



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Virginia #1-11

11-1s-36w Rawlins,KS

Start Date: 2014.08.01 @ 15:00:30

End Date: 2014.08.01 @ 22:06:00

Job Ticket #: 58922 DST #: 1

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

Printed: 2014.08.06 @ 13:45:05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

11-1s-36w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 58922

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2014.08.01 @ 15:00:30

GENERAL INFORMATION:

Formation: **LKC A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:14:50

Time Test Ended: 22:06:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 77

Interval: 4120.00 ft (KB) To 4270.00 ft (KB) (TVD)

Reference Elevations: 3222.00 ft (KB)

Total Depth: 4270.00 ft (KB) (TVD)

3211.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8898 Outside

Press@RunDepth: 104.70 psig @ 4252.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.01

End Date:

2014.08.01

Last Calib.:

2014.08.01

Start Time: 15:00:31

End Time:

22:06:00

Time On Btm:

2014.08.01 @ 17:14:40

Time Off Btm:

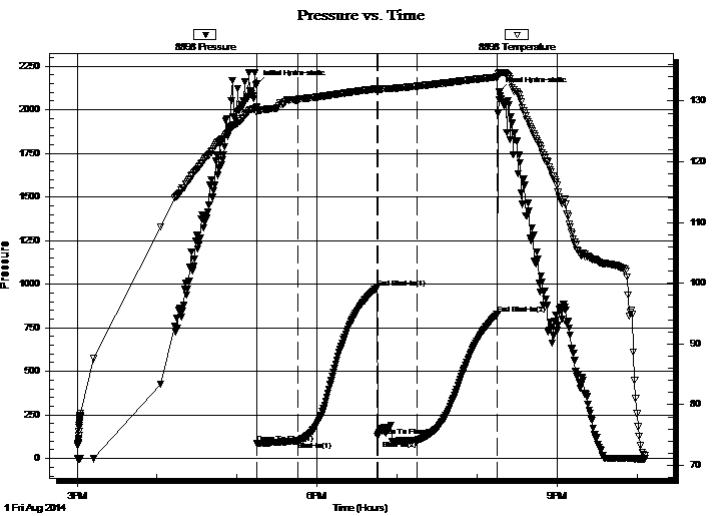
2014.08.01 @ 20:16:50

TEST COMMENT: Weak surface blow built to 1/2 in

Dead no blow back

Dead no blow

Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2146.38	128.98	Initial Hydro-static
1	86.06	128.05	Open To Flow (1)
31	99.29	130.12	Shut-In(1)
91	976.93	132.00	End Shut-In(1)
91	128.69	131.67	Open To Flow (2)
121	104.70	132.45	Shut-In(2)
181	829.27	133.95	End Shut-In(2)
183	2103.87	134.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	OCM 30%O 70%M	0.27

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

11-1s-36w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 58922

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2014.08.01 @ 15:00:30

Tool Information

Drill Pipe:	Length: 3910.00 ft	Diameter: 3.80 inches	Volume: 54.85 bbl	Tool Weight: 2200.00 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: 99000.00 lb
			<u>Total Volume: 55.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4120.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	150.00 ft			
Tool Length:	177.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4098.00	
Hydraulic tool	5.00			4103.00	
Jars	5.00			4108.00	
Safety Joint	2.00			4110.00	
Packer	5.00			4115.00	27.00 Bottom Of Top Packer
Packer	5.00			4120.00	
Stubb	1.00			4121.00	
Perforations	4.00			4125.00	
Change Over Sub	1.00			4126.00	
Drill Pipe	125.00			4251.00	
Change Over Sub	1.00			4252.00	
Recorder	0.00	8897	Inside	4252.00	
Recorder	0.00	8898	Outside	4252.00	
Perforations	15.00			4267.00	
Bullnose	3.00			4270.00	150.00 Bottom Packers & Anchor

Total Tool Length: 177.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

11-1s-36w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 58922

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2014.08.01 @ 15:00:30

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: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	OCM 30%O 70%M	0.270

Total Length: 55.00 ft Total Volume: 0.270 bbl

Num Fluid Samples: 0

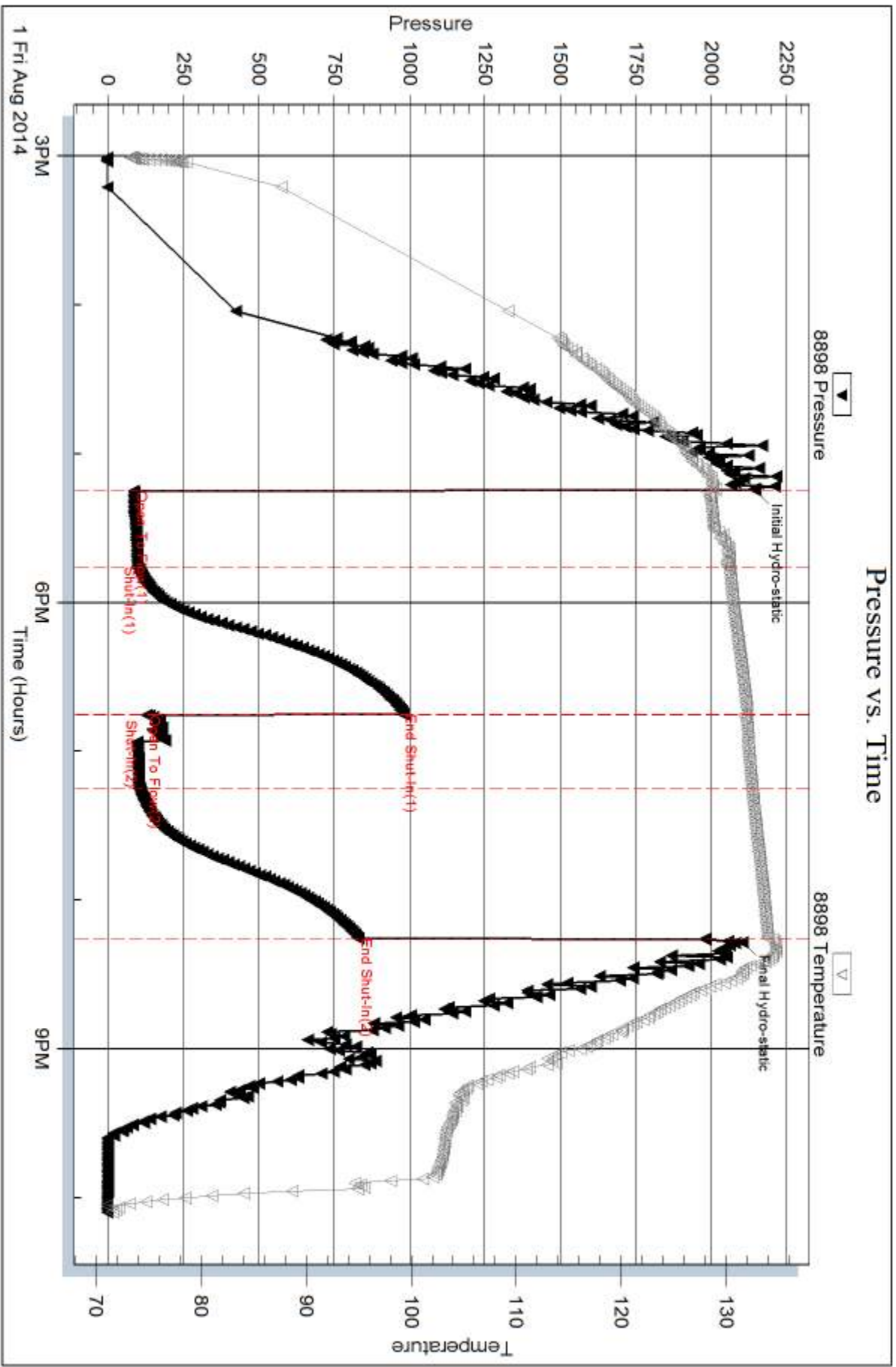
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



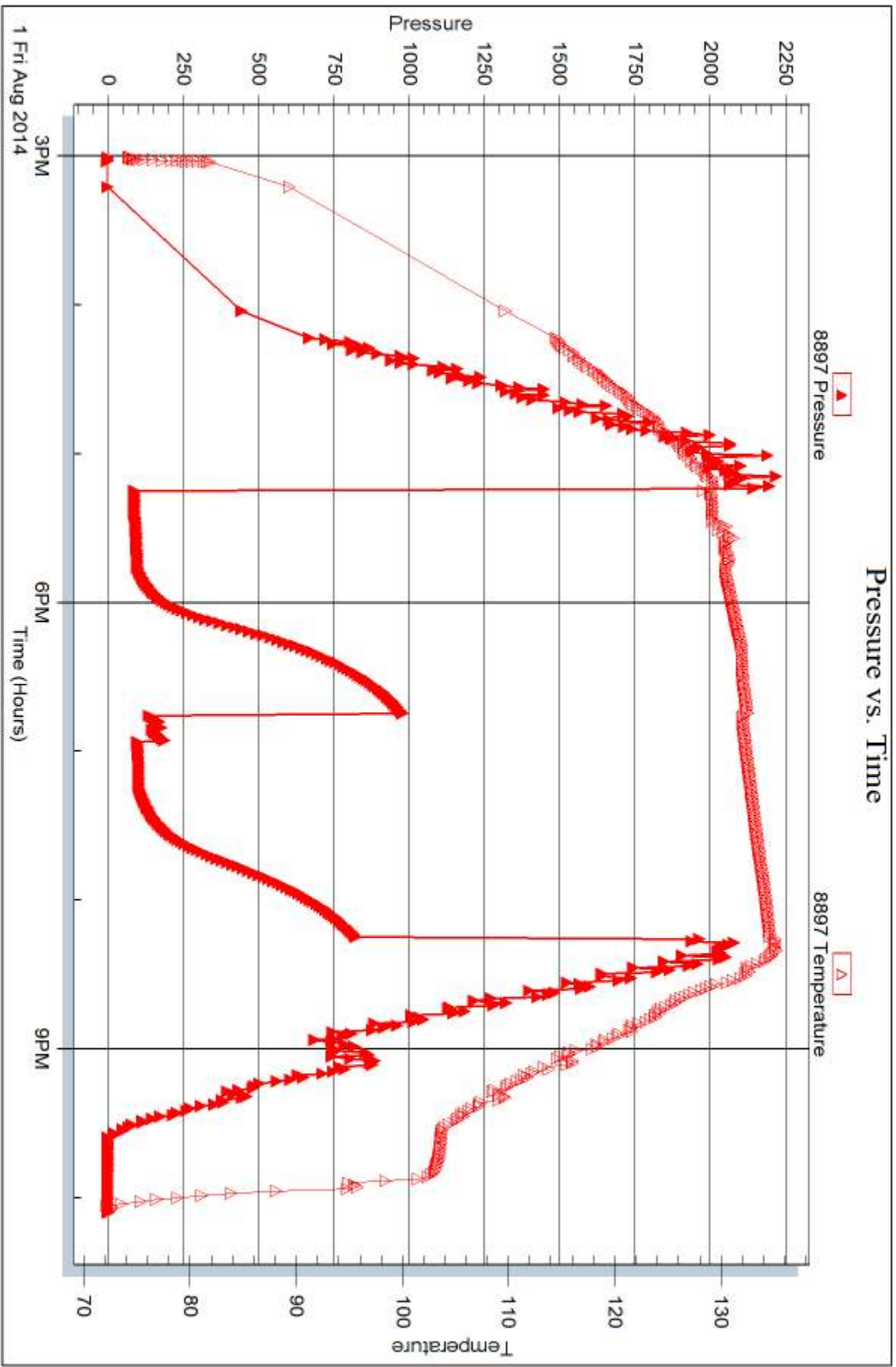
Serial #: 8897

Inside

Murfin Drilling Company

Virginia #1-11

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58922

Printed: 2014.08.06 @ 13:45:06



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Virginia #1-11

11-1s-36w Rawlins,KS

Start Date: 2014.08.02 @ 06:38:43

End Date: 2014.08.02 @ 13:21:03

Job Ticket #: 58923 DST #: 2

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

Printed: 2014.08.06 @ 13:44:45



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

11-1s-36w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 58923

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2014.08.02 @ 06:38:43

GENERAL INFORMATION:

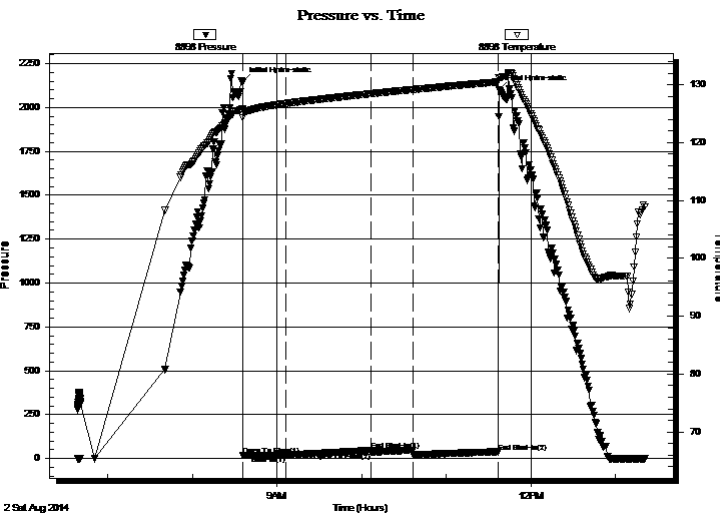
Formation: **LKC "G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:35:53
 Time Test Ended: 13:21:03
 Interval: **4252.00 ft (KB) To 4310.00 ft (KB) (TVD)**
 Total Depth: 4310.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Tate Lang
 Unit No: 77
 Reference Elevations: 3222.00 ft (KB)
 3211.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8898

Outside

Press@RunDepth: 48.41 psig @ 4292.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.02 End Date: 2014.08.02 Last Calib.: 2014.08.02
 Start Time: 06:38:44 End Time: 13:21:03 Time On Btm: 2014.08.02 @ 08:35:43
 Time Off Btm: 2014.08.02 @ 11:37:33

TEST COMMENT: Weak surface blow built to 1/4 in
 Dead no blow back
 Dead no blow
 Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2144.69	125.76	Initial Hydro-static
1	20.58	124.29	Open To Flow (1)
31	20.72	126.73	Shut-In(1)
91	46.44	128.43	End Shut-In(1)
91	35.51	128.42	Open To Flow (2)
121	48.41	129.15	Shut-In(2)
182	38.72	130.48	End Shut-In(2)
182	2103.41	131.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	VSOCM 5%O 95%M	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

11-1s-36w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 58923

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2014.08.02 @ 06:38:43

Tool Information

Drill Pipe:	Length: 4036.00 ft	Diameter: 3.80 inches	Volume: 56.61 bbl	Tool Weight: 2200.00 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: 90000.00 lb
			<u>Total Volume: 57.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 83000.00 lb
Depth to Top Packer:	4252.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	85.00 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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Shut In Tool	5.00			4230.00	
Hydraulic tool	5.00			4235.00	
Jars	5.00			4240.00	
Safety Joint	2.00			4242.00	
Packer	5.00			4247.00	27.00 Bottom Of Top Packer
Packer	5.00			4252.00	
Stubb	1.00			4253.00	
Perforations	5.00			4258.00	
Change Over Sub	1.00			4259.00	
Drill Pipe	32.00			4291.00	
Change Over Sub	1.00			4292.00	
Recorder	0.00	8897	Inside	4292.00	
Recorder	0.00	8898	Outside	4292.00	
Perforations	15.00			4307.00	
Bullnose	3.00			4310.00	58.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

11-1s-36w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 58923

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2014.08.02 @ 06:38:43

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: 74.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	VSOCM 5%O 95%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

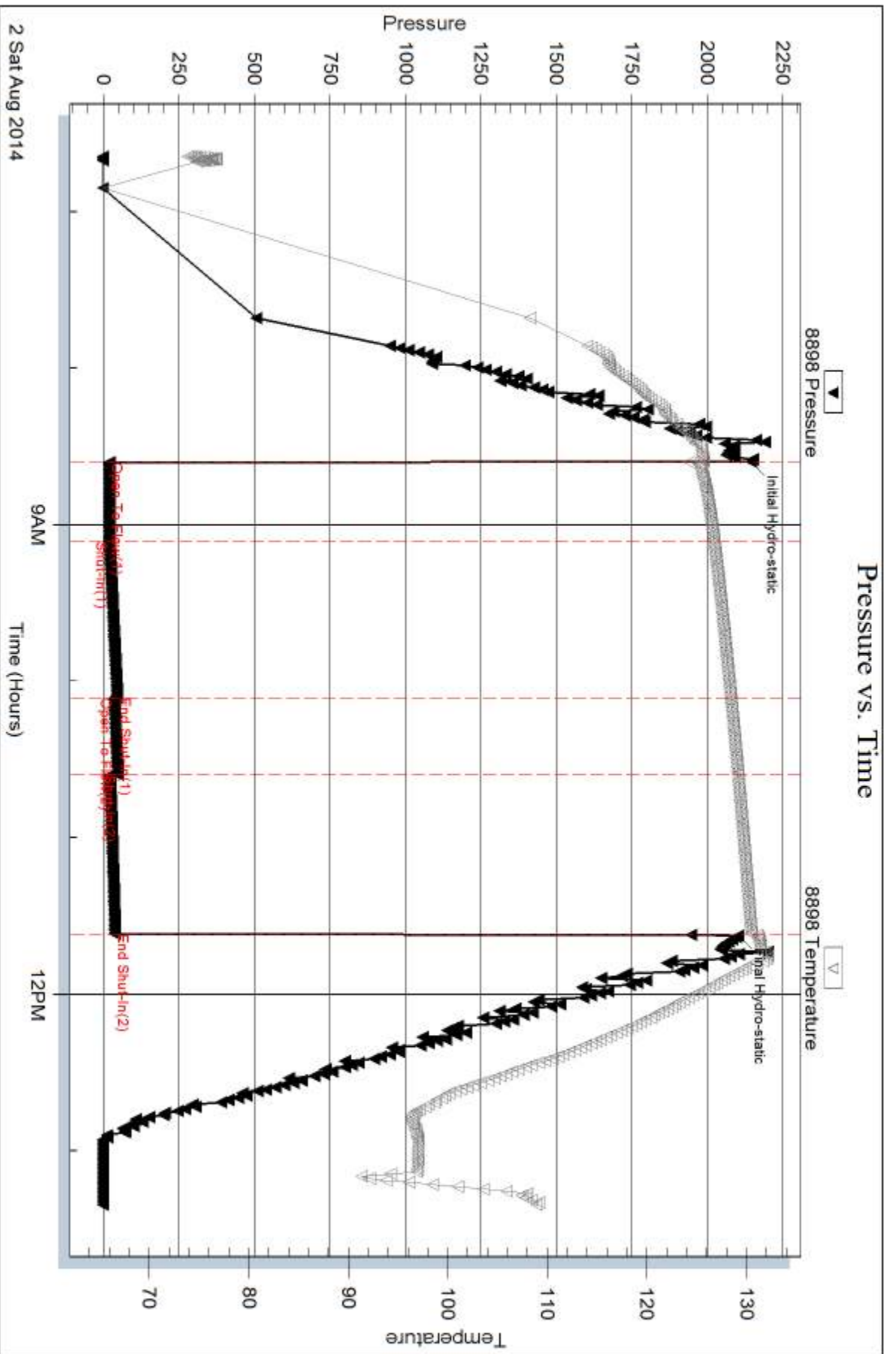
Num Gas Bombs: 0

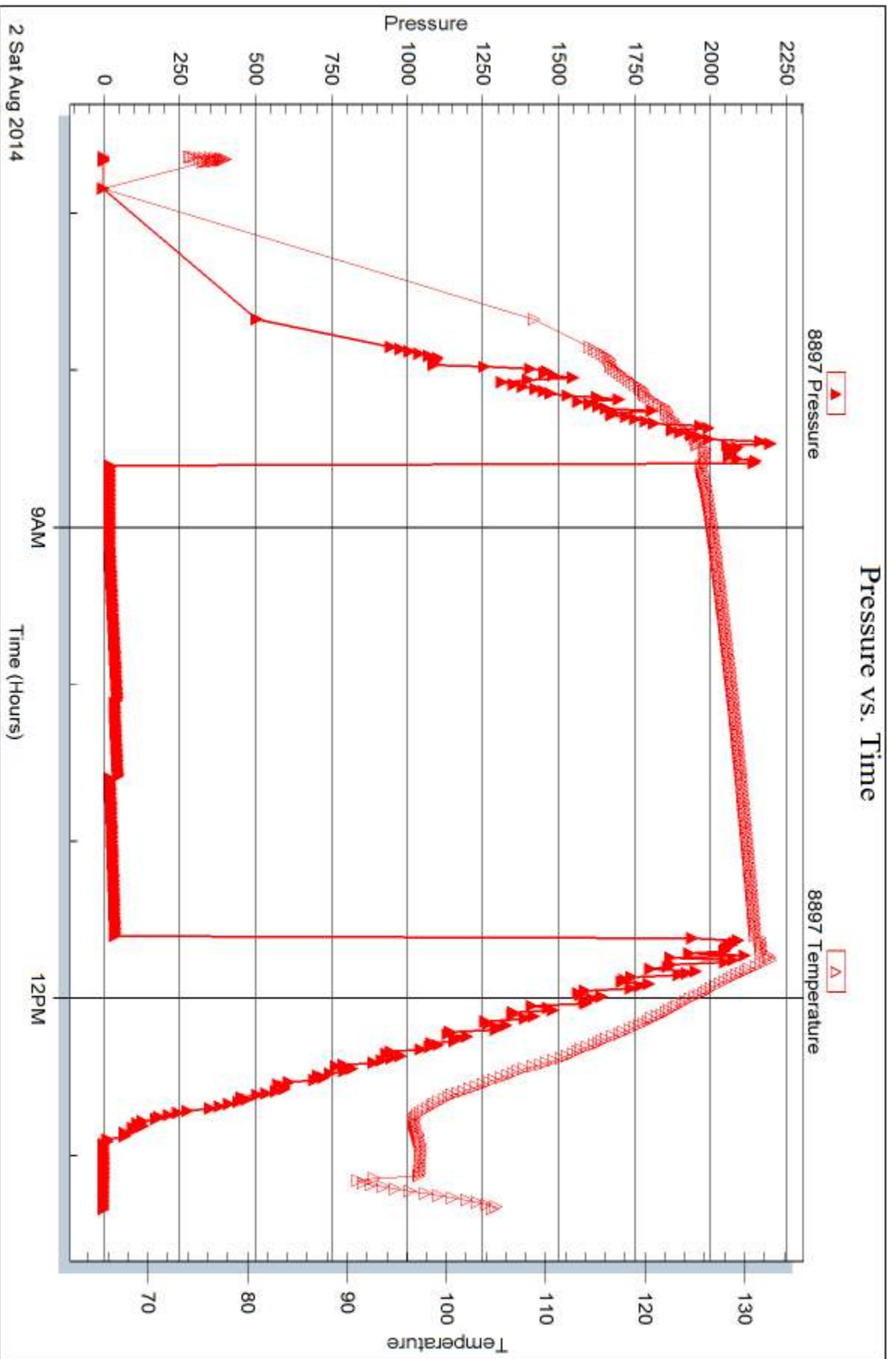
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 300
Wichita KS 67202

ATTN: Saman Sharifaie

Virginia #1-11

11-1s-36w Rawlins,KS

Start Date: 2014.08.03 @ 01:25:00

End Date: 2014.08.03 @ 10:09:00

Job Ticket #: 55903 DST #: 3

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

Printed: 2014.08.06 @ 13:43:50



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company

11-1s-36w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 55903

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2014.08.03 @ 01:25:00

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:46:30

Time Test Ended: 10:09:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4348.00 ft (KB) To 4410.00 ft (KB) (TVD)

Reference Elevations: 3222.00 ft (KB)

Total Depth: 4410.00 ft (KB) (TVD)

3211.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8874 Inside

Press@RunDepth: 51.56 psig @ 4349.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.03

End Date:

2014.08.03

Last Calib.: 2014.08.03

Start Time: 01:26:00

End Time:

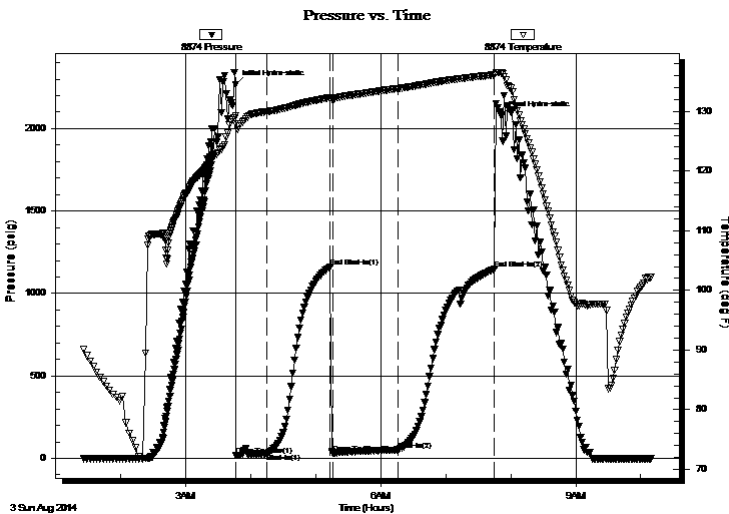
10:09:00

Time On Btm: 2014.08.03 @ 03:46:00

Time Off Btm: 2014.08.03 @ 07:51:30

TEST COMMENT: 30 - IF- Surface Blow built to 1"
60 - IS- No Return
30 - FF- Surface Blow built to 2"
60 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2265.38	129.31	Initial Hydro-static
1	18.41	127.89	Open To Flow (1)
29	28.62	129.95	Shut-In(1)
88	1161.60	132.30	End Shut-In(1)
90	31.57	132.01	Open To Flow (2)
150	51.56	133.81	Shut-In(2)
239	1146.95	136.11	End Shut-In(2)
246	2079.35	136.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCO 50M 50o	0.30
15.00	Free Oil 10G 90o	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

11-1s-36w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 55903

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2014.08.03 @ 01:25:00

Tool Information

Drill Pipe:	Length: 4130.00 ft	Diameter: 3.80 inches	Volume: 57.93 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: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 58.96 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4348.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	90.00 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			4321.00	
Shut In Tool	5.00			4326.00	
Hydraulic tool	5.00			4331.00	
Jars	5.00			4336.00	
Safety Joint	3.00			4339.00	
Packer	5.00			4344.00	28.00 Bottom Of Top Packer
Packer	4.00			4348.00	
Stubb	1.00			4349.00	
Recorder	0.00	8653	Outside	4349.00	
Recorder	0.00	8874	Inside	4349.00	
Perforations	23.00			4372.00	
Change Over Sub	1.00			4373.00	
Drill Pipe	31.00			4404.00	
Change Over Sub	1.00			4405.00	
Bullnose	5.00			4410.00	62.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

11-1s-36w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Virginia #1-11

Job Ticket: 55903

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2014.08.03 @ 01:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	MCO 50M 50o	0.295
15.00	Free Oil 10G 90o	0.074

Total Length: 75.00 ft Total Volume: 0.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

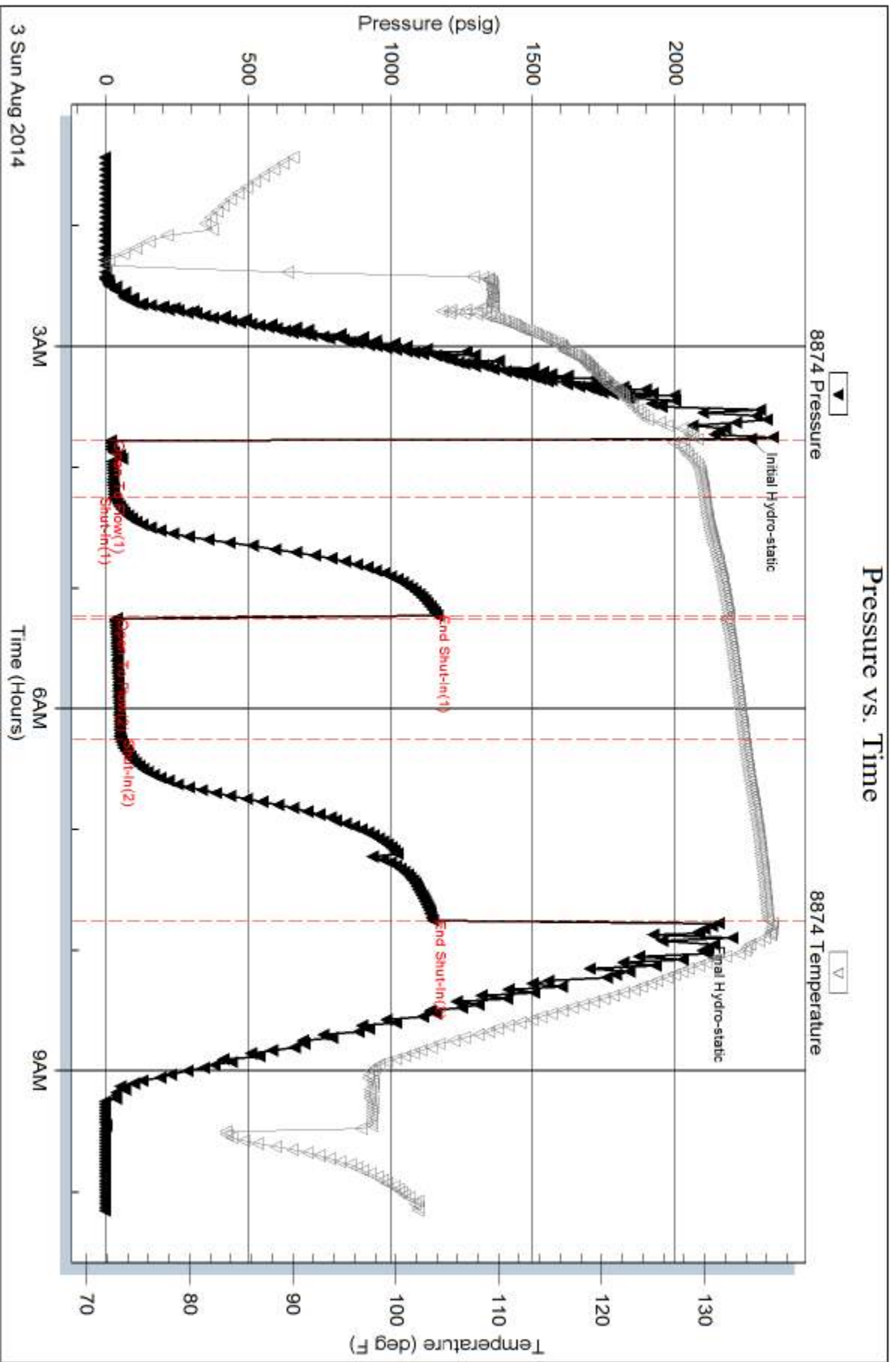
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 37 @ 100 deg = 33 corrected

Pressure vs. Time

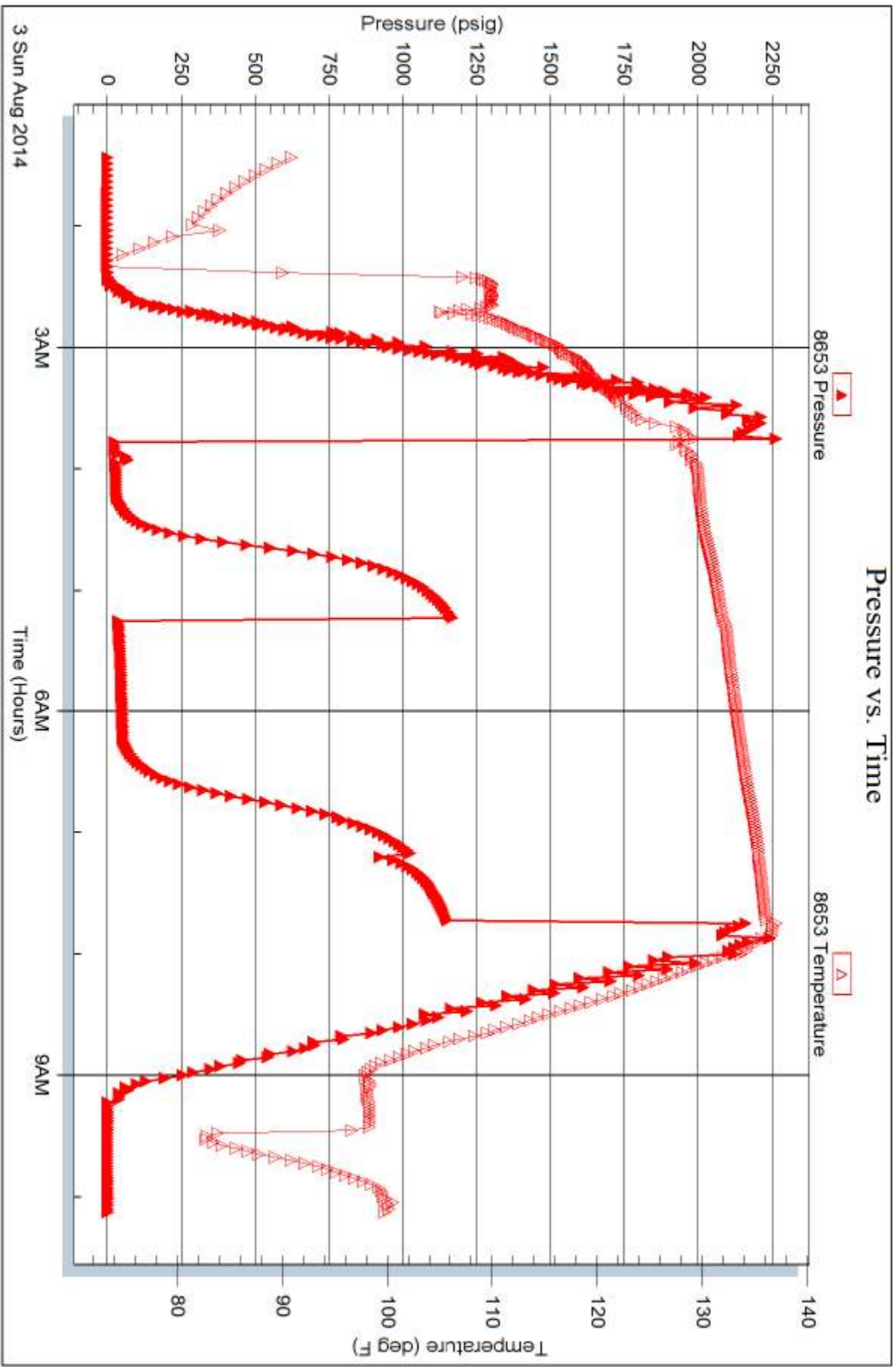


Serial #: 8653

Outside Murfin Drilling Company

Virginia #1-11

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 55903

Printed: 2014.08.06 @ 13:43:52



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58922

4/10

Well Name & No. Virginice "A" #1-11 Test No. 1 Date 8-1-14
 Company Murfin Drilling Company Elevation 3222 KB 3211 GL
 Address 250 N Water STE 300 Wichita KS 67202
 Co. Rep / Geo. Samir Sharifaie Rig Murfin #2
 Location: Sec. 11 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 4120 4270 Zone Tested LKC A-D
 Anchor Length 150 Drill Pipe Run 3910 Mud Wt. 9.0
 Top Packer Depth 4115 Drill Collars Run 206 Vis 62
 Bottom Packer Depth 4120 Wt. Pipe Run 0 WL 8.0
 Total Depth 4270 Chlorides 700 ppm System LCM 10#

Blow Description Weak surface blow built to 1/2 in
Dead no blow back
Dead no blow
Dead no blow back

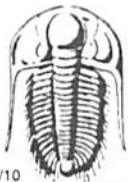
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>55</u>	Feet of <u>OCM</u>	%gas	<u>30</u> %oil	%water	<u>70</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 55 BHT 133 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2146 Test 1150 T-On Location 1220
 (B) First Initial Flow 86 Jars 250 T-Started 1500
 (C) First Final Flow 99 Safety Joint 75 T-Open 1715
 (D) Initial Shut-In 977 Circ Sub _____ T-Pulled 2015
 (E) Second Initial Flow 129 Hourly Standby _____ T-Out 2206
 (F) Second Final Flow 105 Mileage 333 RT! 176.70 Comments _____
 (G) Final Shut-In 829 Sampler _____
 (H) Final Hydrostatic 2104 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1651.70
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1651.70

Approved By _____ Our Representative Samir Sharifaie

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. 58923

Well Name & No. Virginia "A" #1-11 Test No. 2 Date 8-2-14
 Company Murfin Drilling Company Elevation 3222 KB 3211 GL
 Address 250 N Water St 300 Wichita KS 67202
 Co. Rep / Geo. Soram Rig Murfin #2
 Location: Sec. 11 Twp. 15 Rge. 36W Co. Rawlins State KS

Interval Tested 4252 4310 Zone Tested LHC "G"
 Anchor Length 58 Drill Pipe Run 4036 Mud Wt. 8.8
 Top Packer Depth 4247 Drill Collars Run 206 Vis 7.4
 Bottom Packer Depth 4252 Wt. Pipe Run 0 WL 8.0
 Total Depth 4310 Chlorides 700 ppm System LCM 9.7

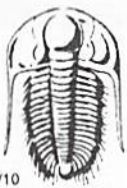
Blow Description Weak surface blow built to 1/4 in
Dead No blow back
Dead No blow
Dead No blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>5</u>	Feet of <u>1500M</u>	%gas	<u>5</u> %oil	%water	<u>95</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>5</u>	%gas	%oil	%water	%mud

Rec Total 5 BHT 129 Gravity 1150 API RW 250 @ 75 °F Chlorides 700 ppm

(A) Initial Hydrostatic 2145 Test 1150 T-On Location 0535
 (B) First Initial Flow 21 Jars 250 T-Started 0638
 (C) First Final Flow 21 Safety Joint 75 T-Open 0835
 (D) Initial Shut-In 46 Circ Sub _____ T-Pulled 1135
 (E) Second Initial Flow 36 Hourly Standby _____ T-Out 1321
 (F) Second Final Flow 48 Mileage 176.70 Comments Loaded
 (G) Final Shut-In 39 Sampler _____ after test
 (H) Final Hydrostatic 2103 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1651.70
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1651.70

Approved By _____ Our Representative [Signature]
 Triobite 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.



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55903**

Well Name & No. Virginia 'A' #1-11 Test No. 3 Date 8-3-14
 Company Murfin Drilling Co, Inc. Elevation 3222 KB 3211 GL
 Address 2502 N Wenter STE # 3000 Wichita, KS 67202
 Co. Rep / Geo. Samra Sharifovic Rig Murfin #2
 Location: Sec. 11 Twp. 1S Rge. 36W Co. Rawlins State KS

Interval Tested 4348-4410 Zone Tested LKC "J"
 Anchor Length 62' Drill Pipe Run 4130' Mud Wt. 9.2
 Top Packer Depth 4344 Drill Collars Run 210' Vis 64
 Bottom Packer Depth 4348 Wt. Pipe Run 0 WL 7.6
 Total Depth 4410 Chlorides 700 ppm System LCM 10#
 Blow Description IF- Surface Blow built to 1"
ISI- No Return
FF- Blow built to 2"
FSI- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	Feet of <u>Free Oil</u>	<u>100</u>	<u>900</u>		
<u>60</u>	Feet of <u>MCO</u>		<u>50</u>		<u>50</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 75' BHT 136 Gravity 33 API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>2265</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>12:00 AM</u>
(B) First Initial Flow <u>18'</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1:25 AM</u>
(C) First Final Flow <u>28</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>3:45 AM</u>
(D) Initial Shut-In <u>1161</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>7:45 AM</u>
(E) Second Initial Flow <u>31</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:09 AM</u>
(F) Second Final Flow <u>57</u>	<input checked="" type="checkbox"/> Mileage <u>114 RT</u> X2 353.40	Comments <u>Oil API</u>
(G) Final Shut-In <u>1146</u>	<input type="checkbox"/> Sampler	<u>370 100 deg.</u>
(H) Final Hydrostatic <u>2079</u>	<input type="checkbox"/> Straddle	<u>Was released at</u>
	<input type="checkbox"/> Shale Packer	<u>800 AM 8-5-14</u>
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Flow <u>60</u>	<input checked="" type="checkbox"/> Day Standby <u>X 1.5 1d 22h</u>	<input type="checkbox"/> Extra Copies
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	Sub Total <u>800</u>
	Sub Total <u>1928.40</u>	Total <u>2728.40</u>

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