



DRILL STEM TEST REPORT

Prepared For: **Charles N Griffin**

PO Box 347
Pratt, KS 67124

ATTN: Bruce Reed

Aria #1

34-29S-15W Pratt,KS

Start Date: 2019.08.06 @ 17:10:00

End Date: 2019.08.06 @ 23:26:02

Job Ticket #: 65890 DST #: 1

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

Printed: 2019.08.07 @ 11:24:20

Charles N Griffin 34-29S-15W Pratt,KS Aria #1 DST # 1 Viola 2019.08.06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Charles N Griffin

34-29S-15W Pratt, KS

PO Box 347
Pratt, KS 67124

Aria #1

Job Ticket: 65890

DST#: 1

ATTN: Bruce Reed

Test Start: 2019.08.06 @ 17:10:00

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:43:47

Time Test Ended: 23:26:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: **4670.00 ft (KB) To 4696.00 ft (KB) (TVD)**

Reference Elevations: 1999.00 ft (KB)

Total Depth: 4696.00 ft (KB) (TVD)

1989.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8672

Inside

Press@RunDepth: 19.39 psig @ 4671.00 ft (KB)

Capacity: psig

Start Date: 2019.08.06

End Date: 2019.08.06

Last Calib.: 2019.08.06

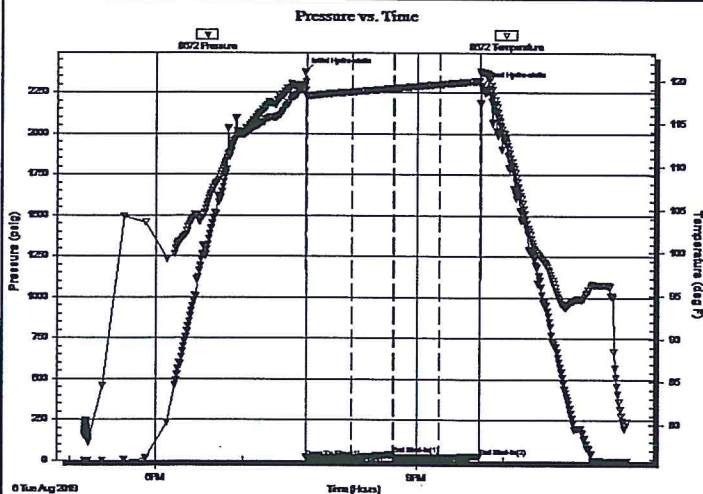
Start Time: 17:10:01

End Time: 23:26:02

Time On Btm: 2019.08.06 @ 19:42:47

Time Off Btm: 2019.08.06 @ 21:44:17

TEST COMMENT: IF: No Blow
ISI: No Blow Back
FF: No Blow
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2375.74	118.85	Initial Hydro-static
1	18.64	118.02	Open To Flow (1)
33	19.61	118.67	Shut-In(1)
61	37.96	119.08	End Shut-In(1)
62	19.32	119.09	Open To Flow (2)
93	19.39	119.57	Shut-In(2)
121	28.64	120.02	End Shut-In(2)
122	2291.57	120.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.07

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N Griffin

34-29S-15W Pratt,KS

PO Box 347
Pratt, KS 67124

Aria #1

Job Ticket: 65890

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ATTN: Bruce Reed

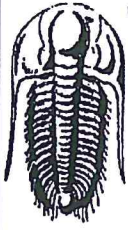
Test Start: 2019.08.06 @ 17:10:00

Tool Information

Drill Pipe:	Length: 4656.00 ft	Diameter: 3.80 inches	Volume: 65.31 bbl	Tool Weight: 2100.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 65.31 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4670.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4649.00	
Hydraulic tool	5.00			4654.00	
Jars	5.00			4659.00	
Safety Joint	2.00			4661.00	
Packer	5.00			4666.00	26.00 Bottom Of Top Packer
Packer	4.00			4670.00	
Stubb	1.00			4671.00	
Recorder	0.00	8672	Inside	4671.00	
Recorder	0.00	6751	Outside	4671.00	
Perforations	22.00			4693.00	
Bullnose	3.00			4696.00	26.00 Bottom Packers & Anchor

Total Tool Length: 52.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N Griffin

34-29S-15W Pratt,KS

PO Box 347
Pratt, KS 67124

Aria #1

Job Ticket: 65890

DST#: 1

ATTN: Bruce Reed

Test Start: 2019.08.06 @ 17:10:00

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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8672

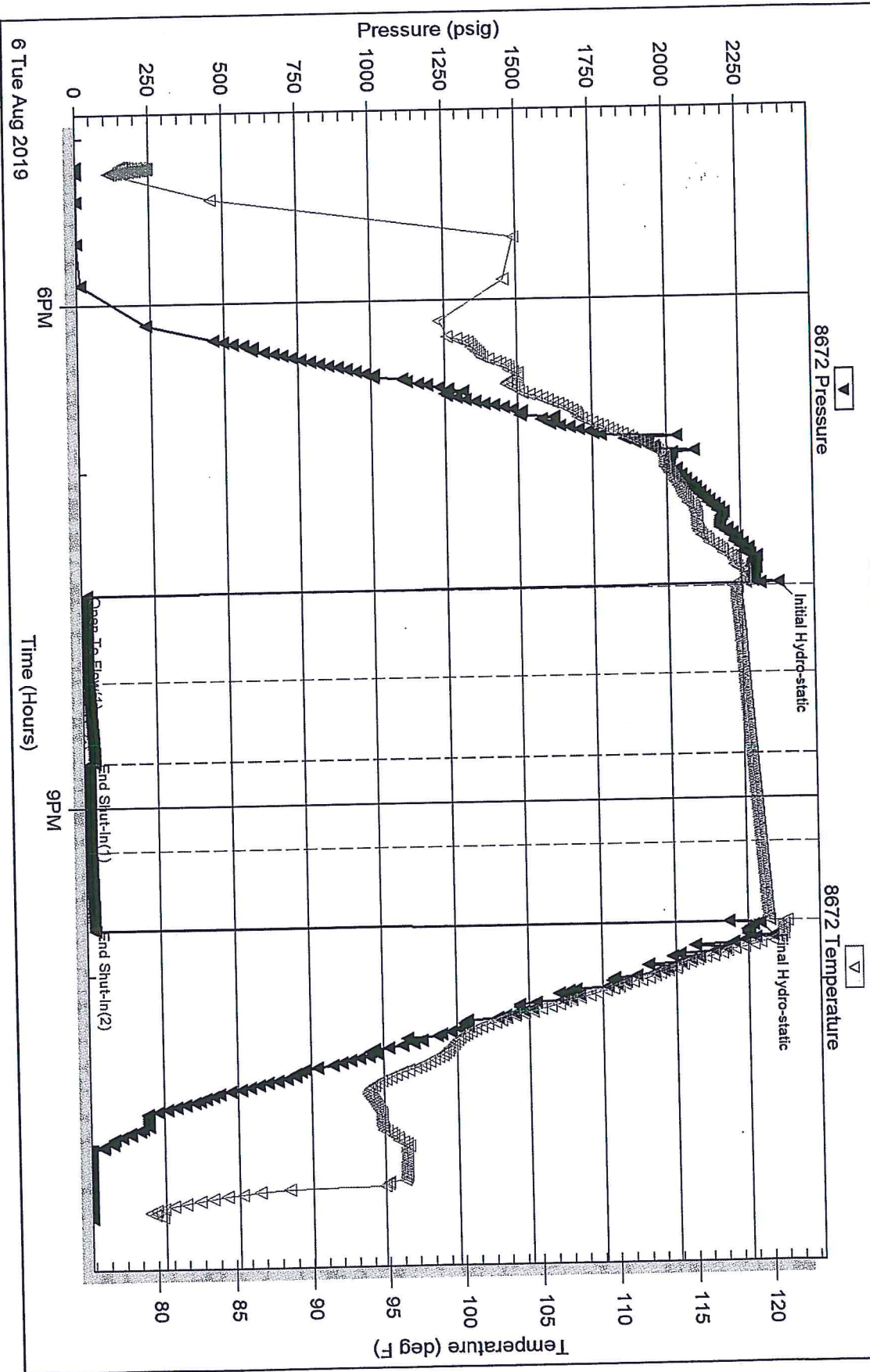
Inside

Charles N Griffin

Area #1

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 65890

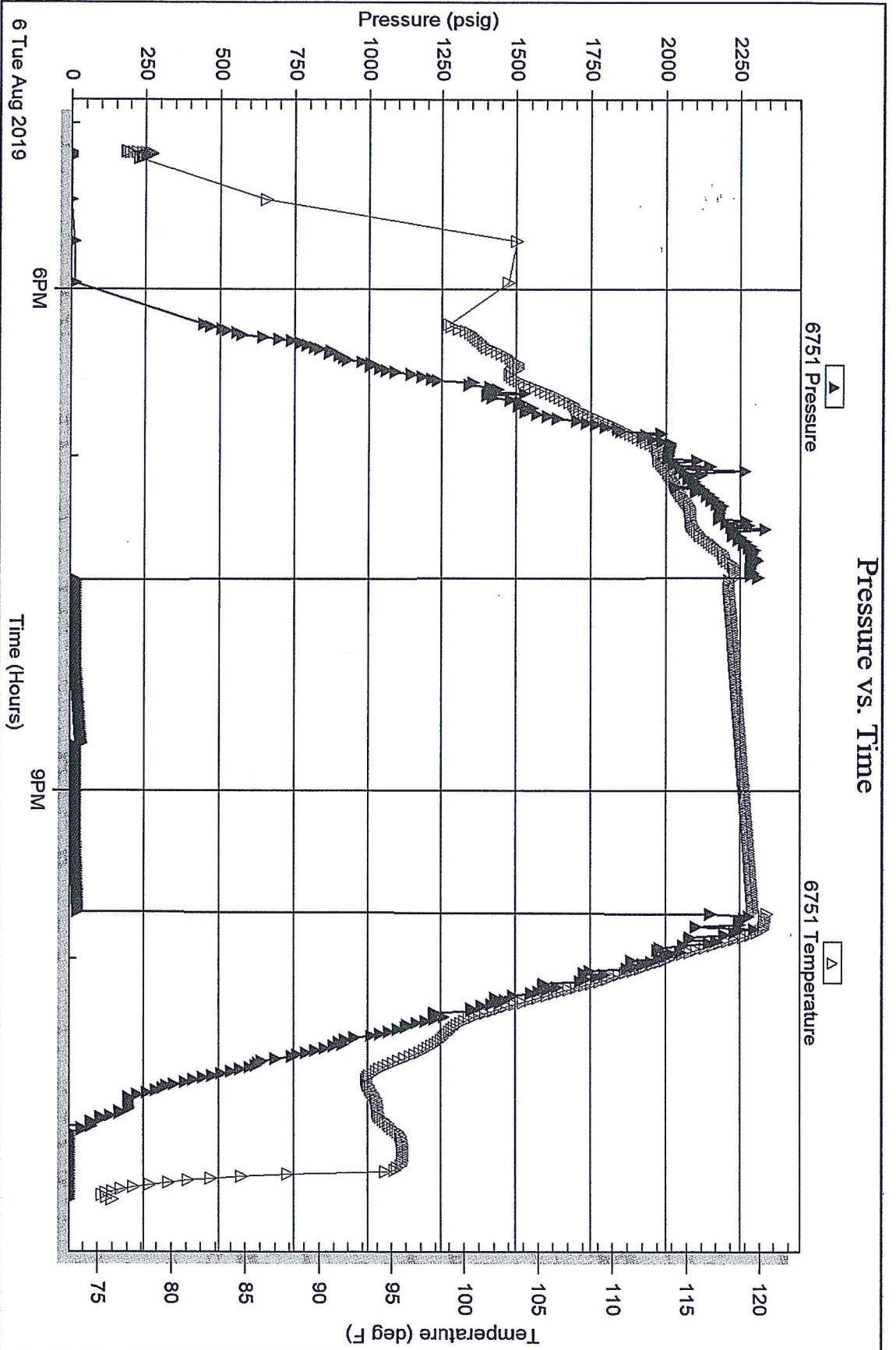
Printed: 2019.08.07 @ 11:24:21

Serial #: 6751

Outside Charles N Griffin

Aria #1

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65890

NO.

Well Name & No. Aria 1 Test No. 1 Date 08/06/19
 Company Charles N. Griffin Elevation 1999 KB 1989 GL
 Address PO BOX 347 Pratt, KS 67124
 Co. Rep / Geo. Bruce Reed Rig Fossil 3
 Location: Sec. 34 Twp 29S Rge. 15W Co. Pratt State KS

Interval Tested 4670 - 4696 Zone Tested Viola
 Anchor Length 26 Drill Pipe Run 4656 Mud Wt. 9.4
 Top Packer Depth 4665 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 4670 Wt. Pipe Run 0 WL 11.2
 Total Depth 4696 Chlorides 6000 ppm System LCM 3

Blow Description IK: NO BLOW
ISI: NO BLOW BACK
FF: NO BLOW
FSI: NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				

Rec Total 5 BHT 121 Gravity NIC API RW NIC @ NIC F Chlorides NIC ppm

(A) Initial Hydrostatic <u>2376</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>16:30</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>17:10</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>19:43</u>
(D) Initial Shut-In <u>38</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>21:43</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>23:26</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>(70)</u> <u>140</u>	Comments <u>loaded tools 8/7 8:00</u>
(G) Final Shut-In <u>29</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2292</u>	<input type="checkbox"/> Straddle	

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> EM Tool
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Accessibility	Sub Total <u>0</u>
	Sub Total <u>1765</u>	Total <u>1765</u>
		MP/DST Disc't

Approved By Bruce Reed Our Representative [Signature]
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