salt				1,000	Lb(s)	0.20	200.00T
285	CFR-1				100	Lb(s)	4.50	450.00T
276	Flocele				125	Lb(s)	2.50	312.50T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
290	D-Air				5	Gallon(s)	42.00	210.00T
581D	Service Charge Cement				500	Sacks	2.00	1,000.00
583D	Drayage				4,318.25	Ton Miles	1.00	4,318.25
	Subtotal							22,135.75
	Sales Tax Cheyenne County						8.15%	1,124.50
We Appreciate Your Business!						Total		\$23,260.25



Services, Inc.

CHARGE TO: Murphy Drilling
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 26349

PAGE 1 OF 2

SERVICE LOCATIONS

1. Wichita KS WELLS/PROJECT NO. 2-17 LEASE Yonko A COUNTY/PARISH Cheyenne STATE KS CITY Mc Donald DATE 20 Jun 14 OWNER

2. TICKET TYPE SERVICE CONTRACTOR to tests RIG NAME/NO. 3 SHIPPED/DELIVERED TO WEL location ORDER NO.

3. WELL TYPE 0-1 WELL CATEGORY Development JOB PURPOSE convert long string WELL PERMIT NO. WELL LOCATION 17-1-37

4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT								
575		1			TRAILER	170	mi			6.00	1020.00
579		1			Pump Charge	1	ea			2000.00	2000.00
403		1			Convert Bskret	5	in	3	ea	300.00	900.00
406		1			Latch down plug & handle	5	in	1	ea	275.00	275.00
407		1			Insert float shoe w/ auto fill	5	in	1	ea	375.00	375.00
409		1			TURBOCHARGER	5	in	1	ea	900.00	1350.00
413		1			Rate with scratches	5	in			40.00	
419		1			Rotating head renewal	5	in	1	ea	200.00	200.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X DATE SIGNED MM/YY TIME SIGNED AM P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL 1

6120.00

Subtotal 21136.75

Cheyenne TAX 8.15%

1,124.50

TOTAL 23260.25

SWIFT OPERATOR BRM APPROVAL

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 26349

CUSTOMER: WIREN DRILLING
WELL: Jones A 2-17
DATE: 30 Jan 14
PAGE: 21 OF 2

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING		TIME	DESCRIPTION	WELL		DATE	UNIT PRICE	AMOUNT
		LOC	ACCT			QTY	UM			
330					SMD cement	300	sk		1850	5550.00
325					STANDARD cement (for 8-2)	200	sk		14.00	2900.00
284					Calseal	1000	lb	10	sk	350.00
283					SALT	1000	lb		0.20	200.00
285					CFR-1	100	lb		4.50	450.00
276					Fiberle	125	lb		2.50	312.50
281					mud flush	500	gal		1.25	625.00
281					RCL Liquid	4	gal		25.00	100.00
290					D-Air	5	gal		42.00	210.00
581					SERVICE CHARGE	500			2.00	1000.00
583					MILEAGE CHARGE	50	WEIGHT	4	318.25	16015.75

CONTINUATION TOTAL 16015.75

JOB LOG

SWIFT Services, Inc.

DATE 20 Jun 14 PAGE NO. 1
 TICKET NO. 26349

CUSTOMER MURFIN DRILLING WELL NO. 2-17 LEASE Jones A JOB TYPE cement long string

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								300 SMD cement w/ 1/4" Floccle 200 SA-2 cement w/ 1/4" Floccle 5 1/2" x 15.5# casing 113jts 4727' shoe jt 20.69" Basket 11, 35, 45 Centralizer 1-13, 35, 45
	0600							on loc TRK 114
	0615							start 5 1/2" x 15.5# casing in well
	0730							circulate #62 - Drop ball
	0815							circulate - ROTATE
	0915	4	32				200	Pump 500 mcf/dash - 20 bbl KCl flush Plug RH - MH <u>205k</u> - <u>205k</u>
			10					
	0930	4	138				200	mix SMD cement <u>205k</u> @ 11.2 ppg
		4	47				200	mix SA-2 cement <u>200k</u> @ 15.3 ppg
	1020							Drop back down plug wash out pump & line
	1032	6					200	Displace plug
		6	100				550	- lost circ last 5 bbl -
	1100	6	112				1000	Land plug - no cement to surface -
	1103							Release pressure to truck - dried up
	1105							Wash truck Rack up
	1145							job complete
								Thanks Flat, Blaine, 449.992225

Jones 'A' #2-17
 Daily Drilling Report
 Page Two

- 6/17/14 Depth 4363'. Cut 148' DT: 1hr pump. CT: 15¼ hrs. Dev.: None. **LKC G:** pr w/ some fr fos-small vug por, scat lt-drk brn patchy stn, S-FSFO, no odor. **LKC H:** pr por, tr brn-blk (asph) sptd stn, NSFO, no odor. **LKC J:** pr por, scat blk mstly tarry-asph sptd-patchy stn, few pcs w/ some pin point beads FO, no odor. **DST #2 4210- 4363 (LKC G-J):**
- 6/18/14 Depth 4540'. Cut 177'. DT: ¾ hr cat head. CT: 11¼ hrs. Dev.: ¼° @ 4363'. **DST #2 4210- 4363 (LKC G-J):** 30-60-30-60. IF: blow built to ¾". FF: no blw. Rec. 20' M w/oil spots (100% M). HP: 2081-2070. FP: 22/26, 28/30. SIP: 624-474. BHT: 131°. **Pawnee:** pr-fr w/ some gd introol-small vug por, scat lt-med brn patchy-sat stn, S-FSFO, no odor. **DST #3 4513-4560 (Pawnee):**
- 6/19/14 Depth 4640'. Cut 100'. DT: None. CT: 18hrs. Dev.: None. Had to shut down for ½ hr due to dust storm while TIH w/bit. **DST #3 4513-4560 (Pawnee):** 30-60-60-90. IF: blw built to 4¾". FF: blw built to 11". FSI: surf blw died in 45 min. Rec. 124' GIP, 185' TF, 123' O (5%G, 95%O), 62' OCM (5%G, 45%O, 50%M). Oil Grav 35° API. HP: 2270-2248. FP: 20/41, 43/76. SIP: 363-357. BHT: 139°.
- 6/20/14 RTD: 4730'. Cut 90'. DT: None. CT: 19hrs. Dev.: ¾° @ 4730'. TD @ 12:00PM 6/19. Pioneer logged 5:00PM – 10:45PM, LTD: 4729'. Running 5½" prod csg.
- 6/21/14 RTD: 4730'. CT: 8hrs. Ran 113jts of 15.5# 5 ½" prod csg, set @ 4727'. Swift cmt w/450sxs (250sxs SMD, 200sxs EA-2). PD @ 11:00AM 6/20. 30sxs RH, 20sxs MH. Didn't circ cmt. RR @ 3:00PM 6/20/14. FINAL REPORT

MDCI Jones 'A' #2-17 660' FNL 660' FEL Sec. 17-T1S-R37W 3190' KB							MDCI Jean #1-8 660' FSL 660' FEL Sec. 8-T1S-R37W 3219' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3136	+54	+3	3134	+56	+5	3168	+51
B/Anhydrite	3170	+20	+2	3168	+22	+4	3201	+18
Neva	3591	-401	+4	3588	-398	+7	3624	-405
Red Eagle	3655	-465	+2	3652	-462	+5	3686	-467
Foraker	3702	-512	+2	3700	-510	+4	3733	-514
Topeka	3928	-738	Flat	3923	-733	+5	3957	-738
Oread	4062	-872	+2	4058	-868	+6	4093	-874
Lansing	4139	-949	+4	4136	-946	+7	4172	-953
Stark	4360	-1170	+3	4358	-1168	+5	4392	-1173
BKC	4416	-1226	+4	4414	-1224	+6	4449	-1230
Pawnee	4534	-1344	+7	4530	-1340	+11	4570	-1351
Cherokee	4622	-1432	+6	4620	-1430	+8	4657	-1438
RTD	4730	-1540					4770	
LTD				4729	-1539		4767	-1548