



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1217825
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: _____

1217825

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Wilkins Unit 1-6
Doc ID	1217825

All Electric Logs Run

DIL
DUCP
MEL
BHCS

KEVIN L. KESSLER

CONSULTING PETROLEUM GEOLOGIST

(316) 522-7338

OPERATOR : MURFIN DRILLING COMPANY INC.
LEASE : WILKENS UNIT **WELL # : 1 - 6**
LOCATION : 2640' FWL & 1800' FWL
SEC: 06 **TWP : 17 S** **RGE : 32 W**
COUNTY : SCOTT **STATE : KANSAS**

ELEVATION
KB : 2987'
GL : 2976'
MEASUREMENTS FROM
KB

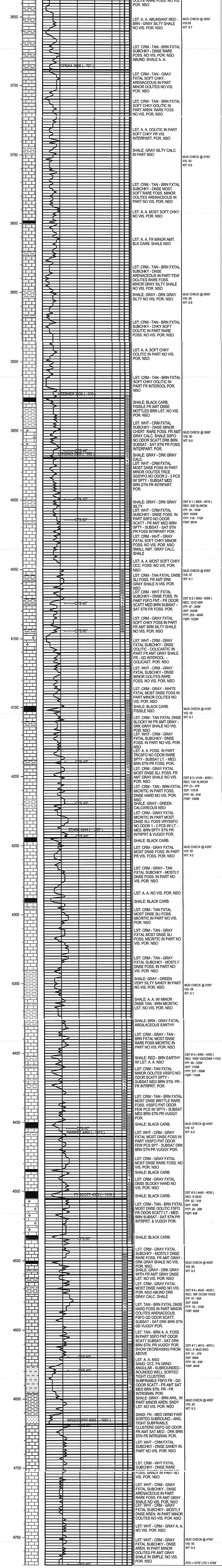
CONTRACTOR : MURFIN DRILLING CO. RIG # 22
COMM: 06 / 03 / 2014 **COMP : 06 / 14 / 2014**
RTD : 4770 **LOG TD : 4768**
SAMPLES SAVED FROM : 3600 **TO : RTD**
GEOLOGICAL SUPERVISION FROM : 3600 **TYPE MUD : CHEMICAL**
MUD UP : 3700

CASING RECORD
SURFACE :
8 5/8" @ 298'
PRODUCTION :

ELECTRICAL SURVEYS:
CDL/CNL

FORMATION	TOP	SAMPLE	DATUM	TOP	LOG	DATUM	STRUCT. COMP.
TOPEKA	3688	- 701	3686		- 699		+ 16
HEEBNER	3926	- 939	3923		- 936		+ 17
LANSING	3969	- 982	3968		- 981		+ 13
STARK	4244	- 1257	4242		- 1255		+ 16
PAWNEE	4460	- 1473	4462		- 1475		+ 18
FT. SCOTT	4505	- 1518	4504		- 1517		+ 20
MISSISSIPPI	4668	- 1681	4669		- 1682		+ 13

REFERENCE WELL FOR STRUCTURAL COMPARISON :



COMMENTS:

DUE TO NEGATIVE TEST RESULTS THIS WELL
WAS PLUGGED AS D & A

KEVIN L. KESSLER



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Wilkens Unit #1-6

6-17s-32w Scott,KS

Start Date: 2014.06.06 @ 23:06:37

End Date: 2014.06.07 @ 05:25:00

Job Ticket #: 56490 DST #: 1

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

Printed: 2014.06.13 @ 11:40:57



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56490

DST#: 1

ATTN: Kevin Kessler

Test Start: 2014.06.06 @ 23:06:37

GENERAL INFORMATION:

Formation: **Toronto- Lansing B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:17:37

Time Test Ended: 05:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 60

Interval: 3925.00 ft (KB) To 4015.00 ft (KB) (TVD)

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4015.00 ft (KB) (TVD)

2976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8373

Inside

Press@RunDepth: 172.03 psig @ 3926.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.06

End Date:

2014.06.07

Last Calib.:

2014.06.07

Start Time: 23:06:42

End Time:

05:24:59

Time On Btm:

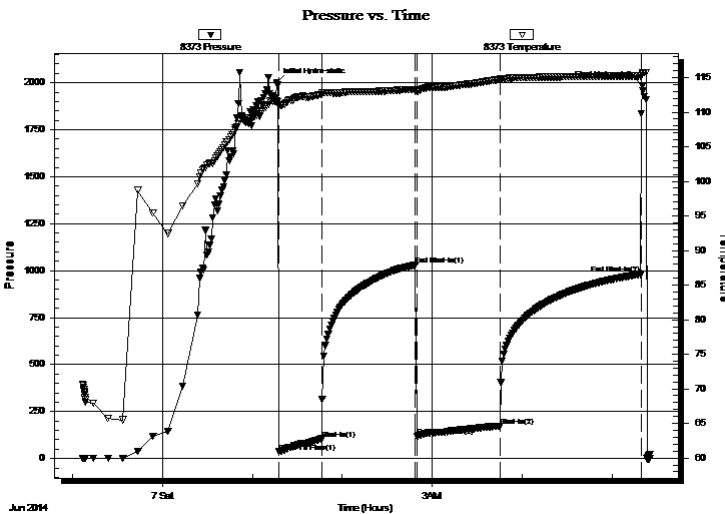
2014.06.07 @ 01:16:07

Time Off Btm:

2014.06.07 @ 05:20:07

TEST COMMENT: IF: 1/2" blow built to 6"
IS: No return.
FF: Surface blow built to 7"
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2001.86	111.58	Initial Hydro-static
2	34.83	110.92	Open To Flow (1)
30	104.75	112.59	Shut-In(1)
93	1030.04	113.26	End Shut-In(1)
94	118.28	112.95	Open To Flow (2)
149	172.03	114.69	Shut-In(2)
243	981.18	115.20	End Shut-In(2)
244	1982.92	115.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	w cm 5%w 95%m	0.91
144.00	mud 100%m	1.56

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott, KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56490 **DST#: 1**

ATTN: Kevin Kessler

Test Start: 2014.06.06 @ 23:06:37

GENERAL INFORMATION:

Formation: **Toronto- Lansing B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:17:37

Time Test Ended: 05:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 60

Interval: **3925.00 ft (KB) To 4015.00 ft (KB) (TVD)**

Total Depth: 4015.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2987.00 ft (KB)

2976.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8356 Outside

Press@RunDepth: psig @ 3926.00 ft (KB)

Start Date: 2014.06.06 End Date: 2014.06.07

Start Time: 23:06:22 End Time: 07:22:16

Capacity: 8000.00 psig

Last Calib.: 2014.06.07

Time On Btm:

Time Off Btm:

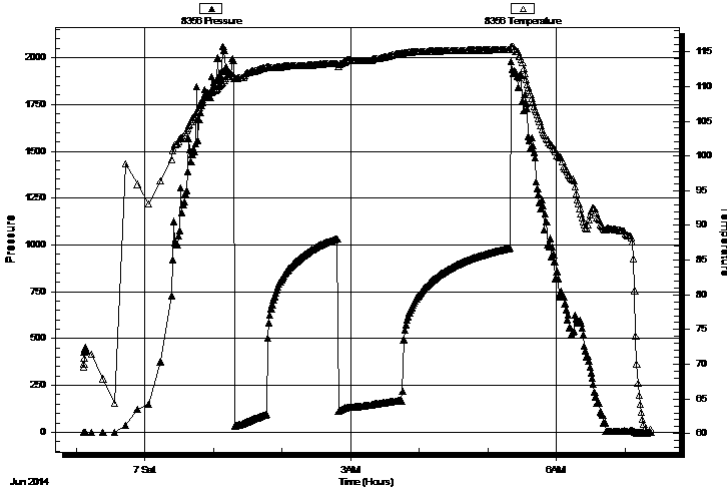
TEST COMMENT: IF: 1/2" blow built to 6"

IS: No return.

FF: Surface blow built to 7"

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
186.00	w cm 5%w 95% m	0.91
144.00	mud 100% m	1.56

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56490

DST#: 1

ATTN: Kevin Kessler

Test Start: 2014.06.06 @ 23:06:37

Tool Information

Drill Pipe:	Length: 3693.00 ft	Diameter: 3.80 inches	Volume: 51.80 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 52.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	3925.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	118.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3898.00	
Shut In Tool	5.00			3903.00	
Hydraulic tool	5.00			3908.00	
Jars	5.00			3913.00	
Safety Joint	3.00			3916.00	
Packer	5.00			3921.00	28.00 Bottom Of Top Packer
Packer	4.00			3925.00	
Stubb	1.00			3926.00	
Recorder	0.00	8373	Inside	3926.00	
Recorder	0.00	8356	Outside	3926.00	
Perforations	19.00			3945.00	
Change Over Sub	1.00			3946.00	
Drill Pipe	63.00			4009.00	
Change Over Sub	1.00			4010.00	
Bullnose	5.00			4015.00	90.00 Bottom Packers & Anchor

Total Tool Length: 118.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56490

DST#: 1

ATTN: Kevin Kessler

Test Start: 2014.06.06 @ 23:06:37

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	w cm 5%w 95%m	0.915
144.00	mud 100%m	1.564

Total Length: 330.00 ft

Total Volume: 2.479 bbl

Num Fluid Samples: 0

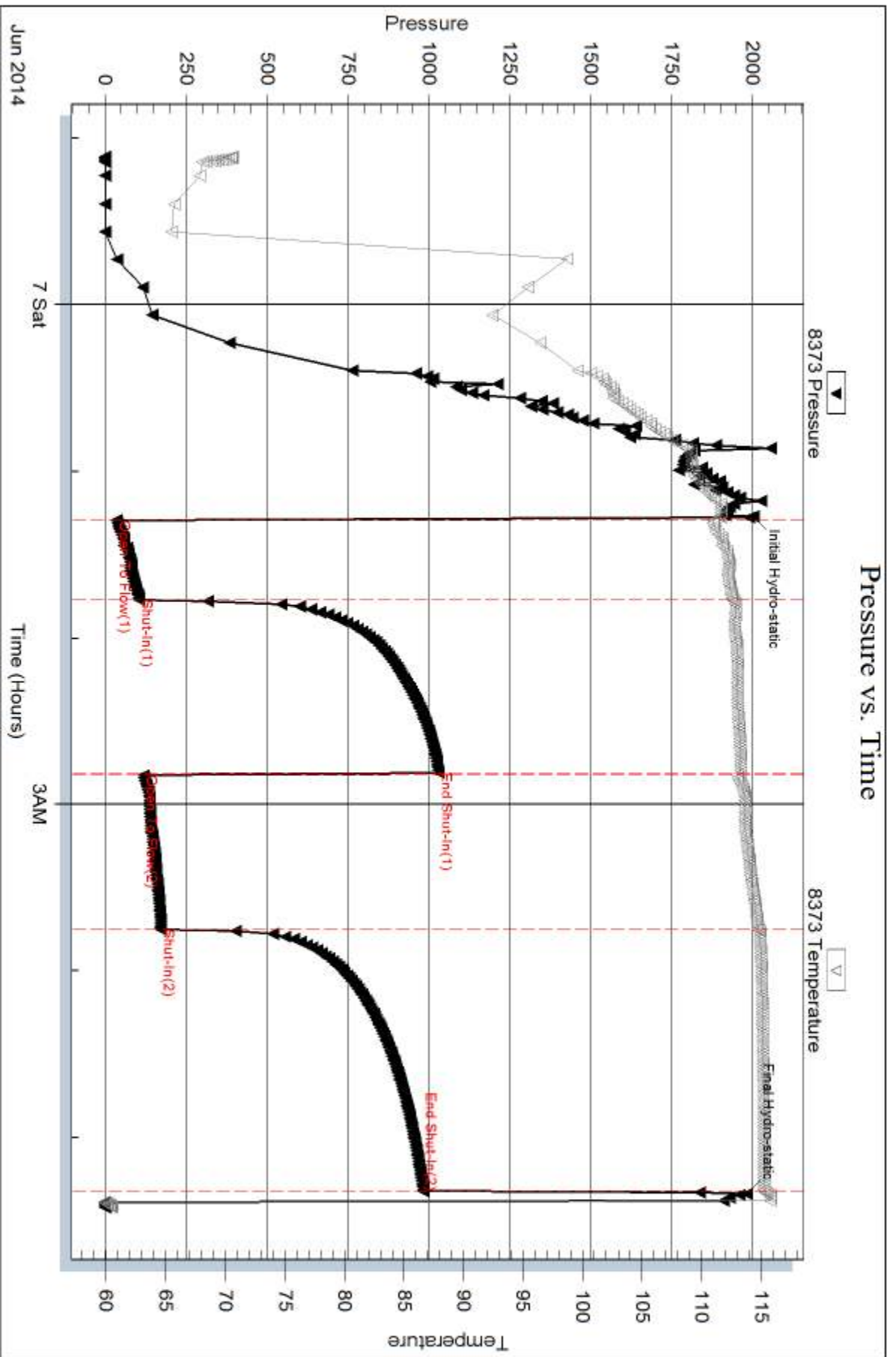
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

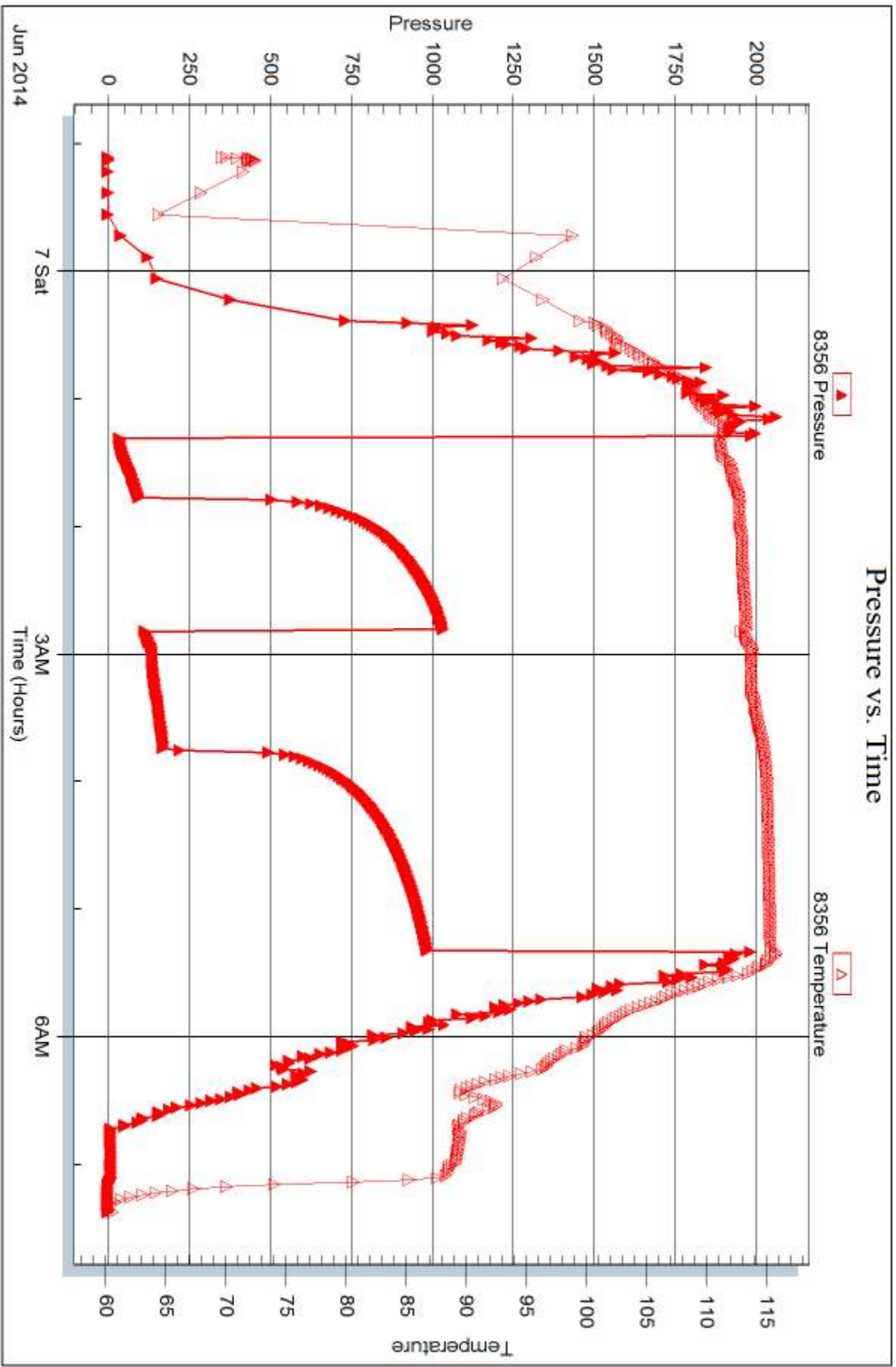


Serial #: 8356

Outside Murfin Drilling Co

Wilkins Unit #1-6

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56490

Printed: 2014.06.13 @ 11:40:58



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Wilkens Unit #1-6

6-17s-32w Scott,KS

Start Date: 2014.06.07 @ 19:20:29

End Date: 2014.06.08 @ 03:00:29

Job Ticket #: 56491 DST #: 2

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

Printed: 2014.06.13 @ 11:40:33

Murfin Drilling Co
6-17s-32w Scott,KS
Wilkens Unit #1-6
DST # 2
LKC E-F
2014.06.07



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott, KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56491

DST#: 2

ATTN: Kevin Kessler

Test Start: 2014.06.07 @ 19:20:29

GENERAL INFORMATION:

Formation: **LKC E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:52:59

Time Test Ended: 03:00:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 4050.00 ft (KB) To 4095.00 ft (KB) (TVD)

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4095.00 ft (KB) (TVD)

2976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8373

Inside

Press@RunDepth: 464.71 psig @ 4051.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.07

End Date:

2014.06.08

Last Calib.:

2014.06.08

Start Time: 19:20:34

End Time:

03:00:28

Time On Btm:

2014.06.07 @ 20:51:59

Time Off Btm:

2014.06.08 @ 00:49:59

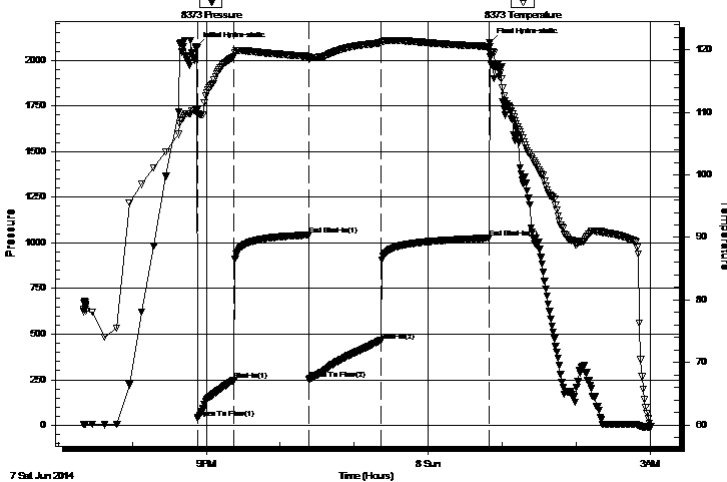
TEST COMMENT: IF: 1/4" blow BOB in 8 min.

IS: No return.

FF: BOB in 11 min.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2076.61	110.35	Initial Hydro-static
1	37.47	109.55	Open To Flow (1)
31	249.01	118.89	Shut-In(1)
91	1043.33	118.98	End Shut-In(1)
92	253.14	118.67	Open To Flow (2)
150	464.71	121.11	Shut-In(2)
238	1026.80	120.56	End Shut-In(2)
238	2097.51	120.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
620.00	water 100%w	6.55
248.00	mcw 80%w 20%m	3.48
144.00	mcw 60%w 40%m	2.02

* 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

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56491

DST#: 2

ATTN: Kevin Kessler

Test Start: 2014.06.07 @ 19:20:29

Tool Information

Drill Pipe:	Length: 3818.00 ft	Diameter: 3.80 inches	Volume: 53.56 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 54.72 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	78000.00 lb
Depth to Top Packer:	4050.00 ft			Final	78000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	45.00 ft				
Tool Length:	73.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4023.00	
Shut In Tool	5.00			4028.00	
Hydraulic tool	5.00			4033.00	
Jars	5.00			4038.00	
Safety Joint	3.00			4041.00	
Packer	5.00			4046.00	28.00 Bottom Of Top Packer
Packer	4.00			4050.00	
Stubb	1.00			4051.00	
Recorder	0.00	8373	Inside	4051.00	
Recorder	0.00	8356	Outside	4051.00	
Perforations	5.00			4056.00	
Change Over Sub	1.00			4057.00	
Drill Pipe	32.00			4089.00	
Change Over Sub	1.00			4090.00	
Bullnose	5.00			4095.00	45.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56491

DST#: 2

ATTN: Kevin Kessler

Test Start: 2014.06.07 @ 19:20:29

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

20000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
620.00	water 100%w	6.547
248.00	mcw 80%w 20%m	3.479
144.00	mcw 60%w 40%m	2.020

Total Length: 1012.00 ft Total Volume: 12.046 bbl

Num Fluid Samples: 0

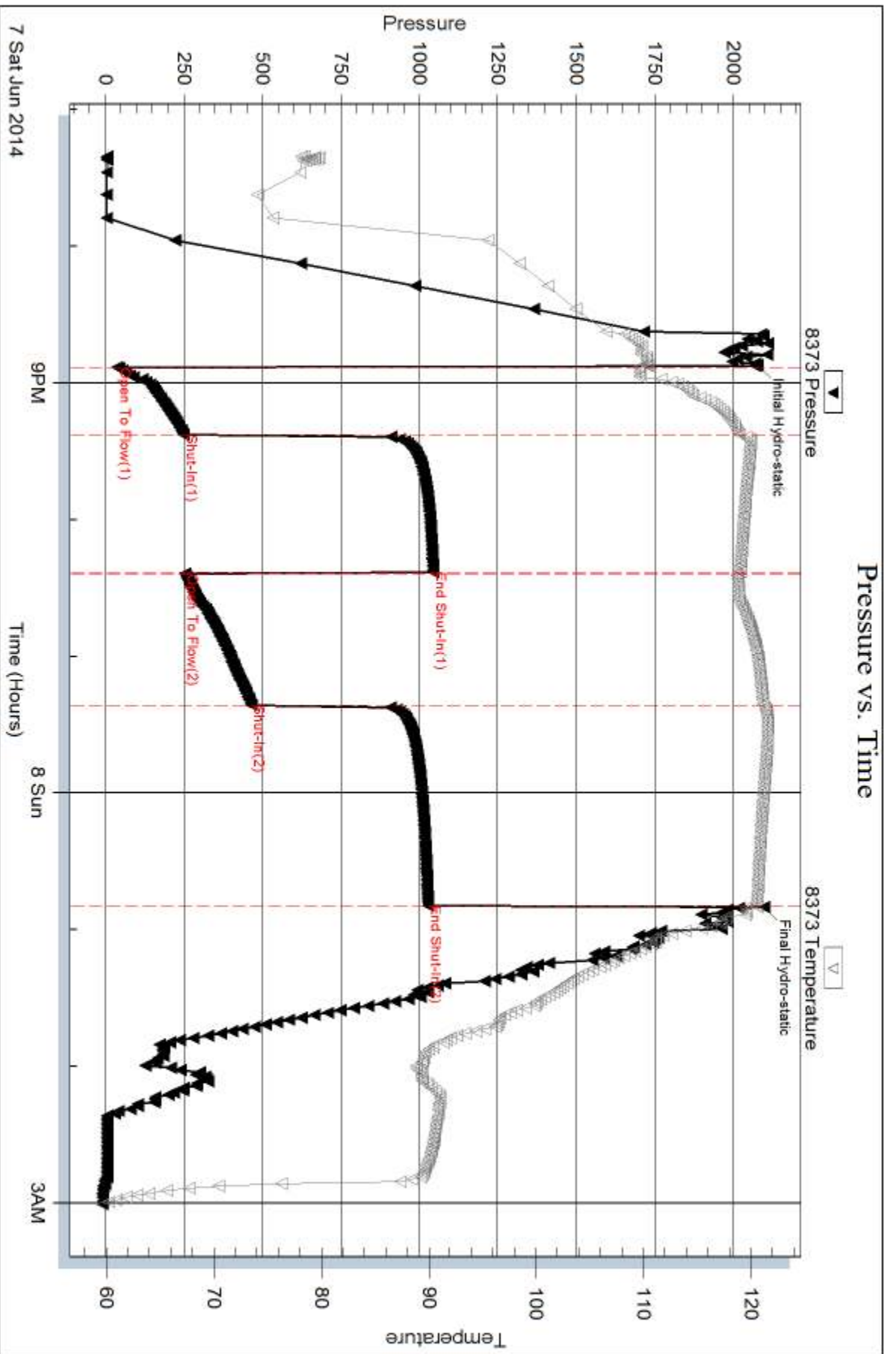
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .38@62=20000





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Wilkens Unit #1-6

6-17s-32w Scott,KS

Start Date: 2014.06.08 @ 22:04:27

End Date: 2014.06.09 @ 05:18:57

Job Ticket #: 56492 DST #: 3

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

Printed: 2014.06.13 @ 11:40:09

Murfin Drilling Co
6-17s-32w Scott,KS
Wilkens Unit #1-6
DST # 3
LKC H-J
2014.06.08



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56492

DST#: 3

ATTN: Kevin Kessler

Test Start: 2014.06.08 @ 22:04:27

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:01:57

Time Test Ended: 05:18:57

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 4145.00 ft (KB) To 4245.00 ft (KB) (TVD)

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4245.00 ft (KB) (TVD)

2976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8356

Outside

Press@RunDepth: 81.71 psig @ 4146.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.08

End Date:

2014.06.09

Last Calib.:

2014.06.09

Start Time: 22:04:32

End Time:

05:18:56

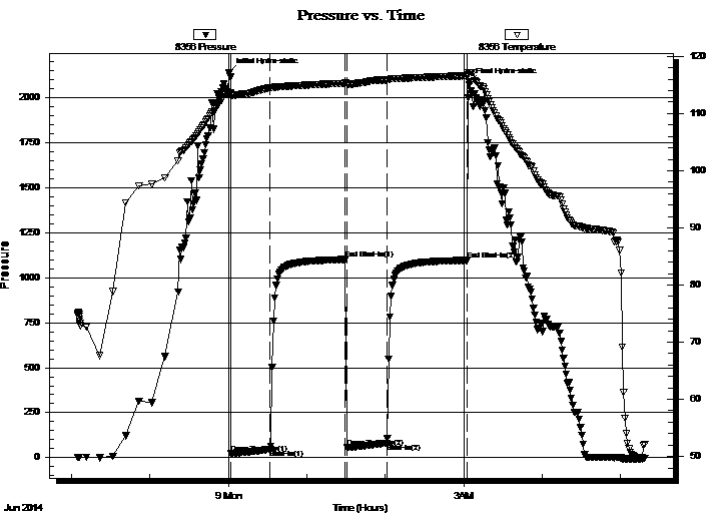
Time On Btm:

2014.06.09 @ 00:00:27

Time Off Btm:

2014.06.09 @ 03:03:57

TEST COMMENT: IF: 1/4" blow built to 2 1/2"
IS: No return.
FF: Surface blow built to 1/4"
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2140.17	113.50	Initial Hydro-static
2	23.04	113.19	Open To Flow (1)
32	47.15	114.51	Shut-In(1)
89	1101.59	115.32	End Shut-In(1)
90	55.58	115.14	Open To Flow (2)
121	81.71	115.85	Shut-In(2)
182	1096.54	116.62	End Shut-In(2)
184	2085.92	117.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	w cm 5%w 95%m	0.30
70.00	mud 100%m	0.34

* 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

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56492

DST#: 3

ATTN: Kevin Kessler

Test Start: 2014.06.08 @ 22:04:27

Tool Information

Drill Pipe:	Length: 3912.00 ft	Diameter: 3.80 inches	Volume: 54.88 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 56.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4145.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	128.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4118.00	
Shut In Tool	5.00			4123.00	
Hydraulic tool	5.00			4128.00	
Jars	5.00			4133.00	
Safety Joint	3.00			4136.00	
Packer	5.00			4141.00	28.00 Bottom Of Top Packer
Packer	4.00			4145.00	
Stubb	1.00			4146.00	
Recorder	0.00	8373	Inside	4146.00	
Recorder	0.00	8356	Outside	4146.00	
Perforations	29.00			4175.00	
Change Over Sub	1.00			4176.00	
Drill Pipe	63.00			4239.00	
Change Over Sub	1.00			4240.00	
Bullnose	5.00			4245.00	100.00 Bottom Packers & Anchor

Total Tool Length: 128.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56492

DST#: 3

ATTN: Kevin Kessler

Test Start: 2014.06.08 @ 22:04:27

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	w cm 5%w 95%m	0.295
70.00	mud 100%m	0.344

Total Length: 130.00 ft Total Volume: 0.639 bbf

Num Fluid Samples: 0

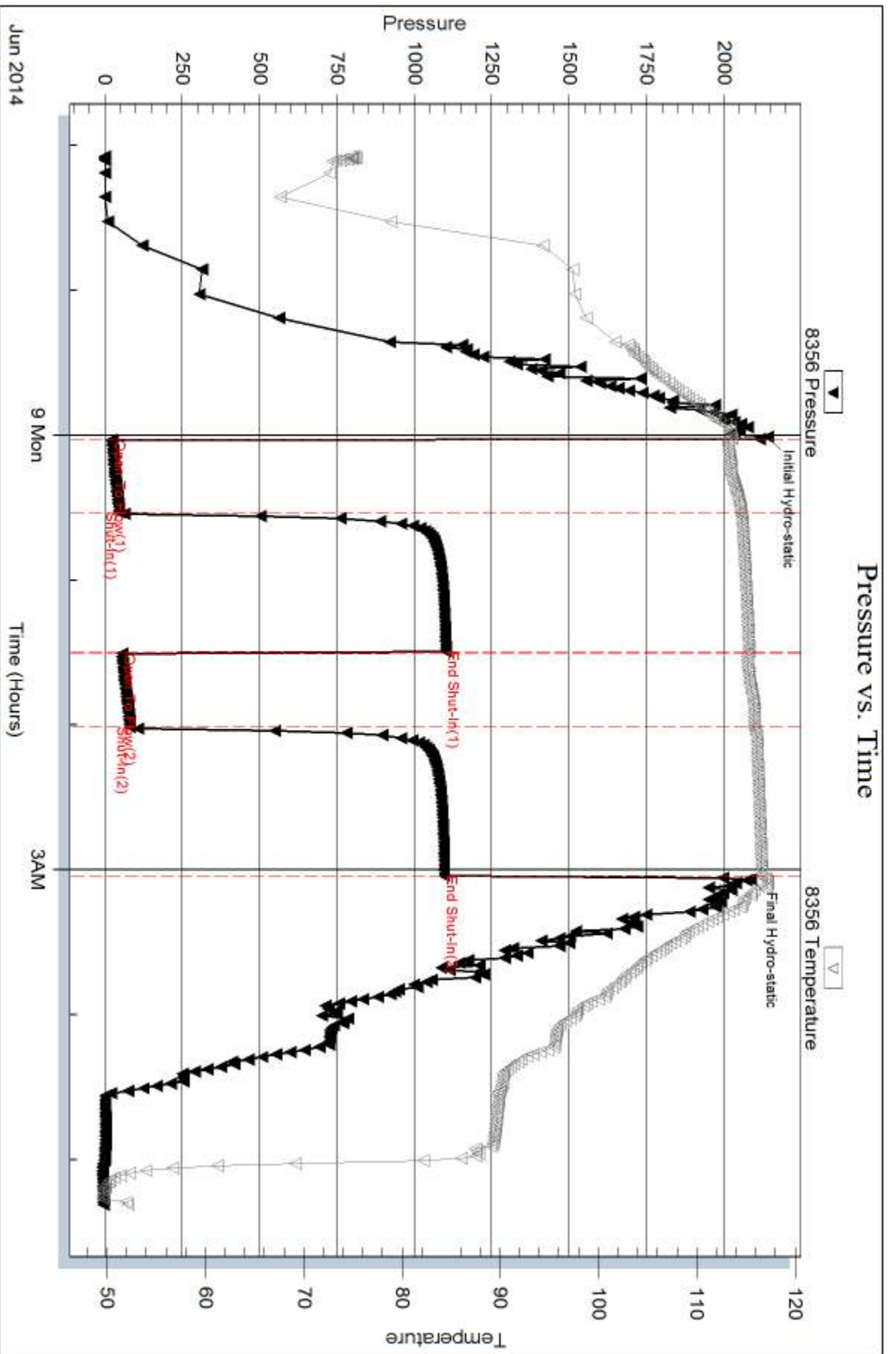
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Think i have a bad battery no readings on 8773 have new one.





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Wilkens Unit #1-6

6-17s-32w Scott,KS

Start Date: 2014.06.10 @ 07:15:59

End Date: 2014.06.10 @ 16:01:29

Job Ticket #: 56493 DST #: 4

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

Printed: 2014.06.13 @ 11:39:45



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56493

DST#: 4

ATTN: Kevin Kessler

Test Start: 2014.06.10 @ 07:15:59

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:27:29

Time Test Ended: 16:01:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 4390.00 ft (KB) To 4455.00 ft (KB) (TVD)

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4455.00 ft (KB) (TVD)

2976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8373

Inside

Press@RunDepth: 599.22 psig @ 4391.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.10

End Date:

2014.06.10

Last Calib.:

2014.06.10

Start Time: 07:16:04

End Time:

16:01:29

Time On Btm:

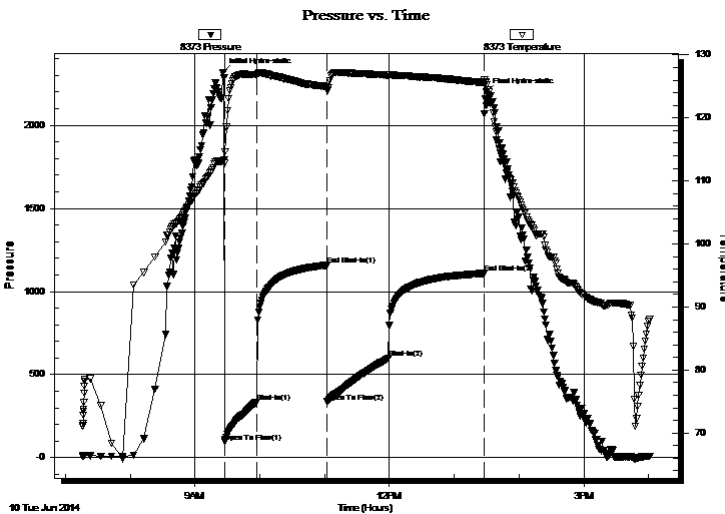
2014.06.10 @ 09:25:59

Time Off Btm:

2014.06.10 @ 13:29:29

TEST COMMENT: IF: BOB in 6 min.
IS: Surface blow built to 1/4" in 10 min died in 15 min.
FF: BOB in 9 min.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2318.57	113.18	Initial Hydro-static
2	96.06	112.79	Open To Flow (1)
31	335.65	126.89	Shut-In(1)
96	1158.29	124.97	End Shut-In(1)
97	337.26	124.51	Open To Flow (2)
154	599.22	126.80	Shut-In(2)
242	1109.53	125.63	End Shut-In(2)
244	2199.79	125.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
624.00	mcw 95%w 5%m	6.60
310.00	mcw 80%w 20%m	4.35
129.00	ocmw 2%o 68%w 30%m	1.81

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott, KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56493

DST#: 4

ATTN: Kevin Kessler

Test Start: 2014.06.10 @ 07:15:59

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:27:29

Time Test Ended: 16:01:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 4390.00 ft (KB) To 4455.00 ft (KB) (TVD)

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4455.00 ft (KB) (TVD)

2976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8356 Outside

Press@RunDepth: psig @ 4391.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.10

End Date: 2014.06.10

Last Calib.: 2014.06.10

Start Time: 07:15:18

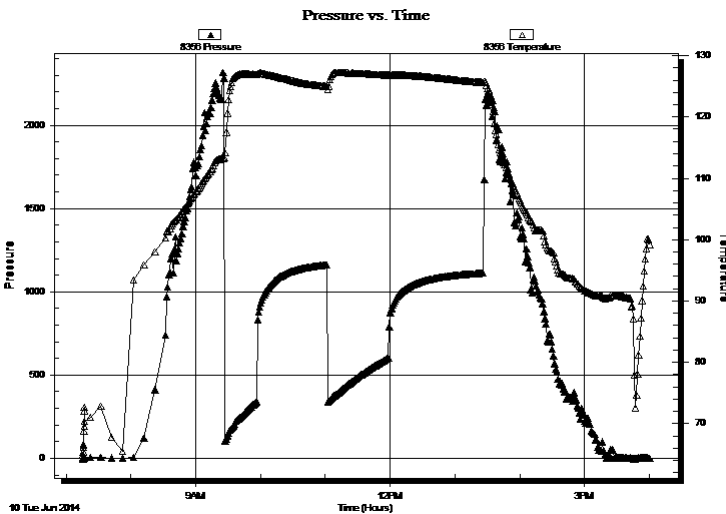
End Time: 16:00:43

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB in 6 min.
IS: Surface blow built to 1/4" in 10 min died in 15 min.
FF: BOB in 9 min.
FS: No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
624.00	mcw 95%w 5%m	6.60
310.00	mcw 80%w 20%m	4.35
129.00	ocmw 2%o 68%w 30%m	1.81

* 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

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56493

DST#: 4

ATTN: Kevin Kessler

Test Start: 2014.06.10 @ 07:15:59

Tool Information

Drill Pipe:	Length: 4131.00 ft	Diameter: 3.80 inches	Volume: 57.95 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 59.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4390.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	93.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4363.00	
Shut In Tool	5.00			4368.00	
Hydraulic tool	5.00			4373.00	
Jars	5.00			4378.00	
Safety Joint	3.00			4381.00	
Packer	5.00			4386.00	28.00 Bottom Of Top Packer
Packer	4.00			4390.00	
Stubb	1.00			4391.00	
Recorder	0.00	8373	Inside	4391.00	
Recorder	0.00	8356	Outside	4391.00	
Perforations	25.00			4416.00	
Change Over Sub	1.00			4417.00	
Drill Pipe	32.00			4449.00	
Change Over Sub	1.00			4450.00	
Bullnose	5.00			4455.00	65.00 Bottom Packers & Anchor

Total Tool Length: 93.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56493

DST#: 4

ATTN: Kevin Kessler

Test Start: 2014.06.10 @ 07:15:59

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
624.00	mcw 95%w 5%m	6.603
310.00	mcw 80%w 20%m	4.348
129.00	ocmw 2%o 68%w 30%m	1.810

Total Length: 1063.00 ft Total Volume: 12.761 bbf

Num Fluid Samples: 0

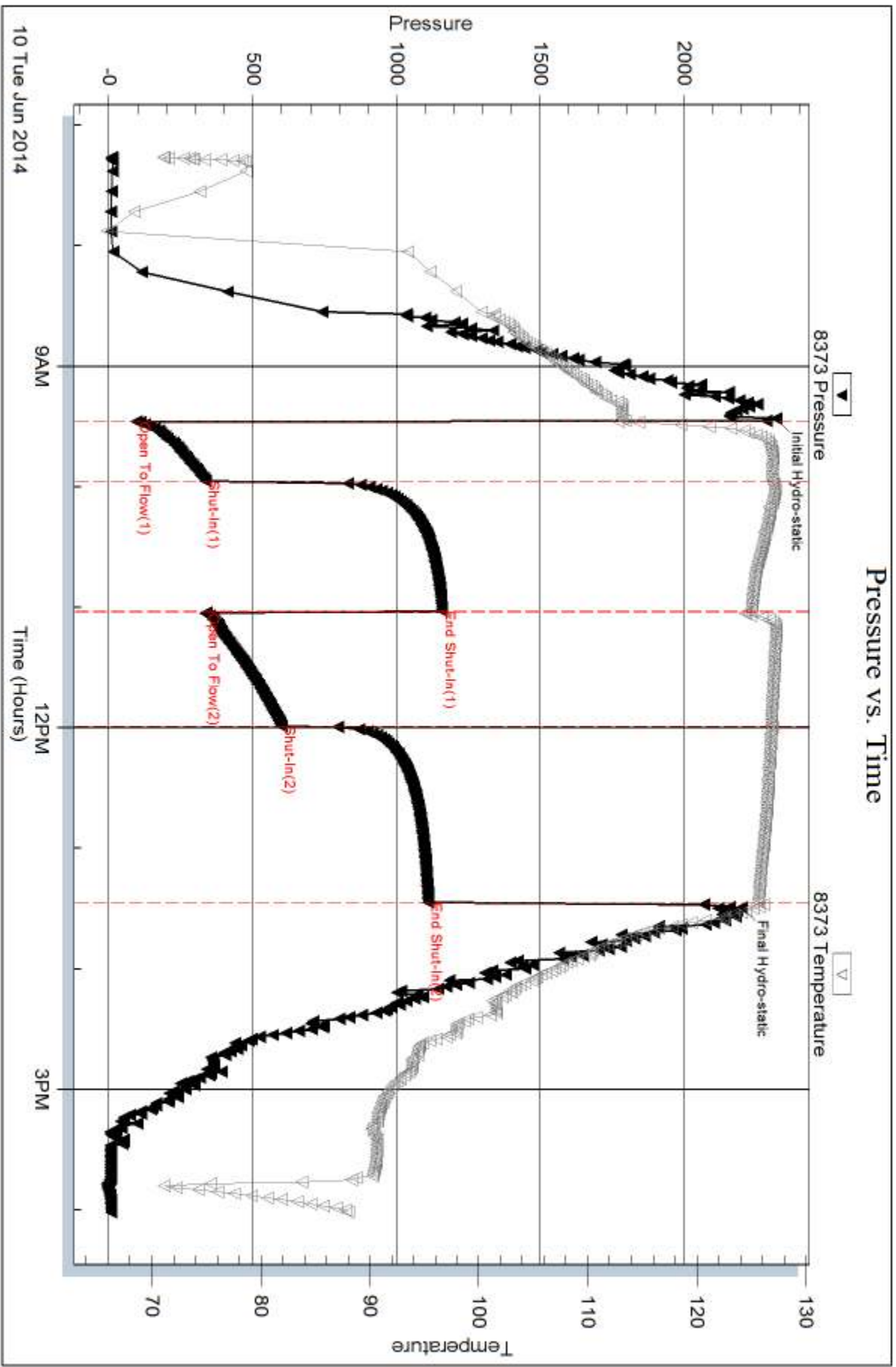
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .18@84=30000

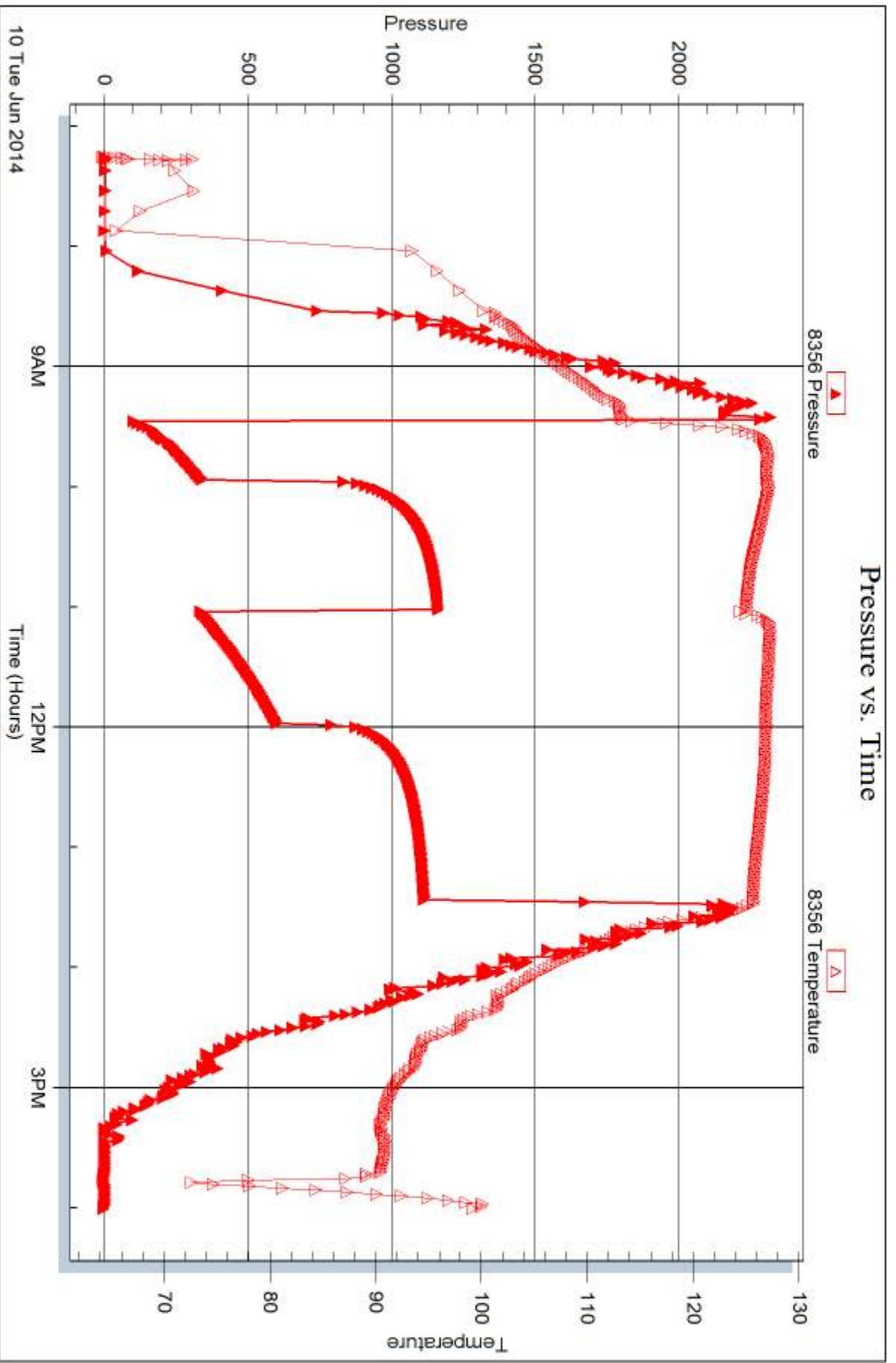


Serial #: 8356

Outside Murfin Drilling Co

Wilkins Unit #1-6

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 56493

Printed: 2014.06.13 @ 11:39:46



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Wilkens Unit #1-6

6-17s-32w Scott,KS

Start Date: 2014.06.11 @ 06:18:50

End Date: 2014.06.11 @ 13:22:20

Job Ticket #: 56494 DST #: 5

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

Printed: 2014.06.13 @ 11:34:42



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

ATTN: Kevin Kessler

Job Ticket: 56494

DST#: 5

Test Start: 2014.06.11 @ 06:18:50

GENERAL INFORMATION:

Formation: **Pawnee- Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:20:50

Time Test Ended: 13:22:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 4445.00 ft (KB) To 4535.00 ft (KB) (TVD)

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4535.00 ft (KB) (TVD)

2976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8373

Inside

Press@RunDepth: 28.94 psig @ 4446.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.11

End Date:

2014.06.11

Last Calib.:

2014.06.11

Start Time:

06:18:55

End Time:

13:22:19

Time On Btm:

2014.06.11 @ 08:19:50

Time Off Btm:

2014.06.11 @ 11:19:20

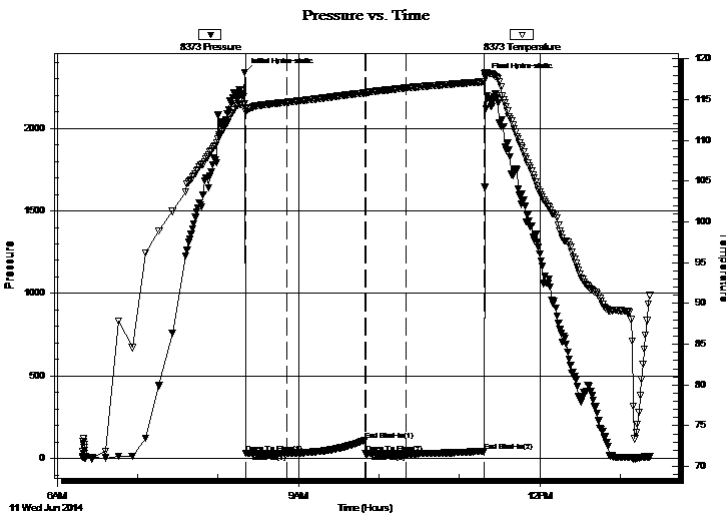
TEST COMMENT: IF: Surface blow died in 6 min.

IS: No return.

FF: No blow.

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2338.79	114.48	Initial Hydro-static
1	32.17	113.50	Open To Flow (1)
31	31.59	114.65	Shut-In(1)
90	109.63	115.82	End Shut-In(1)
90	28.88	115.78	Open To Flow (2)
121	28.94	116.42	Shut-In(2)
179	45.43	117.19	End Shut-In(2)
180	2309.97	118.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

* 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

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56494

DST#: 5

ATTN: Kevin Kessler

Test Start: 2014.06.11 @ 06:18:50

Tool Information

Drill Pipe:	Length: 4191.00 ft	Diameter: 3.80 inches	Volume: 58.79 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose:	95000.00 lb
			<u>Total Volume: 59.95 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	85000.00 lb
Depth to Top Packer:	4445.00 ft			Final	85000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	90.00 ft				
Tool Length:	118.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4418.00	
Shut In Tool	5.00			4423.00	
Hydraulic tool	5.00			4428.00	
Jars	5.00			4433.00	
Safety Joint	3.00			4436.00	
Packer	5.00			4441.00	28.00 Bottom Of Top Packer
Packer	4.00			4445.00	
Stubb	1.00			4446.00	
Recorder	0.00	8373	Inside	4446.00	
Recorder	0.00	8356	Outside	4446.00	
Perforations	19.00			4465.00	
Change Over Sub	1.00			4466.00	
Drill Pipe	63.00			4529.00	
Change Over Sub	1.00			4530.00	
Bullnose	5.00			4535.00	90.00 Bottom Packers & Anchor

Total Tool Length: 118.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56494

DST#: 5

ATTN: Kevin Kessler

Test Start: 2014.06.11 @ 06:18:50

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

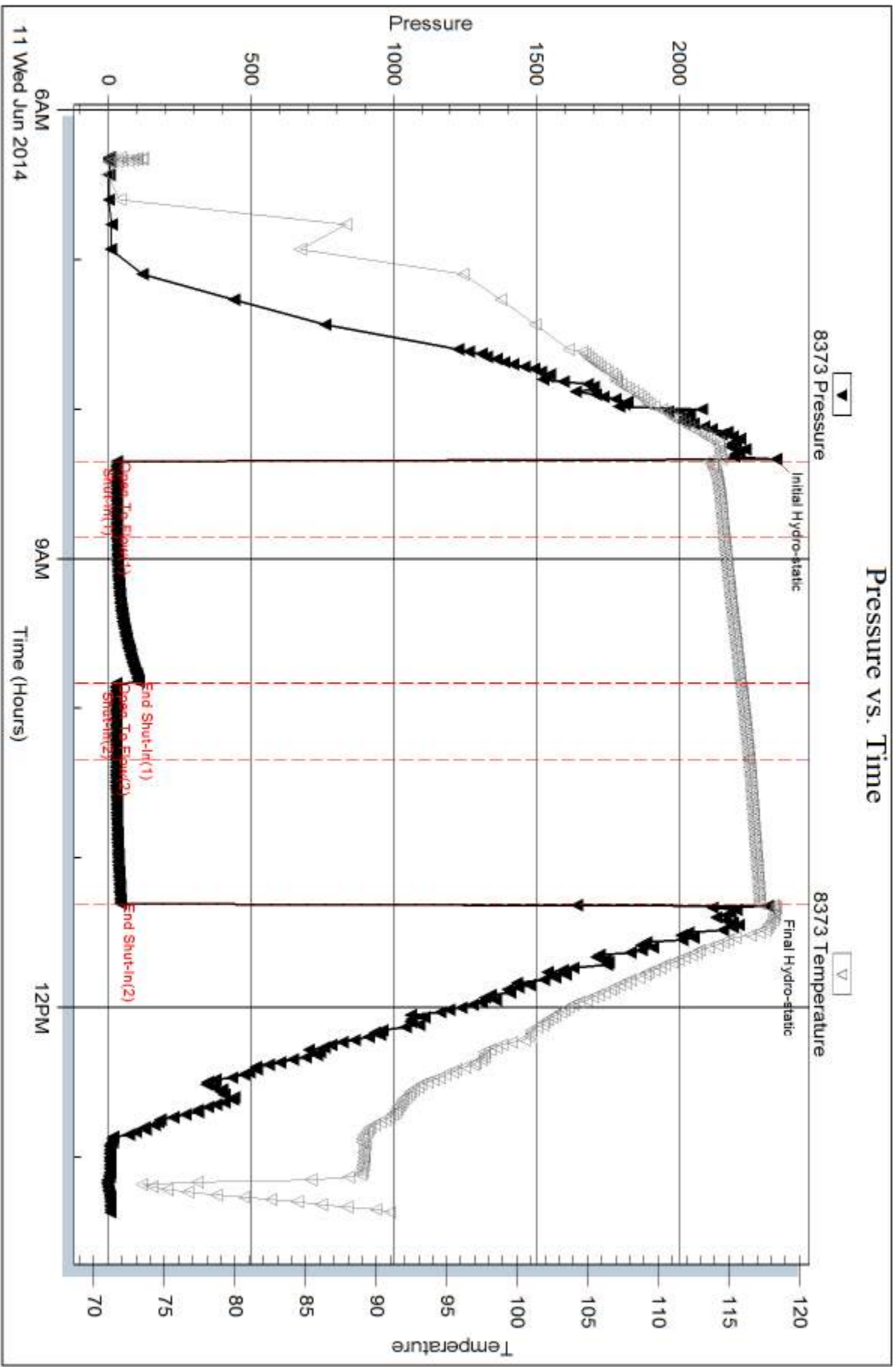
Serial #: 8373

Inside

Murfin Drilling Co

Wilkins Unit #1-6

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 56494

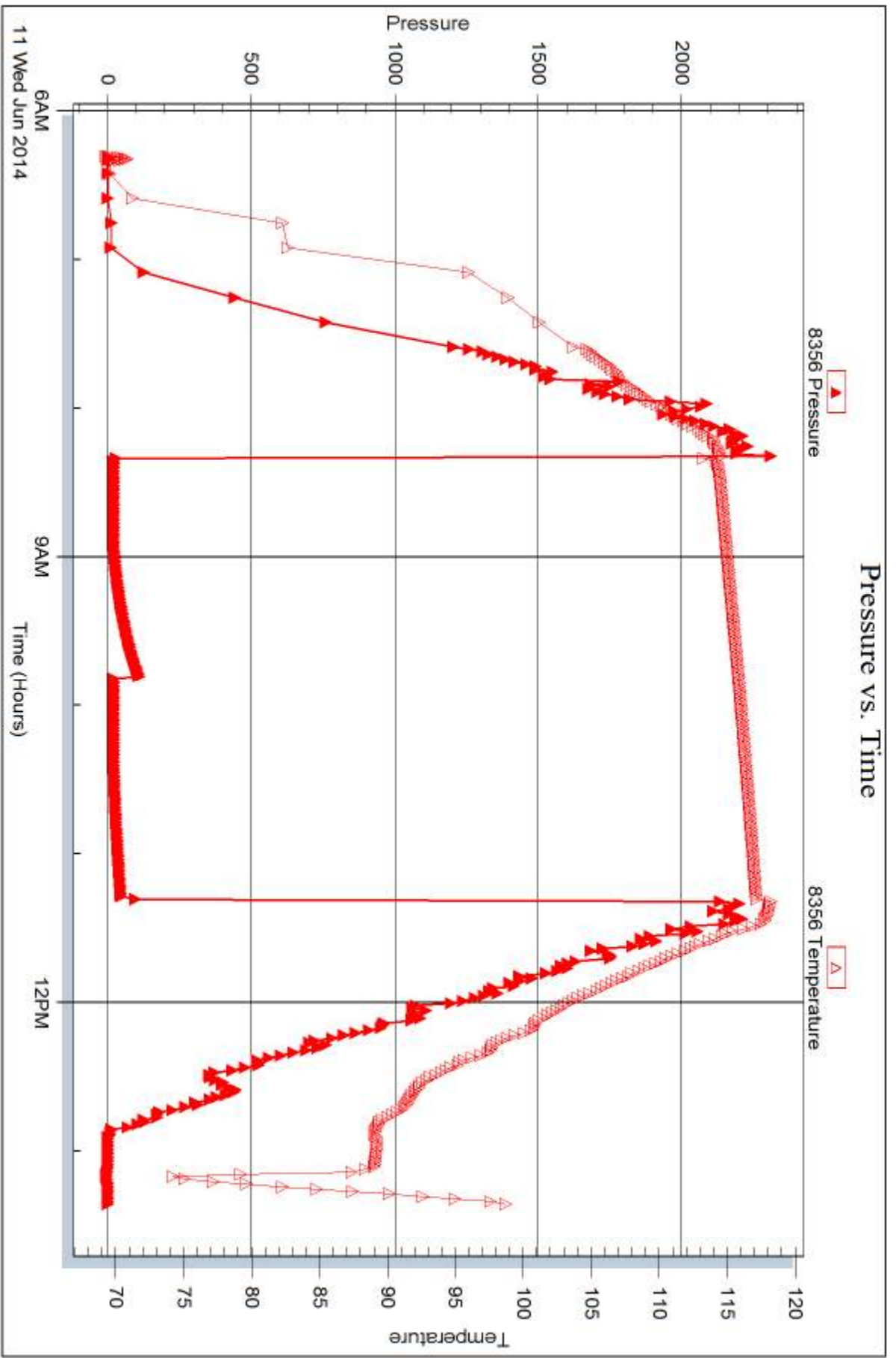
Printed: 2014.06.13 @ 11:34:43

Serial #: 8356

Outside Murfin Drilling Co

Wilkins Unit #1-6

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Wilkens Unit #1-6

6-17s-32w Scott,KS

Start Date: 2014.06.12 @ 05:06:40

End Date: 2014.06.12 @ 13:37:40

Job Ticket #: 56495 DST #: 6

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

Printed: 2014.06.13 @ 11:34:19

Murfin Drilling Co
6-17s-32w Scott,KS
Wilkens Unit #1-6
DST # 6
Johnson
2014.06.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56495

DST#: 6

ATTN: Kevin Kessler

Test Start: 2014.06.12 @ 05:06:40

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:24:40

Time Test Ended: 13:37:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 4545.00 ft (KB) To 4620.00 ft (KB) (TVD)

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

2976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8373

Inside

Press@RunDepth: 103.47 psig @ 4546.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.12

End Date:

2014.06.12

Last Calib.:

2014.06.12

Start Time: 05:06:45

End Time:

13:37:39

Time On Btm:

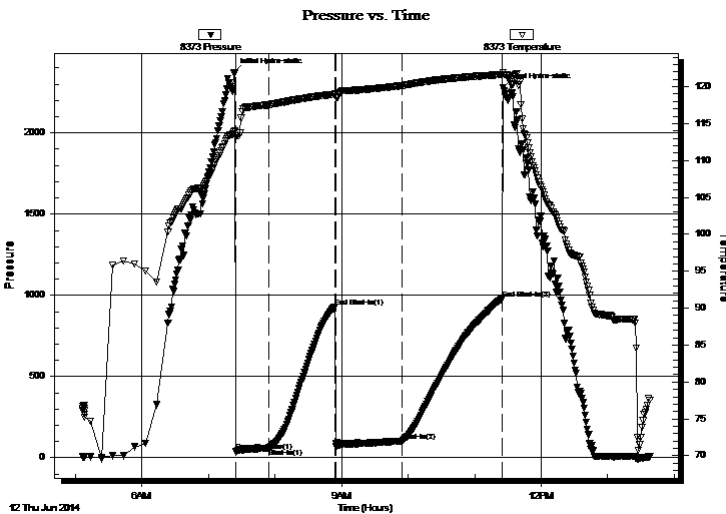
2014.06.12 @ 07:23:10

Time Off Btm:

2014.06.12 @ 11:25:40

TEST COMMENT: IF: BOB in 24 min.
IS: No return.
FF: BOB in 11 min.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2373.26	113.89	Initial Hydro-static
2	37.49	113.40	Open To Flow (1)
31	59.32	117.53	Shut-In(1)
91	930.13	118.98	End Shut-In(1)
92	70.03	118.58	Open To Flow (2)
152	103.47	120.14	Shut-In(2)
242	980.99	121.65	End Shut-In(2)
243	2278.86	121.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	mco 50%g 10%o 40%m	0.30
124.00	ocm 10%o 90%m	0.61
0.00	496 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
 250 N water ste 300
 Wichita, KS 67202
 ATTN: Kevin Kessler

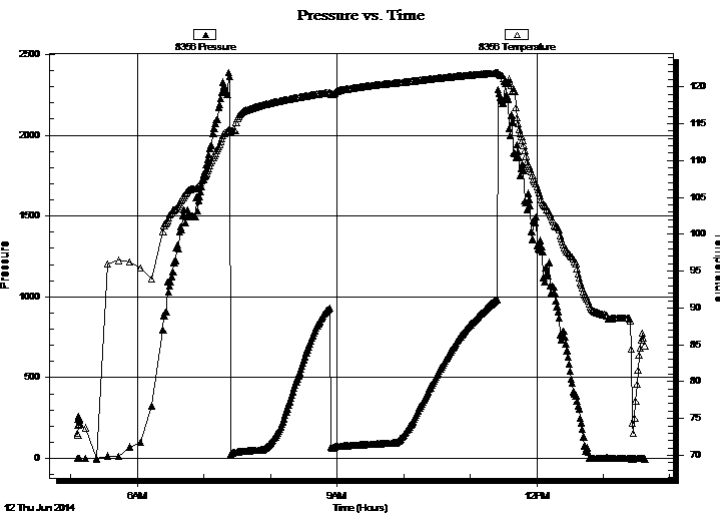
6-17s-32w Scott, KS
Wilkens Unit #1-6
 Job Ticket: 56495 **DST#: 6**
 Test Start: 2014.06.12 @ 05:06:40

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 07:24:40
 Tester: Brandon Turley
 Time Test Ended: 13:37:40
 Unit No: 60
Interval: 4545.00 ft (KB) To 4620.00 ft (KB) (TVD)
 Reference Elevations: 2987.00 ft (KB)
 Total Depth: 4620.00 ft (KB) (TVD) 2976.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8356 **Outside**
 Press@RunDepth: psig @ 4546.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.12 End Date: 2014.06.12 Last Calib.: 2014.06.12
 Start Time: 05:06:21 End Time: 13:37:15 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB in 24 min.
 IS: No return.
 FF: BOB in 11 min.
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	mco 50%g 10%o 40%m	0.30
124.00	ocm 10%o 90%m	0.61
0.00	496 GIP	0.00

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

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56495

DST#: 6

ATTN: Kevin Kessler

Test Start: 2014.06.12 @ 05:06:40

Tool Information

Drill Pipe:	Length: 4288.00 ft	Diameter: 3.80 inches	Volume: 60.15 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 61.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4545.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	103.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4518.00	
Shut In Tool	5.00			4523.00	
Hydraulic tool	5.00			4528.00	
Jars	5.00			4533.00	
Safety Joint	3.00			4536.00	
Packer	5.00			4541.00	28.00 Bottom Of Top Packer
Packer	4.00			4545.00	
Stubb	1.00			4546.00	
Recorder	0.00	8373	Inside	4546.00	
Recorder	0.00	8356	Outside	4546.00	
Perforations	4.00			4550.00	
Change Over Sub	1.00			4551.00	
Drill Pipe	63.00			4614.00	
Change Over Sub	1.00			4615.00	
Bullnose	5.00			4620.00	75.00 Bottom Packers & Anchor

Total Tool Length: 103.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56495

DST#: 6

ATTN: Kevin Kessler

Test Start: 2014.06.12 @ 05:06:40

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	mcgo 50%g 10%o 40%m	0.305
124.00	ocm 10%o 90%m	0.610
0.00	496 GIP	0.000

Total Length: 186.00 ft

Total Volume: 0.915 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8373

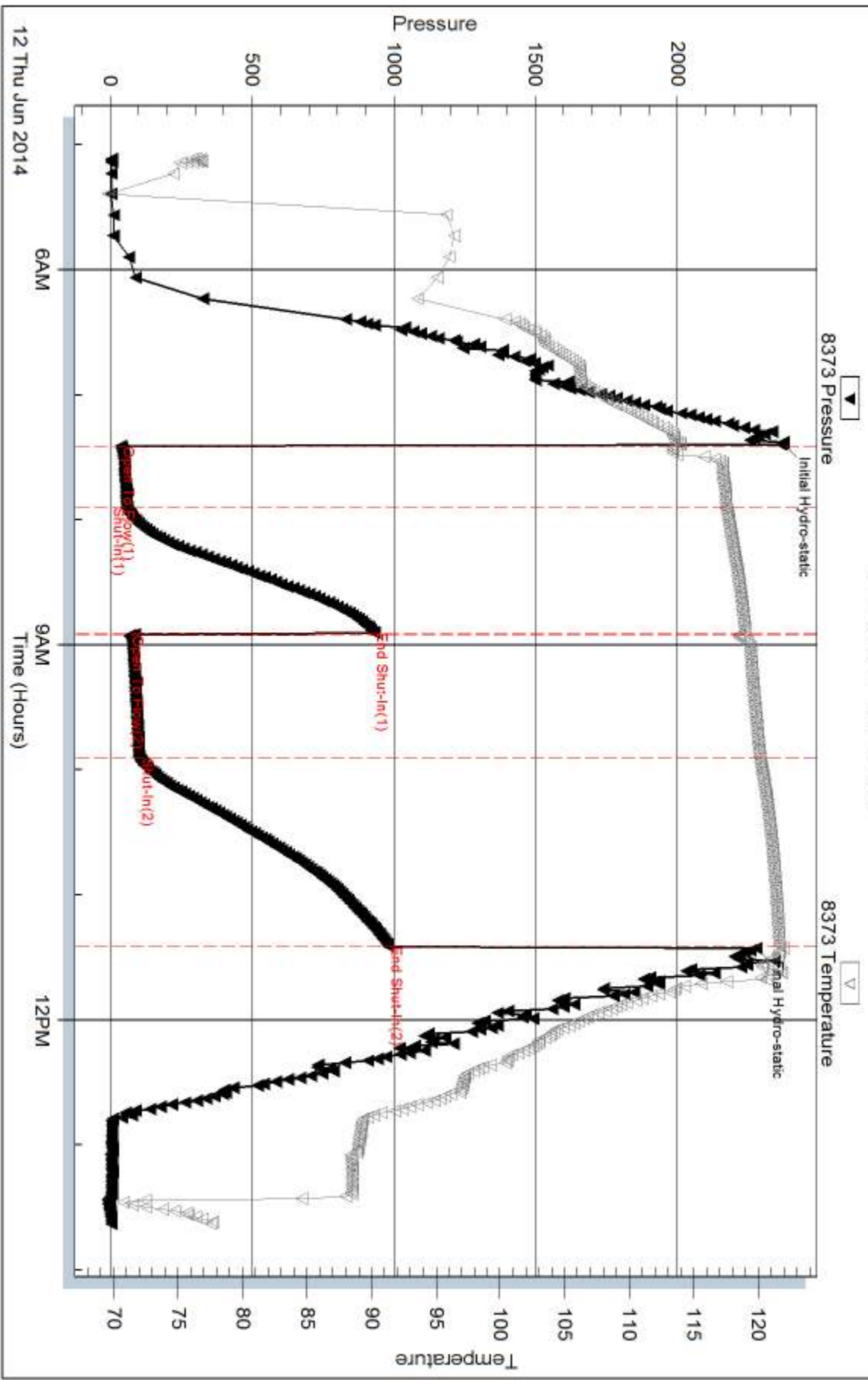
Inside

Murfin Drilling Co

Wilkins Unit #1-6

DST Test Number: 6

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 56495

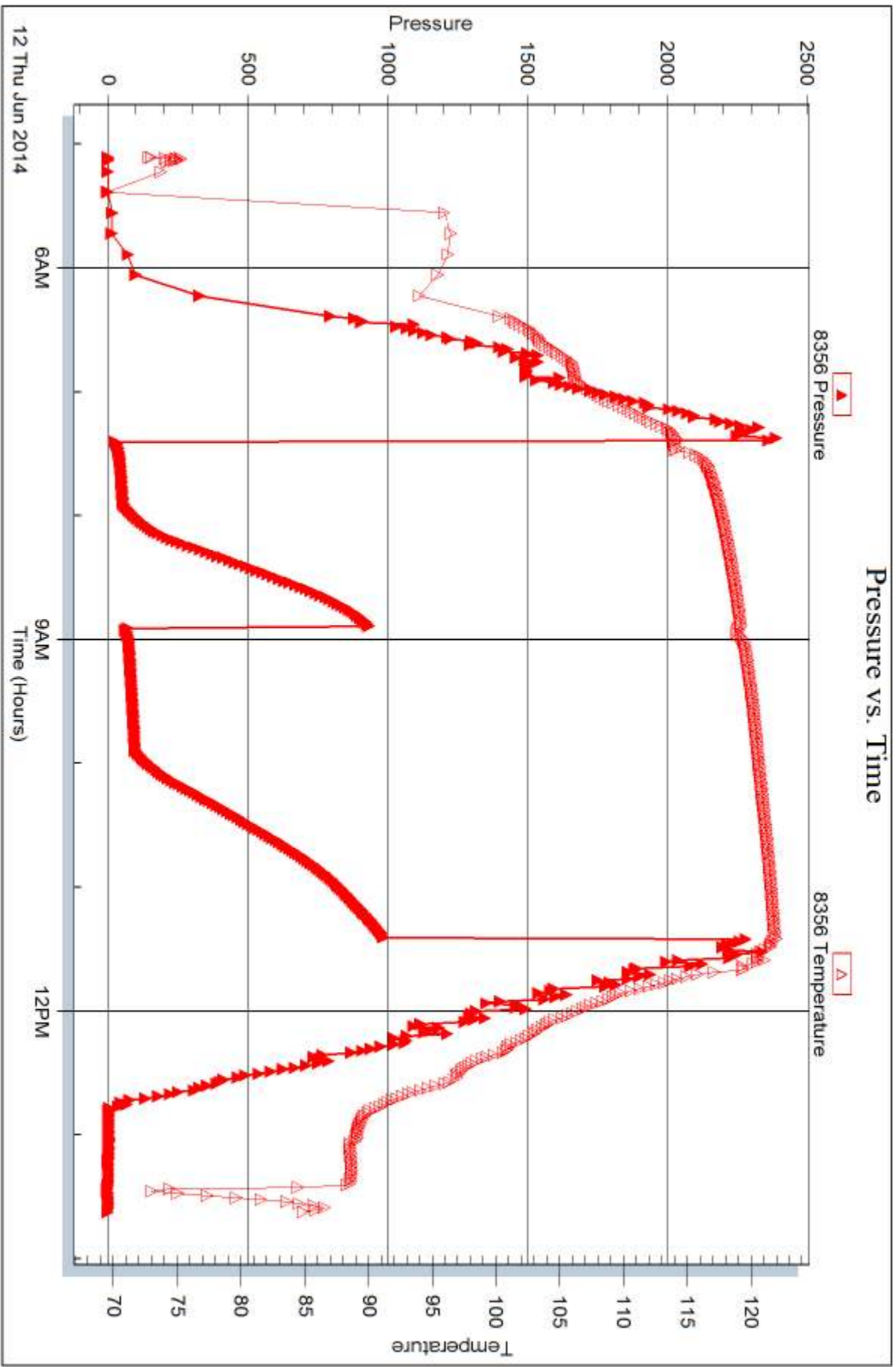
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Serial #: 8356

Outside Murfin Drilling Co

Wilkins Unit #1-6

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 56495

Printed: 2014.06.13 @ 11:34:20



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N water ste 300
Wichita, KS 67202

ATTN: Kevin Kessler

Wilkens Unit #1-6

6-17s-32w Scott,KS

Start Date: 2014.06.13 @ 00:32:04

End Date: 2014.06.13 @ 07:36:04

Job Ticket #: 56496 DST #: 7

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

Printed: 2014.06.13 @ 11:33:47

Murfin Drilling Co
6-17s-32w Scott,KS
Wilkens Unit #1-6
DST # 7
Morrow Sand
2014.06.13



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56496

DST#: 7

ATTN: Kevin Kessler

Test Start: 2014.06.13 @ 00:32:04

GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:33:04

Time Test Ended: 07:36:04

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 4610.00 ft (KB) To 4670.00 ft (KB) (TVD)

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4670.00 ft (KB) (TVD)

2976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8373

Inside

Press@RunDepth: 43.86 psig @ 4611.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.13

End Date:

2014.06.13

Last Calib.:

2014.06.13

Start Time: 00:32:09

End Time:

07:36:03

Time On Btm:

2014.06.13 @ 02:31:34

Time Off Btm:

2014.06.13 @ 05:35:04

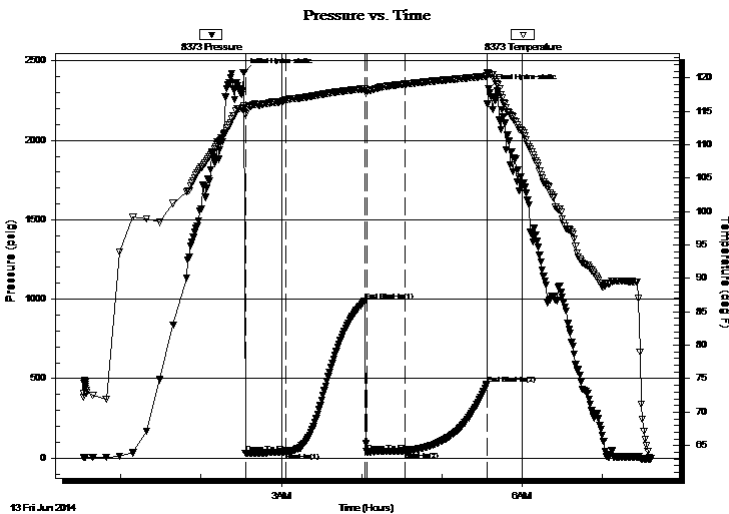
TEST COMMENT: IF: 1/4" blow died in 15 min.

IS: No return.

FF: No blow.

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2428.19	115.51	Initial Hydro-static
2	31.17	114.58	Open To Flow (1)
32	37.02	116.64	Shut-In(1)
91	989.38	118.37	End Shut-In(1)
92	39.19	118.01	Open To Flow (2)
121	43.86	119.04	Shut-In(2)
182	464.89	120.25	End Shut-In(2)
184	2327.97	120.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud oil spots 100%m	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co

6-17s-32w Scott, KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56496

DST#: 7

ATTN: Kevin Kessler

Test Start: 2014.06.13 @ 00:32:04

GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:33:04

Time Test Ended: 07:36:04

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 4610.00 ft (KB) To 4670.00 ft (KB) (TVD)

Reference Elevations: 2987.00 ft (KB)

Total Depth: 4670.00 ft (KB) (TVD)

2976.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8356 Outside

Press@RunDepth: psig @ 4611.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.13

End Date:

2014.06.13

Last Calib.:

2014.06.13

Start Time: 00:32:39

End Time:

07:36:33

Time On Btm:

Time Off Btm:

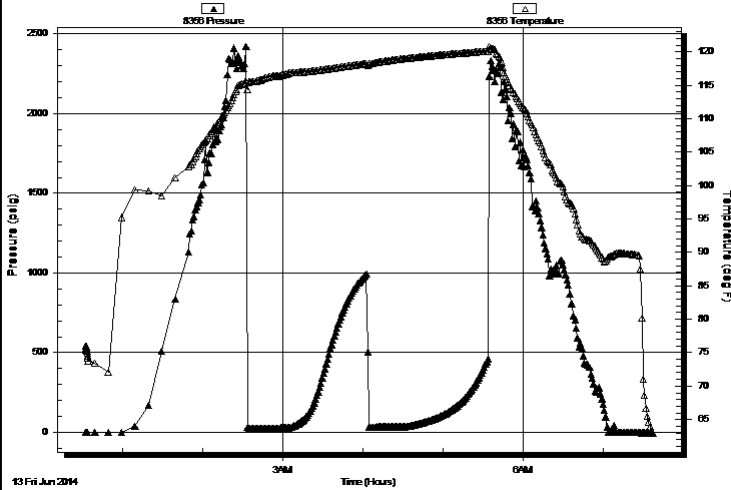
TEST COMMENT: IF: 1/4" blow died in 15 min.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud oil spots 100%m	0.07

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

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56496

DST#: 7

ATTN: Kevin Kessler

Test Start: 2014.06.13 @ 00:32:04

Tool Information

Drill Pipe:	Length: 4351.00 ft	Diameter: 3.80 inches	Volume: 61.03 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose:	95000.00 lb
			<u>Total Volume: 62.19 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	85000.00 lb
Depth to Top Packer:	4610.00 ft			Final	85000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	88.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4583.00	
Shut In Tool	5.00			4588.00	
Hydraulic tool	5.00			4593.00	
Jars	5.00			4598.00	
Safety Joint	3.00			4601.00	
Packer	5.00			4606.00	28.00 Bottom Of Top Packer
Packer	4.00			4610.00	
Stubb	1.00			4611.00	
Recorder	0.00	8373	Inside	4611.00	
Recorder	0.00	8356	Outside	4611.00	
Perforations	20.00			4631.00	
Change Over Sub	1.00			4632.00	
Drill Pipe	32.00			4664.00	
Change Over Sub	1.00			4665.00	
Bullnose	5.00			4670.00	60.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

6-17s-32w Scott,KS

250 N water ste 300
Wichita, KS 67202

Wilkens Unit #1-6

Job Ticket: 56496

DST#: 7

ATTN: Kevin Kessler

Test Start: 2014.06.13 @ 00:32:04

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud oil spots 100%m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

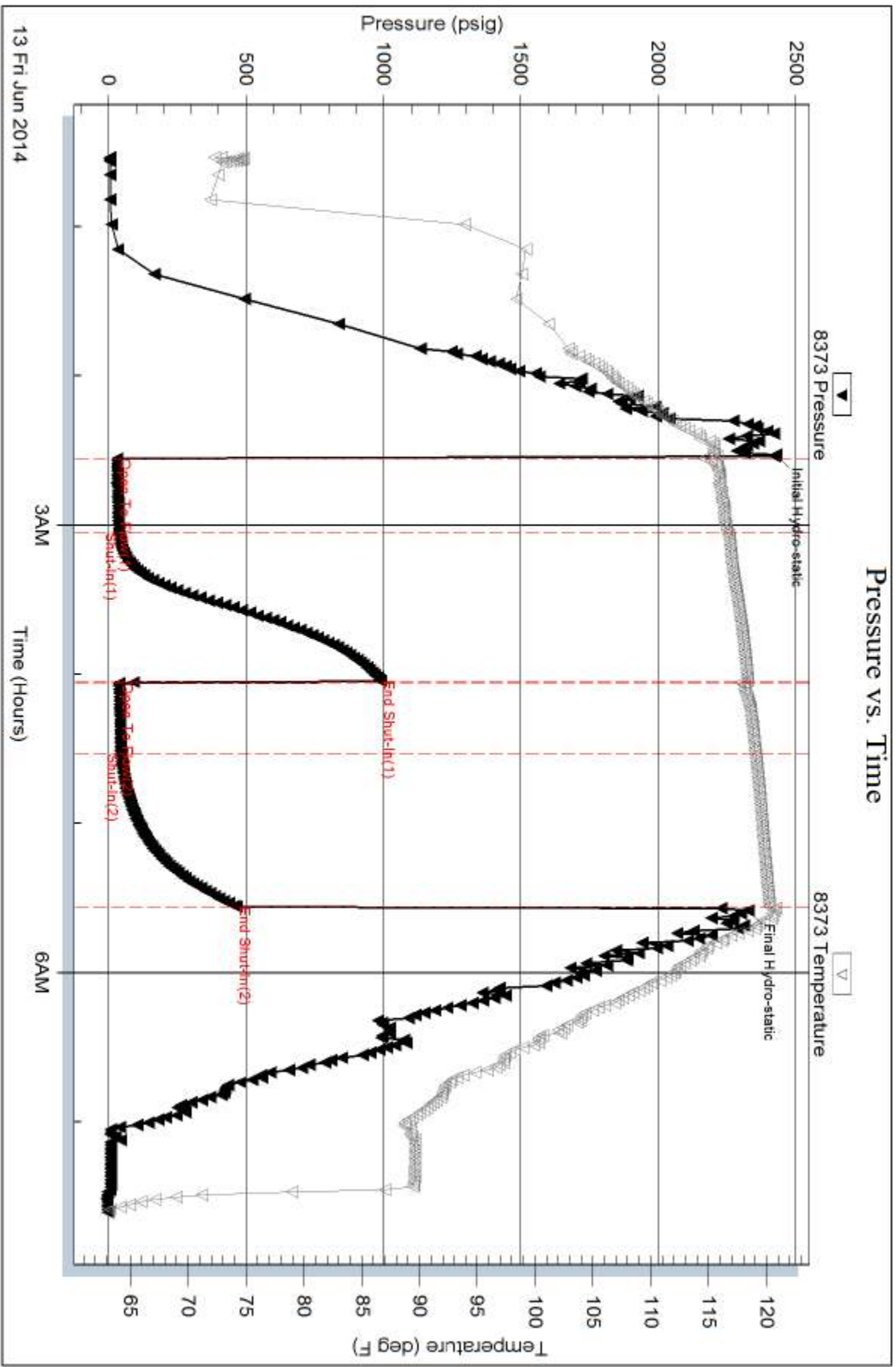
Serial #: 8373

Inside

Murfin Drilling Co

Wilkins Unit #1-6

DST Test Number: 7

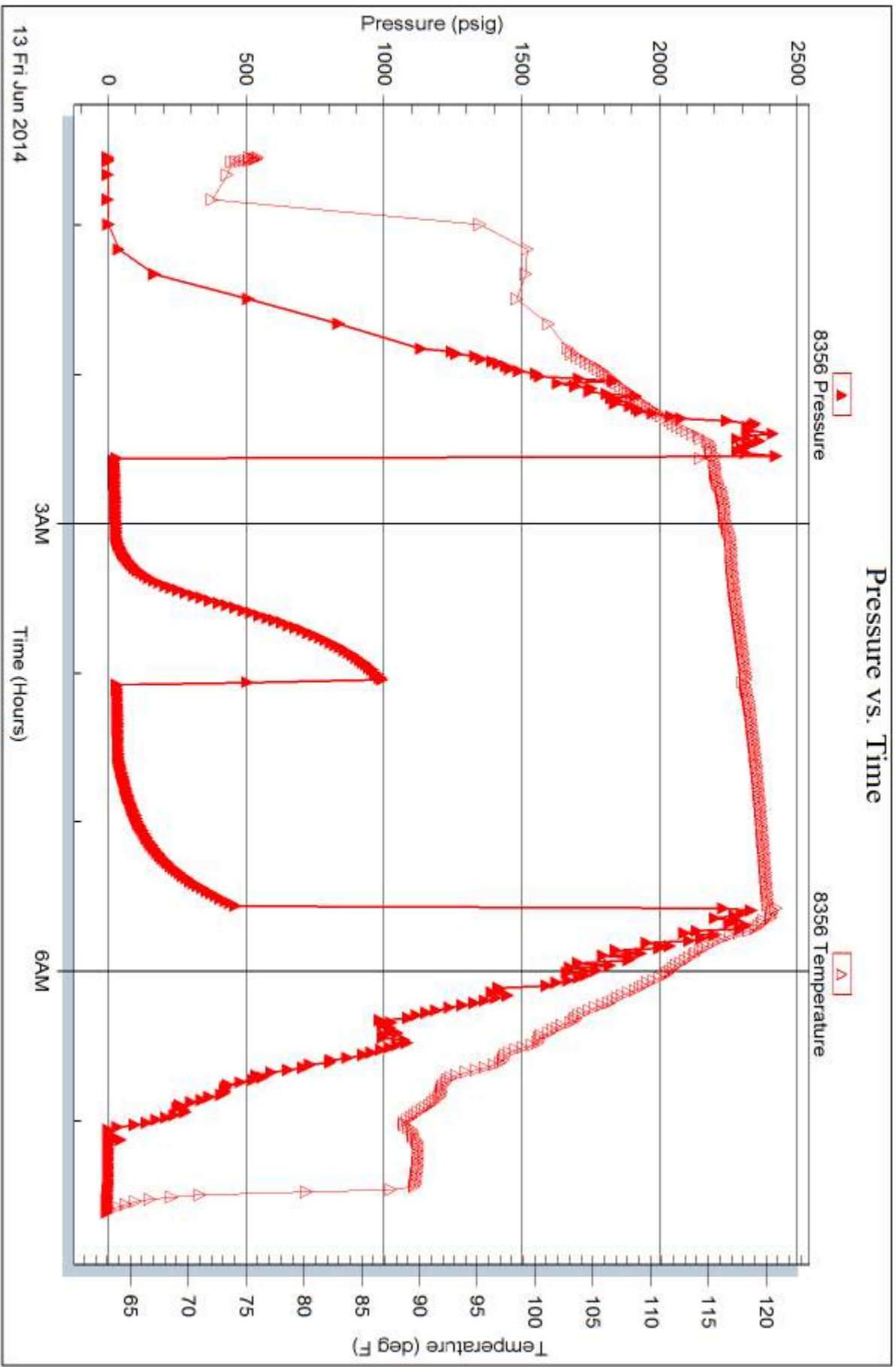


Serial #: 8356

Outside Murfin Drilling Co

Wilkins Unit #1-6

DST Test Number: 7



Triobite Testing, Inc

Ref. No: 56496

Printed: 2014.06.13 @ 11:33:48



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56490

4/10

Well Name & No. Wilkins unit 1-6 Test No. 1 Date 6-6-14
 Company Murfin Drilling Co Elevation 2987 KB 2976 GL
 Address 250 N Water St 300 Wichita, KS 67202
 Co. Rep / Geo. Kevin Kessler Rig Murfin 22
 Location: Sec. 6 Twp. 17S Rge. 32W Co. Scott State KS

Interval Tested 3925 4015 Zone Tested Toronto - Lansing B
 Anchor Length 90 Drill Pipe Run 3693 Mud Wt. 9.0
 Top Packer Depth 3920 Drill Collars Run 236 Vis 50
 Bottom Packer Depth 3925 Wt. Pipe Run --- WL 7.2
 Total Depth 4015 Chlorides 6500 ppm System LCM 2

Blow Description IF: 1/2 blow built to 6.
IS: No return.
FF: surface blow built to 17.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>144</u>	<u>mud</u>			<u>100</u>	
<u>186</u>	<u>wcm</u>		<u>5</u>	<u>95</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 330 BHT 114 Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 2001 Test 1250 T-On Location 22:00
 (B) First Initial Flow 34 Jars 250 T-Started 23:06
 (C) First Final Flow 104 Safety Joint 75 T-Open 1:15
 (D) Initial Shut-In 1030 Circ Sub NIL T-Pulled 5:15
 (E) Second Initial Flow 118 Hourly Standby --- T-Out 7:20
 (F) Second Final Flow 172 Mileage 30- 46.50 Comments ---
 (G) Final Shut-In 981 Sampler ---
 (H) Final Hydrostatic 1982 Straddle --- Ruined Shale Packer ---
 Shale Packer --- Ruined Packer ---
 Extra Packer --- Extra Copies ---

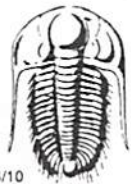
Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Extra Recorder ---
 Day Standby ---
 Accessibility ---

Sub Total 1621.50
 Total 1621.50
 MP/DST Disc't ---

Approved By Kevin Kessler Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56491

Well Name & No. Wilkins unit 1-6 Test No. 2 Date 6-7-14
 Company Murfin Drilling Co Elevation 2987 KB 2976 GL
 Address _____
 Co. Rep / Geo. Kevin Kessler Rig Murfin 22
 Location: Sec. 6 Twp. 19S Rge. 32W Co. Scott State KS

Interval Tested 4050 4095 Zone Tested Lmsing EdF
 Anchor Length _____ Drill Pipe Run 3818 Mud Wt. 9.1
 Top Packer Depth _____ Drill Collars Run 236 Vis 57
 Bottom Packer Depth 4050 Wt. Pipe Run _____ WL 8.0
 Total Depth 4095 Chlorides 9500 ppm System LCM 2
 Blow Description IF: 1/4 blow ~~back to~~ to Bob in 8 min.
IS: No return.
FF: Bob in 11 min.
FF: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>144</u>	<u>MCW</u>		<u>60</u>	<u>40</u>	
<u>248</u>	<u>MCW</u>		<u>80</u>	<u>20</u>	
<u>620</u>	<u>water</u>		<u>100</u>		
_____	_____				
_____	_____				

Rec Total 1012 BHT 120 Gravity _____ API RW .38 @ 62° F Chlorides 20,000 ppm

(A) Initial Hydrostatic <u>2076</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>18:45</u>
(B) First Initial Flow <u>37</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>19:20</u>
(C) First Final Flow <u>249</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>20:52</u>
(D) Initial Shut-In <u>1043</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>00:52</u>
(E) Second Initial Flow <u>253</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>3:00</u>
(F) Second Final Flow <u>464</u>	<input checked="" type="checkbox"/> Mileage <u>30 - 46.50</u>	Comments _____
(G) Final Shut-In <u>1026</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2097</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>60 90</u>	<input type="checkbox"/> Day Standby _____	Total <u>1621.50</u>
Final Shut-In _____	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1621.50</u>	

Approved By

Kevin Kessler

Our Representative

[Signature]



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56492

4/10

Well Name & No. Wilkins unit 1-6 Test No. 3 Date 6-8-14
 Company Muffin Drilling Co Elevation 2987 KB 2976 GL
 Address _____
 Co. Rep / Geo. Kevin Kessler Rig Murfin 22
 Location: Sec. 6 Twp. 19S Rge. 32W Co. Scott State KS

Interval Tested 4145 4245 Zone Tested Lmsing H-5
 Anchor Length _____ 106 Drill Pipe Run 3912 Mud Wt. 9.1
 Top Packer Depth _____ 4146 Drill Collars Run 236 Vis 55
 Bottom Packer Depth _____ 4145 Wt. Pipe Run _____ WL 7.6
 Total Depth _____ 4245 Chlorides 8600 ppm System LCM 3
 Blow Description IF: 1/4 blow built to 2 1/2.
IS: No return.
FF: Surface blow built to 1/4.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>Mud</u>			<u>100</u>	
<u>60</u>	<u>w/cm</u>		<u>5</u>	<u>95</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

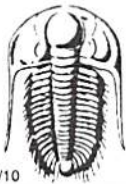
Rec Total 130 BHT 116 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2140</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>21:40</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>22:04</u>
(C) First Final Flow <u>47</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>00:00</u>
(D) Initial Shut-In <u>1101</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>3:06</u>
(E) Second Initial Flow <u>55</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>5:20</u>
(F) Second Final Flow <u>81</u>	<input checked="" type="checkbox"/> Mileage <u>30</u> <u>46.50</u>	Comments _____
(G) Final Shut-In <u>1096</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2085</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>1621.50</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1621.50</u>	

Approved By Kevin Kessler

Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56493

Well Name & No. Wilken's unit 1-6 Test No. 4 Date 6-10-14
 Company Murfin Drilling Co Elevation 2987 KB 2976 GL
 Address _____
 Co. Rep / Geo. Kevin Kessler Rig Murfin 22
 Location: Sec. 6 Twp. 19S Rge. 32W Co. Scott State KS

Interval Tested 4390 4455 Zone Tested Marmaton
 Anchor Length _____ Drill Pipe Run 4131 Mud Wt. 9.1
 Top Packer Depth _____ Drill Collars Run 236 Vis 58
 Bottom Packer Depth 4390 Wt. Pipe Run _____ WL 8.0
 Total Depth 4455 Chlorides 11,000 ppm System LCM 2

Blow Description IF! BoB in 6 min.
IS! Surface blow built to 1/4 in 10 min. in 15 min.
FF! BoB in 9 min.
FS! No return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>129</u>	<u>ocmw</u>	<u>2</u>	<u>68</u>	<u>30</u>	
<u>310</u>	<u>MLW</u>		<u>80</u>	<u>20</u>	
<u>624</u>	<u>MLW</u>		<u>95</u>	<u>5</u>	
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 1059 BHT 126 Gravity _____ API RW .18 @ 84 °F Chlorides 30,000 ppm

(A) Initial Hydrostatic 2318 Test 1250 T-On Location 6:30
 (B) First Initial Flow 96 Jars 250 T-Started 7:15
 (C) First Final Flow 335 Safety Joint 75 T-Open 9:25
 (D) Initial Shut-In 1158 Circ Sub N/L T-Pulled 13:25
 (E) Second Initial Flow 337 Hourly Standby _____ T-Out 16:00
 (F) Second Final Flow 599 Mileage 30 - 46.50 Comments _____
 (G) Final Shut-In 1109 Sampler _____
 (H) Final Hydrostatic 2199 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Ruined Packer 320
 Initial Shut-In 60 Extra Packer _____ Extra Copies _____
 Final Flow 60 Extra Recorder _____ Sub Total 0
 Final Shut-In 90 Day Standby _____ Total 1941.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1621.50

Approved By Kevin Kessler Our Representative _____

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. 56494

Well Name & No. Welkens unit 1-6 Test No. 5 Date 6-11-14
 Company Murfin Drilling Co Elevation 2987 KB 2976 GL
 Address _____
 Co. Rep / Geo. Kevin Kessler Rig Murfin 22
 Location: Sec. 6 Twp. 19S Rge. 32W Co. Scott State KS

Interval Tested 4445 4535 Zone Tested Pawnee - Ft Scott
 Anchor Length 90 Drill Pipe Run 4191 Mud Wt. 9.2
 Top Packer Depth 4440 Drill Collars Run 236 Vis 52
 Bottom Packer Depth 4445 Wt. Pipe Run — WL 8.0
 Total Depth 4535 Chlorides 9300 ppm System LCM 1.5
 Blow Description IF! Surface blow died in 6 min.
ES! No return.
FF! No blow.
ES! No return.

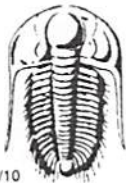
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 117 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2338</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>5:50</u>
(B) First Initial Flow <u>32</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>6:18</u>
(C) First Final Flow <u>31</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>8:20</u>
(D) Initial Shut-In <u>109</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>11:20</u>
(E) Second Initial Flow <u>28</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>13:20</u>
(F) Second Final Flow <u>28</u>	<input checked="" type="checkbox"/> Mileage <u>30-</u> 46.50	Comments _____
(G) Final Shut-In <u>45</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2309</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>1621.50</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1621.50</u>	

Approved By Kevin Kessler Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56495

4/10

Well Name & No. Wilkins unit 1-6 Test No. 6 Date 6-12-14
 Company Murfin Drilling Co Elevation 2987 KB 2976 GL
 Address _____
 Co. Rep / Geo. Kevin Kessler Rig Murfin 22
 Location: Sec. 6 Twp. 19S Rge. 32W Co. Scott State KS

Interval Tested 4545 4620 Zone Tested Johnson
 Anchor Length _____ Drill Pipe Run 4288 Mud Wt. 9.3
 Top Packer Depth _____ Drill Collars Run 236 Vis 52
 Bottom Packer Depth _____ Wt. Pipe Run _____ WL 8.0
 Total Depth 4620 Chlorides 8600 ppm System LCM 2

Blow Description IF: BoB in 24 min.
IS: No return.
FF: BoB in 11 min.
FS: surface blows died in 15 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>6CM</u>	<u>10</u>	<u>10</u>	<u>90</u>	
<u>62</u>	<u>MC90</u>	<u>50</u>	<u>40</u>		
_____	_____	_____	_____	_____	_____
_____	<u>496 GIP</u>	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Rec Total 186 BHT 121 Gravity _____ API RW _____ @ _____ °F-Chlorides _____ ppm

(A) Initial Hydrostatic <u>2373</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>4:30</u>
(B) First Initial Flow <u>37</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>5:06</u>
(C) First Final Flow <u>59</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>7:24</u>
(D) Initial Shut-In <u>930</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>11:24</u>
(E) Second Initial Flow <u>70</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>13:40</u>
(F) Second Final Flow <u>103</u>	<input checked="" type="checkbox"/> Mileage <u>30</u> 46.50	Comments _____
(G) Final Shut-In <u>980</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2278</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

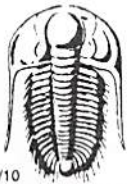
Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1621.50

Approved By Kevin Kessler Our Representative _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56496

Well Name & No. Wilkins unit 1-6 Test No. 7 Date 6-12-14
 Company Murfin Drilling Co Elevation 2987 KB 2976 GL
 Address _____
 Co. Rep / Geo. Kevin Kestler Rig Murfin 22
 Location: Sec. 6 Twp. 19S Rge. 32W Co. Scott State KS

Interval Tested 4610 4670 Zone Tested Morrow sand
 Anchor Length _____ Drill Pipe Run 4351 Mud Wt. 9.3
 Top Packer Depth _____ Drill Collars Run 236 Vis 55
 Bottom Packer Depth 4610 Wt. Pipe Run _____ WL 8.0
 Total Depth 4670 Chlorides 9600 ppm System LCM 2

Blow Description IF: 1/4 blow died in 15 min.
IS: No return.
FF: No blow.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>mud oil spots</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 15 BHT 120 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2428</u>	<input checked="" type="checkbox"/> Test	1250	T-On Location <u>28:20</u>
(B) First Initial Flow <u>31</u>	<input checked="" type="checkbox"/> Jars	250	T-Started <u>00:32</u>
(C) First Final Flow <u>37</u>	<input checked="" type="checkbox"/> Safety Joint	75	T-Open <u>2:32</u>
(D) Initial Shut-In <u>989</u>	<input checked="" type="checkbox"/> Circ Sub	<u>NIL</u>	T-Pulled <u>5:32</u>
(E) Second Initial Flow <u>39</u>	<input type="checkbox"/> Hourly Standby		T-Out <u>7:40</u>
(F) Second Final Flow <u>43</u>	<input checked="" type="checkbox"/> Mileage	<u>30 - 46.50</u>	Comments _____
(G) Final Shut-In <u>464</u>	<input type="checkbox"/> Sampler		
(H) Final Hydrostatic <u>2327</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer

Initial Open 30 Shale Packer _____
 Initial Shut-In 60 Extra Packer _____
 Final Flow 30 Extra Recorder _____
 Final Shut-In 60 Day Standby _____
 Accessibility _____
 Sub Total 1621.50

Approved By Kevin Kestler Our Representative [Signature]

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*Prod-me
acct-1*

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 143652
Invoice Date: Jun 3, 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	63297	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jun 3, 2014	7/3/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Wilkens Unit #1-6		
235.00	CEMENT MATERIALS	Class A Common	17.90	4,206.50
442.00	CEMENT MATERIALS	Gel	1.05	464.10
663.00	CEMENT MATERIALS	Chloride	1.10	729.30
254.11	CEMENT SERVICE	Cubic Feet Charge	2.48	630.19
440.80	CEMENT SERVICE	Ton Mileage Charge	2.75	1,212.20
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
38.00	CEMENT SERVICE	Pump Truck Mileage	7.70	292.60
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
38.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	167.20
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		

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

\$ 3,321.26

ONLY IF PAID ON OR BEFORE
Jul 3, 2014

Subtotal	9,489.34
Sales Tax	440.09
Total Invoice Amount	9,929.43
Payment/Credit Applied	
TOTAL	9,929.43

OK

ALLIED OIL & GAS SERVICES, LLC 063297

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Oakley, KS

DATE <u>6-3-14</u>	SEC. <u>6</u>	TWP. <u>17</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION <u>8:30 pm</u>	JOB START <u>10:00 pm</u>	JOB FINISH <u>10:20 pm</u>
LEASE <u>Wilkins Unit</u>	WELL # <u>1-6</u>	LOCATION <u>Scott City 8N, Y2E</u>	COUNTY <u>Scott</u>	STATE <u>Ks</u>			
OLD OR NEW (Circle one) <u>NEW</u>				<u>Units</u>			

CONTRACTOR Martin 22 OWNER Same

TYPE OF JOB Surface

HOLE SIZE 12 1/8" T.D. 298' CEMENT

CASING SIZE 8 7/8" DEPTH 298.42' AMOUNT ORDERED 2355 lbs cement 390cc.

TUBING SIZE _____ DEPTH _____ 290 gal

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT 78.14 bbl

EQUIPMENT

PUMP TRUCK CEMENTER Karane E. White

422 HELPER Wayne McElghy

BULK TRUCK # 891/310 DRIVER Joel Martinez (TWS)

BULK TRUCK # _____ DRIVER _____

COMMON 2355 lbs @ 17.90 4206.50
POZMIX @ _____
GEL 442 # @ 1.05 464.10
CHLORIDE 663 # @ 1.10 729.30
ASC @ _____

Materia Total 5399.90

(1,809.96/358)

_____ @ _____
_____ @ _____
_____ @ _____

HANDLING 254.11 873 @ 2.48 630.19
MILEAGE 16.6 km x 38 x 2.75 1712.20

TOTAL :

REMARKS:

Mix 2355 lbs cement
Displace w/ the water
Cement did circulate
105 lbs to pit

SERVICE

DEPTH OF JOB 298.42'

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @ _____

MILEAGE MFLU 38 @ 2.70 292.60

MANIFOLD Seage @ 225.00

MFLU 38 @ 4.40 167.20

(1,431.30/358) 4,089.94

TOTAL

CHARGE TO: Martin

STREET _____

CITY _____ STATE _____ ZIP _____

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.

SALES TAX (If Any) _____

TOTAL CHARGES 9,489.34

PRINTED NAME Sammy Fajera DISCOUNT 3321.26 (358) IF PAID IN 30 DAYS

SIGNATURE _____ 6,168.07 Net.



Prod-MG

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 143785

Invoice Date: Jun 14, 2014

Page: 1

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

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	63339	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Jun 14, 2014	7/14/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Wilkins Unit #1-6		
300.00	CEMENT MATERIALS	60/40/4% Gel	18.92	5,676.00
75.00	CEMENT MATERIALS	Flo Seal	2.97	222.75
322.20	CEMENT SERVICE	Cubic Feet Charge	2.48	799.06
511.25	CEMENT SERVICE	Ton Mileage Charge	2.75	1,405.94
1.00	CEMENT SERVICE	Plug to Abandon	2,483.59	2,483.59
38.00	CEMENT SERVICE	Pump Truck Mileage	7.70	292.60
38.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	167.20
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		

Subtotal	11,047.14
Sales Tax	900.34
Total Invoice Amount	11,947.48
Payment/Credit Applied	
TOTAL	11,947.48

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

\$ 3,866.49

ONLY IF PAID ON OR BEFORE
Jul 14, 2014

OR

ALLIED OIL & GAS SERVICES, LLC 063339

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Deakley

DATE <u>4/14/14</u>	SEC. <u>6</u>	TWP. <u>17</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION	JOB START <u>2:20</u>	JOB FINISH <u>3:20</u>
LEASE <u>Wilkins</u>	WELL# <u>1-6</u>	LOCATION <u>Hwy 4-83 1/2 E. Micho</u>			COUNTY <u>Scott</u>	STATE <u>TX</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Murkin 22

TYPE OF JOB RTA

HOLE SIZE 7 7/8 T.D.

CASING SIZE 8 7/8 DEPTH 298'

TUBING SIZE DEPTH

DRILL PIPE 5 1/2 DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER Same

CEMENT AMOUNT ORDERED 300 60/40 475 gel

1/2 x FLO 200

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Alan Ryan</u>
<u>483-281</u>	HELPER <u>Kevin Ryan</u>
BULK TRUCK	DRIVER <u>Joel (TWS)</u>
<u>4391</u>	DRIVER
BULK TRUCK	
#	

COMMON	@	
POZMIX	@	
GEL	@	
CHLORIDE	@	
ASC	@	
<u>60/40 475 gel 300SK</u>	@	<u>18.92 5676.00</u>
<u>FLO Seal 75lb</u>	@	<u>2.97 222.25</u>
<u>Material misc</u>	@	<u>3,890.25</u>
<u>(2064.56/38)</u>	@	
HANDLING <u>300 20</u>	@	<u>48 799.06</u>
MILEAGE <u>257 miles to 13.457</u>	@	<u>1405.94</u>
TOTAL		

REMARKS:

2370' - 50SK 30SK - R.H.

1560' - 80SK 20SK - M.H.

750' - 50SK

330' - 50SK

60' - 20SK

SERVICE

DEPTH OF JOB	<u>2370'</u>
PUMP TRUCK CHARGE	<u>2483.22</u>
EXTRA FOOTAGE	@
MILEAGE <u>38</u>	@ <u>7.20 292.60</u>
MANIFOLD	@
<u>Cste vehicle 38</u>	@ <u>4.40 167.20</u>
TOTAL <u>5,148.39</u>	

CHARGE TO: Murkin Drilling Co

STREET _____

CITY _____ STATE _____ ZIP _____

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 Sammy [Signature]

SIGNATURE _____

SALES TAX (If Any) _____

TOTAL CHARGES 11,047.14

DISCOUNT 3,866.49 (35%) IF PAID IN 30 DAYS

7,180.64 Net.

Wilkins Unit #1-6
 Daily Drilling Report
 Page Two

- 6/11/14 Depth 4535'. Cut 80'. DT: None. CT: 16hrs. Dev.: 1¾° @ 4535'. **DST #4 4390-4455 (Marm A-C)**: 30-60-60-90. IF: BOB 6mins. FF: surf blw built to ¼" in 10mins, died in 15mins. FF: BOB 9mins. Rec.: 129'OCMW (2%O, 68%W, 30%M), 310'MCW (80%W, 20%M), 624'MCW (95%W, 5%M). HP: 2319-2200. FP: 96/336, 337/599. SIP: 1158-1110. BHT: 126°. **DST #5 4445-4535 (Paw-Ft Sc)**: 30-60-30-60. IF: surf blw died in 6mins. FF: no blw. Rec.: 5'M. HP: 2339-2310. FP: 32/32, 29/29. SIP: 110-45. BHT: 117°
- 6/12/14 Depth 4620'. Cut 85'. DT: None. CT: 14¾ hrs. Dev.: 1¾° @ 4620'. **DST #6 4545-4620 (Johnson Zone)**: 30-60-60-90. IF: BOB 24mins. FF: BOB 11mins. Rec.: 496'GIP, 124'OCM (10%O, 90%M), 62'MCGO (50%G, 10%O, 40%M). HP: 2373-2279. FP: 37/59, 70/103. SIP: 930-981. BHT: 122°
- 6/13/14 Depth 4670'. Cut 50'. DT: None. CT: 20¾ hrs. Dev.: None. **DST #7 4610-4670' (MRW SD)**: 30-60-30-60. IF: ¼" blw died in 15 min. FF: no blw. Rec. 15' M w/oil spots. HP: 2428-2328. FP: 31/37, 39/44. SIP: 989-465. BHT: 120°.
- 6/14/14 RTD: 4770'. Cut 100'. DT: None. CT: 14¾ hrs. Dev.: 1½° @ 4770'. HC @ 8:30PM 6/13. Pioneer logged 11:30AM – 5:30PM 6/13. LTD: 4768'. Plugging.
- 6/15/14 RTD: 4770'. CT 12hrs. Allied plugged hole, 12:30PM – 3:00PM 6/14, as follows using 60/40Poz, 4%Gel, ¼#Flo seal, 50sxs @ 2370', 50sxs @ 1560', 50sxs @ 750', 50sxs @ 330', 20sxs @ 60', 30sxs RH, 20sxs MH. Orders by Kenny Sullivan, KCC Dodge City. RR @ 7:00PM 6/14/14

MDCI Wilkins Unit #1-6 2640' FNL 1800' FWL Sec. 6-T17S-R32W 2987' KB							Great Plains Energy Zanobia #1 1680FSL 1185FWL Sec. 5-T17S-R32W 2987' KB	
Formation	Sample Top	Datum	Ref	Log tops	Datum	Ref	Log Top	Datum
Anhydrite	2269	+718	+1	2266	+721	+5	2270	+717
B/Anhydrite	2358	+629	+1	2356	+631	+2	2359	+628
Topeka	3688	-701	+14	3686	-699	+16	3702	-715
Heebner	3926	-939	+14	3923	-936	+17	3940	-953
Lansing	3967	-980	+14	3967	-980	+14	3981	-994
Stark	4244	-1257	+14	4242	-1255	+16	4258	-1271
Pawnee	4460	-1473	+20	4462	-1475	+18	4480	-1493
Ft. Scott	4505	-1518	+19	4504	-1517	+20	4524	-1537
Mississippi	4695	-1708	+13	4669	-1682	+13	4682	-1695
RTD	4770						4760	
LTD				4768				