



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

Murfin Drilling Co., Inc.

Wilkinson Trust #1-16

16-2s-36w Rawlins,KS

DST # 1

Stotler

2014.01.25



**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)

Reference Elevations: 3348.00 ft (KB)

Total Depth: 4070.00 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: 22.31 psig @ 4004.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.25 End Date: 2014.01.25

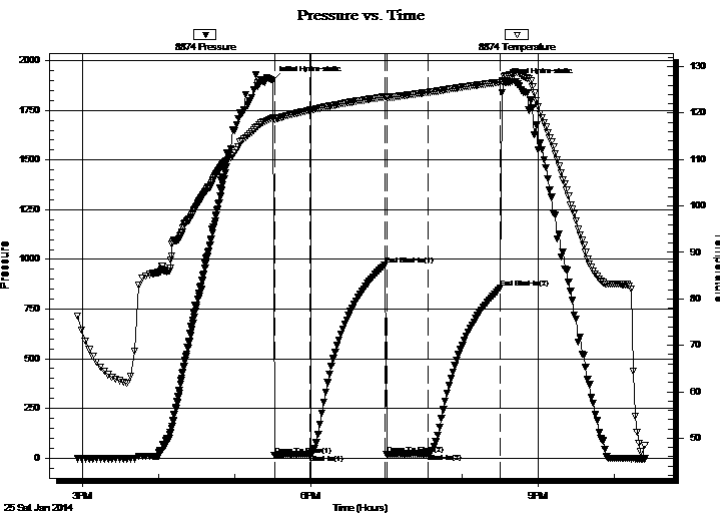
Last Calib.: 2014.01.25

Start Time: 14:56:00 End Time: 22:24:30

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

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

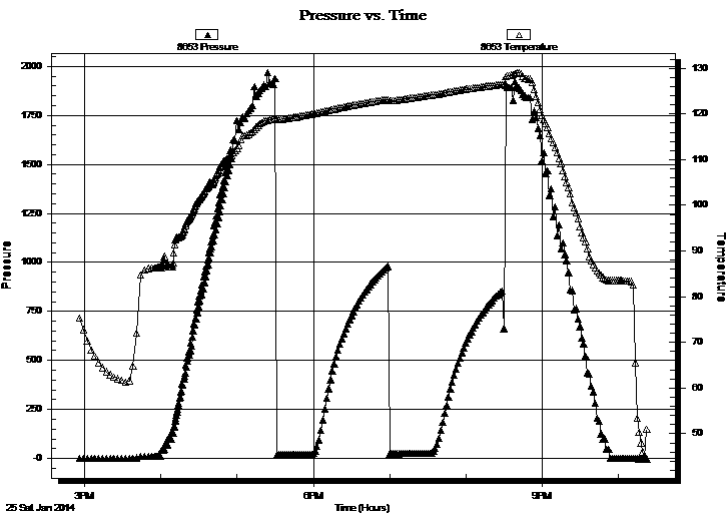
GENERAL INFORMATION:

Formation: **Stotler**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:31:30
Time Test Ended: 22:24:30
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

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 @ 4004.00 ft (KB)
Start Date: 2014.01.25 End Date: 2014.01.25
Start Time: 14:56:00 End Time: 22:23:00
Capacity: 8000.00 psig
Last Calib.: 2014.01.25
Time On Btm:
Time Off Btm:

TEST COMMENT: 30 - IF- 1/4" Blow built to 1"
60 - ISI- No Return
30 - FF- Surface Blow started at 10 min. Did not build or die.
60 - FSI- No Return



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

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

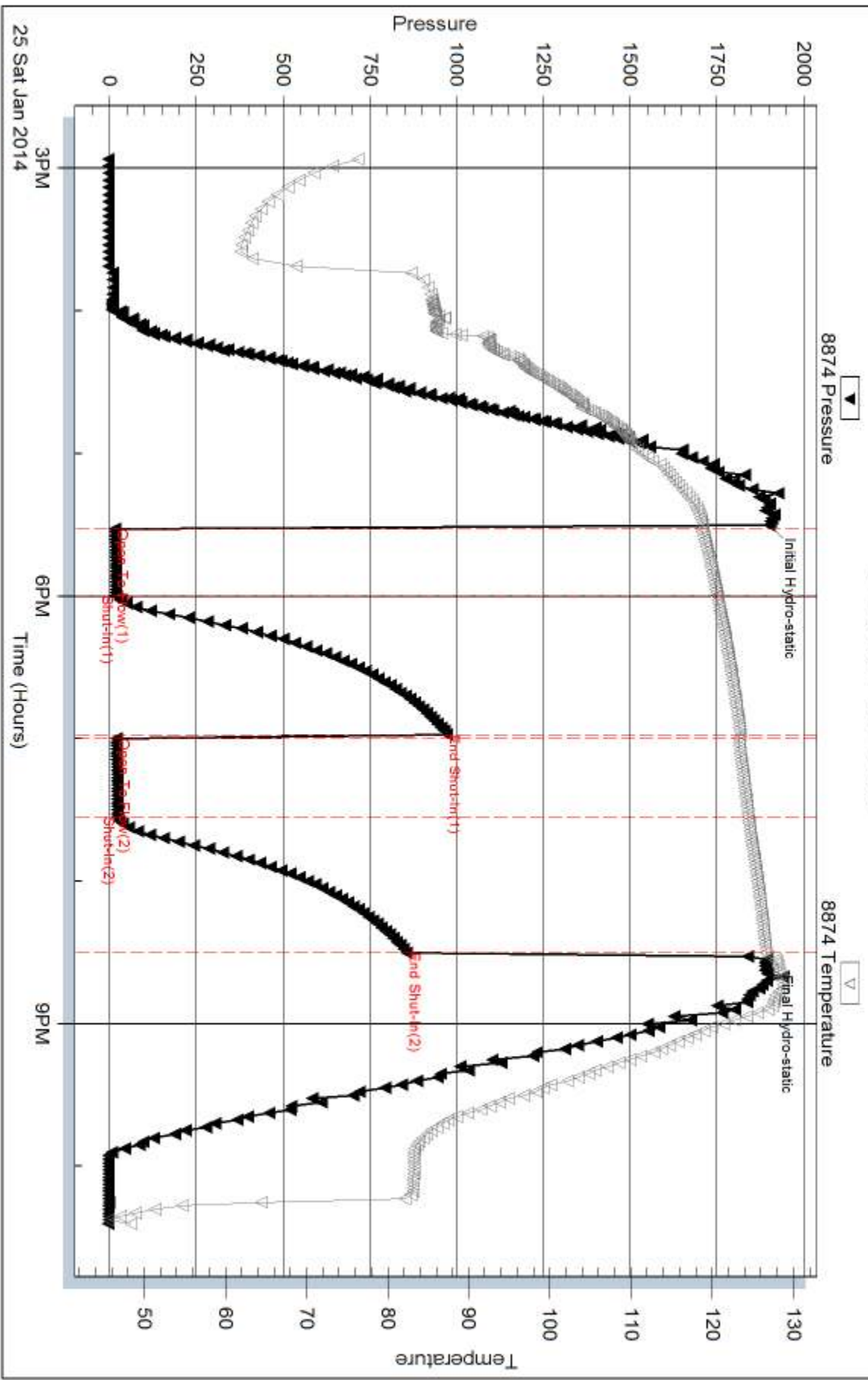
Inside

Murfin Drilling Co., Inc.

16-2s-36w Raw lins. KS

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 53378

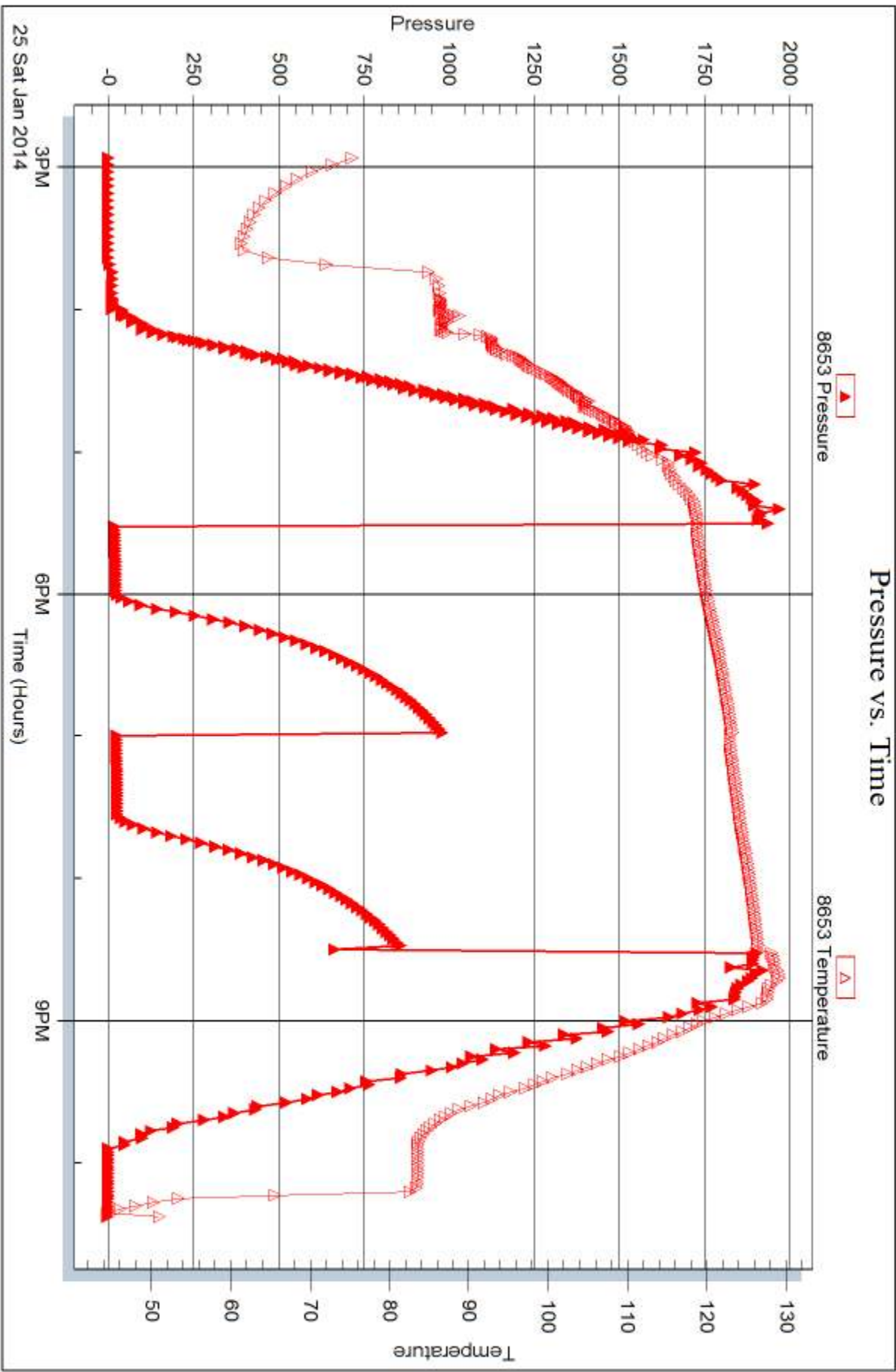
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Serial #: 8653

Outside Murfin Drilling Co., Inc.

16-25-36w Rawlins, KS

DST Test Number: 1



25 Sat Jan 2014

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



**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:

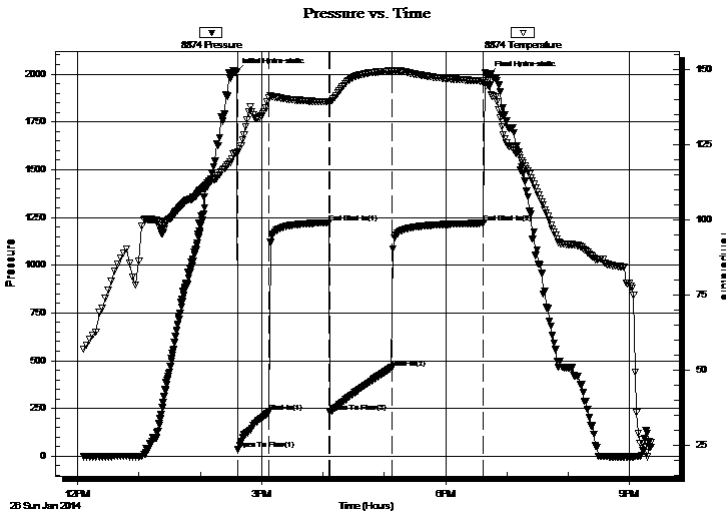
2014.01.26 @ 14:35:00

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 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

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

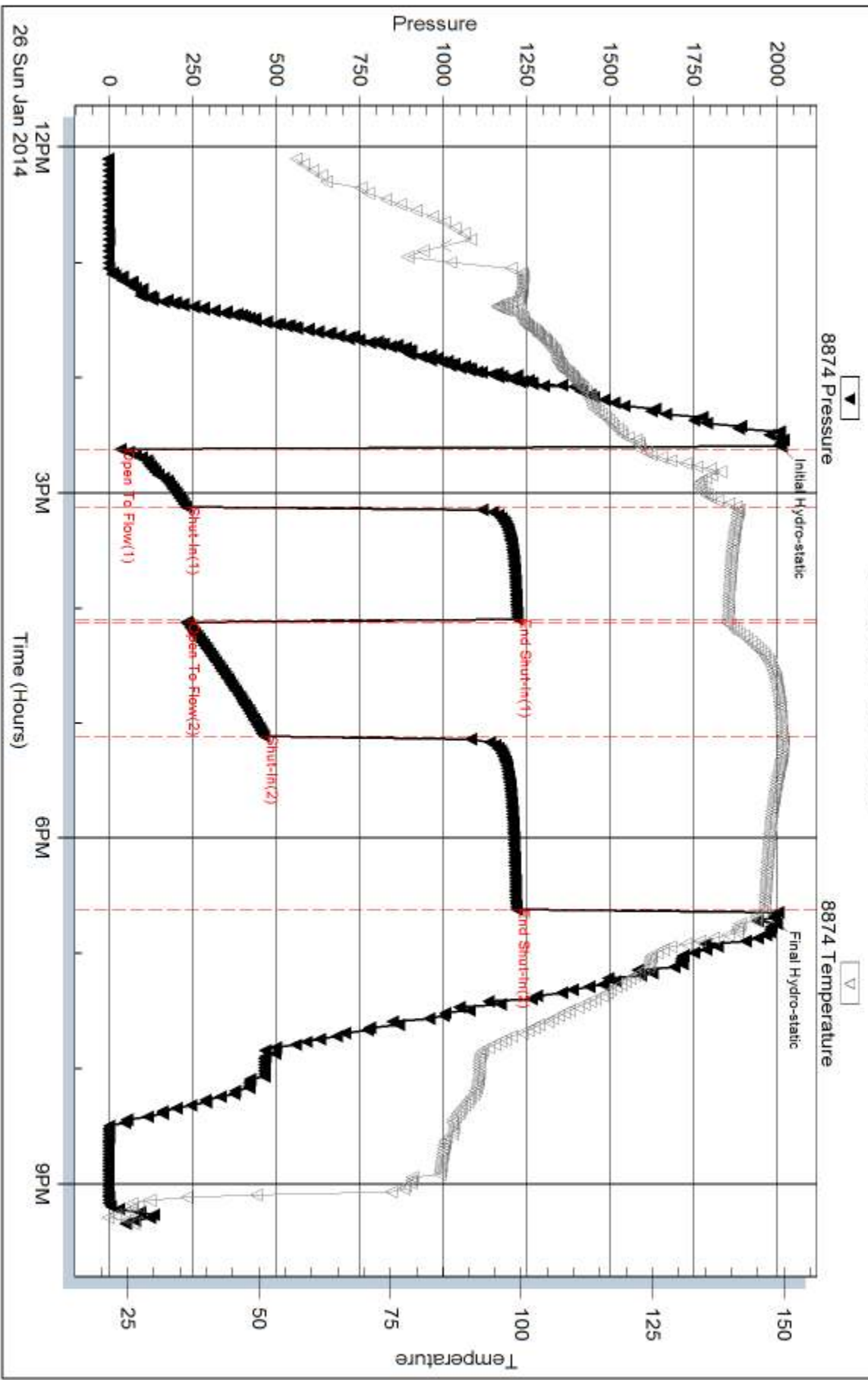
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

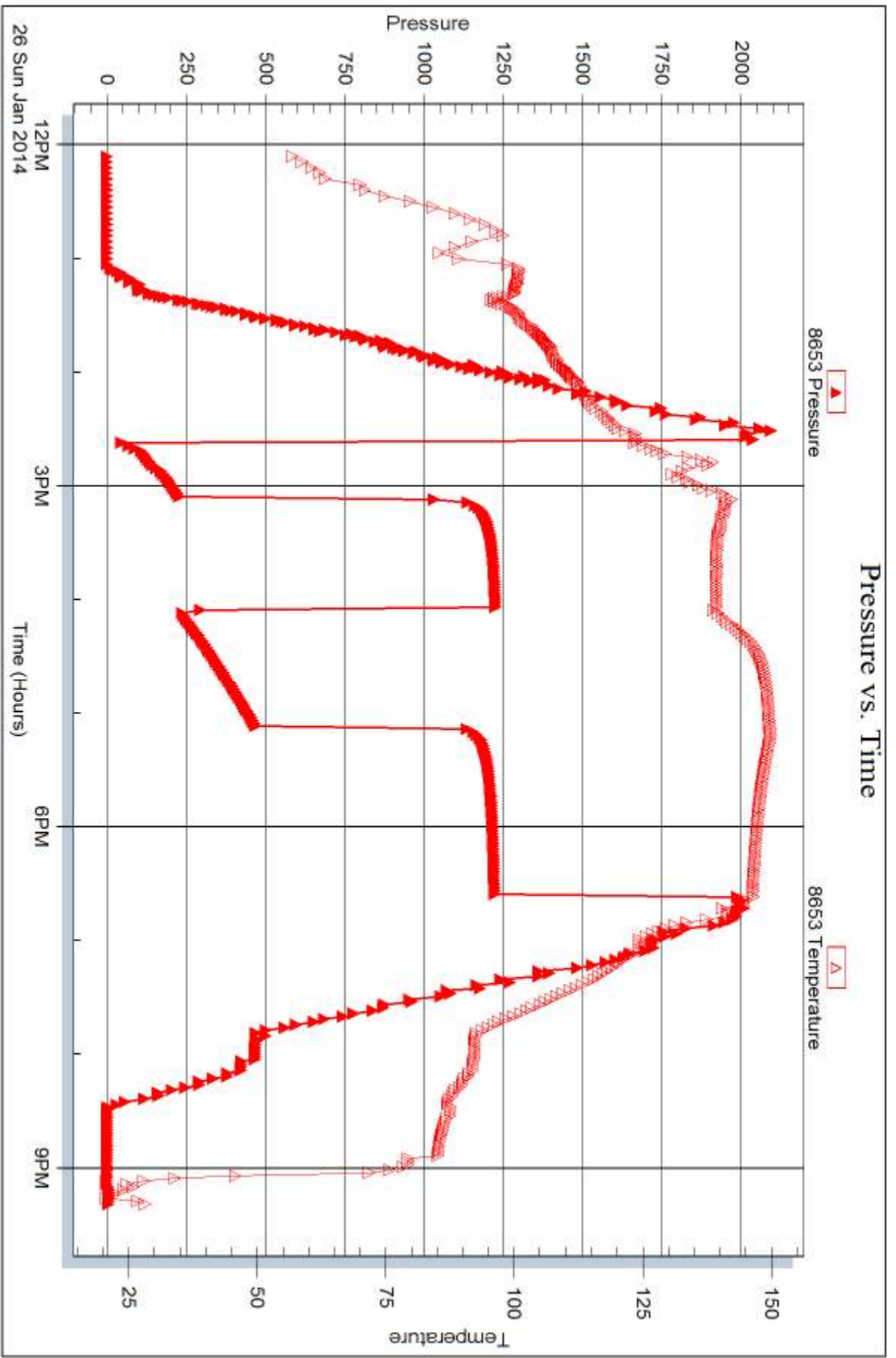


Serial #: 8653

Outside Murfin Drilling Co., Inc.

16-25-36w Rawlins, KS

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 53379

Printed: 2014.02.03 @ 15:17:34



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

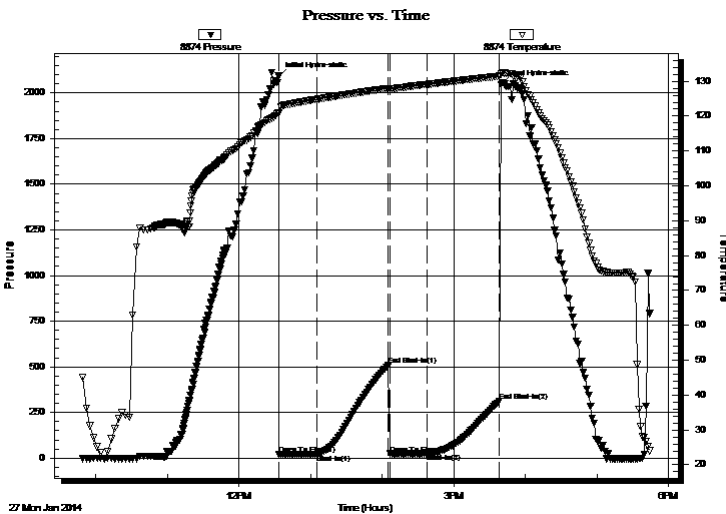
TEST COMMENT: 30 - IF- Surface Blow built to 1/4" then died back to Surface Blow .

60 - ISI- No Return

30 - FF- No Blow

60 - FSI- 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:

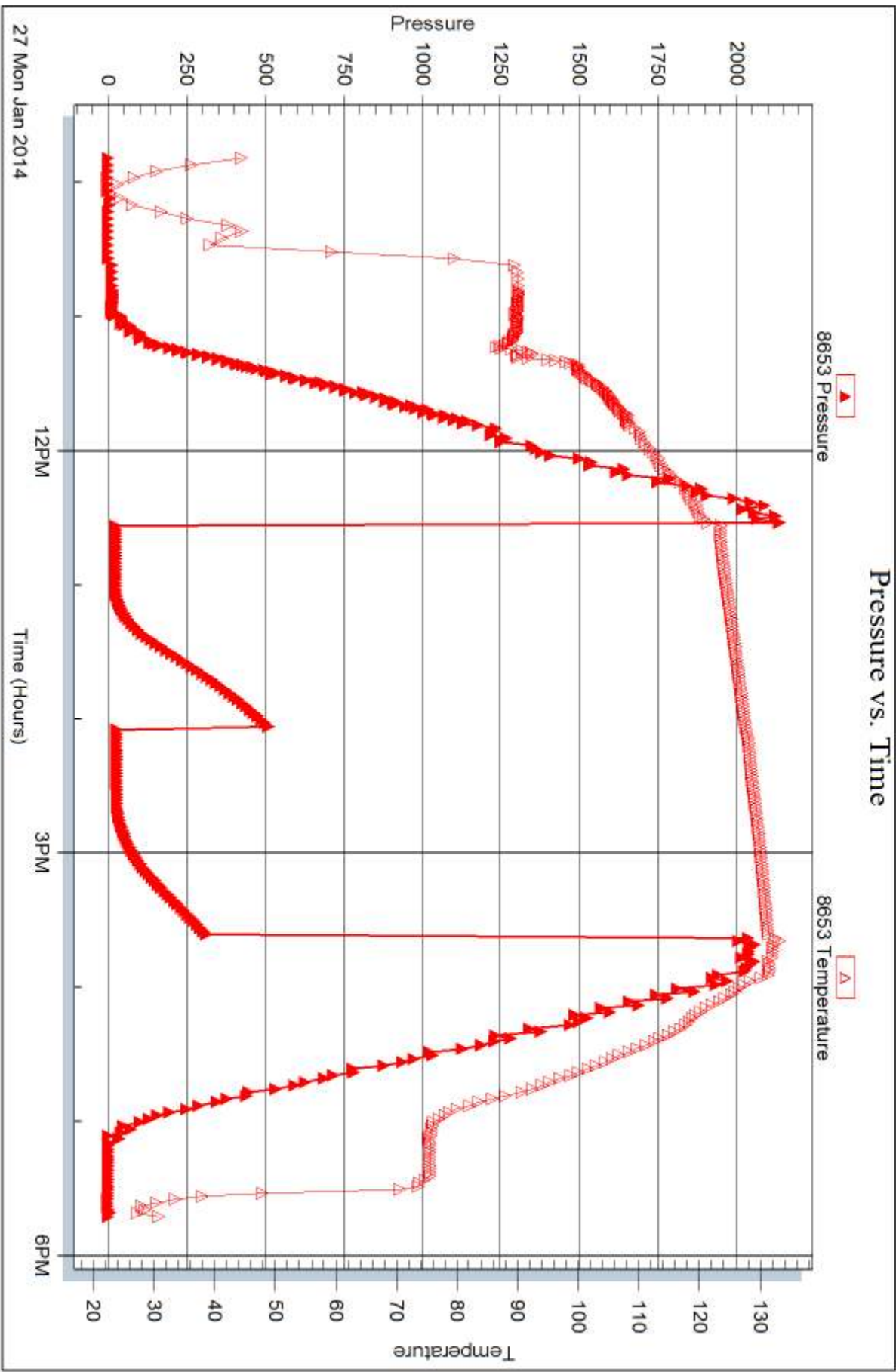
Recovery Comments:

Serial #: 8653

Outside Murfin Drilling Co., Inc.

16-2s-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.

Wilkinson Trust #1-16

250 N Water STE #300
Wichita, KS 67202

16-2s-36w Rawlins,KS

ATTN: Robert Hendrix

Job Ticket: 53381

DST#: 4

Test Start: 2014.01.28 @ 04:58:00

GENERAL INFORMATION:

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

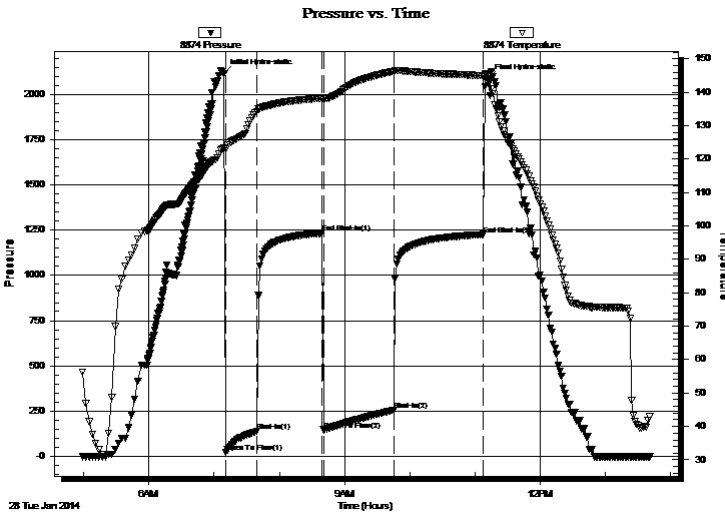
Serial #: 8874

Inside

Press@RunDepth: 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

ATTN: Robert Hendrix

Job Ticket: 53381

DST#: 4

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

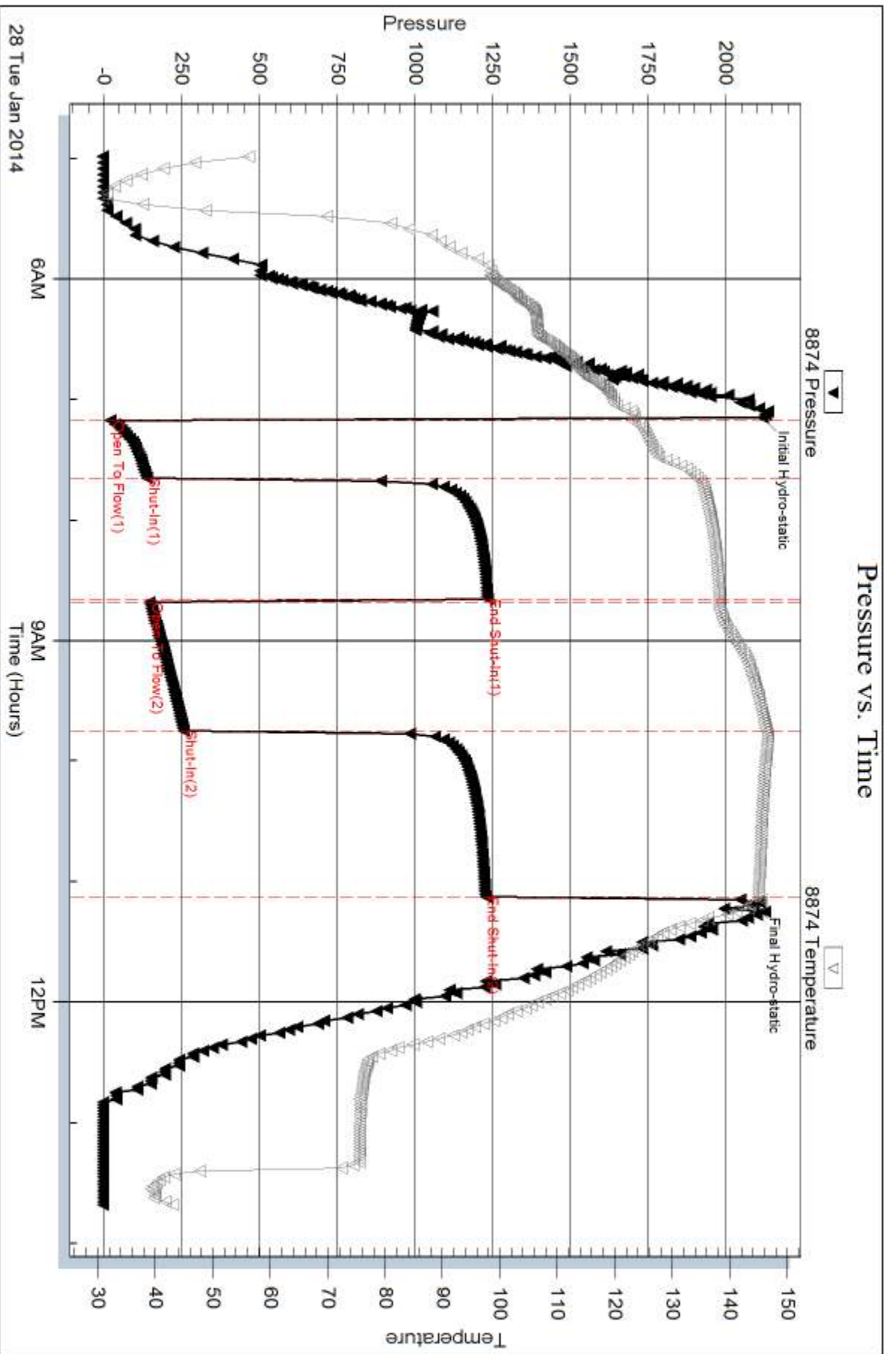
Num Gas Bombs: 0

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:

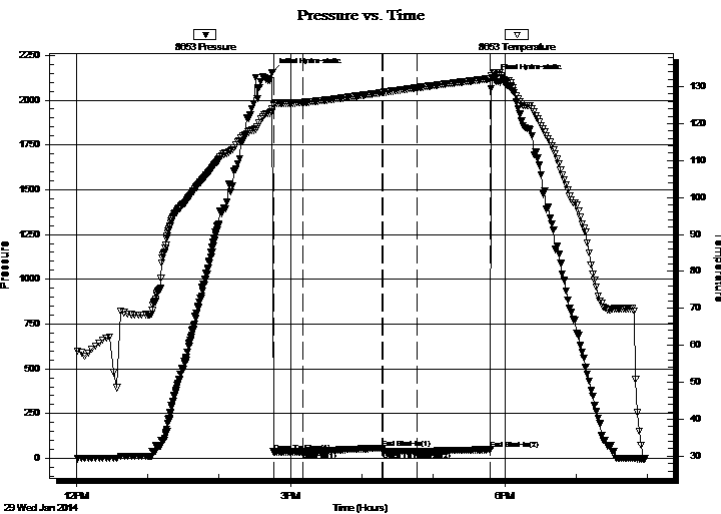
2014.01.29 @ 17:51:00

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:

bbf

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 bbf
10.00	Mud 100M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

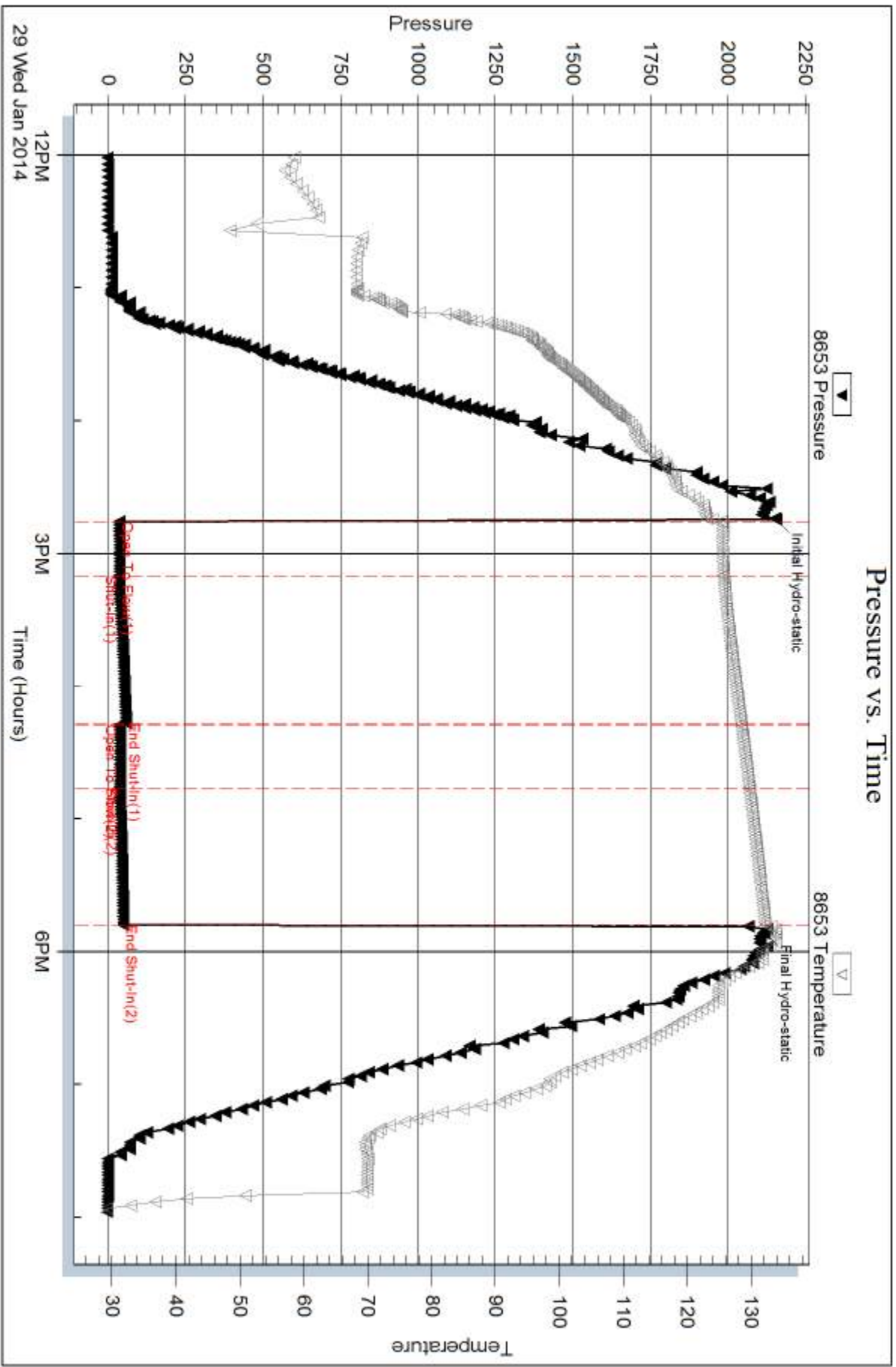
Recovery Comments:

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

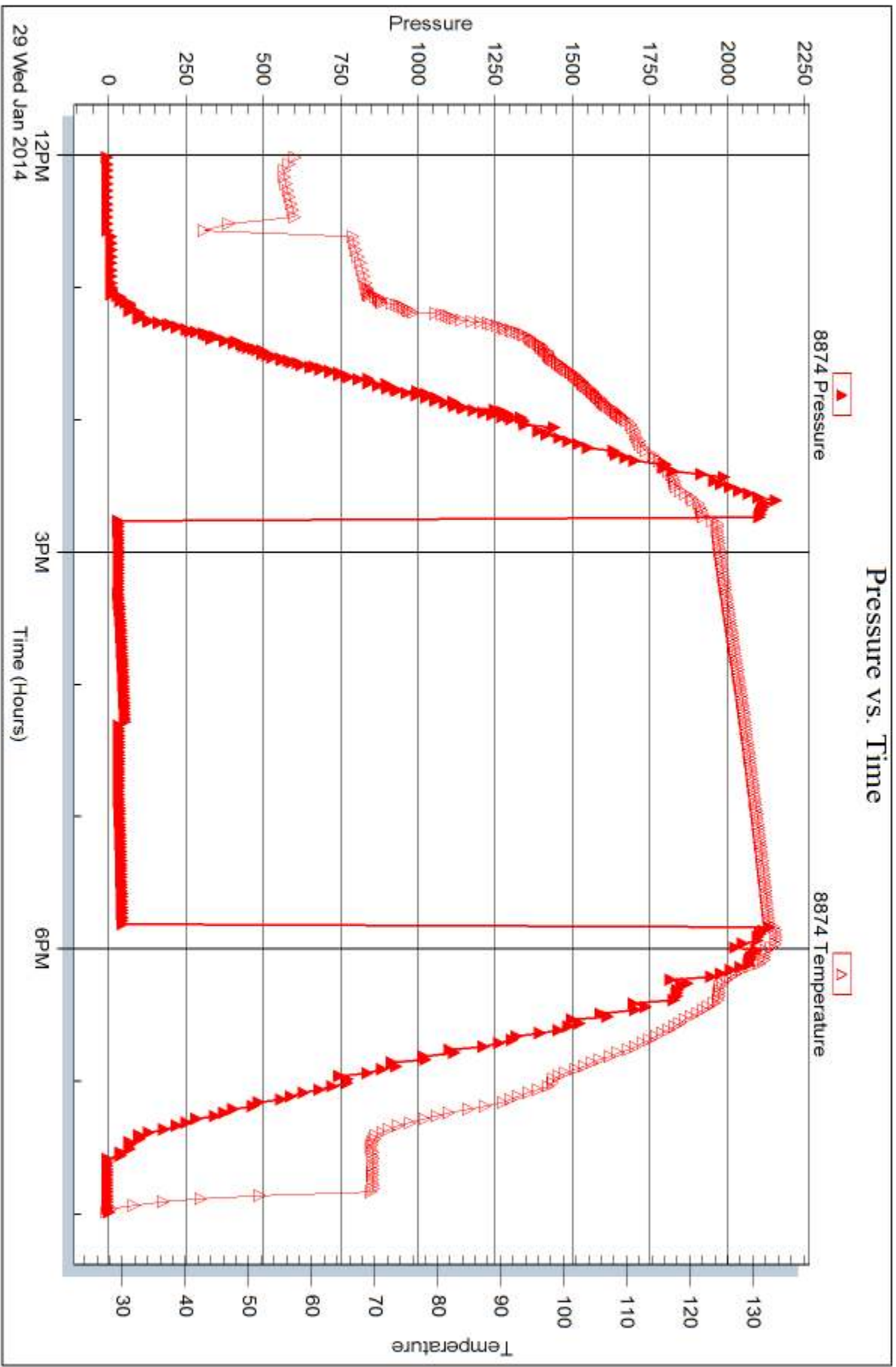
Serial #: 8874

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

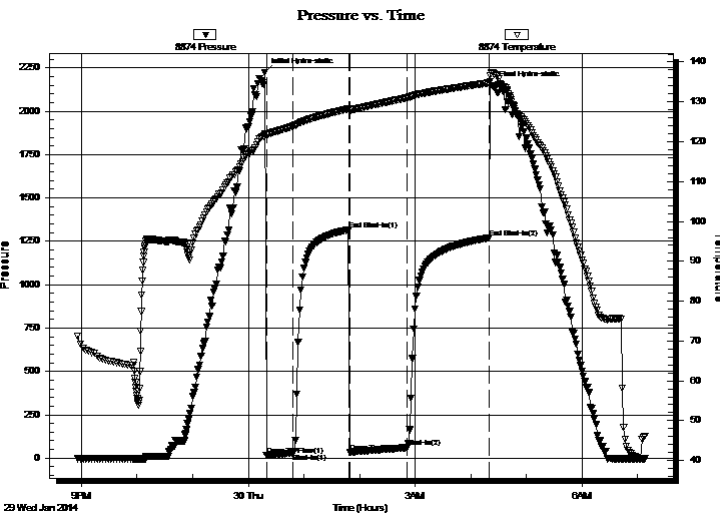
Time Off Btm: 2014.01.30 @ 04:22:30

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

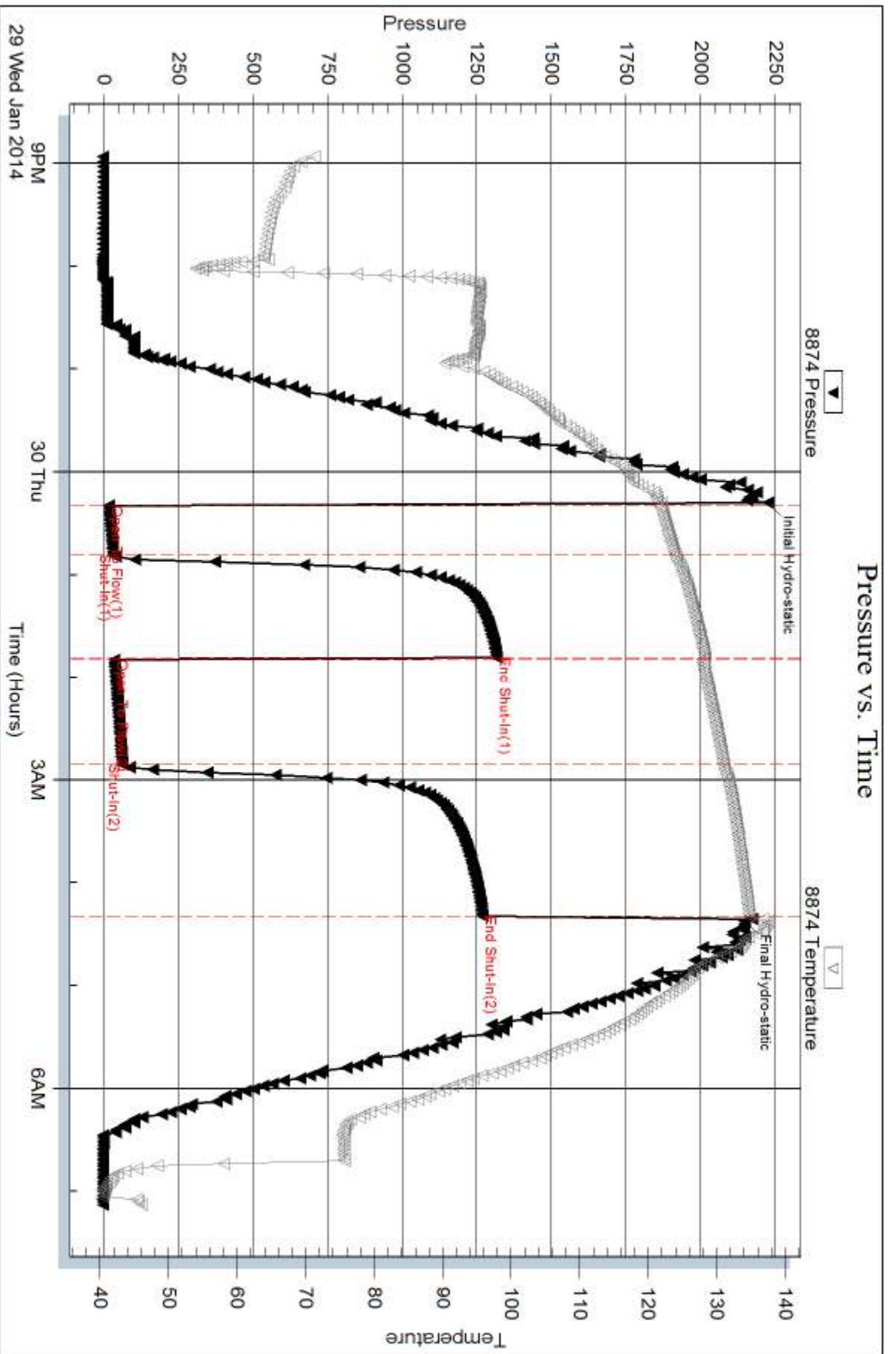
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

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

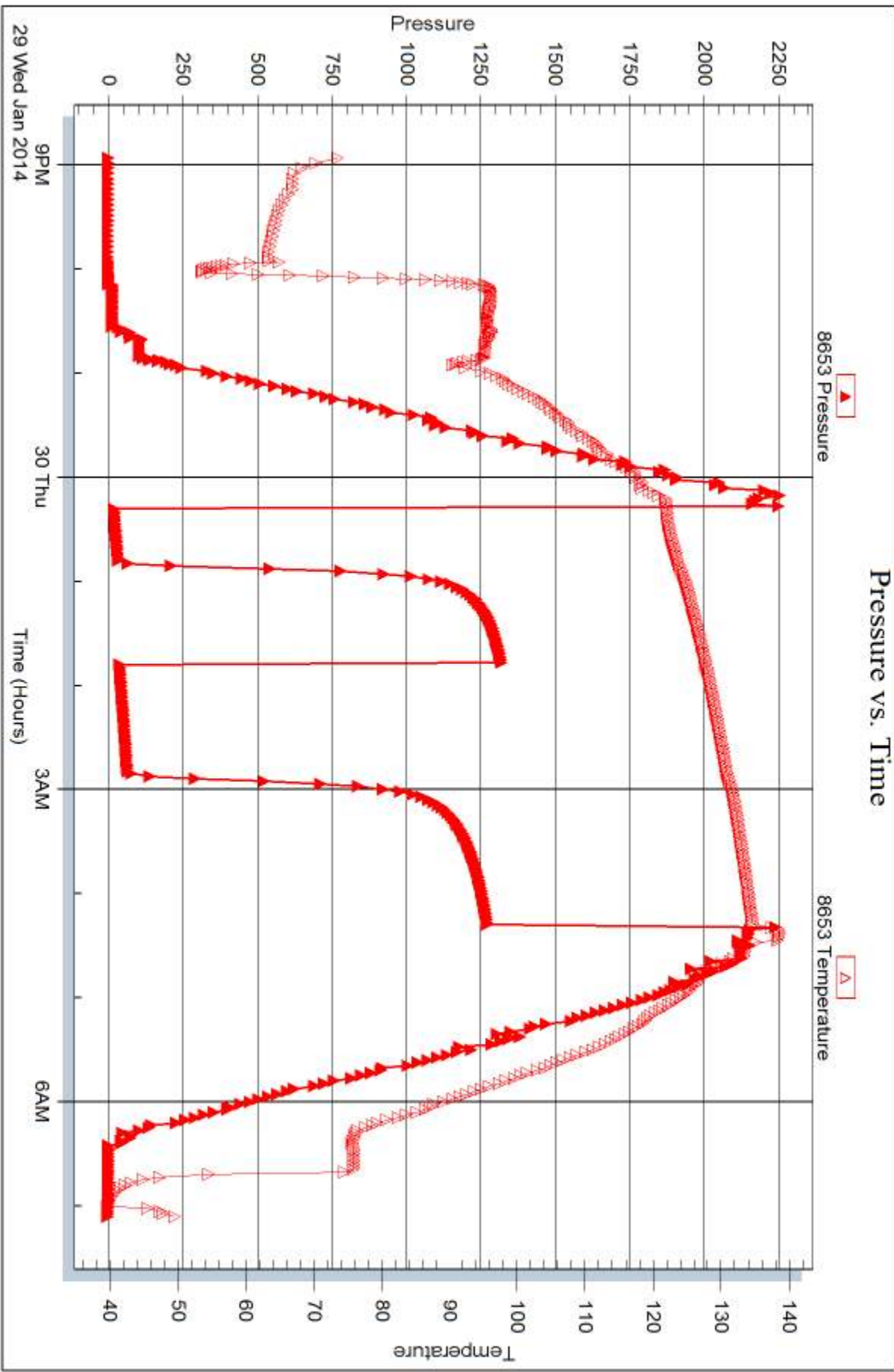


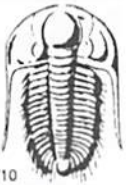
Serial #: 8653

Outside Murfin Drilling Co., Inc.

16-2s-36w Rawlins, KS

DST Test Number: 6





TRILOBITE TESTING INC.

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

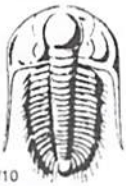
Rec Total 10 BHT 127 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1900 Test 1250 T-On Location 1:30 PM
 (B) First Initial Flow 15 Jars 250 T-Started 2:55 PM
 (C) First Final Flow 17 Safety Joint 75 T-Open 5:30 PM
 (D) Initial Shut-In 971 Circ Sub N/C T-Pulled 8:30 PM
 (E) Second Initial Flow 19 Hourly Standby T-Out 10:30 PM
 (F) Second Final Flow 22 Mileage 108 RT 167.40
 (G) Final Shut-In 855 Sampler
 (H) Final Hydrostatic 1890 Straddle
 Shale Packer
 Ruined Shale Packer
 Ruined Packer
 Extra Packer
 Extra Copies

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60
 Sub Total 1742.40
 Total 1742.40
 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>	

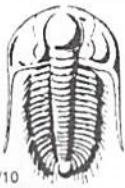
Rec Total 984 BHT 146 Gravity - API RW @ ° F Chlorides ppm

(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

Approved By _____ 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. 53380

Well Name & No. Wilkinson Trust #1-16 Test No. 3 Date 1-27-14
 Company Murfin Drilling Co., Inc Elevation 3348 KB 3343 GL
 Address 250 N Webster 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

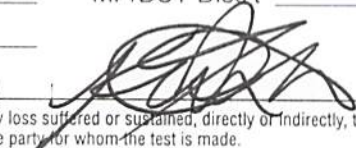
Interval Tested 4234 - 4315 Zone Tested LKC "A"
 Anchor Length 81' Drill Pipe Run 4030 Mud Wt. 9.1
 Top Packer Depth 4230 Drill Collars Run 186 Vis 55
 Bottom Packer Depth 4234 Wt. Pipe Run Ø WL 6.0
 Total Depth 4315 Chlorides 1,400 ppm System LCM 2#

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

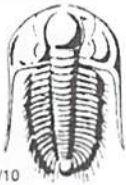
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>OSM</u>	<u>SPOTS</u>		<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 132 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>2092</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>9:40 AM</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>9:48 AM</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:35 PM</u>
(D) Initial Shut-In <u>511</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>3:35 PM</u>
(E) Second Initial Flow <u>23</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>5:50 PM</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>108 RT</u> 167.40	Comments <u>Chased tool</u>
(G) Final Shut-In <u>312</u>	<input type="checkbox"/> Sampler	<u>approx 5' to bottom.</u>
(H) Final Hydrostatic <u>2046</u>	<input type="checkbox"/> Straddle	<u>Bled off initial surge.</u>
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 

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. 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 _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1742.40

Sub Total 1742.40

Approved By _____ Our Representative [Signature]

Sub Total 0
 Total 1742.40
 MP/DST Disc't _____

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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

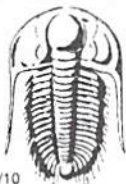
Comments Chased test approx 10' to Bottom Bled off initial "mud" surge

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

4/10

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>Ø</u>	<u>Ø</u>	<u>Ø</u>
<u>92</u>	<u>OS MW</u>	<u>spots</u>	<u>60</u>	<u>40</u>	<u>Ø</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </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

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