

DRILL STEM TEST REPORT

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

250 North Water Suite 300
Wichita, KS 67202

ATTN: Shauna Gunzelman//Je

Youngmeyer A #1-11

11-29S-8E Elk,KS

Start Date: 2017.06.12 @ 15:59:00

End Date: 2017.06.12 @ 23:40:50

Job Ticket #: 63577 DST #: 1

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

Printed: 2017.06.20 @ 09:18:28

Murfin Drilling Co. Inc. 11-29S-8E Elk,KS Youngmeyer A #1-11 DST # 1 Hertha 2017.06.12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

11-29S-8E EIk,KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer A #1-11

Job Ticket: 63577

DST#: 1

ATTN: Shauna Gunzelman//Je

Test Start: 2017.06.12 @ 15:59:00

GENERAL INFORMATION:

Formation: **Hertha**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:16:10

Time Test Ended: 23:40:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: 2192.00 ft (KB) To 2203.00 ft (KB) (TVD)

Reference Elevations: 1548.00 ft (KB)

Total Depth: 2203.00 ft (KB) (TVD)

1539.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 9124

Inside

Press@RunDepth: 285.85 psig @ 2193.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.12

End Date:

2017.06.12

Last Calib.:

1899.12.30

Start Time: 15:59:05

End Time:

23:40:50

Time On Btm:

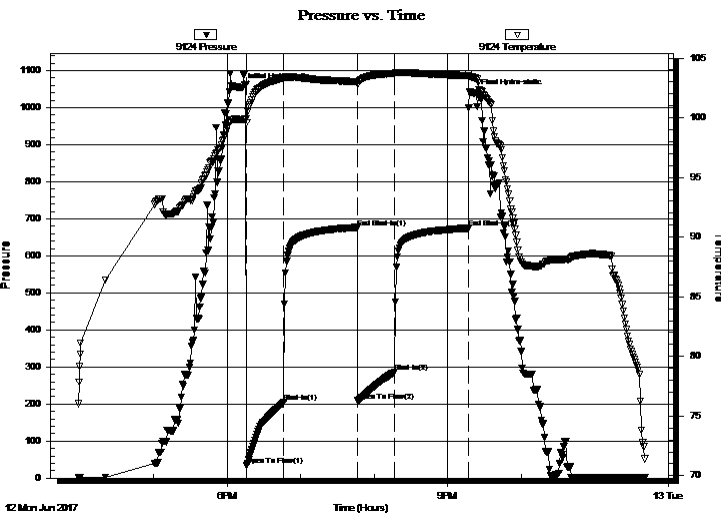
2017.06.12 @ 18:11:50

Time Off Btm:

2017.06.12 @ 21:21:50

TEST COMMENT: IF - Weak blow built to 9"

FF - Weak blow building to strong blow in 11 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1054.08	99.83	Initial Hydro-static
5	34.10	99.57	Open To Flow (1)
35	204.61	103.30	Shut-In(1)
95	676.78	103.05	End Shut-In(1)
95	208.85	102.81	Open To Flow (2)
125	285.85	103.70	Shut-In(2)
185	674.65	103.53	End Shut-In(2)
191	1038.70	103.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
560.00	Mud cut water 85% W & 15% M	5.35
15.00	Oil & heavy mud cut water 4%O 68%W	20.211

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

11-29S-8E EIk,KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer A #1-11

Job Ticket: 63577

DST#: 1

ATTN: Shauna Gunzelman//Je

Test Start: 2017.06.12 @ 15:59:00

Tool Information

Drill Pipe:	Length: 1915.00 ft	Diameter: 3.80 inches	Volume: 26.86 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 275.00 ft	Diameter: 2.25 inches	Volume: 1.35 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 28.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	2192.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	39.00 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			2165.00	
Shut In Tool	5.00			2170.00	
Hydraulic tool	5.00			2175.00	
Jars	5.00			2180.00	
Safety Joint	3.00			2183.00	
Packer	4.00			2187.00	28.00 Bottom Of Top Packer
Packer	5.00			2192.00	
Stubb	1.00			2193.00	
Recorder	0.00	8679	Outside	2193.00	
Recorder	0.00	9124	Inside	2193.00	
Perforations	5.00			2198.00	
Bullnose	5.00			2203.00	11.00 Bottom Packers & Anchor

Total Tool Length: 39.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

11-29S-8E EIk,KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer A #1-11

Job Ticket: 63577

DST#: 1

ATTN: Shauna Gunzelman//Je

Test Start: 2017.06.12 @ 15:59:00

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: 155000 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
560.00	Mud cut w ater 85% W & 15% M	5.350
15.00	Oil & heavy mud cut w ater 4%O 68%W 28%I	0.210

Total Length: 575.00 ft

Total Volume: 5.560 bbl

Num Fluid Samples: 0

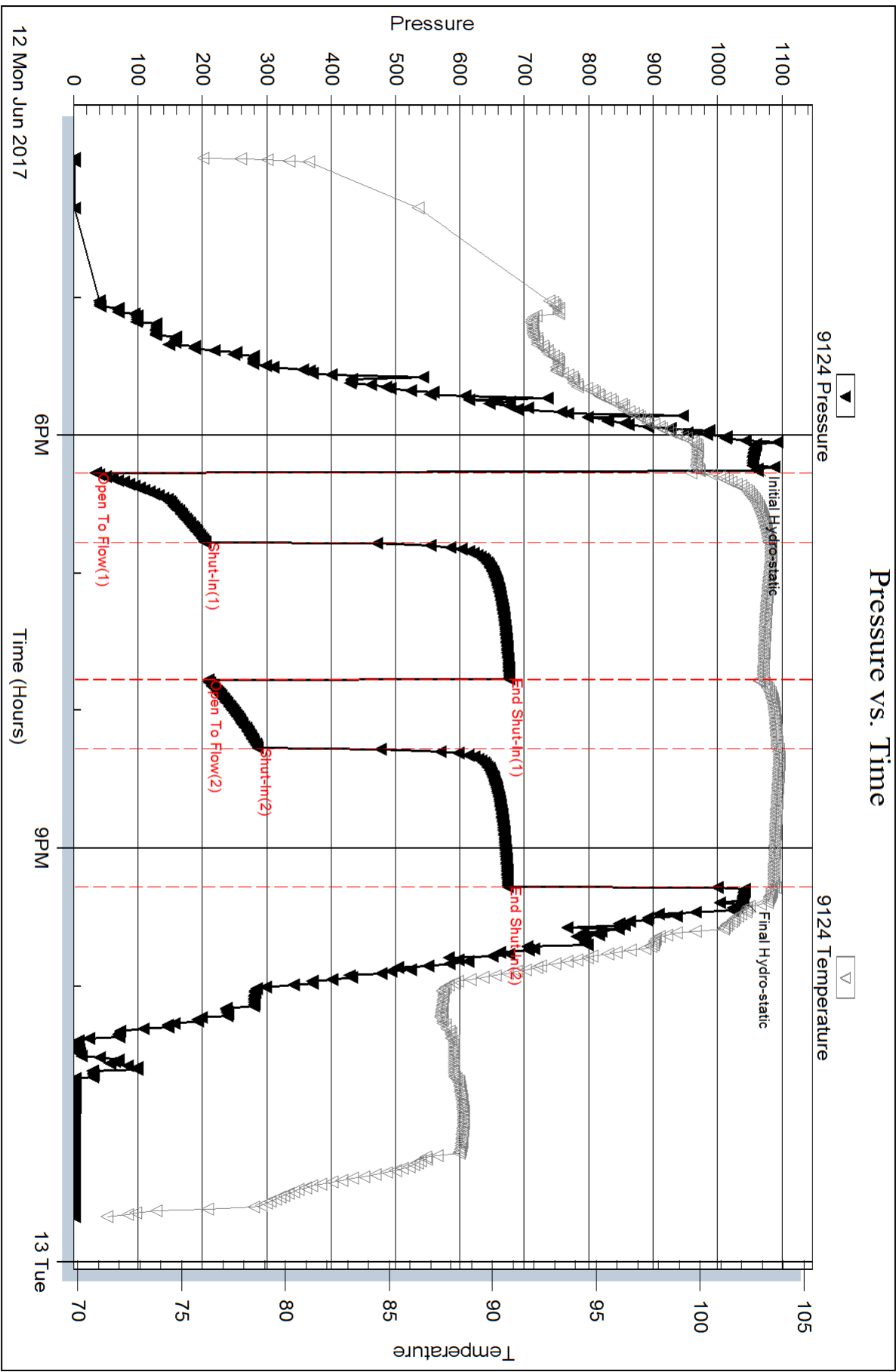
Num Gas Bombs: 0

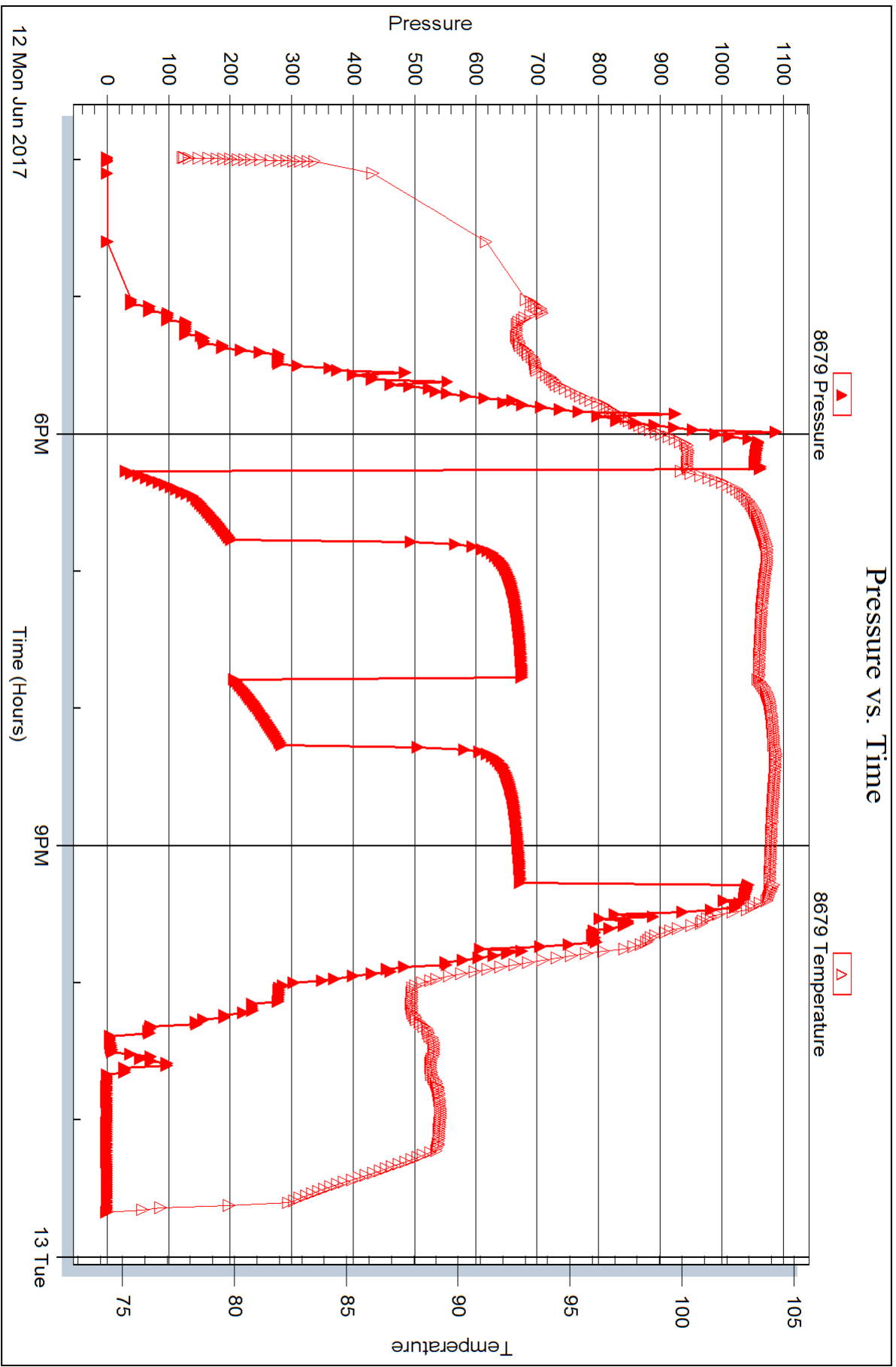
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

250 North Water Suite 300
Wichita, KS 67202

ATTN: Shauna Gunzelman//Je

Youngmeyer A #1-11

11-29S-8E Elk,KS

Start Date: 2017.06.15 @ 12:20:00

End Date: 2017.06.15 @ 22:42:30

Job Ticket #: 63578 DST #: 2

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

Printed: 2017.06.20 @ 08:37:41

Murfin Drilling Co. Inc. 11-29S-8E Elk,KS Youngmeyer A #1-11 DST # 2 Mississippian 2017.06.15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.
 250 North Water Suite 300
 Wichita, KS 67202
 ATTN: Shauna Gunzelman//Je

11-29S-8E EIk,KS
Youngmeyer A #1-11
 Job Ticket: 63578 **DST#: 2**
 Test Start: 2017.06.15 @ 12:20:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:22:00
 Time Test Ended: 22:42:30
 Interval: **2952.00 ft (KB) To 2980.00 ft (KB) (TVD)**
 Total Depth: 2980.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 80
 Reference Elevations: 1548.00 ft (KB)
 1539.00 ft (CF)
 KB to GR/CF: 9.00 ft

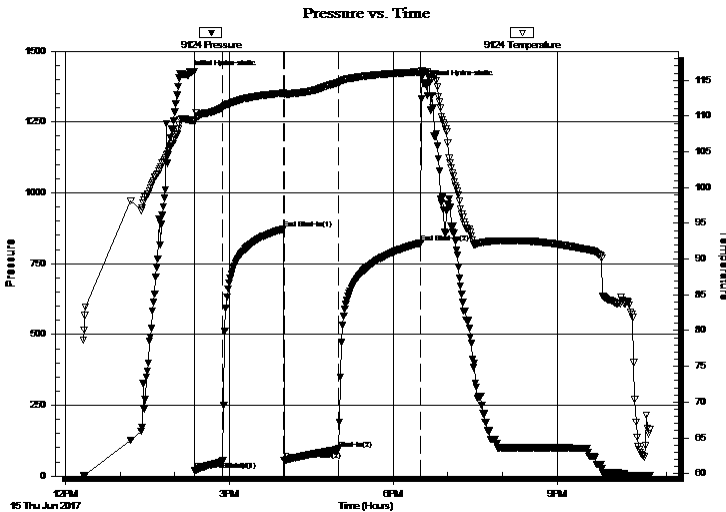
Serial #: 9124

Inside

Press@RunDepth: 94.78 psig @ 2953.00 ft (KB)
 Start Date: 2017.06.15 End Date: 2017.06.15
 Start Time: 12:20:05 End Time: 22:42:30
 Capacity: 8000.00 psig
 Last Calib.: 1899.12.30
 Time On Btm: 2017.06.15 @ 14:14:10
 Time Off Btm: 2017.06.15 @ 18:35:30

TEST COMMENT: IF - Weak blow built to 4"
 FF - Weak blow built to 3"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1415.38	109.50	Initial Hydro-static
8	20.98	109.16	Open To Flow (1)
39	50.95	111.15	Shut-In(1)
106	871.97	113.20	End Shut-In(1)
106	55.57	113.01	Open To Flow (2)
166	94.78	114.68	Shut-In(2)
257	822.74	116.17	End Shut-In(2)
262	1383.15	116.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
175.00	Slightly oil specked mud TR O 100% M	0.86

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

11-29S-8E EIK,KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer A #1-11

Job Ticket: 63578

DST#: 2

ATTN: Shauna Gunzelman//Je

Test Start: 2017.06.15 @ 12:20:00

Tool Information

Drill Pipe:	Length: 2671.00 ft	Diameter: 3.80 inches	Volume: 37.47 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 275.00 ft	Diameter: 2.25 inches	Volume: 1.35 bbl	Weight to Pull Loose: 63000.00 lb
			<u>Total Volume: 38.82 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	2952.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	56.00 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			2925.00	
Shut In Tool	5.00			2930.00	
Hydraulic tool	5.00			2935.00	
Jars	5.00			2940.00	
Safety Joint	3.00			2943.00	
Packer	4.00			2947.00	28.00 Bottom Of Top Packer
Packer	5.00			2952.00	
Stubb	1.00			2953.00	
Recorder	0.00	8679	Outside	2953.00	
Recorder	0.00	9124	Inside	2953.00	
Perforations	22.00			2975.00	
Bullnose	5.00			2980.00	28.00 Bottom Packers & Anchor

Total Tool Length: 56.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

11-29S-8E EIk,KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer A #1-11

Job Ticket: 63578

DST#: 2

ATTN: Shauna Gunzelman//Je

Test Start: 2017.06.15 @ 12:20:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
175.00	Slightly oil specked mud TR O 100% M	0.861

Total Length: 175.00 ft Total Volume: 0.861 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

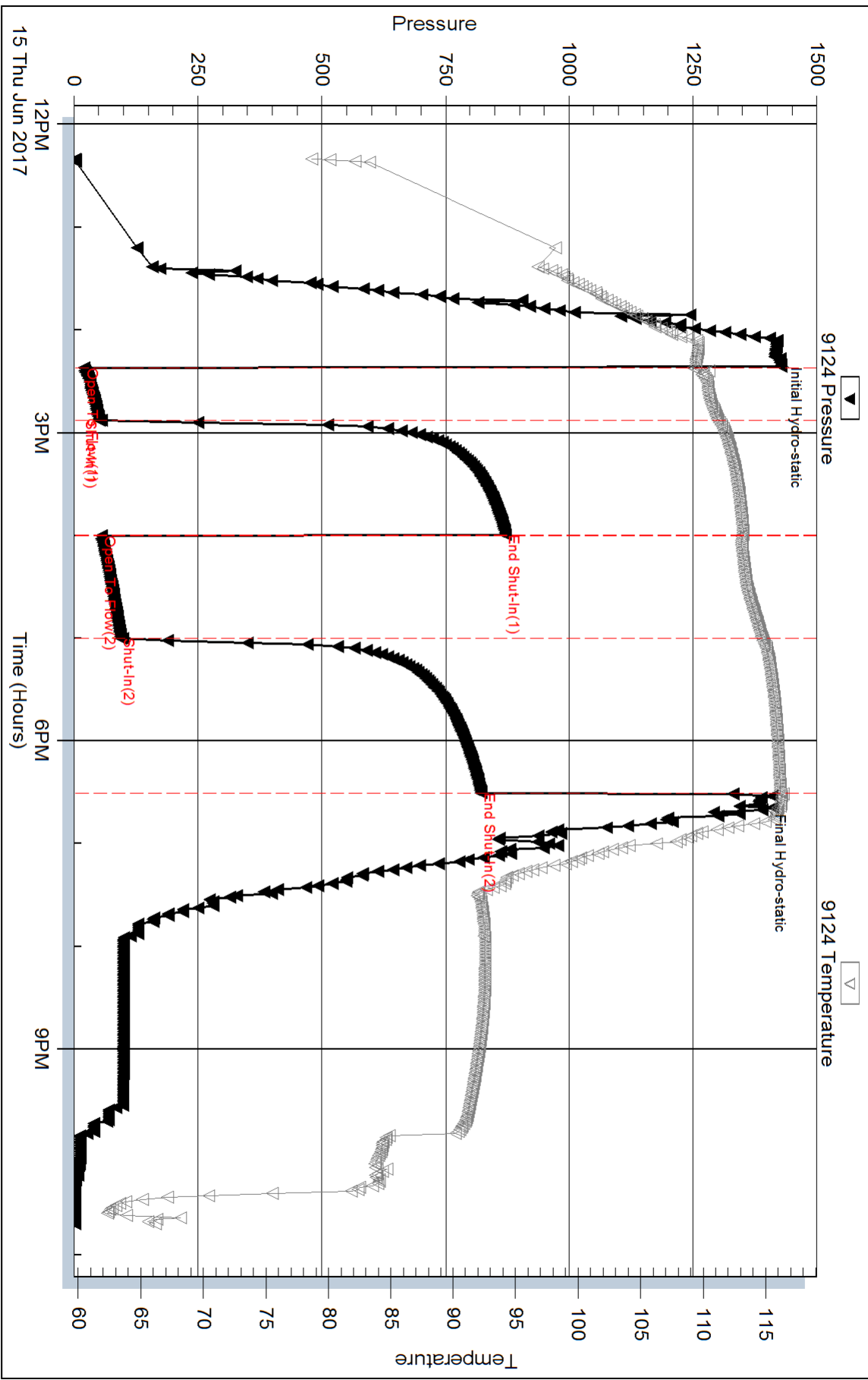
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

250 North Water Suite 300
Wichita, KS 67202

ATTN: Shauna Gunzelman//Je

Youngmeyer A #1-11

11-29S-8E Elk,KS

Start Date: 2017.06.16 @ 15:51:00

End Date: 2017.06.17 @ 00:19:39

Job Ticket #: 63579 DST #: 3

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

Printed: 2017.06.20 @ 08:36:22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

11-29S-8E EIk,KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer A #1-11

Job Ticket: 63579

DST#: 3

ATTN: Shauna Gunzelman//Je

Test Start: 2017.06.16 @ 15:51:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:57:50

Time Test Ended: 00:19:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: 3127.00 ft (KB) To 3155.00 ft (KB) (TVD)

Reference Elevations: 1548.00 ft (KB)

Total Depth: 3155.00 ft (KB) (TVD)

1539.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 9124 Inside

Press@RunDepth: 158.40 psig @ 3128.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.16

End Date:

2017.06.17

Last Calib.: 2017.06.16

Start Time: 15:51:05

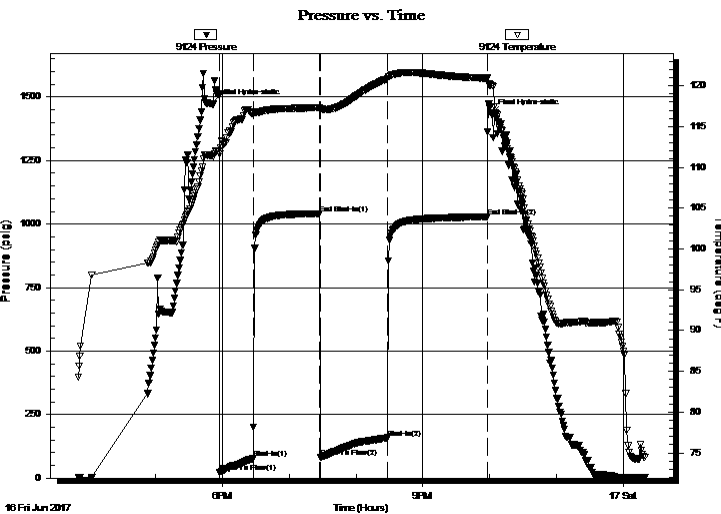
End Time:

00:19:40

Time On Btm: 2017.06.16 @ 17:50:20

Time Off Btm: 2017.06.16 @ 22:01:30

TEST COMMENT: IF - Weak blow building to 6"
FF - Weak blow building to 10"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1472.50	111.42	Initial Hydro-static
8	22.52	111.64	Open To Flow (1)
38	77.77	116.53	Shut-In(1)
98	1040.98	117.32	End Shut-In(1)
98	81.55	117.08	Open To Flow (2)
158	158.40	120.84	Shut-In(2)
248	1028.58	120.91	End Shut-In(2)
252	1432.84	120.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	Heavy water cut mud 51% M 49% W	1.91

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

11-29S-8E EIk,KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer A #1-11

Job Ticket: 63579

DST#: 3

ATTN: Shauna Gunzelman//Je

Test Start: 2017.06.16 @ 15:51:00

Tool Information

Drill Pipe:	Length: 2829.00 ft	Diameter: 3.80 inches	Volume: 39.68 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 275.00 ft	Diameter: 2.25 inches	Volume: 1.35 bbl	Weight to Pull Loose: 67000.00 lb
			<u>Total Volume: 41.03 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3127.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	56.00 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			3100.00	
Shut In Tool	5.00			3105.00	
Hydraulic tool	5.00			3110.00	
Jars	5.00			3115.00	
Safety Joint	3.00			3118.00	
Packer	4.00			3122.00	28.00 Bottom Of Top Packer
Packer	5.00			3127.00	
Stubb	1.00			3128.00	
Recorder	0.00	8679	Outside	3128.00	
Recorder	0.00	9124	Inside	3128.00	
Perforations	22.00			3150.00	
Bullnose	5.00			3155.00	28.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

11-29S-8E EIk,KS

250 North Water Suite 300
Wichita, KS 67202

Youngmeyer A #1-11

Job Ticket: 63579

DST#: 3

ATTN: Shauna Gunzelman//Je

Test Start: 2017.06.16 @ 15:51:00

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:

32000 ppm

Viscosity: 41.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
315.00	Heavy water cut mud 51% M 49% W	1.914

Total Length: 315.00 ft

Total Volume: 1.914 bbl

Num Fluid Samples: 0

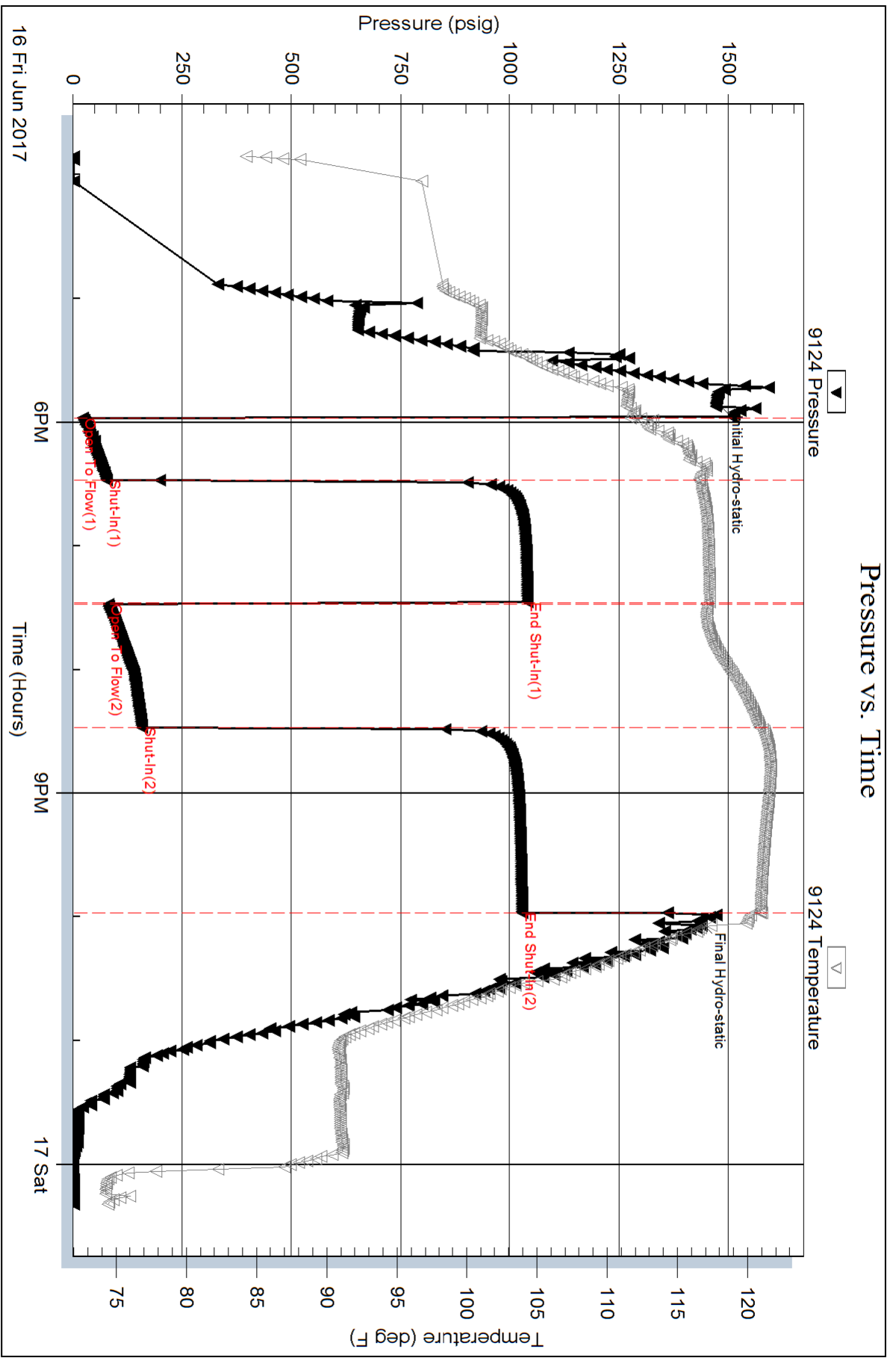
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

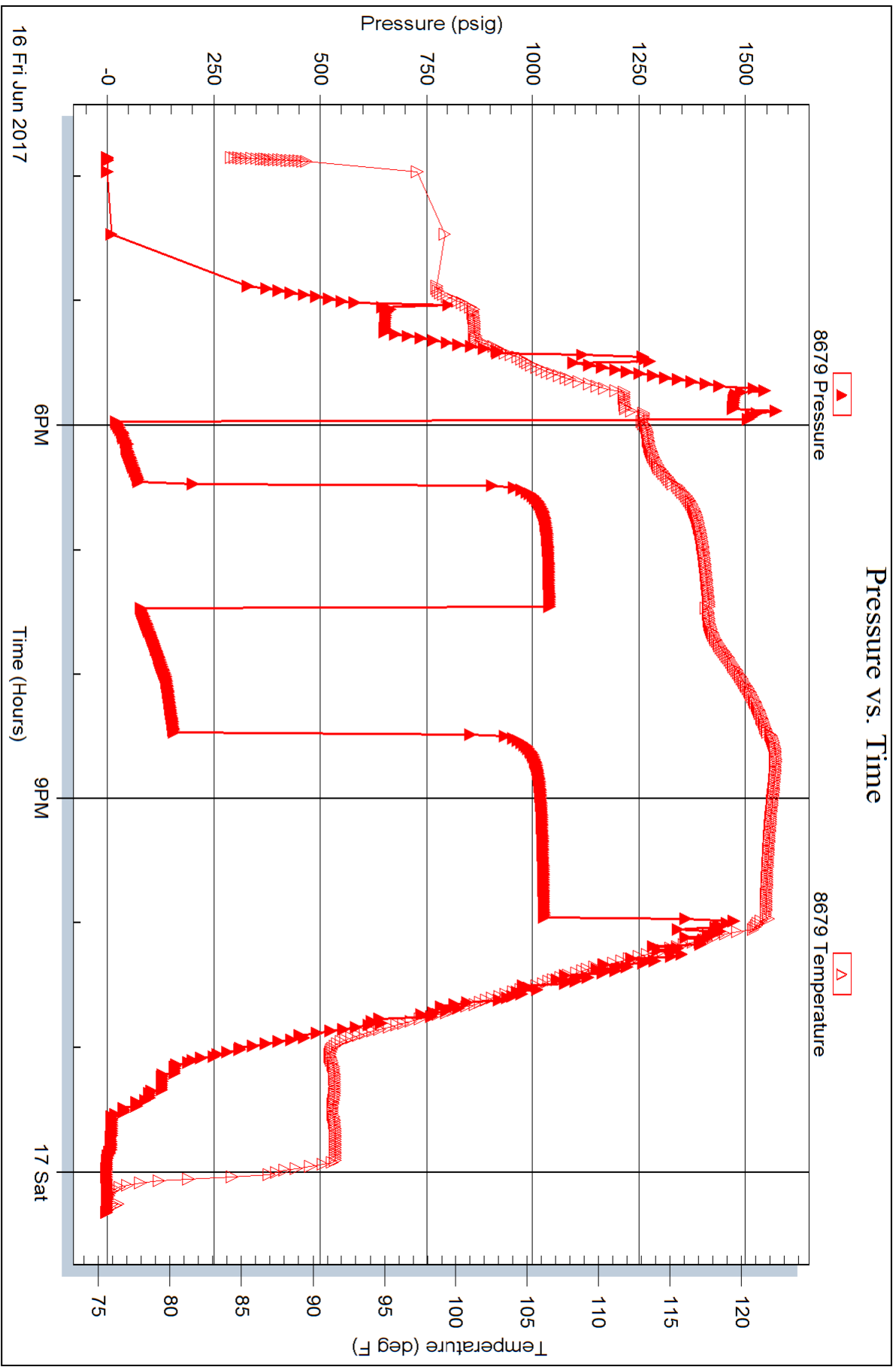


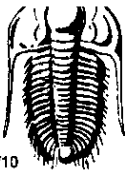
Serial #: 8679

Outside Murfin Drilling Co. Inc.

Youngmeyer A #1-11

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

tax 785-625-8620 Test Ticket

NO. 63577

Well Name & No. Youngmeyer 'A' # 1-11 Test No. 1 Date 6-12-17
 Company Martin Drilling Co. Inc. Elevation 1548 KB 1539 GL
 Address 250 North Water Suite 300 Wichita, KS. 67202
 Co. Rep / Geo. Jeff Christian / Shauna Gunzelman Rig C+G #2
 Location: Sec. 11 Twp. 29 S Rge. 8 E Co. EIK State KS.

Interval Tested 2192-2203 Zone Tested Heartha
 Anchor Length 11' Drill Pipe Run 1915 Mud Wt. 8.9
 Top Packer Depth 2187 Drill Collars Run 275 Vis 44
 Bottom Packer Depth 2192 Wt. Pipe Run 0 WL 9.2
 Total Depth 2203 Chlorides 400 ppm System LCM
 Blow Description IF-weak blow building to 9 inches IFP
FF-weak blow building to strong blow 11 minutes into FF1

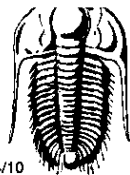
Rec	Feet of	%gas	%oil	%water	%mud
<u>560</u>	<u>Mad cut water</u>			<u>85</u>	<u>15</u>
<u>15</u>	<u>Oil + Heavy mad cut water</u>		<u>4</u>	<u>68</u>	<u>28</u>

Rec Total 575 BHT 104 Gravity API RW0.060 @ 72 °F Chlorides 155000 ppm

(A) Initial Hydrostatic <u>1054</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1415</u>
(B) First Initial Flow <u>34</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1559</u>
(C) First Final Flow <u>205</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1816</u>
(D) Initial Shut-In <u>677</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2116</u>
(E) Second Initial Flow <u>209</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2325</u>
(F) Second Final Flow <u>286</u>	<input checked="" type="checkbox"/> Mileage <u>90</u> <u>RT 120</u>	Comments
(G) Final Shut-In <u>675</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1039</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1465</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1465</u>	

Approved By [Signature] 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 of 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. 63578

Well Name & No. Youngmeyer "A" #1-11 Test No. 2 Date 6-15-17
 Company Martin Drilling Co., Inc. Elevation 1548 KB 1539 GL
 Address 250 North Water Suite 300 Wichita, KS. 67202
 Co. Rep / Geo. Shauna Gunzelman / Jeff Christian Rig C# 6 #2
 Location: Sec. 11 Twp. 29 S Rge. 8 E Co. Elk State KS

Interval Tested 2952-2980 Zone Tested Mississippian
 Anchor Length 28' Drill Pipe Run 2671 Mud Wt. 9.3
 Top Packer Depth 2947 Drill Collars Run 275 Vis 59
 Bottom Packer Depth 2952 Wt. Pipe Run 0 WL 8.4
 Total Depth 2980 Chlorides 800 ppm System LCM
 Blow Description IF-weak blow building to 4 inches -IFP
FF-weak blow building to 3 inches -FFP

Rec	Feet of	%gas	%oil	%water	%mud
<u>175</u>	<u>Very slightly oil spotted mud</u>	<u>TR</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 175 BHT 116 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1415</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1115</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1220</u>
(C) First Final Flow <u>51</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1422</u>
(D) Initial Shut-In <u>872</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1830</u>
(E) Second Initial Flow <u>56</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2230</u>
(F) Second Final Flow <u>95</u>	<input checked="" type="checkbox"/> Mileage <u>90 RT 120</u>	Comments _____
(G) Final Shut-In <u>823</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1383</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>66</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>791.67</u>
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>2256.67</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby <u>1.5d 23.75h</u>	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1465</u>	

Approved By [Signature] 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. 63579

Well Name & No. Youngmeyer "A" #1-11 Test No. 3 Date 6-16-17
 Company Murfin Drilling Co. Inc. Elevation 1548 KB 1539 GL
 Address 250 North Water Suite 300 Wichita KS, 67202
 Co. Rep / Geo Ghauna Gunzelma / Jeff Christian Rig C+G #2
 Location: Sec. 11 Twp. 29 S Rge. 8E Co. E1K State KS

Interval Tested 3127-3155 Zone Tested Arbuckle
 Anchor Length 28' Drill Pipe Run 2860 Mud Wt. 9.0
 Top Packer Depth 3122 Drill Collars Run 275 Vis 41
 Bottom Packer Depth 3127 Wt. Pipe Run 10 WL 7.6
 Total Depth 3155 Chlorides 800 ppm System LCM
 Blow Description IF - weak blow building to 6 inches IEP
FF - weak blow building to 10 inches FFP

Rec	Feet of	%gas	%oil	%water	%mud
<u>315</u>	<u>Heavy water cut mud</u>		<u>49</u>	<u>51</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 315 BHT 121 Gravity API RW 221 @ 77 °F Chlorides 32,000 ppm

(A) Initial Hydrostatic <u>1472</u>	<input checked="" type="checkbox"/> Test 1050	T-On Location <u>1510</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1551</u>
(C) First Final Flow <u>78</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>1750</u>
(D) Initial Shut-In <u>1041</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2158</u>
(E) Second Initial Flow <u>82</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0030</u>
(F) Second Final Flow <u>158</u>	<input checked="" type="checkbox"/> Mileage 90 <u>RT 120</u>	Comments
(G) Final Shut-In <u>1029</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1433</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
	<input checked="" type="checkbox"/> Shale Packer 250	<input type="checkbox"/> Extra Copies
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Total <u>1715</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	
	Sub Total <u>1715</u>	

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