



DRILL STEM TEST REPORT

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

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Virginia 'B' #1-11

11-1s-36w Rawlins,KS

Start Date: 2014.08.22 @ 13:25:00

End Date: 2014.08.22 @ 21:21:00

Job Ticket #: 55909 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.02 @ 09:06:47



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

11-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Virginia 'B' #1-11

Job Ticket: 55909

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.08.22 @ 13:25:00

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:58:30

Time Test Ended: 21:21:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4155.00 ft (KB) To 4208.00 ft (KB) (TVD)

Reference Elevations: 3192.00 ft (KB)

Total Depth: 4208.00 ft (KB) (TVD)

3181.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8874

Inside

Press@RunDepth: 32.23 psig @ 4156.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.22

End Date:

2014.08.22

Last Calib.:

2014.08.22

Start Time: 13:26:00

End Time:

21:21:00

Time On Btm:

2014.08.22 @ 15:57:30

Time Off Btm:

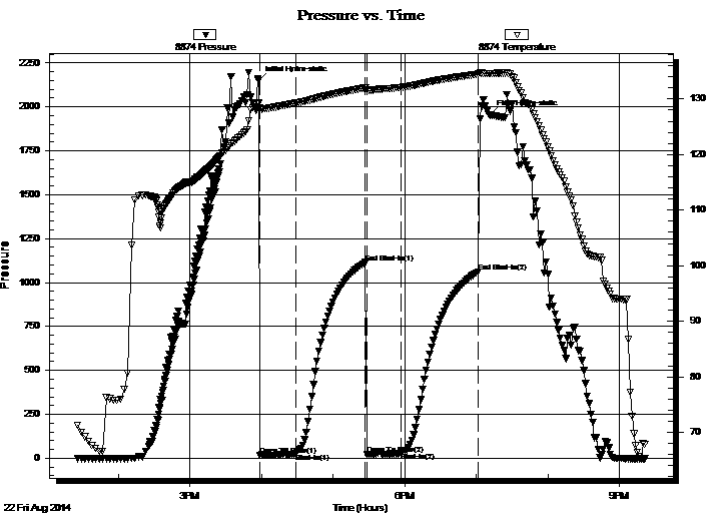
2014.08.22 @ 19:11:30

TEST COMMENT: 30 - IF- Surface Blow died at 7 min.

60 - IS- No Return

30 - FF- No Blow

60 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2150.74	129.26	Initial Hydro-static
1	16.77	128.46	Open To Flow (1)
32	29.34	129.25	Shut-In(1)
90	1114.36	132.01	End Shut-In(1)
91	22.71	131.69	Open To Flow (2)
120	32.23	132.07	Shut-In(2)
184	1061.41	134.46	End Shut-In(2)
194	1953.44	134.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100M (Oil Spots)	0.02

Gas Rates

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



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DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

11-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Virginia 'B' #1-11

Job Ticket: 55909

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.08.22 @ 13:25:00

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:58:30

Time Test Ended: 21:21:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: **4155.00 ft (KB) To 4208.00 ft (KB) (TVD)**

Reference Elevations: 3192.00 ft (KB)

Total Depth: 4208.00 ft (KB) (TVD)

3181.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8653 Outside

Press@RunDepth: psig @ 4156.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.22

End Date:

2014.08.22

Last Calib.:

2014.08.22

Start Time: 13:26:00

End Time:

21:19:30

Time On Btm:

Time Off Btm:

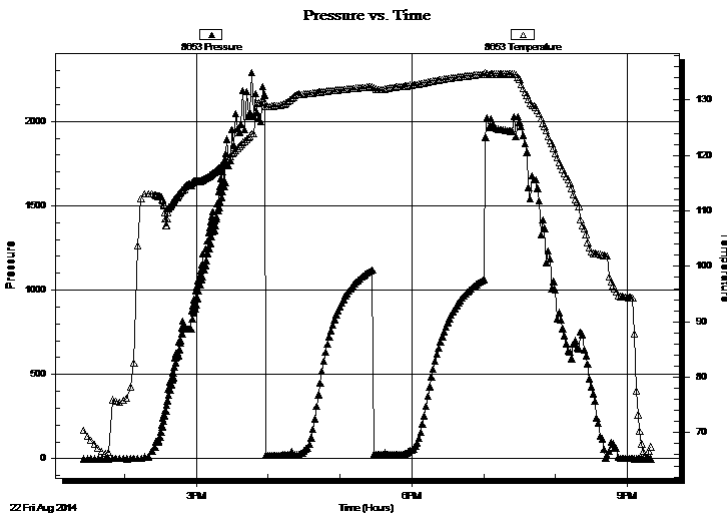
TEST COMMENT: 30 - IF- Surface Blow died at 7 min.

60 - ISI- No Return

30 - FF- No Blow

60 - FSI- No Return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100M (Oil Spots)	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

11-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Virginia 'B' #1-11

Job Ticket: 55909

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.08.22 @ 13:25:00

Tool Information

Drill Pipe:	Length: 3941.00 ft	Diameter: 3.80 inches	Volume: 55.28 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: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 56.29 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4155.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	81.00 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			4128.00	
Shut In Tool	5.00			4133.00	
Hydraulic tool	5.00			4138.00	
Jars	5.00			4143.00	
Safety Joint	3.00			4146.00	
Packer	5.00			4151.00	28.00 Bottom Of Top Packer
Packer	4.00			4155.00	
Stubb	1.00			4156.00	
Recorder	0.00	8653	Outside	4156.00	
Recorder	0.00	8874	Inside	4156.00	
Perforations	13.00			4169.00	
Change Over Sub	1.00			4170.00	
Drill Pipe	32.00			4202.00	
Change Over Sub	1.00			4203.00	
Bullnose	5.00			4208.00	53.00 Bottom Packers & Anchor

Total Tool Length: 81.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

11-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Virginia 'B' #1-11

Job Ticket: 55909

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.08.22 @ 13:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM 100M (Oil Spots)	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

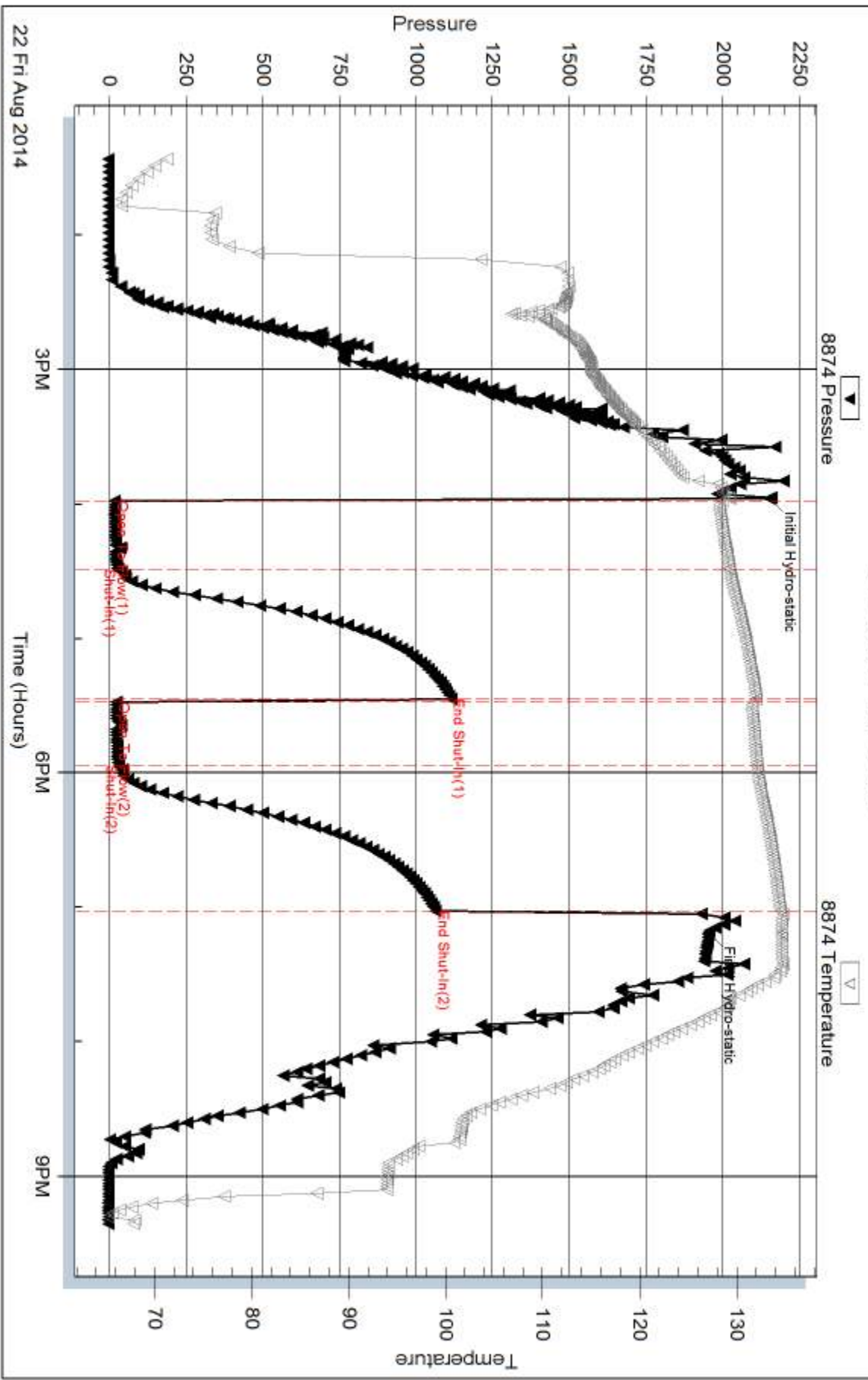
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

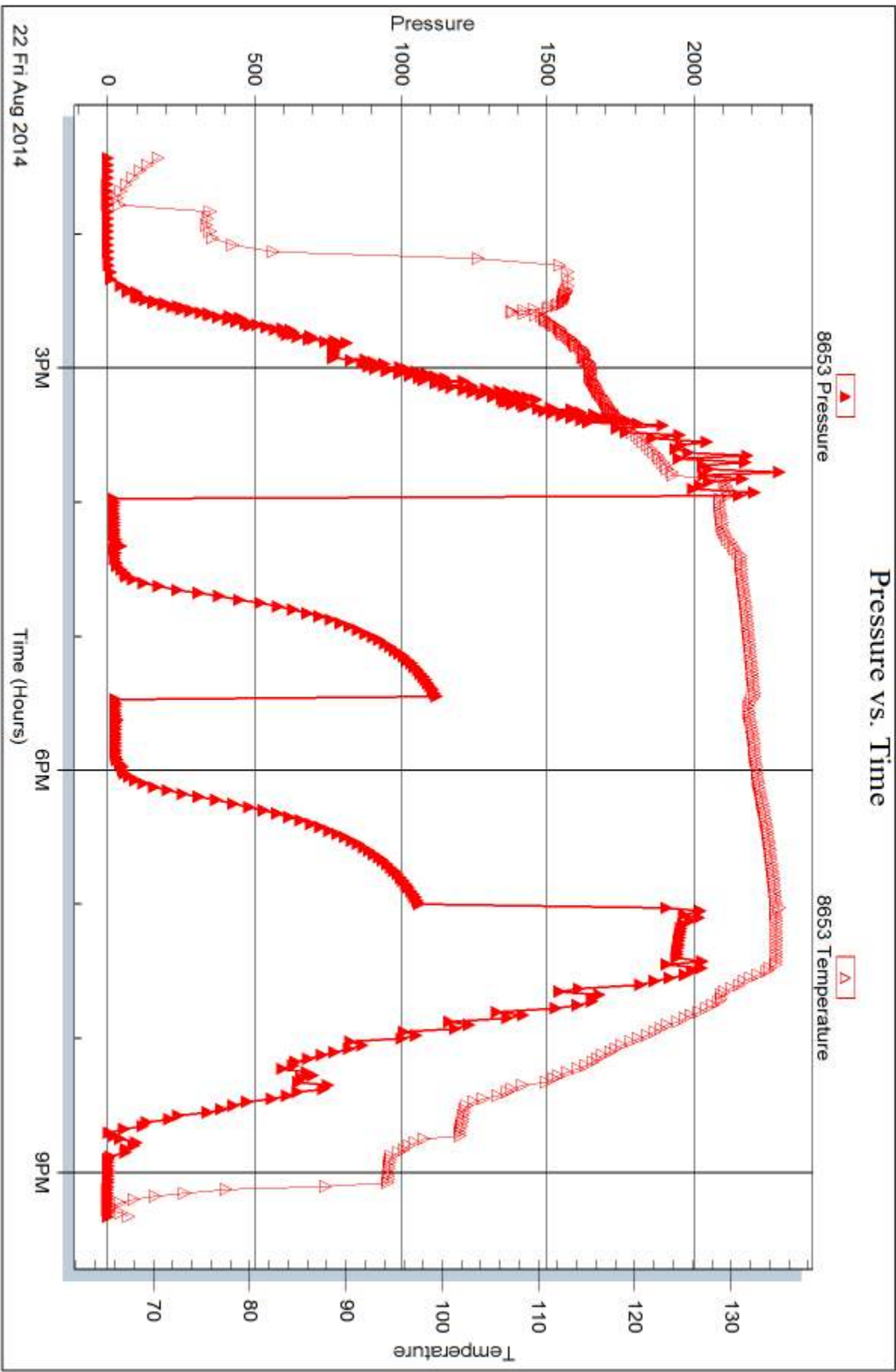


Serial #: 8653

Outside Murfin Drilling Co., Inc.

Virginia 'B' #1-11

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 55909

Printed: 2014.09.02 @ 09:06:48



DRILL STEM TEST REPORT

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

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Virginia 'B' #1-11

11-1s-36w Rawlins,KS

Start Date: 2014.08.23 @ 08:38:00

End Date: 2014.08.23 @ 16:35:30

Job Ticket #: 55910 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.02 @ 09:03:49



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

11-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Virginia 'B' #1-11

Job Ticket: 55910

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.08.23 @ 08:38:00

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:26:40

Time Test Ended: 16:35:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4218.00 ft (KB) To 4266.00 ft (KB) (TVD)

Reference Elevations: 3192.00 ft (KB)

Total Depth: 4266.00 ft (KB) (TVD)

3181.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8874

Inside

Press@RunDepth: 40.68 psig @ 4219.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.23

End Date:

2014.08.23

Last Calib.:

2014.08.23

Start Time:

08:39:00

End Time:

16:35:30

Time On Btm:

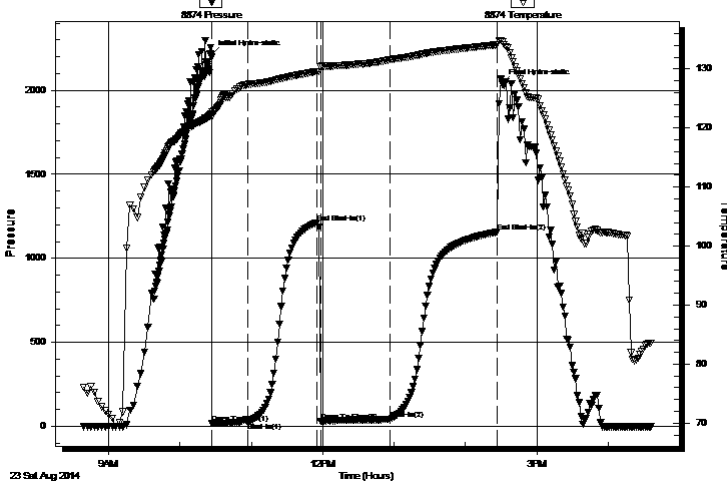
2014.08.23 @ 10:26:20

Time Off Btm:

2014.08.23 @ 14:31:00

TEST COMMENT: 30 - IF- 1/4" Blow built to 1 1/4"
60 - IS- No Return
60 - FF- Surface Blow started at 3 min. Built to 6 1/2"
90 - FS- No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2212.66	122.42	Initial Hydro-static
1	16.69	121.86	Open To Flow (1)
31	22.91	127.37	Shut-In(1)
89	1212.88	129.59	End Shut-In(1)
92	28.91	130.35	Open To Flow (2)
151	40.68	131.58	Shut-In(2)
241	1156.60	134.11	End Shut-In(2)
245	2037.44	134.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	GOCM 10G 40o 50M	0.20
30.00	Clean Gassy Oil 20G 80o	0.15
0.00	80' GIP 100G	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

11-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Virginia 'B' #1-11

Job Ticket: 55910

DST#: 2

ATTN: Robert Hendrix

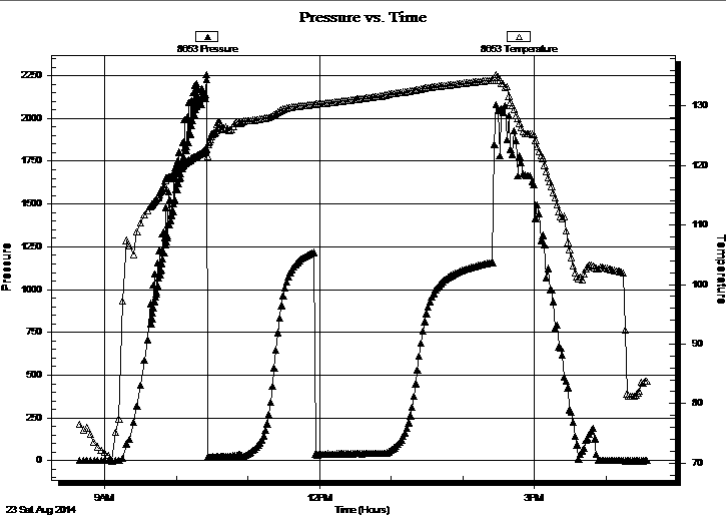
Test Start: 2014.08.23 @ 08:38:00

GENERAL INFORMATION:

Formation: LKC "G"			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)	
Time Tool Opened: 10:26:40		Tester: Kevin Mack	
Time Test Ended: 16:35:30		Unit No: 66	
Interval: 4218.00 ft (KB) To 4266.00 ft (KB) (TVD)		Reference Elevations: 3192.00 ft (KB)	
Total Depth: 4266.00 ft (KB) (TVD)		3181.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 11.00 ft	

Serial #: 8653	Outside		
Press@RunDepth: psig @ 4219.00 ft (KB)	Capacity: 8000.00 psig		
Start Date: 2014.08.23	End Date: 2014.08.23	Last Calib.: 1899.12.30	
Start Time: 08:39:00	End Time: 16:34:00	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: 30 - IF- 1/4" Blow built to 1 1/4"
60 - IS- No Return
60 - FF- Surface Blow started at 3 min. Built to 6 1/2"
90 - FS- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
40.00	GOCM 10G 40o 50M	0.20
30.00	Clean Gassy Oil 20G 80o	0.15
0.00	80' GIP 100G	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.

11-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Virginia 'B' #1-11

Job Ticket: 55910

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.08.23 @ 08:38:00

Tool Information

Drill Pipe:	Length: 4003.00 ft	Diameter: 3.80 inches	Volume: 56.15 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: 207.00 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 8400.00 lb
			<u>Total Volume: 57.17 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4218.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4191.00	
Shut In Tool	5.00			4196.00	
Hydraulic tool	5.00			4201.00	
Jars	5.00			4206.00	
Safety Joint	3.00			4209.00	
Packer	5.00			4214.00	28.00 Bottom Of Top Packer
Packer	4.00			4218.00	
Stubb	1.00			4219.00	
Recorder	0.00	8653	Outside	4219.00	
Recorder	0.00	8874	Inside	4219.00	
Perforations	8.00			4227.00	
Change Over Sub	1.00			4228.00	
Drill Pipe	32.00			4260.00	
Change Over Sub	1.00			4261.00	
Bullnose	5.00			4266.00	48.00 Bottom Packers & Anchor

Total Tool Length: 76.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

11-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Virginia 'B' #1-11

Job Ticket: 55910

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.08.23 @ 08:38:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
40.00	GOCM 10G 40o 50M	0.197
30.00	Clean Gassy Oil 20G 80o	0.148
0.00	80' GIP 100G	0.000

Total Length: 70.00 ft Total Volume: 0.345 bbl

Num Fluid Samples: 0

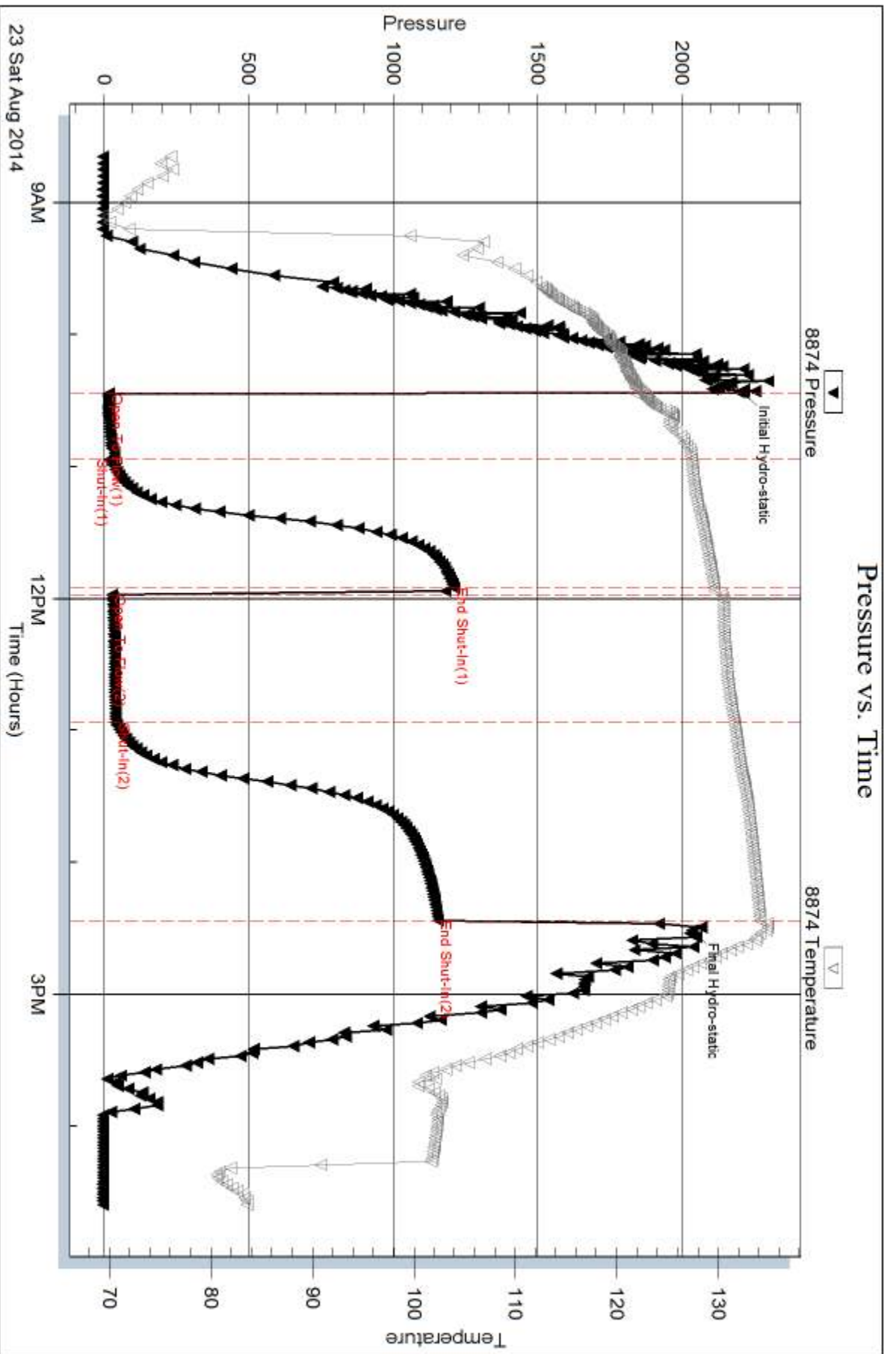
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 38 @ 90 deg = 35 cor

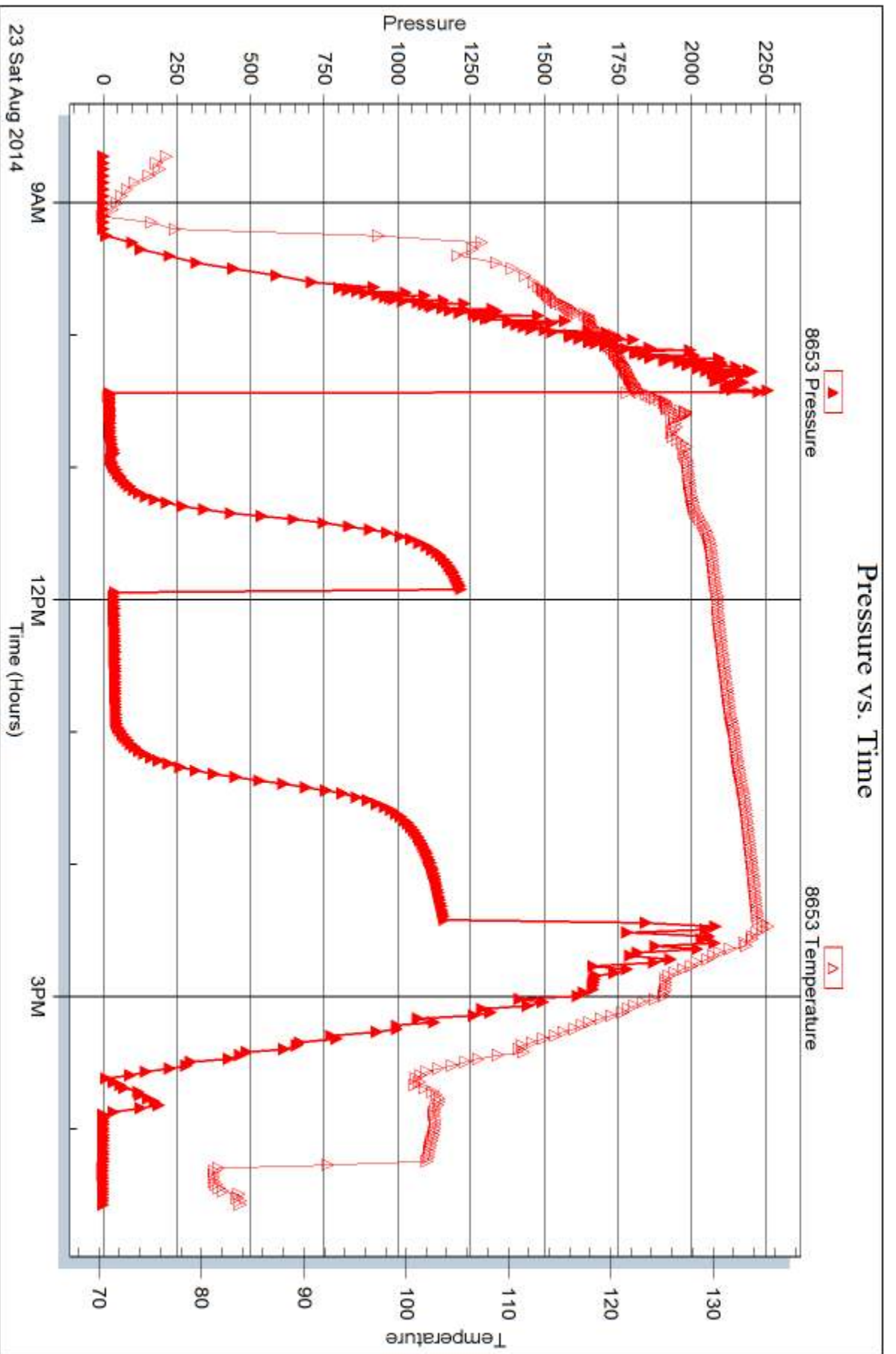


Serial #: 8653

Outside Murfin Drilling Co., Inc.

Virginia 'B' #1-11

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 55910

Printed: 2014.09.02 @ 09:03:50



DRILL STEM TEST REPORT

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

250 N Water STE #300
Wichita, KS 67202

ATTN: Robert Hendrix

Virginia 'B' #1-11

11-1s-36w Rawlins,KS

Start Date: 2014.08.23 @ 08:49:00

End Date: 2014.08.23 @ 16:08:00

Job Ticket #: 55911 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.02 @ 09:02:59



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

11-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Virginia 'B' #1-11

Job Ticket: 55911

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.08.23 @ 08:49:00

GENERAL INFORMATION:

Formation: **LKC "I-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:57:00

Time Test Ended: 16:08:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4298.00 ft (KB) To 4390.00 ft (KB) (TVD)

Reference Elevations: 3192.00 ft (KB)

Total Depth: 4390.00 ft (KB) (TVD)

3181.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8874

Inside

Press@RunDepth: 125.00 psig @ 4299.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.23

End Date:

2014.08.23

Last Calib.:

2014.08.24

Start Time: 08:50:00

End Time:

16:08:00

Time On Btm:

2014.08.23 @ 10:56:00

Time Off Btm:

2014.08.23 @ 14:01:30

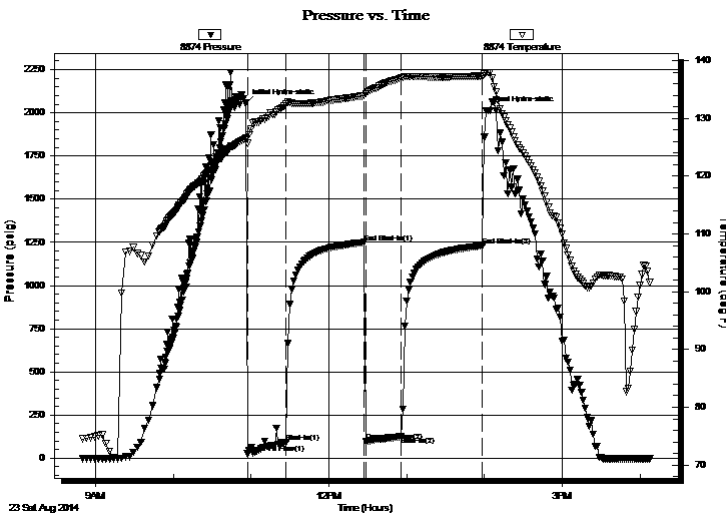
TEST COMMENT: 30 - IF- Surface Blow died in 7 min.

60 - IS- No Return

30 - FF- No Blow

60 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2054.81	126.57	Initial Hydro-static
1	25.91	125.74	Open To Flow (1)
31	93.98	132.46	Shut-In(1)
91	1249.39	133.92	End Shut-In(1)
93	95.91	134.30	Open To Flow (2)
120	125.00	136.97	Shut-In(2)
183	1230.41	137.37	End Shut-In(2)
186	2013.56	137.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	WM 40W 60M	0.30
60.00	MW 60W 40M	0.30
60.00	WM 30W 70M	0.30
30.00	Mud 100M	0.17

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

11-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Virginia 'B' #1-11

Job Ticket: 55911

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.08.23 @ 08:49:00

Tool Information

Drill Pipe:	Length: 4095.00 ft	Diameter: 3.80 inches	Volume: 57.44 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: 207.00 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 58.46 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4298.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	120.00 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			4271.00	
Shut In Tool	5.00			4276.00	
Hydraulic tool	5.00			4281.00	
Jars	5.00			4286.00	
Safety Joint	3.00			4289.00	
Packer	5.00			4294.00	28.00 Bottom Of Top Packer
Packer	4.00			4298.00	
Stubb	1.00			4299.00	
Recorder	0.00	8653	Outside	4299.00	
Recorder	0.00	8874	Inside	4299.00	
Perforations	21.00			4320.00	
Change Over Sub	1.00			4321.00	
Drill Pipe	63.00			4384.00	
Change Over Sub	1.00			4385.00	
Bullnose	5.00			4390.00	92.00 Bottom Packers & Anchor

Total Tool Length: 120.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

11-1s-36w Rawlins,KS

250 N Water STE #300
Wichita, KS 67202

Virginia 'B' #1-11

Job Ticket: 55911

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.08.23 @ 08:49:00

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:

8500 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	WM 40W 60M	0.295
60.00	MW 60W 40M	0.295
60.00	WM 30W 70M	0.295
30.00	Mud 100M	0.175

Total Length: 210.00 ft Total Volume: 1.060 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .5 @ 100 deg = 8500ppm

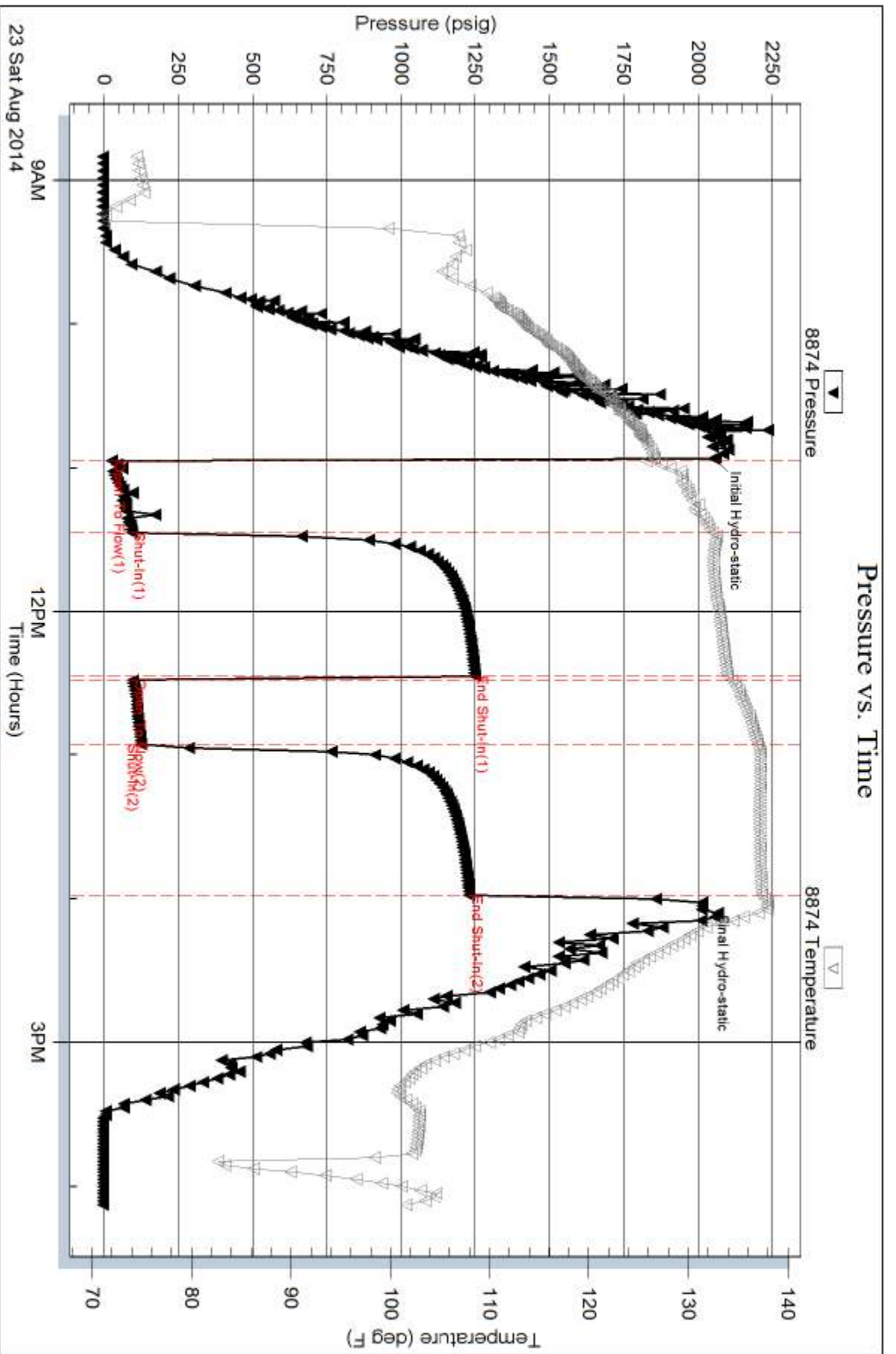
Serial #: 8874

Inside

Murfin Drilling Co., Inc.

Virginia 'B' #1-11

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 55911

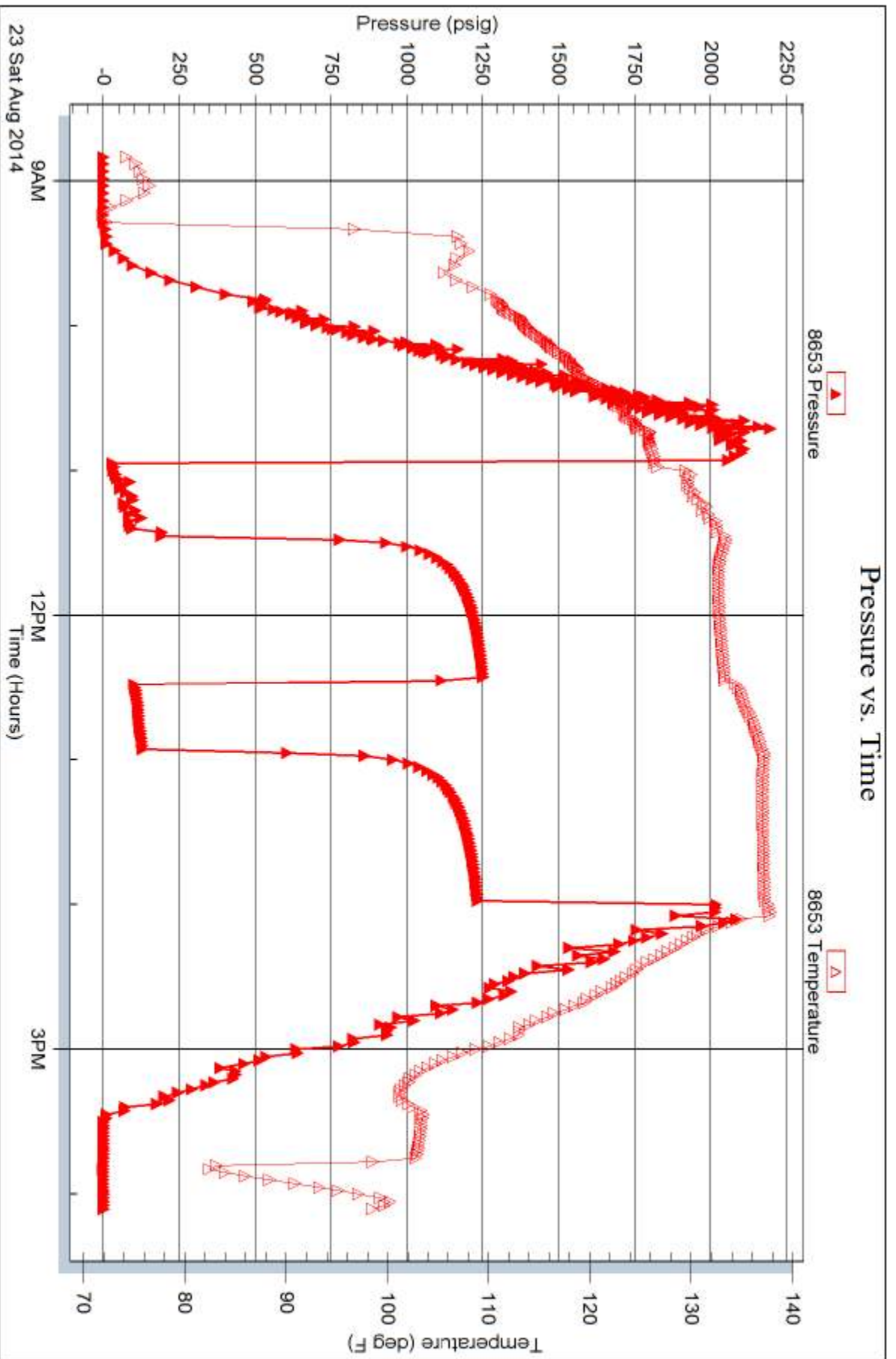
Printed: 2014.09.02 @ 09:03:00

Serial #: 8653

Outside Murfin Drilling Co., Inc.

Virginia 'B' #1-11

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 55911

Printed: 2014.09.02 @ 09:03:00



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55909

4/10

Well Name & No. Virginia 'B' #1-11 Test No. 1 Date 8-22-14
 Company Murfin Drilling Co., Inc. Elevation 3192 KB 3181 GL
 Address 2500 N Water STE # 3000 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 11 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 4155-4208 Zone Tested LKC "D"
 Anchor Length 53' Drill Pipe Run _____ Mud Wt. 9.1
 Top Packer Depth 4151 Drill Collars Run 207' Vis 62
 Bottom Packer Depth 4155 Wt. Pipe Run Ø WL 6.8
 Total Depth 4208 Chlorides 6000 ppm System LCM 11#
 Blow Description IF - Surface Blow died in 7 min.
ISI - No Return
FF - No Blow
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>OSM</u>	<u>SPOTS</u>		<u>1000</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 135 Gravity ~ API RW ~ @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2150 Test 1250 T-On Location 12:00 PM
 (B) First Initial Flow 160 Jars 250 T-Started 1:25 PM
 (C) First Final Flow 29 Safety Joint 75 T-Open 4:00 PM
 (D) Initial Shut-In 1114 Circ Sub _____ T-Pulled 7:00 PM
 (E) Second Initial Flow 22 Hourly Standby _____ T-Out 9:25 PM
 (F) Second Final Flow 32 Mileage 116 RT 179.80 Comments _____
 (G) Final Shut-In 1061 Sampler _____
 (H) Final Hydrostatic 1953 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1754.80
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1754.80

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. 55910

Well Name & No. Virginia 'B' #1-11 Test No. 2 Date 8-23-14
 Company Murfin Drilling Co., Inc. Elevation 3192 KB 3181 GL
 Address 2500 N Water STE # 3000 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 11 Twp. 1S Rge. 36W Co. Rawlins State KS

Interval Tested 4218-4266 Zone Tested LKC "G"
 Anchor Length 48' Drill Pipe Run 4003' Mud Wt. 9.1
 Top Packer Depth 4214 Drill Collars Run 207' Vis 62
 Bottom Packer Depth 4218 Wt. Pipe Run 0 WL 6.8
 Total Depth 4266 Chlorides 6000 ppm System LCM 11#

Blow Description IF-1/4" Blow built to 1/4
ISI- No Return
FF-Surface Blow started at 3 min. Built to 6 1/2"
PSI- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Feet of Clean Gassy Oil</u>	<u>20</u>	<u>80</u>		
<u>40</u>	<u>Feet of GCM</u>	<u>10</u>	<u>40</u>	<u>50</u>	
<u>80</u>	<u>Feet of GIP</u>	<u>100</u>			

Rec Total 70' BHT 134 Gravity 35 API RW - @ - °F Chlorides - ppm

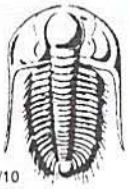
(A) Initial Hydrostatic 2212 Test 1250 T-On Location 8:25 AM
 (B) First Initial Flow 16 Jars 250 T-Started 8:38 AM
 (C) First Final Flow 22 Safety Joint 75 T-Open 10:27 AM
 (D) Initial Shut-In 1212 Circ Sub _____ T-Pulled 2:27 PM
 (E) Second Initial Flow 28 Hourly Standby _____ T-Out 4:30 PM
 (F) Second Final Flow 40 Mileage 116 RT 179.80
 (G) Final Shut-In 1156 Sampler _____
 (H) Final Hydrostatic 2037 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 1754.80
 Total 1754.80
 MP/DST Disc't _____

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55911

4/10

Well Name & No. Virginia 'B' #111 Test No. 3 Date 8-24-14
 Company Murfin Drilling Co., Inc Elevation 3192 KB 3181 GL
 Address 2508 N Water STE #3000 Wichita, KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 11 Twp. 1S Rge. 36W Co. Rawlins State KS

Interval Tested 4298-4390 Zone Tested LKL "I, J, K"
 Anchor Length 92' Drill Pipe Run 4095' Mud Wt. 9.0
 Top Packer Depth 4294 Drill Collars Run 207' Vis 60
 Bottom Packer Depth 4298 Wt. Pipe Run 6 WL 6.4
 Total Depth 4390 Chlorides 6000 ppm System LCM 10#

Blow Description IF - Surface Blow died in 7 min.
ISI - NO Return
FF - NO Blow
FST - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Mud</u>			<u>100</u>	
<u>60</u>	<u>WM</u>		<u>30</u>	<u>70</u>	
<u>60</u>	<u>MW</u>		<u>60</u>	<u>40</u>	
<u>60</u>	<u>WM</u>		<u>40</u>	<u>60</u>	

Rec Total 210' BHT 137' Gravity _____ API RW .5 @ 100 °F Chlorides 8500 ppm
 (A) Initial Hydrostatic 2054 Test 1250 T-On Location 8:30 AM
 (B) First Initial Flow 25 Jars 250 T-Started 8:49 AM
 (C) First Final Flow 93 Safety Joint 75 T-Open 10:57 AM
 (D) Initial Shut-In 1249 Circ Sub _____ T-Pulled 1:57 PM
 (E) Second Initial Flow 95 Hourly Standby _____ T-Out 4:10 PM
 (F) Second Final Flow 125 Mileage 116 RT 179.80 Comments Loaded tools @ 6:00 pm 8-25-14
 (G) Final Shut-In 1230 Sampler _____ 179.80
 (H) Final Hydrostatic 2013 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 800
 Final Flow 300 Day Standby Xchange 1d 1.75h Total 2734.60
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1934.60

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.