



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1204199
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: _____

1204199

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	Wilkinson Trust 1-16
Doc ID	1204199

All Electric Logs Run

Dual Induction
Dual Compensated
Microresistivity
Borehole Compensated



DRILL STEM TEST REPORT

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

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

16-2s-36w Rawlins,KS

Wilkinson Trust #1-16

Start Date: 2014.01.25 @ 14:55:00

End Date: 2014.01.25 @ 22:24:30

Job Ticket #: 53378 DST #: 1

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

Printed: 2014.02.03 @ 15:17:54



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Wilkinson Trust #1-16

16-2s-36w Rawlins,KS

Job Ticket: 53378

DST#: 1

Test Start: 2014.01.25 @ 14:55:00

GENERAL INFORMATION:

Formation: **Stotler**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:31:30

Time Test Ended: 22:24:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4003.00 ft (KB) To 4070.00 ft (KB) (TVD)

Total Depth: 4070.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3348.00 ft (KB)

3343.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8874

Inside

Press@RunDepth: 22.31 psig @ 4004.00 ft (KB)

Start Date: 2014.01.25

End Date:

2014.01.25

Start Time: 14:56:00

End Time:

22:24:30

Capacity: 8000.00 psig

Last Calib.: 2014.01.25

Time On Btm: 2014.01.25 @ 17:30:00

Time Off Btm: 2014.01.25 @ 20:34:00

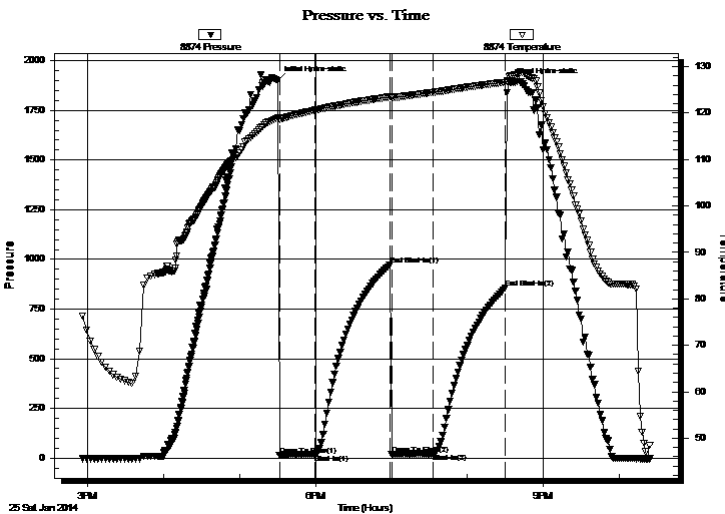
TEST COMMENT: 30 - IF- 1/4" Blow built to 1"

60 - IS- No Return

30 - FF- Surface Blow started at 10 min. Did not build or die.

60 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1900.11	118.87	Initial Hydro-static
2	15.13	118.68	Open To Flow (1)
30	17.19	120.60	Shut-In(1)
89	971.67	123.47	End Shut-In(1)
90	19.48	123.27	Open To Flow (2)
123	22.31	124.44	Shut-In(2)
180	855.54	126.63	End Shut-In(2)
184	1890.73	127.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

Wilkinson Trust #1-16

250 N Water STE #300
Wichita, KS 67202

16-2s-36w Rawlins,KS

Job Ticket: 53378

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.01.25 @ 14:55:00

Tool Information

Drill Pipe:	Length: 3814.00 ft	Diameter: 3.80 inches	Volume: 53.50 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 54.41 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4003.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	67.00 ft				
Tool Length:	95.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3976.00	
Shut In Tool	5.00			3981.00	
Hydraulic tool	5.00			3986.00	
Jars	5.00			3991.00	
Safety Joint	3.00			3994.00	
Packer	5.00			3999.00	28.00 Bottom Of Top Packer
Packer	4.00			4003.00	
Stubb	1.00			4004.00	
Recorder	0.00	8653	Outside	4004.00	
Recorder	0.00	8874	Inside	4004.00	
Perforations	1.00			4005.00	
Change Over Sub	1.00			4006.00	
Drill Pipe	60.00			4066.00	
Change Over Sub	1.00			4067.00	
Bullnose	3.00			4070.00	67.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Wilkinson Trust #1-16

250 N Water STE #300
Wichita, KS 67202

16-2s-36w Rawlins,KS

Job Ticket: 53378

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.01.25 @ 14:55:00

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: 88.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8874

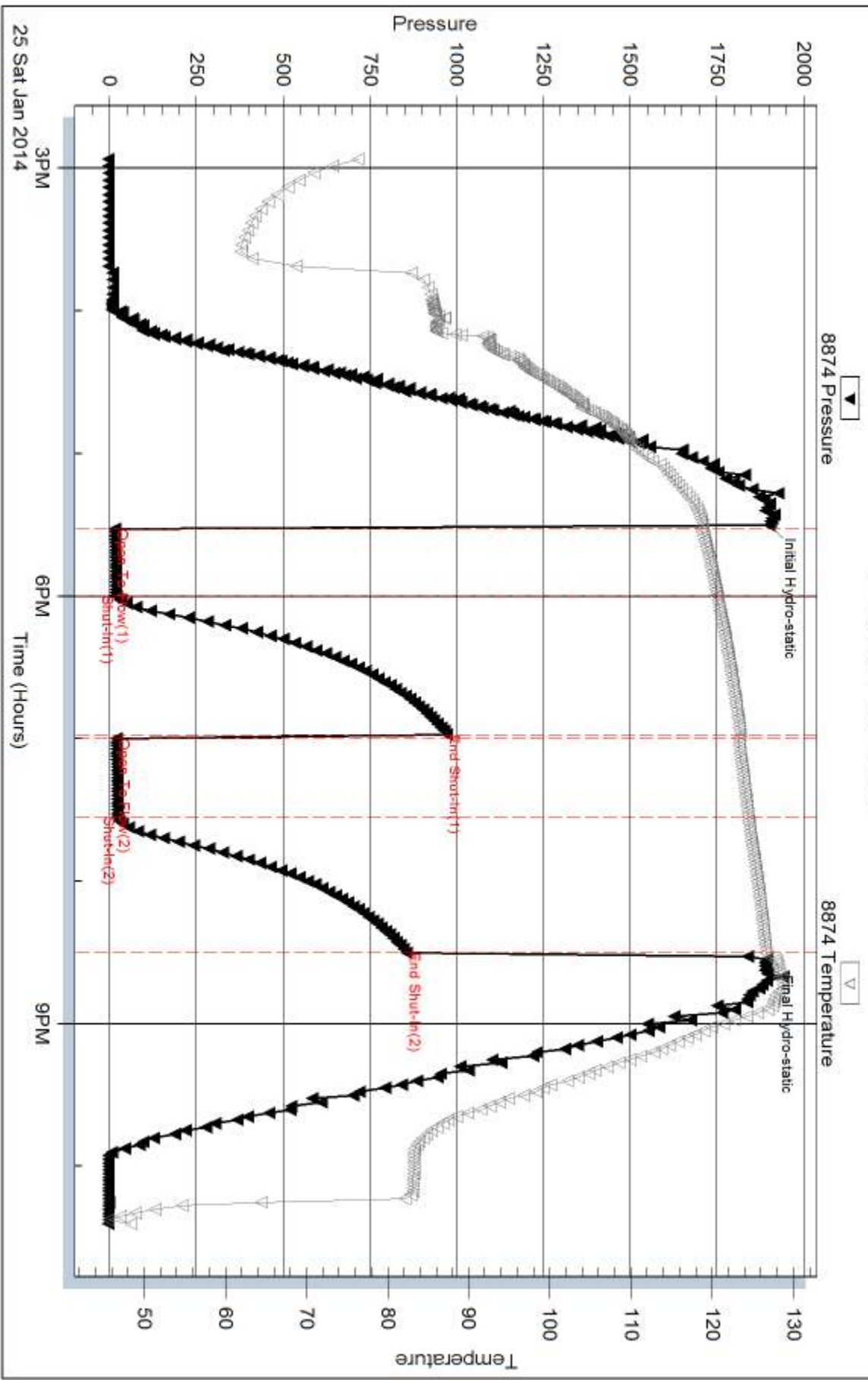
Inside

Murfin Drilling Co., Inc.

16-2s-36w Rawlins, KS

DST Test Number: 1

Pressure vs. Time



25 Sat Jan 2014 3PM

6PM Time (Hours)

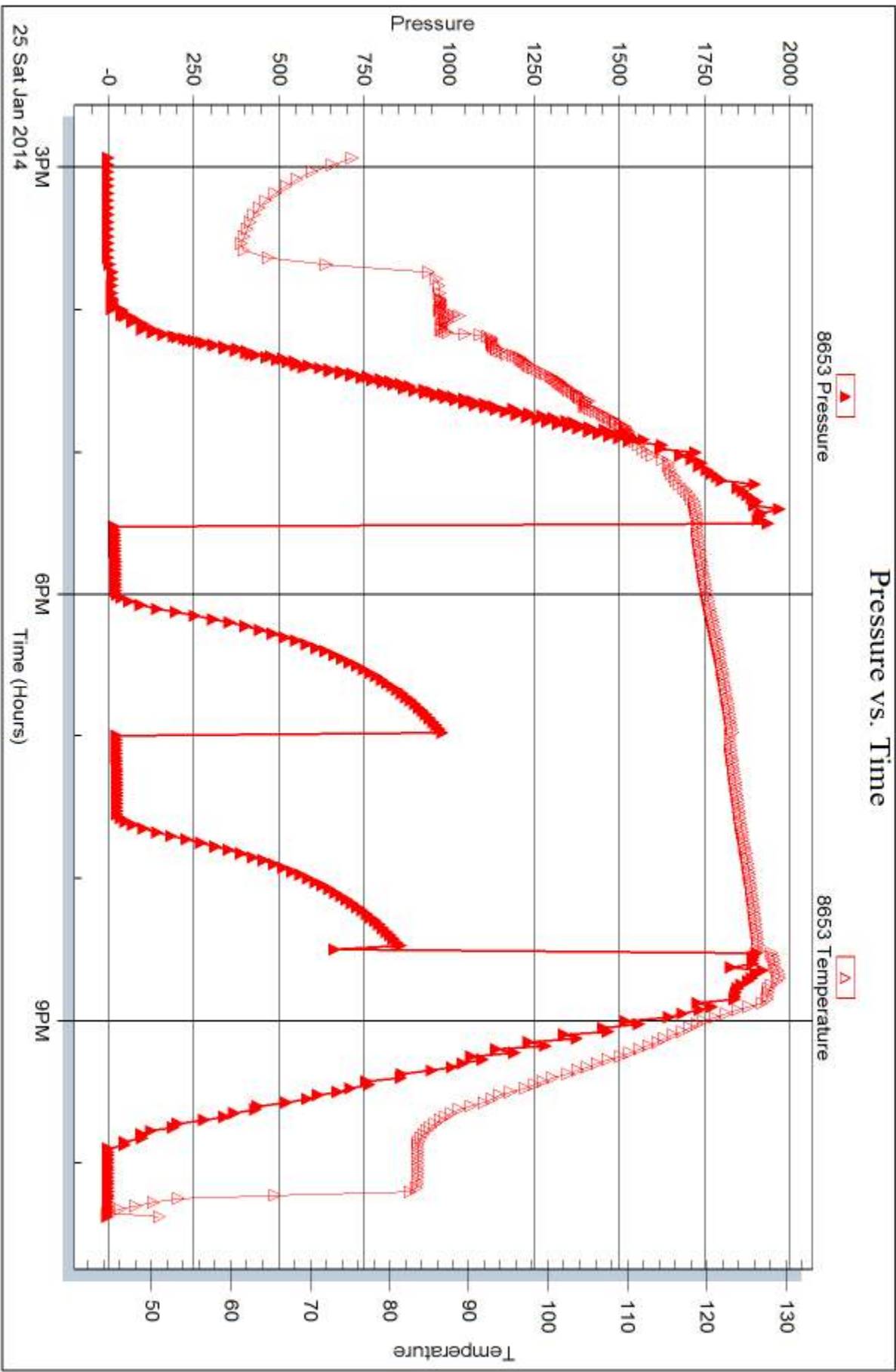
9PM

Serial #: 8653

Outside Murfin Drilling Co., Inc.

16-25-36w Rawlins, KS

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 53378

Printed: 2014.02.03 @ 15:17:56



DRILL STEM TEST REPORT

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

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

16-2s-36w Rawlins,KS

Wilkinson Trust #1-16

Start Date: 2014.01.26 @ 12:05:00

End Date: 2014.01.26 @ 21:21:30

Job Ticket #: 53379 DST #: 2

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

Printed: 2014.02.03 @ 15:17:31

Murfin Drilling Co., Inc.

Wilkinson Trust #1-16

16-2s-36w Rawlins,KS

DST # 2

Oread

2014.01.26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Wilkinson Trust #1-16

16-2s-36w Rawlins,KS

Job Ticket: 53379

DST#: 2

Test Start: 2014.01.26 @ 12:05:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:37:00

Time Test Ended: 21:21:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4158.00 ft (KB) To 4215.00 ft (KB) (TVD)

Reference Elevations: 3348.00 ft (KB)

Total Depth: 4215.00 ft (KB) (TVD)

3343.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8874

Inside

Press@RunDepth: 462.92 psig @ 4159.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.26

End Date:

2014.01.26

Last Calib.:

2014.01.26

Start Time: 12:06:00

End Time:

21:21:30

Time On Btm:

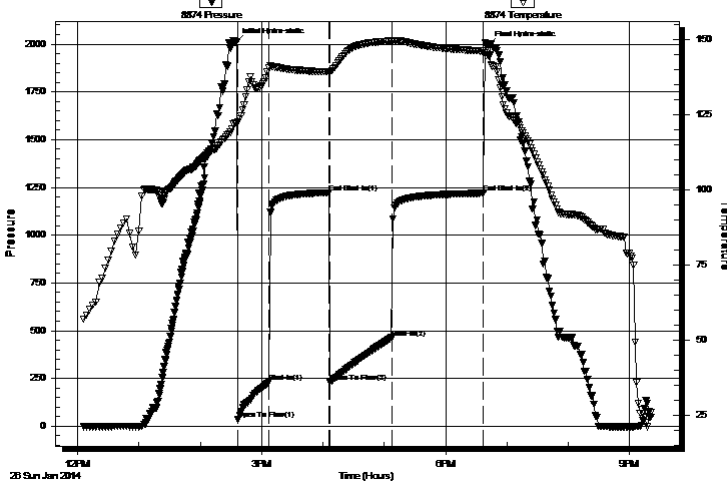
2014.01.26 @ 14:35:00

Time Off Btm:

2014.01.26 @ 18:41:30

TEST COMMENT: 30 - IF- BoB in 8 min.
60 - IS- No Return
60 - FF- BOB in 12 min.
90 - FS- No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2007.16	122.48	Initial Hydro-static
2	33.83	122.66	Open To Flow (1)
32	228.95	140.93	Shut-In(1)
91	1222.72	139.39	End Shut-In(1)
92	229.74	139.19	Open To Flow (2)
152	462.92	149.69	Shut-In(2)
242	1219.85	146.33	End Shut-In(2)
247	1990.44	144.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (Heavy) 100M	0.02
501.00	MW 5M 95W	5.38
128.00	MW 20M 80W	1.80
320.00	WM 50M 50W	4.49
30.00	OSWM 60M 40W (oil spots)	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Wilkinson Trust #1-16

16-2s-36w Rawlins,KS

Job Ticket: 53379

DST#: 2

Test Start: 2014.01.26 @ 12:05:00

GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:37:00

Time Test Ended: 21:21:30

Interval: 4158.00 ft (KB) To 4215.00 ft (KB) (TVD)

Total Depth: 4215.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Reference Elevations: 3348.00 ft (KB)

3343.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8653 Outside

Press@RunDepth: psig @ 4159.00 ft (KB)

Start Date: 2014.01.26

End Date: 2014.01.26

Capacity: 8000.00 psig

Last Calib.: 2014.01.26

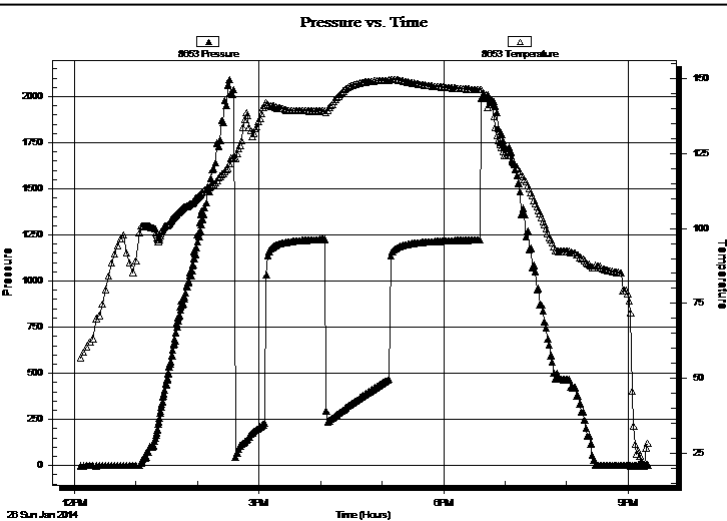
Start Time: 12:06:00

End Time: 21:19:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- BoB in 8 min.
60 - IS- No Return
60 - FF- BOB in 12 min.
90 - FS- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (Heavy) 100M	0.02
501.00	MW 5M 95W	5.38
128.00	MW 20M 80W	1.80
320.00	WM 50M 50W	4.49
30.00	OSWM 60M 40W (oil spots)	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

Wilkinson Trust #1-16

250 N Water STE #300
Wichita, KS 67202

16-2s-36w Rawlins,KS

Job Ticket: 53379

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.01.26 @ 12:05:00

Tool Information

Drill Pipe:	Length: 3969.00 ft	Diameter: 3.80 inches	Volume: 55.67 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 56.58 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4158.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	57.00 ft				
Tool Length:	85.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4131.00	
Shut In Tool	5.00			4136.00	
Hydraulic tool	5.00			4141.00	
Jars	5.00			4146.00	
Safety Joint	3.00			4149.00	
Packer	5.00			4154.00	28.00 Bottom Of Top Packer
Packer	4.00			4158.00	
Stubb	1.00			4159.00	
Recorder	0.00	8653	Outside	4159.00	
Recorder	0.00	8874	Inside	4159.00	
Perforations	17.00			4176.00	
Change Over Sub	1.00			4177.00	
Drill Pipe	32.00			4209.00	
Change Over Sub	1.00			4210.00	
Bullnose	5.00			4215.00	57.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Wilkinson Trust #1-16

250 N Water STE #300
Wichita, KS 67202

16-2s-36w Rawlins,KS

Job Ticket: 53379

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.01.26 @ 12:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud (Heavy) 100M	0.025
501.00	MW 5M 95W	5.379
128.00	MW 20M 80W	1.796
320.00	WM 50M 50W	4.489
30.00	OSWM 60M 40W (oil spots)	0.421

Total Length: 984.00 ft

Total Volume: 12.110 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

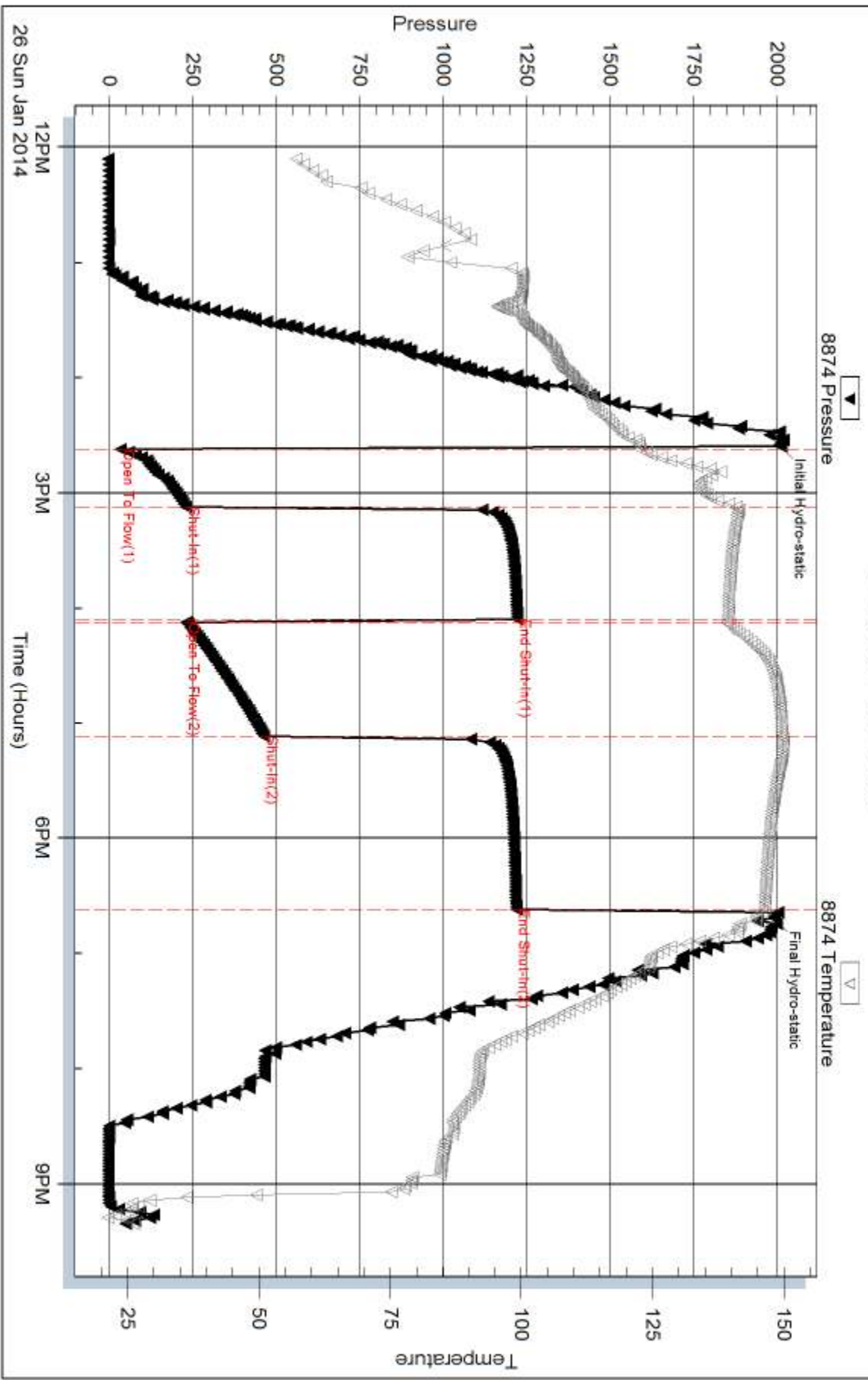
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

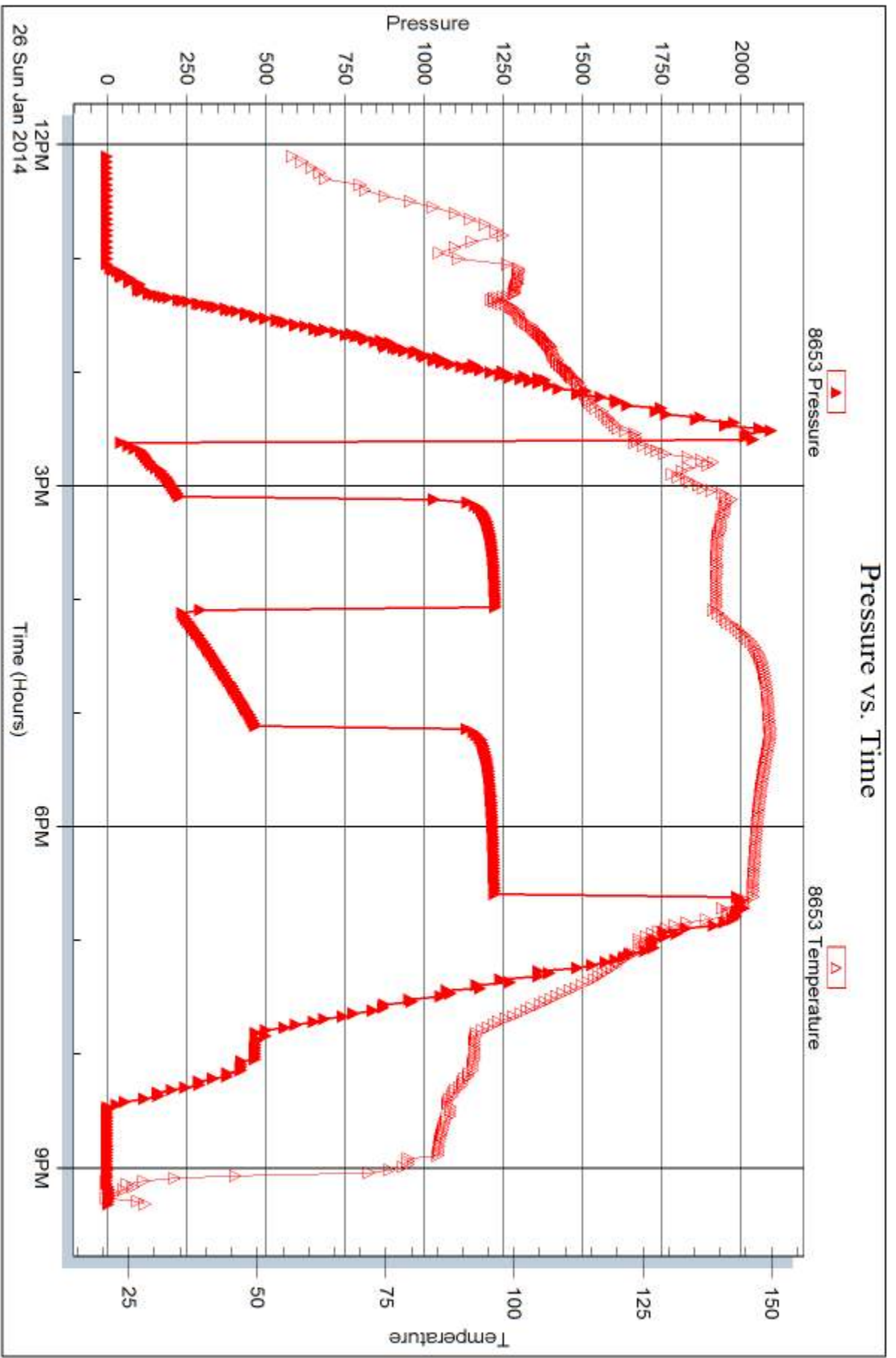


Serial #: 8653

Outside Murfin Drilling Co., Inc.

16-25-36w Rawlins, KS

DST Test Number: 2





DRILL STEM TEST REPORT

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

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

16-2s-36w Rawlins,KS

Wilkinson Trust #1-16

Start Date: 2014.01.27 @ 09:48:00

End Date: 2014.01.27 @ 17:44:30

Job Ticket #: 53380 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.02.03 @ 15:17:09

Murfin Drilling Co., Inc.

Wilkinson Trust #1-16

16-2s-36w Rawlins,KS

DST # 3

LKC A

2014.01.27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Wilkinson Trust #1-16

16-2s-36w Rawlins,KS

Job Ticket: 53380

DST#: 3

Test Start: 2014.01.27 @ 09:48:00

GENERAL INFORMATION:

Formation: **LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:33:30

Time Test Ended: 17:44:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4234.00 ft (KB) To 4315.00 ft (KB) (TVD)

Reference Elevations: 3348.00 ft (KB)

Total Depth: 4315.00 ft (KB) (TVD)

3343.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8874

Inside

Press@RunDepth: 24.19 psig @ 4235.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.27

End Date:

2014.01.27

Last Calib.:

2014.01.27

Start Time: 09:49:00

End Time:

17:44:30

Time On Btm:

2014.01.27 @ 12:33:00

Time Off Btm:

2014.01.27 @ 15:39:30

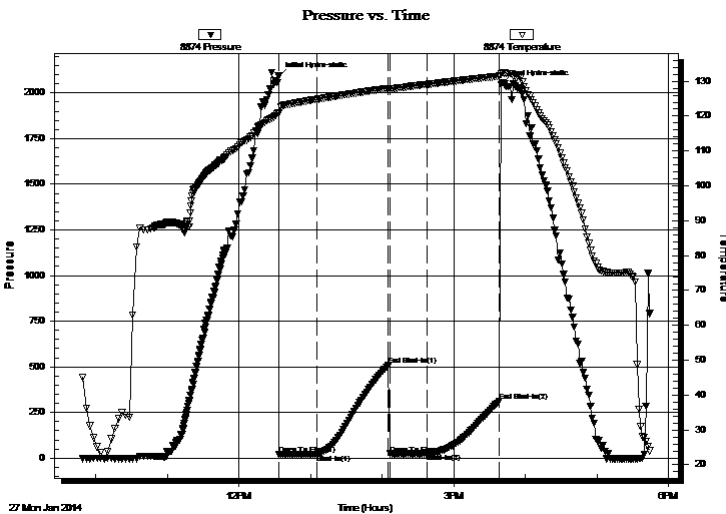
TEST COMMENT: 30 - IF- Surface Blow built to 1/4" then died back to Surface Blow .

60 - IS- No Return

30 - FF- No Blow

60 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2092.24	120.96	Initial Hydro-static
1	19.07	120.85	Open To Flow (1)
32	22.92	124.81	Shut-In(1)
92	511.32	127.96	End Shut-In(1)
94	23.44	127.93	Open To Flow (2)
125	24.19	129.08	Shut-In(2)
185	312.58	131.45	End Shut-In(2)
187	2046.12	132.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100M (oil spots)	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

Wilkinson Trust #1-16

250 N Water STE #300
Wichita, KS 67202

16-2s-36w Rawlins,KS

Job Ticket: 53380

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.01.27 @ 09:48:00

Tool Information

Drill Pipe:	Length: 4030.00 ft	Diameter: 3.80 inches	Volume: 56.53 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 57.44 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4234.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	109.00 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
Change Over Sub	1.00			4207.00	
Shut In Tool	5.00			4212.00	
Hydraulic tool	5.00			4217.00	
Jars	5.00			4222.00	
Safety Joint	3.00			4225.00	
Packer	5.00			4230.00	28.00 Bottom Of Top Packer
Packer	4.00			4234.00	
Stubb	1.00			4235.00	
Recorder	0.00	8653	Outside	4235.00	
Recorder	0.00	8874	Inside	4235.00	
Perforations	10.00			4245.00	
Change Over Sub	1.00			4246.00	
Drill Pipe	63.00			4309.00	
Change Over Sub	1.00			4310.00	
Bullnose	5.00			4315.00	81.00 Bottom Packers & Anchor

Total Tool Length: 109.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Wilkinson Trust #1-16

250 N Water STE #300
Wichita, KS 67202

16-2s-36w Rawlins,KS

Job Ticket: 53380

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.01.27 @ 09:48:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OSM 100M (oil spots)	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

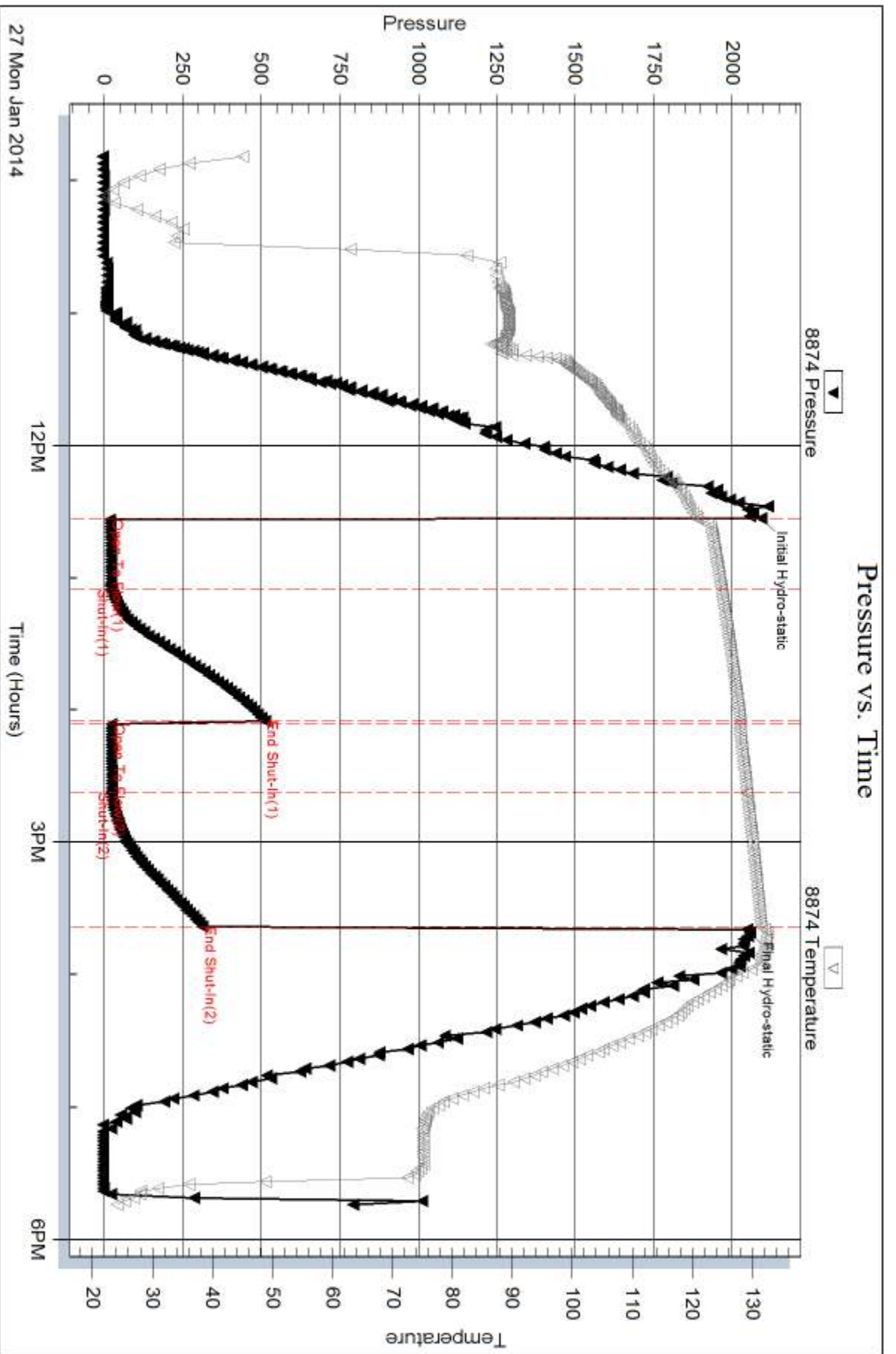
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

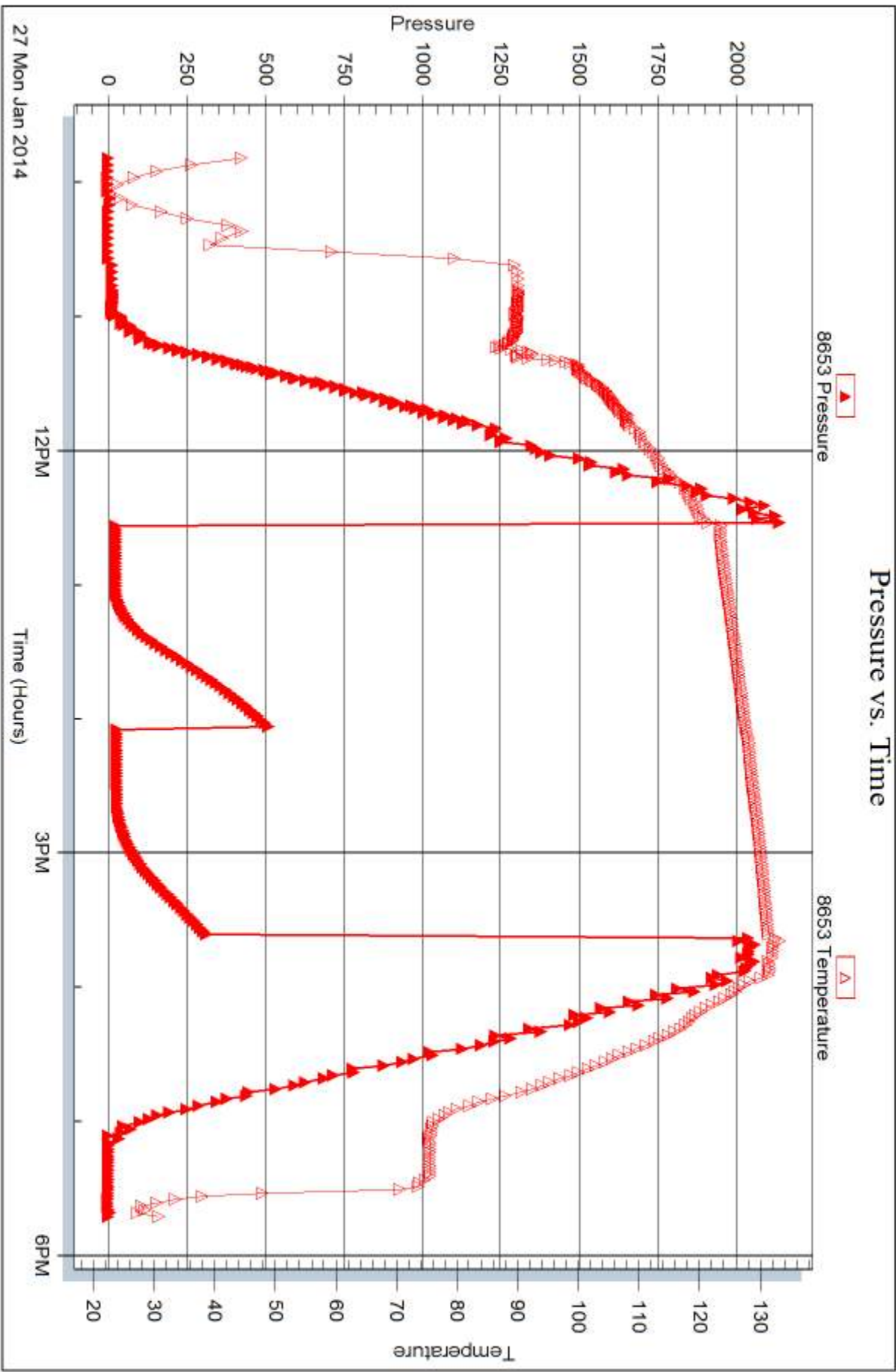


Serial #: 8653

Outside Murfin Drilling Co., Inc.

16-25-36w Rawlins, KS

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 53380

Printed: 2014.02.03 @ 15:17:11



DRILL STEM TEST REPORT

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

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

16-2s-36w Rawlins,KS

Wilkinson Trust #1-16

Start Date: 2014.01.28 @ 04:58:00

End Date: 2014.01.28 @ 13:41:30

Job Ticket #: 53381 DST #: 4

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

Printed: 2014.02.03 @ 15:16:42

Murfin Drilling Co., Inc.

Wilkinson Trust #1-16

16-2s-36w Rawlins,KS

DST # 4

LKC "D"

2014.01.28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Wilkinson Trust #1-16

16-2s-36w Rawlins,KS

Job Ticket: 53381

DST#: 4

Test Start: 2014.01.28 @ 04:58:00

GENERAL INFORMATION:

Formation: **LKC "D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:10:30
 Time Test Ended: 13:41:30
 Interval: **4318.00 ft (KB) To 4375.00 ft (KB) (TVD)**
 Total Depth: 4375.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 66
 Reference Elevations: 3348.00 ft (KB)
 3343.00 ft (CF)
 KB to GR/CF: 5.00 ft

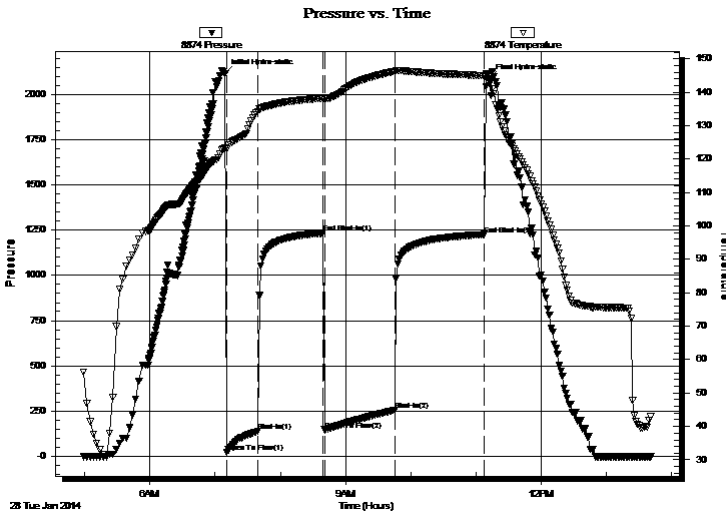
Serial #: 8874

Inside

Press@RunDepth: 254.96 psig @ 4319.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.28 End Date: 2014.01.28 Last Calib.: 2014.01.28
 Start Time: 04:59:00 End Time: 13:41:30 Time On Btm: 2014.01.28 @ 07:09:00
 Time Off Btm: 2014.01.28 @ 11:11:30

TEST COMMENT: 30 - IF- BoB in 11 min.
 60 - IS- Surface Return Built to 3/4"
 60 - FF- BoB in 22 min.
 90 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2118.18	123.46	Initial Hydro-static
2	20.31	122.95	Open To Flow (1)
30	137.19	134.25	Shut-In(1)
90	1234.02	138.18	End Shut-In(1)
92	146.22	137.98	Open To Flow (2)
156	254.96	146.27	Shut-In(2)
239	1226.65	144.98	End Shut-In(2)
243	2089.31	143.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	OCMW 5o 20M 75W	0.91
125.00	OCWM 10o 40W 50M	1.75
64.00	OCWM 10o 30W 60M	0.90
125.00	OCM 40o 60M	1.75
40.00	Free Oil 100o	0.56

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

Wilkinson Trust #1-16

250 N Water STE #300
Wichita, KS 67202

16-2s-36w Rawlins,KS

Job Ticket: 53381

DST#: 4

ATTN: Robert Hendrix

Test Start: 2014.01.28 @ 04:58:00

Tool Information

Drill Pipe:	Length: 4124.00 ft	Diameter: 3.80 inches	Volume: 57.85 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 58.76 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4318.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	57.00 ft				
Tool Length:	85.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4291.00	
Shut In Tool	5.00			4296.00	
Hydraulic tool	5.00			4301.00	
Jars	5.00			4306.00	
Safety Joint	3.00			4309.00	
Packer	5.00			4314.00	28.00 Bottom Of Top Packer
Packer	4.00			4318.00	
Stubb	1.00			4319.00	
Recorder	0.00	8653	Outside	4319.00	
Recorder	0.00	8874	Inside	4319.00	
Perforations	17.00			4336.00	
Change Over Sub	1.00			4337.00	
Drill Pipe	32.00			4369.00	
Change Over Sub	1.00			4370.00	
Bullnose	5.00			4375.00	57.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Wilkinson Trust #1-16

250 N Water STE #300
Wichita, KS 67202

16-2s-36w Rawlins,KS

Job Ticket: 53381

DST#: 4

ATTN: Robert Hendrix

Test Start: 2014.01.28 @ 04:58:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	OCMW 5o 20M 75W	0.915
125.00	OCWM 10o 40W 50M	1.753
64.00	OCWM 10o 30W 60M	0.898
125.00	OCM 40o 60M	1.753
40.00	Free Oil 100o	0.561

Total Length: 540.00 ft Total Volume: 5.880 bbl

Num Fluid Samples: 0

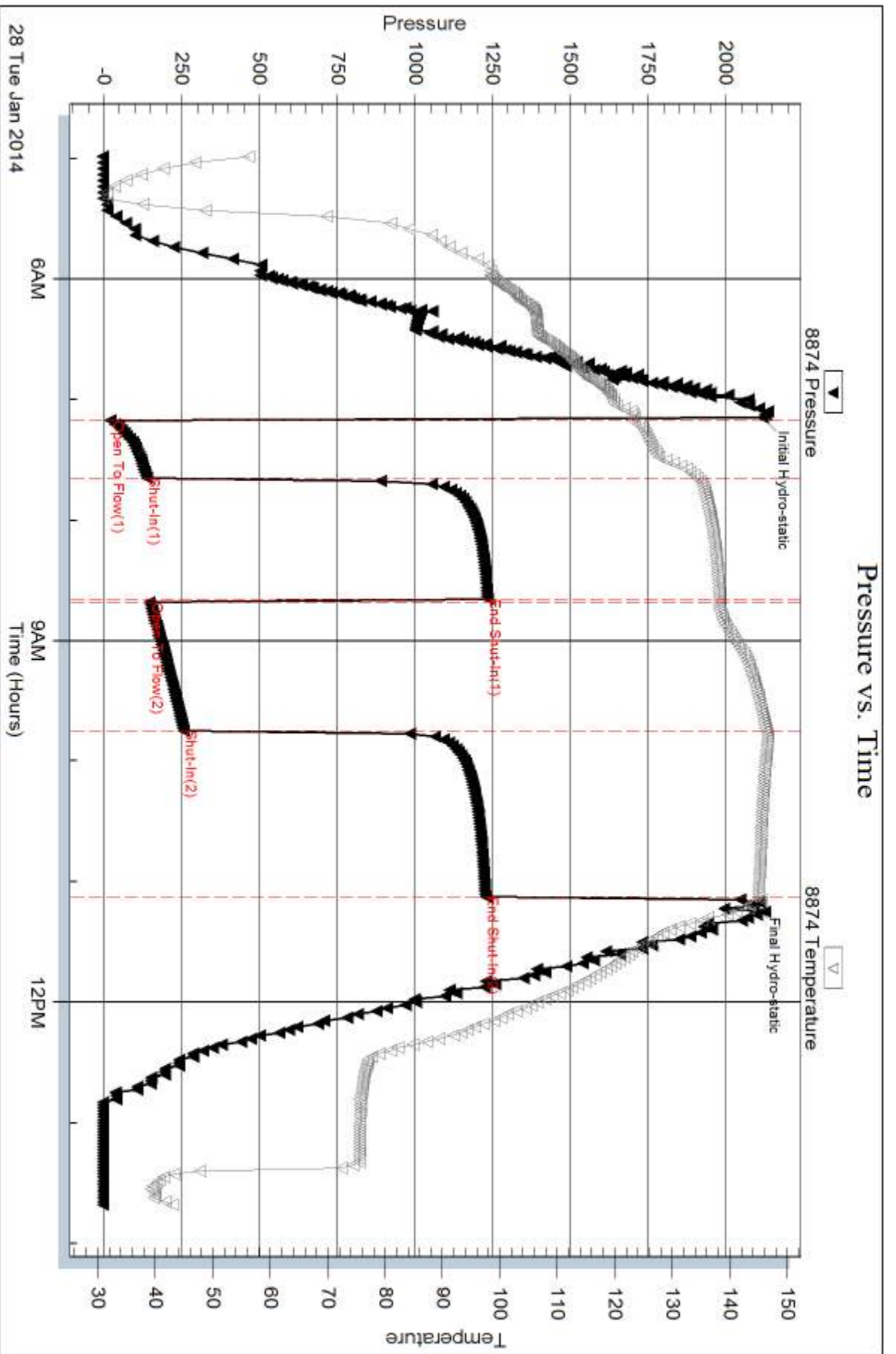
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API = 27 @ 70 deg = 26 cor.





DRILL STEM TEST REPORT

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

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

16-2s-36w Rawlins,KS

Wilkinson Trust #1-16

Start Date: 2014.01.29 @ 12:00:00

End Date: 2014.01.29 @ 19:58:30

Job Ticket #: 53382 DST #: 5

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

Printed: 2014.02.03 @ 15:16:18

Murfin Drilling Co., Inc.

Wilkinson Trust #1-16

16-2s-36w Rawlins,KS

DST # 5

LKC "G"

2014.01.29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

Wilkinson Trust #1-16

250 N Water STE #300
Wichita, KS 67202

16-2s-36w Rawlins,KS

ATTN: Robert Hendrix

Job Ticket: 53382

DST#: 5

Test Start: 2014.01.29 @ 12:00:00

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:45:30

Time Test Ended: 19:58:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4386.00 ft (KB) To 4420.00 ft (KB) (TVD)

Reference Elevations: 3348.00 ft (KB)

Total Depth: 4420.00 ft (KB) (TVD)

3343.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8653 Outside

Press@RunDepth: 38.14 psig @ 4387.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.29

End Date:

2014.01.29

Last Calib.:

2014.01.29

Start Time: 12:01:00

End Time:

19:58:30

Time On Btm:

2014.01.29 @ 14:44:30

Time Off Btm:

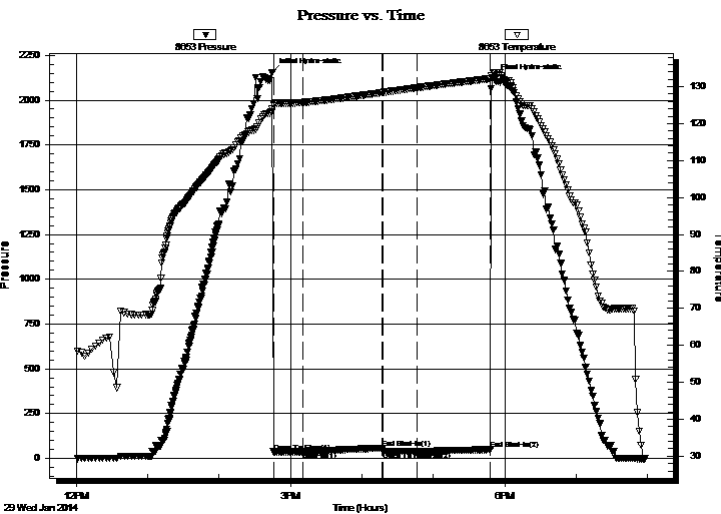
2014.01.29 @ 17:51:00

TEST COMMENT: 30 - IF- Surface Blow built to 1/4".

60 - IS- No Return

30 - FF- No Blow

60 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2154.84	123.92	Initial Hydro-static
1	36.43	125.29	Open To Flow (1)
26	37.33	125.71	Shut-In(1)
93	57.97	128.41	End Shut-In(1)
93	37.39	128.44	Open To Flow (2)
122	38.14	129.69	Shut-In(2)
184	49.27	132.16	End Shut-In(2)
187	2117.80	133.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

Wilkinson Trust #1-16

250 N Water STE #300
Wichita, KS 67202

16-2s-36w Rawlins,KS

Job Ticket: 53382

DST#: 5

ATTN: Robert Hendrix

Test Start: 2014.01.29 @ 12:00:00

Tool Information

Drill Pipe:	Length: 4192.00 ft	Diameter: 3.80 inches	Volume: 58.80 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	64000.00 lb
			<u>Total Volume: 59.71 bbl</u>	Tool Chased	10.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4386.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	34.00 ft				
Tool Length:	62.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: chased tool approx 10' to bottom.
Bled off initial surge from chasing tool.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4359.00	
Shut In Tool	5.00			4364.00	
Hydraulic tool	5.00			4369.00	
Jars	5.00			4374.00	
Safety Joint	3.00			4377.00	
Packer	5.00			4382.00	28.00 Bottom Of Top Packer
Packer	4.00			4386.00	
Stubb	1.00			4387.00	
Recorder	0.00	8653	Outside	4387.00	
Recorder	0.00	8874	Inside	4387.00	
Perforations	28.00			4415.00	
Bullnose	5.00			4420.00	34.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Wilkinson Trust #1-16

250 N Water STE #300
Wichita, KS 67202

16-2s-36w Rawlins,KS

Job Ticket: 53382

DST#: 5

ATTN: Robert Hendrix

Test Start: 2014.01.29 @ 12:00:00

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

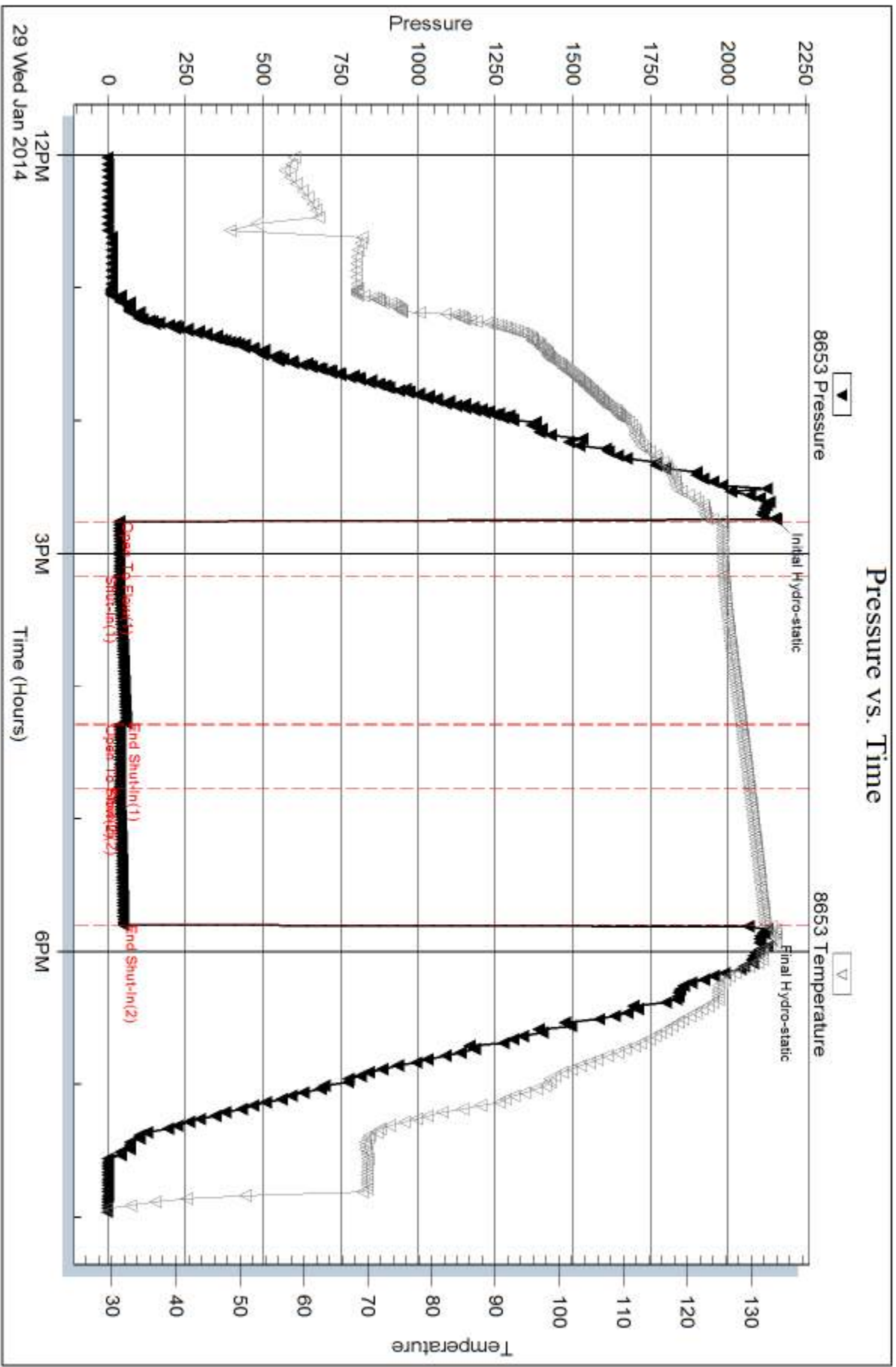
Recovery Comments:

Serial #: 8653

Outside Murfin Drilling Co., Inc.

16-25-36w Rawlins, KS

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 53382

Printed: 2014.02.03 @ 15:16:20

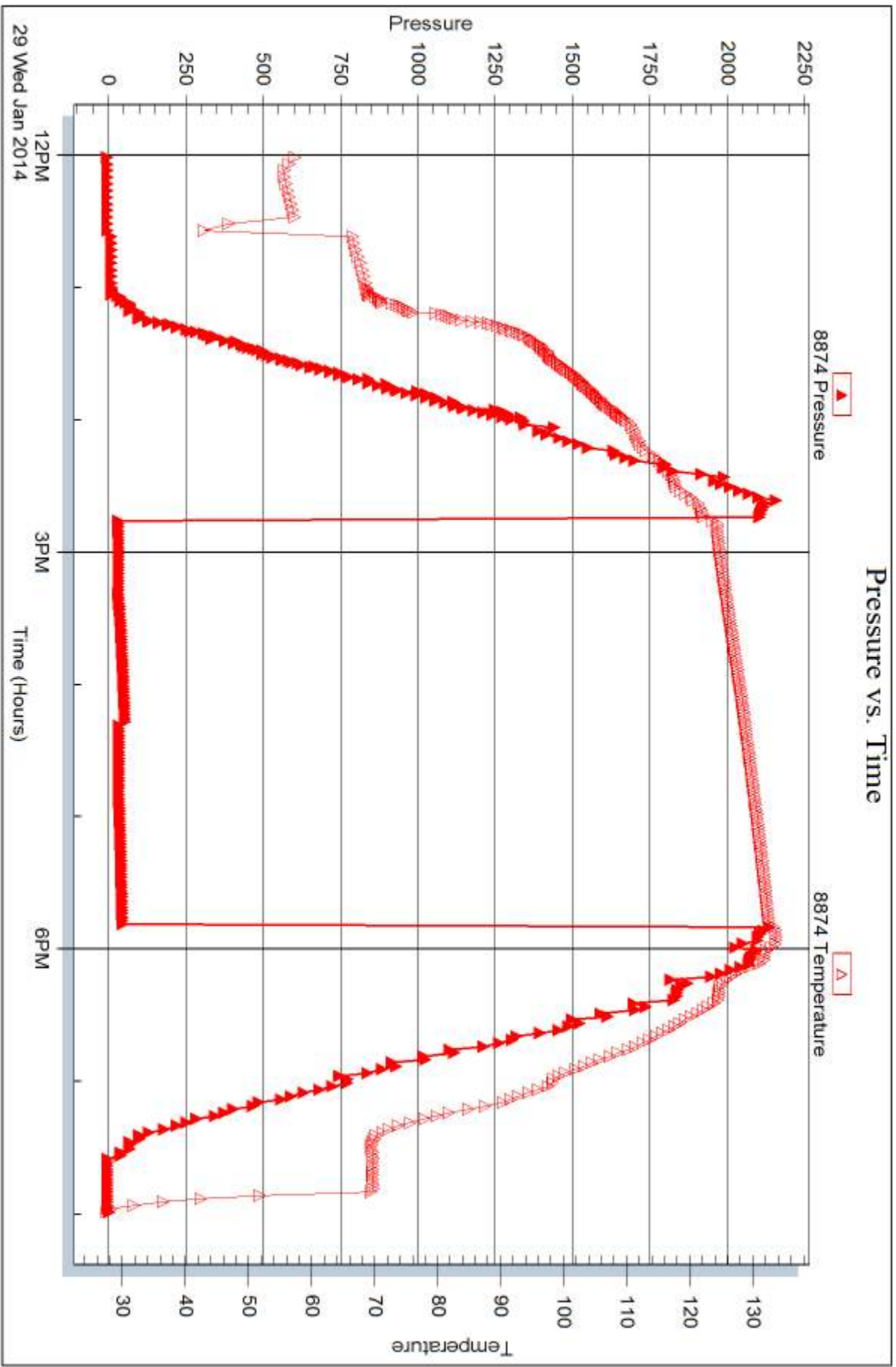
Serial #: 8874

Inside

Murfin Drilling Co., Inc.

16-25-36w Rawlins, KS

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 53382

Printed: 2014.02.03 @ 15:16:20



DRILL STEM TEST REPORT

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

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

16-2s-36w Rawlins,KS

Wilkinson Trust #1-16

Start Date: 2014.01.29 @ 20:55:00

End Date: 2014.01.30 @ 07:08:30

Job Ticket #: 53383 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.02.03 @ 15:15:48

Murfin Drilling Co., Inc.

Wilkinson Trust #1-16

16-2s-36w Rawlins,KS

DST # 6

LKC "H.J."

2014.01.29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Wilkinson Trust #1-16

16-2s-36w Rawlins,KS

Job Ticket: 53383

DST#: 6

Test Start: 2014.01.29 @ 20:55:00

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:19:30

Time Test Ended: 07:08:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4460.00 ft (KB) To 4513.00 ft (KB) (TVD)

Reference Elevations: 3348.00 ft (KB)

Total Depth: 4513.00 ft (KB) (TVD)

3343.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8874

Inside

Press@RunDepth: 60.76 psig @ 4461.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.29

End Date:

2014.01.30

Last Calib.: 2014.01.30

Start Time: 20:56:00

End Time:

07:08:30

Time On Btm: 2014.01.30 @ 00:18:00

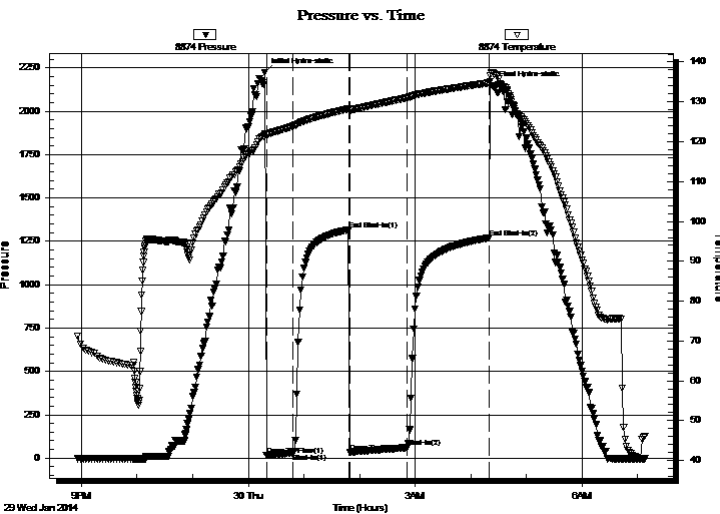
Time Off Btm: 2014.01.30 @ 04:22:30

TEST COMMENT: 30 - IF- 1/4" Blow built to 3"

60 - IS- No Return

60 - FF- Surface Blow built to 4 1/4"

90 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2223.72	121.93	Initial Hydro-static
2	16.36	121.65	Open To Flow (1)
30	30.02	123.88	Shut-In(1)
90	1316.82	128.29	End Shut-In(1)
92	34.62	127.92	Open To Flow (2)
153	60.76	130.97	Shut-In(2)
242	1269.62	134.73	End Shut-In(2)
245	2147.49	137.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
92.00	OSMW 40M 60W (oil spots)	0.45
1.00	Free Oil 100o	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.

Wilkinson Trust #1-16

250 N Water STE #300
Wichita, KS 67202

16-2s-36w Rawlins,KS

Job Ticket: 53383

DST#: 6

ATTN: Robert Hendrix

Test Start: 2014.01.29 @ 20:55:00

Tool Information

Drill Pipe:	Length: 4254.00 ft	Diameter: 3.80 inches	Volume: 59.67 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 60.58 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4460.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 0.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4433.00	
Shut In Tool	5.00			4438.00	
Hydraulic tool	5.00			4443.00	
Jars	5.00			4448.00	
Safety Joint	3.00			4451.00	
Packer	5.00			4456.00	28.00 Bottom Of Top Packer
Packer	4.00			4460.00	
Stubb	1.00			4461.00	
Recorder	0.00	8653	Outside	4461.00	
Recorder	0.00	8874	Inside	4461.00	
Perforations	13.00			4474.00	
Change Over Sub	1.00			4475.00	
Drill Pipe	32.00			4507.00	
Change Over Sub	1.00			4508.00	
Bullnose	5.00			4513.00	53.00 Bottom Packers & Anchor

Total Tool Length: 81.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Wilkinson Trust #1-16

250 N Water STE #300
Wichita, KS 67202

16-2s-36w Rawlins,KS

Job Ticket: 53383

DST#: 6

ATTN: Robert Hendrix

Test Start: 2014.01.29 @ 20:55:00

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:

50000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
92.00	OSMW 40M 60W (oil spots)	0.452
1.00	Free Oil 100o	0.005

Total Length: 93.00 ft Total Volume: 0.457 bbl

Num Fluid Samples: 0

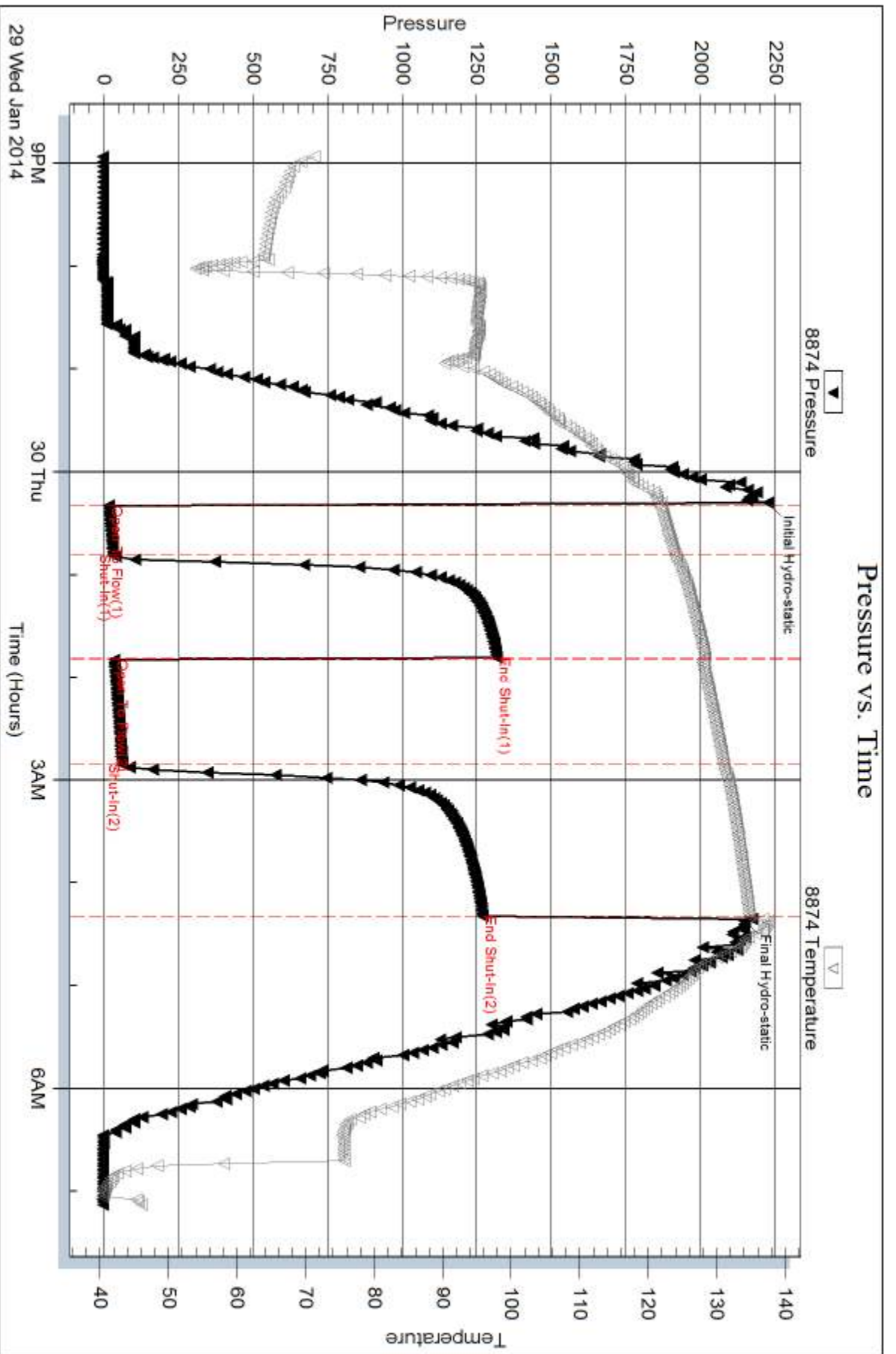
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .18 @ 63 deg = 50,000ppm

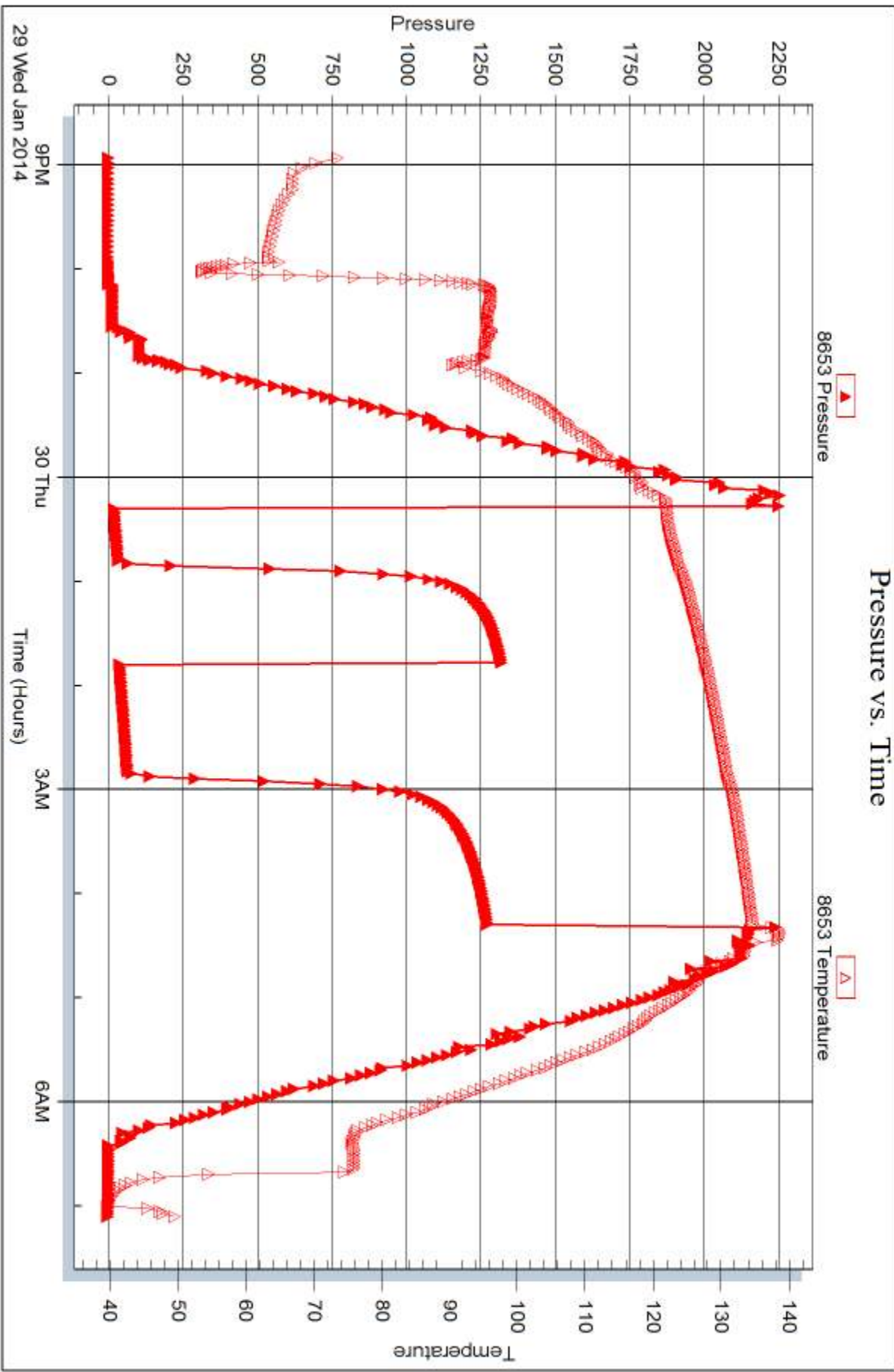


Serial #: 8653

Outside Murfin Drilling Co., Inc.

16-2s-36w Rawlins, KS

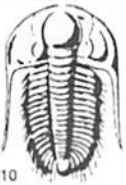
DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 53383

Printed: 2014.02.03 @ 15:15:50



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53378

4/10

Well Name & No. Wilkinson Trust #1-16 Test No. 1 Date 1-25-14
 Company Murphy Drilling Co., Inc Elevation 3348 KB 3343 GL
 Address 250 N Water STE #3000 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murphy #8
 Location: Sec. 16 Twp. 2S Rge. 36W Co. Rawlins State KS

Interval Tested 4003-4070 Zone Tested Statler
 Anchor Length 67' Drill Pipe Run 3814 Mud Wt. 9.2
 Top Packer Depth 3999 Drill Collars Run 186' Vis 88
 Bottom Packer Depth 4003 Wt. Pipe Run 0 WL 6.0
 Total Depth 4070 Chlorides 3,000 ppm System LCM 1#

Blow Description IF - 1/4" Blow built to 1"
ISI - No Return
FF - Surface Blow started at 10 min. Did not build or die.
FSI - No Return

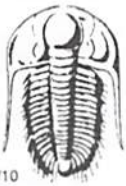
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 127 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>1900</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1:30 PM</u>
(B) First Initial Flow <u>15</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2:55 PM</u>
(C) First Final Flow <u>17</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>5:30 PM</u>
(D) Initial Shut-In <u>971</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>8:30 PM</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:30 PM</u>
(F) Second Final Flow <u>22</u>	<input checked="" type="checkbox"/> Mileage <u>108 RT</u> 167.40	Comments
(G) Final Shut-In <u>855</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1890</u>	<input type="checkbox"/> Straddle	
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1742.40</u>
	Sub Total <u>1742.40</u>	MP/DST Disc't

Approved By _____ Our Representative [Signature]

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. 53379

Well Name & No. Wilkinson Trust #146 Test No. 2 Date 1-26-14
 Company Murfin Drilling Co., Inc. Elevation 3343 KB 3343 GL
 Address 250 N Western STE #300 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #8
 Location: Sec. 16 Twp. 2S Rge. 36W Co. Rawlins State KS

Interval Tested 4158-4215 Zone Tested Creed
 Anchor Length 57' Drill Pipe Run 3969 Mud Wt. 9.1
 Top Packer Depth 4154 Drill Collars Run 186' Vis 55
 Bottom Packer Depth 4158 Wt. Pipe Run 0 WL 6.0
 Total Depth 4215 Chlorides 1,400 ppm System LCM 2#

Blow Description IF - BoB in 8 min
ISI - No Return
FF - BoB in 12 min
FSI - No Return

Rec	Feet of	%gas	SPOTS	%oil	%water	%mud
<u>30</u>	<u>OSUM</u>			<u>40</u>	<u>60</u>	
<u>320</u>	<u>WM</u>			<u>50</u>	<u>50</u>	
<u>128</u>	<u>MW</u>			<u>80</u>	<u>20</u>	
<u>501</u>	<u>MW</u>			<u>95</u>	<u>5</u>	
<u>5</u>	<u>Mud (heavy)</u>				<u>100</u>	

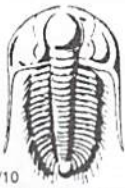
Rec Total 984 BHT 146 Gravity - API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic 2007 Test 1250 T-On Location 11:30 AM
 (B) First Initial Flow 33 Jars 250 T-Started 12:05 PM
 (C) First Final Flow 228 Safety Joint 75 T-Open 2:37 PM
 (D) Initial Shut-In 1222 Circ Sub NIL T-Pulled 6:37 PM
 (E) Second Initial Flow 229 Hourly Standby T-Out 9:25 PM
 (F) Second Final Flow 462 Mileage 108 RT 167.40 Comments _____
 (G) Final Shut-In 1219 Sampler _____
 (H) Final Hydrostatic 1990 Straddle _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1742.40

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1742.40
 Total 1742.40
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53380

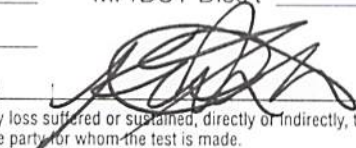
Well Name & No. Wilkinson Trust #1-16 Test No. 3 Date 1-27-14
 Company Murkin Drilling Co., Inc Elevation 3348 KB 3343 GL
 Address 250 N Wacker STE # 3000 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murkin #8
 Location: Sec. 16 Twp. 2S Rge. 36 W Co. Rawlins State KS

Interval Tested 4234 - 4315 Zone Tested LKC "A"
 Anchor Length 81' Drill Pipe Run 4030 Mud Wt. 9.1
 Top Packer Depth 4230 Drill Collars Run 186 Vis 55
 Bottom Packer Depth 4234 Wt. Pipe Run Ø WL 6.0
 Total Depth 4315 Chlorides 1,400 ppm System LCM 2#

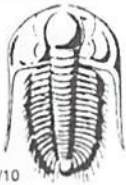
Blow Description IF - Surface Blow built to 1/4" then died back to Surface Blow.
IST - NO Return
FF - NO Blow
FST - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>05m</u>	<u>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 10 BHT 132 Gravity - API RW - @ - ° F Chlorides - ppm
 (A) Initial Hydrostatic 2092 Test 1250 T-On Location 9:40 AM
 (B) First Initial Flow 19 Jars 250 T-Started 9:48 AM
 (C) First Final Flow 22 Safety Joint 75 T-Open 12:35 PM
 (D) Initial Shut-In 511 Circ Sub NIC T-Pulled 3:35 PM
 (E) Second Initial Flow 23 Hourly Standby _____ T-Out 5:50 PM
 (F) Second Final Flow 24 Mileage 108 RT 167.40 Comments Chased tool
 (G) Final Shut-In 312 Sampler _____ approx 5' to bottom.
 (H) Final Hydrostatic 2046 Straddle _____ Bled off initial surge.
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1742.40
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1742.40

Approved By _____ Our Representative 

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53381

Well Name & No. Wilkinson Trust #1-16 Test No. 4 Date 1-28-14
 Company Murfin Drilling Co, Inc Elevation 3348 KB 3343 GL
 Address 250 N Water STE #3000 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #8
 Location: Sec. 16 Twp. 2S Rge. 36 W Co. Rawlins State KS

Interval Tested 4318-4375 Zone Tested LKC "D"
 Anchor Length 57' Drill Pipe Run _____ Mud Wt. 9.3
 Top Packer Depth 4314 Drill Collars Run 186 Vis 52
 Bottom Packer Depth 4318 Wt. Pipe Run 0 WL 6.4
 Total Depth 4375 Chlorides 1,700 ppm System LCM 2#
 Blow Description IF - BoB in 11 min.
ISF - Surface Return Built to 3/4"
FF - BoB in 22 min.
FSI.

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>Free Oil</u>	<u>100</u>			
<u>125</u>	<u>OCM</u>	<u>40</u>		<u>60</u>	
<u>64</u>	<u>OCWM</u>	<u>10</u>	<u>30</u>	<u>60</u>	
<u>125</u>	<u>OCWM</u>	<u>10</u>	<u>40</u>	<u>50</u>	
<u>186</u>	<u>OCMW</u>	<u>5</u>	<u>75</u>	<u>20</u>	

Rec Total 540 BHT 145 Gravity 26 API RW .2 @ 68 ° F Chlorides 39,000 ppm

(A) Initial Hydrostatic 2118 Test 1250 T-On Location 3:20 AM
 (B) First Initial Flow 20 Jars 250 T-Started 4:58 AM
 (C) First Final Flow 137 Safety Joint 75 T-Open 7:10 AM
 (D) Initial Shut-In 1234 Circ Sub NIC T-Pulled 11:10 AM
 (E) Second Initial Flow 146 Hourly Standby _____ T-Out 1:42 PM
 (F) Second Final Flow 254 Mileage 108 RT 167.40
 (G) Final Shut-In 1226 Sampler _____
 (H) Final Hydrostatic 2089 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1742.40

Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1742.40
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53382

Well Name & No. Wilkinson Trust #1-16 Test No. 5 Date 1-28-14
 Company Murrin Drilling Co., Inc. Elevation 3348 KB 3343 GL
 Address 2508 N Water STE #3000 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murrin #8
 Location: Sec. 16 Twp. 2S Rge. 36W Co. Rawlins State KS

Interval Tested 4386-4420 Zone Tested LKC "6"
 Anchor Length 34' Drill Pipe Run 4192' Mud Wt. 9.3
 Top Packer Depth 4382 Drill Collars Run 186' Vis 46
 Bottom Packer Depth 4386 Wt. Pipe Run 0 WL 6.4
 Total Depth 4420 Chlorides 2,400 ppm System LCM 2#

Blow Description IF - Surface Blow built to 1/4"
ISI - no Return
FF - no Blow
PSI - no Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</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 Total 10 BHT 132 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic Test 1250 T-On Location 11:25 PM
 (B) First Initial Flow Jars 250 T-Started 12:00 AM
 (C) First Final Flow Safety Joint 75 T-Open 2:50 AM
 (D) Initial Shut-In Circ Sub N/C T-Pulled 5:50 AM
 (E) Second Initial Flow Hourly Standby T-Out 8:05 AM
 (F) Second Final Flow Mileage 108 RT 167.40
 (G) Final Shut-In Sampler
 (H) Final Hydrostatic Straddle

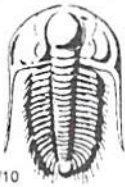
Comments Chased test approx 10' to Bottom Bled off initial "mud" surge

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

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1742.40
 MP/DST Disc't
 Sub Total 1742.40

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53383

Well Name & No. Wilkinson Trust #1-16 Test No. 6 Date 1-29-14
 Company Murrin Drilling Co., Inc. Elevation 3348 KB 3343 GL
 Address 250 N Water STE #3000 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murrin #8
 Location: Sec. 16 Twp. 2S Rge. 36 W Co. Rawlins State KS

Interval Tested 4460 - 4513 Zone Tested LKC "H, I, J"
 Anchor Length 53' Drill Pipe Run 4254' Mud Wt. 9.1
 Top Packer Depth 4456 Drill Collars Run 186' Vis 45
 Bottom Packer Depth 4460 Wt. Pipe Run Ø WL 6.4
 Total Depth 4513 Chlorides 1,600 ppm System LCM 3#

Blow Description IF - 1/4" Blow built to 3"
ISI - NO Return
FF - Surface Blow built to 4 1/4"
FBI - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free Oil</u>	<u>100</u>			
<u>92</u>	<u>OS MW</u>	<u>SPOTS</u>	<u>60</u>	<u>40</u>	

Rec Total 93' BHT 135 Gravity - API RW .18 @ 63 °F Chlorides 50,000 ppm

(A) Initial Hydrostatic <u>2223</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>8:25 PM</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>8:55 PM</u>
(C) First Final Flow <u>30</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:20 AM</u>
(D) Initial Shut-In <u>1316</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>4:20 AM</u>
(E) Second Initial Flow <u>34</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>7:10 AM</u>
(F) Second Final Flow <u>60</u>	<input checked="" type="checkbox"/> Mileage <u>108 RT</u> 334.80	Comments <u>Loaded tools</u>
(G) Final Shut-In <u>1269</u>	<input type="checkbox"/> Sampler	<u>@ 5:30 PM 1-31-14</u>
(H) Final Hydrostatic <u>2147</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>800</u>
	<input type="checkbox"/> Day Standby <u>1d 10.25h</u>	Total <u>2709.80</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1909.80</u>	

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

Approved By _____ Our Representative [Signature]

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Robert D. Hendrix

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY: **Murkin Drilling Co., Inc.**

LEASE: **Wilkinson Trust #1-16**

FIELD: **Widewater**

LOCATION: **1320Tnl & 890Tnl**

SFC: **16-TWSP 2-ROE 36**

COUNTRY: **Rawlins** STATE: **Kansas**

CONTRACTOR: **Murkin Drilling Co., Inc. Rig #2**

SPUD: **1/21/2014** COMP: **2/12/2014**

R/D: **5072'** LIT.D: **5072'**

MUD UP: **3487'** TYPE MUD: **Chemical**

SAMPLES SAVED FROM: **3640' TO TD**

DRILLING TIME KEPT FROM: **3640' TO TD**

SAMPLES EXAMINED FROM: **3640' TO TD**

ELEVATIONS: **KB 3348'**

DF: **GL 3343'**

Measurements are All From **Kelly Bushing**

CASING

CONDUCTION SURFACE: **8.53" @ 350'**

PRODUCTION: **5.11" @ 307'**

GEOLOGICAL SUPERVISION FROM: **3402'**

GEOLOGIST ON WELL: **Robert D. Hendrix**

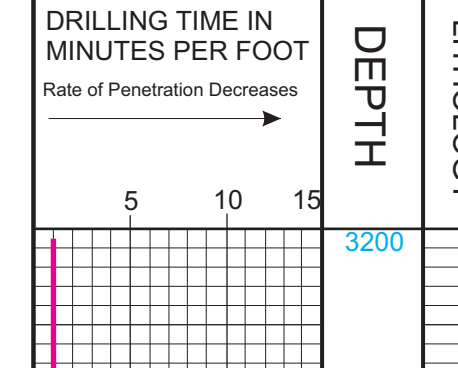
Drawn by: **Robert D. Hendrix**

Checked by: **Robert D. Hendrix**

Checked by: **Robert D. Hendrix**

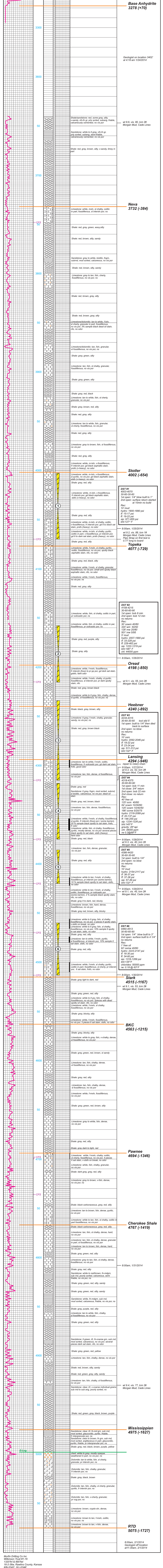
FORMATION TOPS

FORMATION	ELECTRIC LOG	SAMPLE
Anhydrite	3342' (+106)	3289' (+109)
Neva	3734' (-386)	3732' (-384)
Topeka	4071' (-728)	4077' (-728)
Heebner	4242' (-894)	4240' (-892)
Lansing	4289' (-945)	4284' (-946)
Stark	4516' (-1188)	4515' (-1187)
Mississippian	4721' (-1419)	4725' (-1419)
Cherokee Shale	4897' (-1648)	4897' (-1648)



REMARKS:

DEPTH	LITHOLOGY	SAMPLE DESCRIPTION	REMARKS
3200	Anhydrite		Anhydrite 3239 (+109)
50			Base Anhydrite 3278 (+70)
3600			Geologist on location 3402' at 4:18 am 1/24/2014
50	Shale/sandstone: red, some gray, silty, v-sandy, vfn-fn gr, prly sorted, subang, friable, calcareously cemented, no vis por		wt 8.6, vis, 80, lcm 2# Morgan Mud, Cade Lines
3700	Sandstone: white to lt gray, vfn-fn gr, prly sorted, subang, semi-friable, calcareously cemented, no vis por		
3800	Shale: red, gray, brown, silty, v-sandy, limy in part		
3900	Limestone: white, mxn, sl chalky, oolitic in part, fossiliferous, sl interxn por, ns		Neva 3732 (-384)
50	Shale: red, gray, green, waxy, silty		
50	Shale: red, brown, silty, sandy		
50	Sandstone: gray to white, biotitic, fngm, submd, mod sorted, calcareous, no vis por		
50	Shale: red, brown, silty, sandy		
50	Limestone: gray to tan, fxn, cherty, fossiliferous, no vis por, ns		
50	Shale: red, brown, gray, silty		
50	Shale: red, brown, gray, silty		
50	Limestone: dolomitic: tan to white, f-mxn, sl cherty, granular in part, fossiliferous, no vis por, black dead oil stain, nfo, no odor		
50	Limestone: dolomitic: tan, fxn, granular, sl fossiliferous, no vis por, ns		
50	Shale: gray, green, silty		
50	Limestone: tan, fxn, sl chalky, granular, fossiliferous, no vis por		
50	Shale: gray, green, silty		
50	Shale: gray, red, black		
50	Limestone: tan to white, fxn, sl cherty, granular, no vis por		
50	Shale: gray, brown, red, silty		
50	Shale: red, gray, silty		
50	Limestone: tan to white, fxn, granular, sl cherty, fossiliferous, no vis por		
50	Shale: red, gray, silty		
50	Limestone: white, m-ixn, v-fossiliferous, fr interxn por, gd black asphaltic stain, frfo (v-heavy), no odor		Stotler 4002 (-654)
50	Limestone: white, m-ixn, v-fossiliferous, sl pyritic, no vis por, gd black asphaltic stain, slfo (v-heavy), no odor		DST #1 4003-4070 30-60-60-90 1st open: 1/4" blow built to 1" 2nd open: surface return started at 10min no build Rec: 10' mud hydro: 1900-1890 psi ff: 15-17 psi fr: 19-22 psi sip: 971-855 psi bht: 127° F
50	Shale: gray, red, silty		
50	Limestone: white, m-ixn, v-fossiliferous, fr interxn por, gd black asphaltic stain, frfo (v-heavy), no odor		DST #2 4003-4070 30-60-60-90 1st open: 1/4" blow built to 1" 2nd open: surface return started at 10min no build Rec: 10' mud hydro: 1900-1890 psi ff: 15-17 psi fr: 19-22 psi sip: 971-855 psi bht: 127° F
50	Shale: gray, red, silty		
50	Limestone: white, m-ixn, v-fossiliferous, fr interxn por, gd lt to black sat stain, frfo (heavy), no odor		DST #3 4003-4070 30-60-60-90 1st open: 1/4" blow built to 1" 2nd open: surface return started at 10min no build Rec: 10' mud hydro: 2092-2046 psi ff: 19-22 psi fr: 22-24 psi sip: 971-855 psi bht: 127° F
50	Shale: gray, red, silty		
50	Limestone: white, f-mxn, sl chalky, pyritic, oolitic, fossiliferous, no vis por, spotty black asphaltic stain, nfo, no odor		Topeka 4077 (-729)
50	Shale: gray, red, black, silty		
50	Limestone: white, f-mxn, sl chalky, granular, fossiliferous, no vis por, small amt spotty black asphaltic stain, nfo, no odor		DST #2 4158-4215 30-60-60-90 1st open: bob 8 min 2nd open: bob 12 min no returns Rec: 30' osmw 40/60 320' mw 50/50 128' mw 20/60 501' mw 5/95 5' mud hydro: 2007-1990 psi ff: 33-28 psi fr: 229-462 psi sip: 1222-1219 psi bht: 146° F chl: 44000 ppm
50	Shale: gray, red, purple, silty		
50	Shale: gray, silty		
50	Limestone: white, f-mxn, fossiliferous, no vis por, ns		Oread 4198 (-850)
50	Limestone: white, f-mxn, fossiliferous, fr interxn (foss) to pr pp por, gd dark sat stain, gsfo, faint odor		
50	Limestone: white, f-mxn, chalky, sl pyritic, fossiliferous, fr interxn por, pr dark spotty stain, nfo		
50	Shale: red, gray, brown, blk		
50	Limestone: white to lt gray, fxn, chalky, dense, sl pyritic, sl fossiliferous, no vis por, ns		Heebner 4240 (-892)
50	Shale: black, gray, brown, silty		
50	Limestone: lt gray, f-mxn, chalky, granular, sandy, no vis por, ns		DST #3 4234-4315 30-60-30-60 tool slid 5' 1st open: built to 1/4" then died back to surface 2nd open: no blow no returns Rec: 10' osm hydro: 2092-2046 psi ff: 19-22 psi fr: 22-24 psi sip: 511-312 psi bht: 132° F
50	Shale: red, gray, brown, black		
50	Limestone: tan to white, f-mxn, oolitic, fossiliferous, fr oolitic por, gd dark sat stain, frfo, faint odor		Lansing 4294 (-946)
50	Limestone: tan, fxn, dense, fossiliferous, no vis por		DST #4 4318-4375 30-60-60-90 1st open: bob 11 min 2nd open: bob 22 min 2nd close: no return Rec: 40' free oil 125' ocm 40/60 64' ocm 10/30/60 125' ocm 10/40/90 186' ocm 5/20/75 hydro: 2118-2089 psi ff: 20-137 psi fr: 146-254 psi sip: 1234-1226 psi bht: 145° F gravelly: 26° api chl: 39000 ppm nw: 0.2 @ 68° F
50	Shale: gray, red		
50	Sandstone: lt gray, fngm, mod sorted, submd, sl biotitic, calcareous, no vis por, dead oil stain		
50	Shale: gray, red, brown, black		
50	Limestone: tan, fxn, dense, fossiliferous, no vis por		
50	Limestone: white, f-mxn, sl chalky, fossiliferous, no vis por, 2 pieces lt spotty stain, frfo		
50	Limestone: white, f-mxn, sl chalky, fossiliferous, no vis por, 10% sample lt spotty to sat stain, slfo, no odor		
50	Limestone: white, f-mxn, sl chalky, fossiliferous, pyritic, mostly dense, no vis por several pieces black spotty to sat stain, slfo (heavy), faint odor		
50	Shale: gray, red, black		
50	Limestone: tan, fxn, dense, granular, no vis por, ns		
50	Shale: gray, red, silty		
50	Limestone: white to tan, f-mxn, sl chalky, oolitic, fossiliferous, pr oolitic por (some barren), 10% sample black spotty to sat stain, slfo, no odor		DST #5 4386-4420 30-60-30-60 1st open: built to 1/4" 2nd open: no blow no returns Rec: 10' mud hydro: 2154-2117 psi ff: 36-37 psi fr: 37-38 psi sip: 57-49 psi bht: 132° F
50	Limestone: white to tan, f-mxn, sl chalky, oolitic, fossiliferous, pr oolitic por (some barren), 2% sample black spotty stain, rfo, no odor		
50	Shale: gray, red, brown, silty, blocky		
50	Limestone: white to lt gray, fxn, sl chalky, fossiliferous, no vis por, 2 pieces lt spotty stain, v-stfo on break, no odor		
50	Limestone: white to lt gray, fxn, sl chalky, fossiliferous, no vis por, 10% sample lt spotty to sat stain, slfo, no odor		
50	Shale: gray, red, silty		
50	Limestone: tan to white, f-mxn, pyritic, sl fossiliferous, sl interxn por, 10% sample lt sat stain, slfo, no odor		
50	Shale: gray, red, silty		
50	Limestone: white, f-mxn, sl chalky, pyritic, oolitic in part, fossiliferous, sl cherty, pr interxn por, lt sat stain, frfo, no odor		
50	Shale: gray, light to dark, red		
50	Shale: white to lt gray, fxn, sl chalky, fossiliferous, no vis por, 3 pieces lt sat stain, slfo, no odor		Stark 4515 (-1167)
50	Limestone: gray to tan, fxn, sl chalky, dense, fossiliferous, no vis por		
50	Shale: gray, red, silty		
50	Shale: gray, green, red, brown, sl sandy		
50	Limestone: white to gray, fxn, v-chalky, dense, sl fossiliferous, no vis por		
50	Shale: gray, green, red, brown, sl sandy		
50	Limestone: tan, fxn, chalky, dense, sl fossiliferous, no vis por		
50	Shale: gray, red, silty		
50	Limestone: tan, fxn, chalky, dense, sl fossiliferous, no vis por		
50	Shale: gray, green, red, brown, silty		
50	Limestone: gray to tan, fxn, dense, no vis por		
50	Shale: gray, red, silty		
50	Shale: gray dark to light, red		
50	Limestone: white, f-mxn, chalky, oolitic, sl cherty, fossiliferous, no vis por, 4 pieces lt sat stain, v-stfo on break, no odor		Pawnee 4694 (-1346)
50	Limestone: white, f-mxn, chalky, granular, fr interxn por, ns		
50	Shale: dark gray, gray, red, silty		
50	Limestone: gray to brown, v-fxn, dense, no vis por, ns		
50	Shale: black carbonaceous, gray, red, silty		
50	Limestone: tan to brown, fxn, dense, pyritic, no vis por		
50	Limestone: white to tan, fxn, sl chalky, oolitic in part, fossiliferous, no vis por		
50	Shale: black carbonaceous, gray, red, silty		
50	Limestone: tan, fxn, sl chalky, dense, hard, no vis por		
50	Limestone: tan, fxn, sl chalky, dense, granular in part, sl fossiliferous, no vis por		
50	Limestone: tan to brown, fxn, dense, hard, no vis por		
50	Shale: gray, green, red, silty		
50	Limestone: gray to tan, fxn, sl chalky, dense, fossiliferous, no vis por		
50	Shale: gray, red, silty		
50	Sandstone: white to red/brown, fr-mdgm, sub md, mod sorted, calcareous, friable, no vis por, ns		
50	Shale: gray, purple, red, silty		
50	Limestone: tan to white, fxn, chalky, sl fossiliferous, no vis por		
50	Shale: gray, green, red, silty		
50	Sandstone: lt green, lt, fr-coarse gm, sub md, mod sorted, calcareous, friable, no vis por, several pieces dark sat stain, nfo, no odor		
50	Shale: gray, green, red, yellow		
50	Limestone: tan, fxn, chalky, dense, no vis por		
50	Shale: red, brown, silty, sandy		
50	Shale: red, green, gray, silty, sandy		
50	Limestone: tan, fxn, chalky, dense, fossiliferous, no vis por		
50	Shale: red, green, gray, black, brown, purple		
50	Sandstone: clear, lt, v-coarse individual grains sub md to sub ang, poorly sorted, ns		
50	Shale: red, green, gray, black, brown, purple		
50	Sandstone: clear, lt, fr-md gm, sub md, fr intergranular por, ns		
50	Sandstone: clear to brown, fr, gm, sub md, mod sorted, argillaceous in part, glauconitic, pyritic, friable, fr intergranular por, ns		
50	Shale: gray, red, black, brown, purple, yellow		
5000	Chart: white to gray, mostly opaque, weathered in part, no vis por, ns		
50	Dolomite: tan to white, fxn, sl cherty, granular, pr interxn por, ns		
50	Dolomite: tan, fxn, chalky, granular, fr interxn por, ns		
50	Shale: gray, black, brown		
50	Dolomite: tan, fxn, chalky, sl cherty, granular, pyritic, fr interxn por, ns		
50	Dolomite: tan, fxn, v-cherty, granular, pr vlg por, ns		
50	Limestone: brown, crypto-ixn, dense, no vis por		
50	Limestone: brown to tan, f-mxn, oolitic, no vis por, ns		
50	Limestone: brown to tan, v-fxn, dense, no vis por		RTD 5075 (-1727)





INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 141028

Invoice Date: Jan 21, 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	62537	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jan 21, 2014	2/20/14

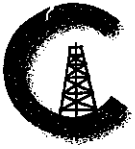
Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Wilkinson Trust 1-16, Section 16, Township 2S, Range 36W		
350.00	CEMENT MATERIALS	Class A Common	17.90	6,265.00
12.00	CEMENT MATERIALS	Chloride	64.00	768.00
367.50	CEMENT SERVICE	Cubic Feet Charge	2.48	911.40
1,270.50	CEMENT SERVICE	Ton Mileage Charge	2.60	3,303.30
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
75.00	CEMENT SERVICE	Pump Truck Mileage	7.70	577.50
1.00	CEMENT SERVICE	Manifold Rental	275.00	275.00
75.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	330.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	CEMENT SUPERVISOR	Andrew Forslund		

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

\$ 4,879.85

ONLY IF PAID ON OR BEFORE
Feb 15, 2014

Subtotal	13,942.45
Sales Tax	555.61
Total Invoice Amount	14,498.06
Payment/Credit Applied	14,498.06
TOTAL	0.00



CONSOLIDATED
Oil Well Services, LLC

Accty -

cc: WF

cc: Liz

cc: Lrl

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE

Invoice # 265872

Invoice Date: 02/11/2014 Terms: 10/10/30,n/30

Page 1

MURFIN DRILLING
P.O. BOX 288
RUSSELL KS 67665
() -

WILKINSON TRUST 1-16
44419
16-2S-36W
02-01-2014
KS

USED FOR IC 103

APPROVED JT
FH R

Part Number	Description	Qty	Unit Price	Total
1104D	CLASS "A" CEMENT CMD	300.00	27.9200	8376.00
1107	FLO-SEAL (25#)	150.00	2.9700	445.50
1110A	KOL SEAL (50# BAG)	1000.00	.5600	560.00
1126	OIL WELL CEMENT	200.00	23.7000	4740.00
1142A	KCL SUB MB6875 CC3107 (1	2.00	41.1000	82.20
1144G	MUD FLUSH (SALE)	500.00	1.0000	500.00
4104	CEMENT BASKET 5 1/2"	3.00	290.0000	870.00
4136	TURBOLIZER 5 1/2"	12.00	75.7500	909.00
4159	FLOAT SHOE AFU 5 1/2"	1.00	433.7500	433.75
4310	5 1/2" ROTATOR	1.00	200.0000	200.00
4315	ROTATING SCRATCHERS	15.00	94.5000	1417.50
4454	5 1/2" LATCH DOWN PLUG	1.00	318.2500	318.25

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-1885.22
9995-130	CEMENT EQUIPMENT DISCOUNT	-711.73

Description	Hours	Unit Price	Total
456 SINGLE PUMP	1.00	3175.00	3175.00
456 EQUIPMENT MILEAGE (ONE WAY)	85.00	5.25	446.25
528 TON MILEAGE DELIVERY	1.00	3496.05	3496.05

Amount Due 27458.81 if paid after 03/13/2014

Parts:	18852.20	Freight:	.00	Tax:	1340.38	AR	24712.93
Labor:	.00	Misc:	.00	Total:	24712.93		
Sublt:	-2596.95	Supplies:	.00	Change:	.00		

Signed _____

Date _____



CONSOLIDATED
Oil Well Services, LLC

265872

TICKET NUMBER 44419
LOCATION Oakley, KS
FOREMAN Darren Miles
Tuesday

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY												
2-1-14	5406	Wilkinson Trust 1-16	16	25	36W	Franklin												
CUSTOMER Murgin Bldg			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>456</td> <td>Jordan H</td> <td></td> <td></td> </tr> <tr> <td>528</td> <td>Cody R</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	456	Jordan H			528	Cody R		
TRUCK #	DRIVER	TRUCK #					DRIVER											
456	Jordan H																	
528	Cody R																	
MAILING ADDRESS																		
CITY		STATE	ZIP CODE															

JOB TYPE Production HOLE SIZE 7 7/8 HOLE DEPTH 5075' CASING SIZE & WEIGHT 5 1/2 15.5 #
 CASING DEPTH 5070⁸³ DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 10.8-14.2 SLURRY VOL 2.9-1.42 WATER gal/sk _____ CEMENT LEFT in CASING 2230
 DISPLACEMENT 120² DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting, no mud in #8. Run float equip - Turbolizers 1-5-7-8-10
11-12-14-16-20-43-71, Baskets 21, 44, 72, Scratchers Son #1, 3on #9, 2on #15
1on #16 & #17, 3on #18. Circulate 1 1/2 hr 1 1/2 way in hole Run pipe to bottom
Circulate 1 hr. Pump 5 BBL water soeal mud flush, 5 BBL water R. Mix
250 sks CMD w/ 1/2 # Seal Tail with 200 sks OWC w/ 5 # Kolsal.
Wash pump and lines. Drop plug and displace 121 BBLs @ 200 # ft
Land plug @ 1700'. Flouthead cement did circulate approx 25 BBLs to
pit.

MIX 20sk MN - 30sk RH Thanks Miles crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3175 ⁰⁰	3175 ⁰⁰
5406	85	MILEAGE	5 ²³	446 ²³
5407A	23.5	Top Mileage Delivery	1 ⁷⁵	3496 ⁰⁵
1104D	300sk	CMD	27 ⁹²	8376 ⁰⁰
1107	150*	Sl-o-seal	2 ⁹⁷	445 ⁵⁰
1110A	1000*	Kolsal	.56	560 ⁰⁰
1126	200sk	OWC	23 ⁷⁰	4740 ⁰⁰
1142A	2gal	KCL	41 ¹⁰	82 ²⁰
11446	500gal	mod flush	1 ⁰⁰	500 ⁰⁰
4104	3	5 1/2 - Baskets	290 ⁰⁰	870 ⁰⁰
4136	12	5 1/2 - Turbolizers	75 ²⁵	909 ⁰⁰
4159	1	5 1/2 - AFU Flatchoe (w)	433 ⁷⁵	433 ⁷⁵
4310	1	5 1/2 - rotator	200 ⁰⁰	200 ⁰⁰
4315	15	5' rotating scratchers	94 ⁵⁰	1417 ⁵⁰
4454	1	5 1/2 - take down Assy	318 ²⁵	318 ²⁵
		Subtotal		25969 ⁵⁰
		less 1090		2596 ⁹⁵
		Subtotal		23372 ⁸⁵
		7.9	SALES TAX	1340 ³⁸
			ESTIMATED TOTAL	24712 ⁹³

completed

RAVIN 3737
 AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Wilkinson Trust #1-16
 Daily Drilling Report
 Page Two

- 1/29/14 Depth 4420'. Cut 45'. DT: None. CT: 21½ hrs. Dev.: None. **LKC G**: lst, tan to white f-mxln al chalky, foss, pr interxln por, 10.% sample black spotty to sat stain, slsfo, no odor. **DST #5 4386-4420' (LKC G)**: 30-60-30-60. IF: Surf blw built to ¼". FF: no blw. Rec.: 10' M. HP: 2155-2118. FP: 36/37, 37/38. SIP: 58-49. BHT: 132°
- 1/30/14 Depth 4513'. Cut 93'. DT: None. CT: 18¾ hrs. Dev.: None. **LKC H**: Ls white to lt gray, fxln, sl chalky, foss, no vis por, 2 pieces lt spotty stain, v-slsfo on break, no odor. **LKC I**: Ls tan to white, f-mxln, pyritic, sl foss, sl interxln por, 10% sample, lt sat stain, slsfo, no odor. **LKC J**: Ls white f-mxln, sl chalky, pyritic, sl cherty, oolitic in part, foss, pr interxln por, lt sat stain, frsfo, no odor. **DST #6 4460-4512 (LKC H,I,J)**: 30-60-60-90. IF: ¼" blw built to 3". FF: surf blw built to 4¼". Rec.: 92'OSMW (40%M, 60%W(oil spts)), 1'FO. HP: 2224-2147. FP: 16/30, 35/61. SIP: 1317-1270. BHT: 135°.
- 1/31/14 Depth 4796'. Cut 283'. DT: None. CT: 9½ hrs. Dev.: None.
- 2/1/14 RTD: 5075'. Cut 279'. DT: None. CT: 11¼ hrs. Dev.: ¾° @ 5075'. TD @ 8:00PM. Pioneer started logging @ 4:30AM 2/1. LTD: 5074'.
- 2/2/14 RTD: 5075'. CT: 23¼ hrs. Pioneer finished logging @ 10:30AM 2/1. Ran 121 jts of 15.5# 5½" prod csg, set @ 5070'. C.O.W.S. cmt w/ 200sxs OMC, 250sxs CMD. PD @ 2:15AM 2/2. 30sxs RH, 20sxs MH. RR @ 6:15AM 2/2/14. FINAL REPORT

MDCI Wilkinson Trust #1-16 1320' FNL 890'FWL Sec. 16-2S-36W 3348' KB							MDCI Kacirek #1-21 1800' FNL 2310'FEL Sec. 21-2S-36W 3355' KB		
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum	
Anhydrite	3245	+103	-5	3243	+105	-3	3247	+108	
B/Anhydrite	3279	+69	Flat	3278	+70	+1	3286	+69	
Neva	3732	-384	+11	3734	-386	+9	3750	-395	
Topeka	4077	-729	+12	4072	-724	+17	4096	-741	
Heebner	4240	-892	+9	4242	-894	+7	4256	-901	
Lansing	4292	-946	+9	4293	-947	+8	4310	-955	
Stark	4515	-1167	+12	4516	-1168	+11	4534	-1179	
BKC	4563	-1215	+19	4566	-1218	+16	4589	-1234	
Pawnee	4694	-1346	+13	4694	-1346	+13	4714	-1359	
Cherokee	4767	-1419	+13	4771	-1423	+9	4787	-1432	
Mississippi	4975	-1627	+13	4998	-1650	-10	4995	-1640	
RTD	5075						5100	-1745	
LTD				5079			5105	-1750	