



DRILL STEM TEST REPORT

Prepared For: **Charles N Griffin**

PO Box 347
Pratt, KS 67124

ATTN: Bruce Reed

Addie #4

28-29S-15W Pratt,KS

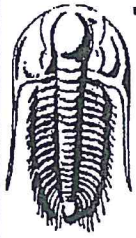
Start Date: 2019.05.01 @ 15:48:00

End Date: 2019.05.02 @ 00:04:02

Job Ticket #: 64967 DST #: 1

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

Printed: 2019.05.03 @ 10:44:33



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Charles N Griffin
PO Box 347
Pratt, KS 67124
ATTN: Bruce Reed

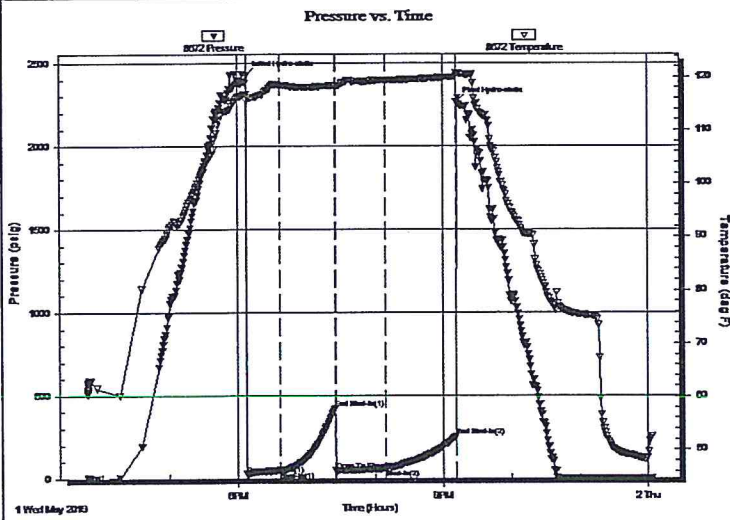
28-29S-15W Pratt,KS
Addie #4
Job Ticket: 64967 **DST#: 1**
Test Start: 2019.05.01 @ 15:48:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:08:17
 Time Test Ended: 00:04:02
 Test Type: Conventional Straddle (Initial)
 Tester: Leal Cason
 Unit No: 74
 Interval: **4674.00 ft (KB) To 4716.00 ft (KB) (TVD)**
 Reference Elevations: 2010.00 ft (KB)
 Total Depth: 4829.00 ft (KB) (TVD)
 1999.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good
 KB to GR/CF: 11.00 ft

Serial #: 8672 Inside
 Press@RunDepth: 53.17 psig @ 4675.00 ft (KB) Capacity: psig
 Start Date: 2019.05.01 End Date: 2019.05.02 Last Calib.: 2019.05.02
 Start Time: 15:48:01 End Time: 00:04:02 Time On Btm: 2019.05.01 @ 18:07:47
 Time Off Btm: 2019.05.01 @ 21:11:32

TEST COMMENT: IF: Weak Blow , Built to 2 1/4"
 IS: No Blow Back
 FF: Weak Blow , Built to 1 inch
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2426.69	116.73	Initial Hydro-static
1	25.07	115.55	Open To Flow (1)
30	43.27	118.50	Shut-In(1)
78	419.17	118.39	End Shut-In(1)
78	44.42	118.38	Open To Flow (2)
121	53.17	119.37	Shut-In(2)
183	252.78	120.09	End Shut-In(2)
184	2266.42	120.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud	0.30

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N Griffin

28-29S-15W Pratt,KS

PO Box 347
Pratt, KS 67124

Addie #4

Job Ticket: 64967

DST#: 1

ATTN: Bruce Reed

Test Start: 2019.05.01 @ 15:48:00

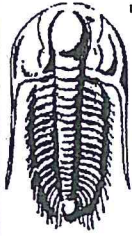
Tool Information

Drill Pipe:	Length: 4538.00 ft	Diameter: 3.80 inches	Volume: 63.66 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: 116.00 ft	Diameter: 2.25 inches	Volume: 0.57 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume:	64.23 bbl	Tool Chased: ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4674.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	4716.00 ft			
Interval between Packers:	42.00 ft			
Tool Length:	181.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Successful Straddle

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4653.00	
Hydraulic tool	5.00			4658.00	
Jars	5.00			4663.00	
Safety Joint	2.00			4665.00	
Packer	5.00			4670.00	26.00 Bottom Of Top Packer
Packer	4.00			4674.00	
Stubb	1.00			4675.00	
Recorder	0.00	8672	Inside	4675.00	
Recorder	0.00	6751	Outside	4675.00	
Perforations	40.00			4715.00	
Blank Off Sub	1.00			4716.00	42.00 Tool Interval
Packer	3.00			4719.00	
Perforations	2.00			4721.00	
Change Over Sub	2.00			4723.00	
Recorder	0.00	6668	Below	4723.00	
Drill Pipe	96.00			4819.00	
Change Over Sub	2.00			4821.00	
perforations	5.00			4826.00	
Bullnose	3.00			4829.00	113.00 Bottom Packers & Anchor

Total Tool Length: 181.00



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N Griffin

28-29S-15W Pratt,KS

PO Box 347
Pratt, KS 67124

Addie #4

Job Ticket: 64967

DST#: 1

ATTN: Bruce Reed

Test Start: 2019.05.01 @ 15:48:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 8.78 in³
Resistivity: ohm.m
Salinity: 6000.00 ppm
Filter Cake: 0.02 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Mud	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

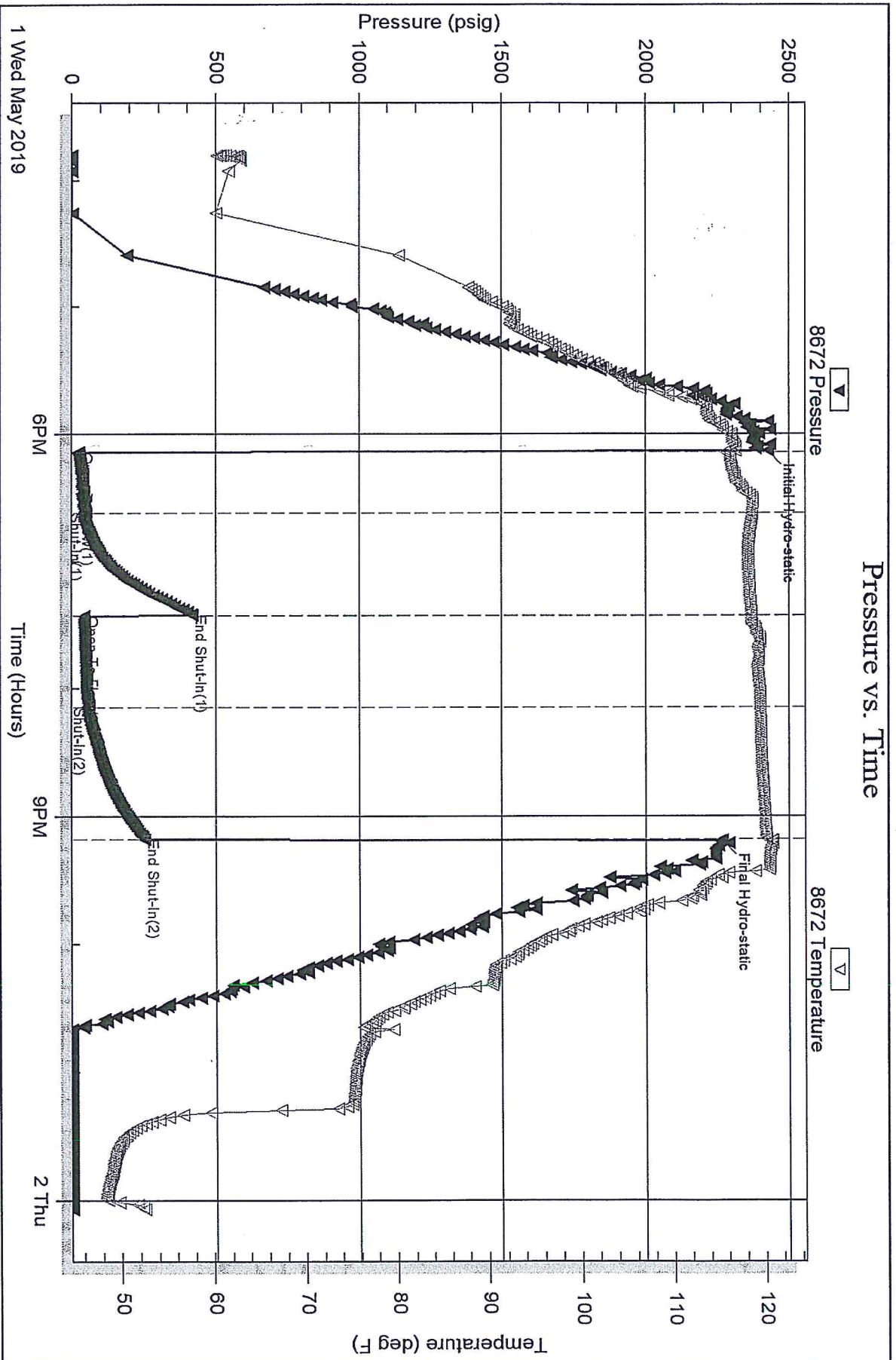
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

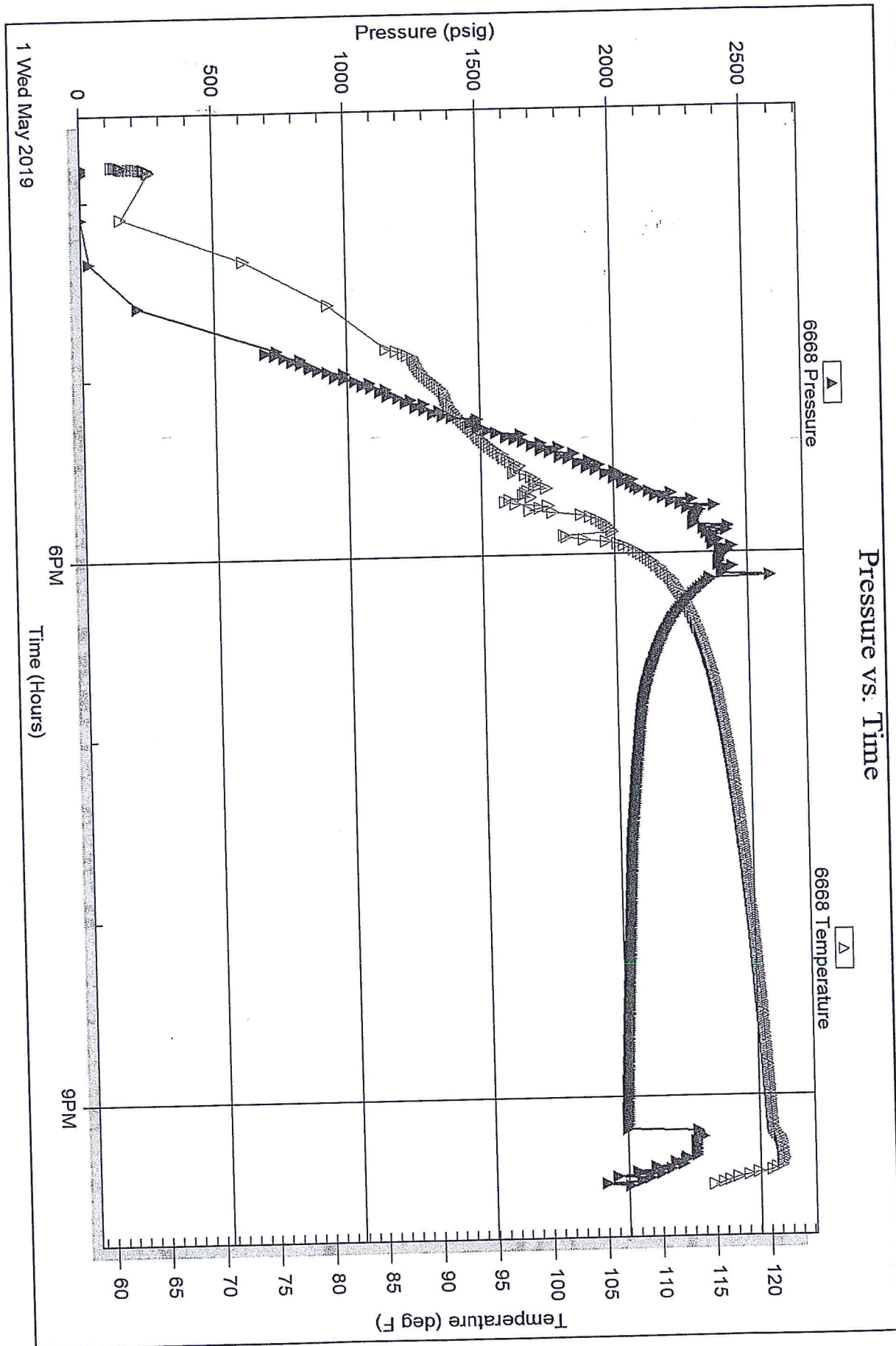


Serial #: 6668

Below (Strat) N Griffin

Addle #4

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 64967

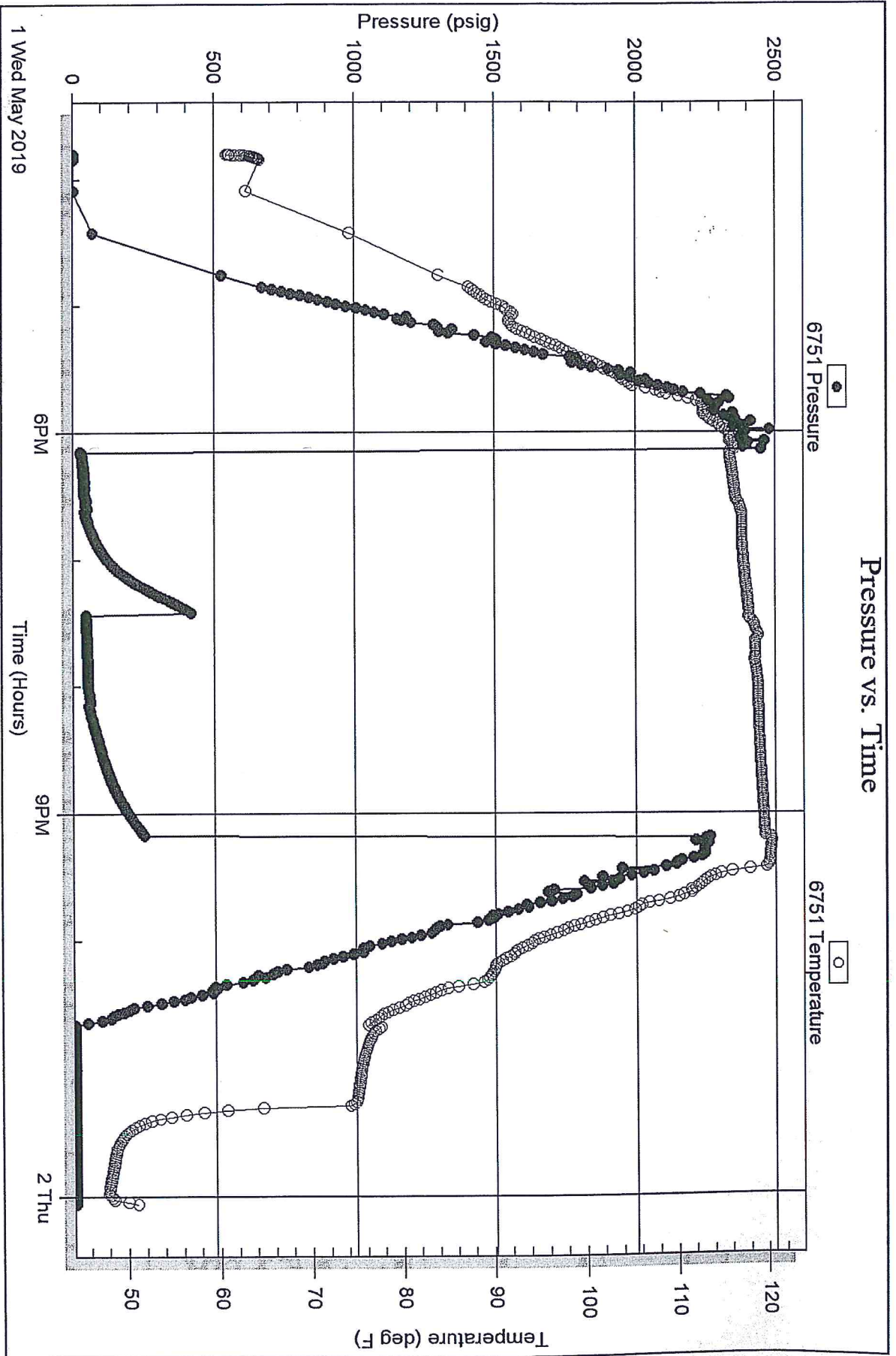
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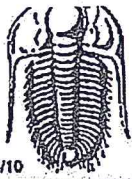
Serial #: 6751

Outside Charles N Griffin

Addle #4

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64967

Well Name & No. 4 Addie Test No. 1 Date 05/01/19
 Company Charles N. Griffin Elevation 2010 KB 1999 GL
 Address PO Box 347 Pratt, KS 67124
 Co. Rep/Geo. Bruce Reed Rig WW 14
 Location: Sec. 28 Twp 29S Rge. 15W Co. Pratt State KS

Interval Tested 4674 - 4716 Zone Tested Viola
 Anchor Length 42 Drill Pipe Run 4538 Mud Wt. 9.1
 Top Packer Depth 4669 Drill Collars Run 116 Vis 48
 Bottom Packer Depth 4716 Wt. Pipe Run 0 WL 8.8
 Total Depth 4829 Chlorides 6000 ppm System LCM 6

Blow Description FF: weak blow, Built to 2 1/4 inch
ISI: NO Blow Back
FF: weak blow, Built to 1 inch
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%m
<u>60</u>	<u>Mud</u>				
Rec	Feet of	%gas	%oil	%water	%m
Rec	Feet of	%gas	%oil	%water	%m
Rec	Feet of	%gas	%oil	%water	%m
Rec	Feet of	%gas	%oil	%water	%m

Rec Total 60 BHT 120 Gravity N/C API RW N/C @ N/C Chlorides N/C pp
 (A) Initial Hydrostatic 2427 Test 1300 T-On Location 14:00
 (B) First Initial Flow 25 Jars 250 T-Started 15:48
 (C) First Final Flow 43 Safety Joint 75 T-Open 18:08
 (D) Initial Shut-In 419 Circ Sub T-Pulled 21:10
 (E) Second Initial Flow 44 Hourly Standby T-Out 00:04
 (F) Second Final Flow 53 Mileage (60) Twice Comments Had to Drive
 (G) Final Shut-In 253 Sampler 60+60 Back to Shop for ad
 (H) Final Hydrostatic 2266 Straddle 600 Perf. Successful
 EM Tool
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60
 Sub Total 0
 Total 2345
 Sub Total 2345
 MP/DST Disc't

Approved By [Signature] Our Representative [Signature]

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