



DRILL STEM TEST REPORT

Prepared For: **Charles N. Griffin**

P.O.Box 347
Pratt KS. 67124

ATTN: Bruce Reed

Gayle #1

18-23s-12w Stafford,KS

Start Date: 2016.03.03 @ 15:39:38

End Date: 2016.03.03 @ 21:46:23

Job Ticket #: 57938 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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Charles N. Griffin
18-23s-12w Stafford,KS
Gayle #1
DST # 1
LKC H - I
2016.03.03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Charles N. Griffin

18-23s-12w Stafford,KS

P.O.Box 347
Pratt KS. 67124

Gayle #1

Job Ticket: 57938

DST#: 1

ATTN: Bruce Reed

Test Start: 2016.03.03 @ 15:39:38

GENERAL INFORMATION:

Formation: LKC H - I

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:46:53

Time Test Ended: 21:46:23

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 80

Interval: 3554.00 ft (KB) To 3640.00 ft (KB) (TVD)

Reference Elevations: 1871.00 ft (KB)

Total Depth: 3640.00 ft (KB) (TVD)

1864.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 9124

Outside

Press@RunDepth: 59.46 psig @ 3555.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.03.03

End Date: 2016.03.03

Last Calib.: 2016.03.03

Start Time: 15:39:43

End Time: 21:46:22

Time On Btm: 2016.03.03 @ 17:46:08

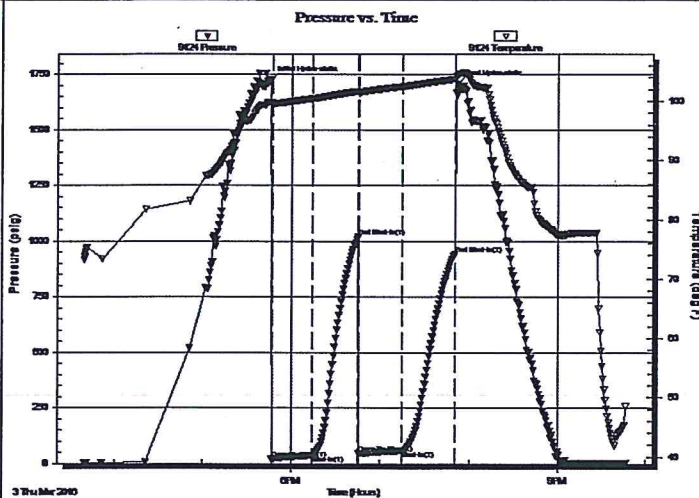
Time Off Btm: 2016.03.03 @ 19:51:53

TEST COMMENT: IF:Weak blow . 1/2 - 1 1/4".

ISI:No blow .

FF:Weak blow . 1/2 - 1 1/4".

FSI:No blow .



PRESSURE SUMMARY

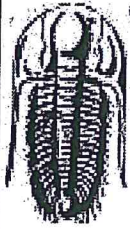
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1723.49	99.83	Initial Hydro-static
1	19.47	99.22	Open To Flow (1)
28	38.18	100.42	Shut-In(1)
59	1020.63	101.68	End Shut-In(1)
60	45.46	101.40	Open To Flow (2)
89	59.46	102.50	Shut-In(2)
124	943.51	103.76	End Shut-In(2)
126	1709.35	104.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud w oil specs	0.30
10.00	SOCM <1%o 99%m	0.05
0.00	50 ft.of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

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TOOL DIAGRAM

Charles N. Griffin

18-23s-12w Stafford,KS

P.O.Box 347
Pratt KS. 67124

Gayle #1

Job Ticket: 57938

DST#: 1

ATTN: Bruce Reed

Test Start: 2016.03.03 @ 15:39:38

Tool Information

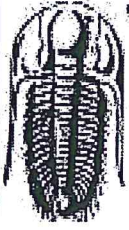
Drill Pipe:	Length: 3422.00 ft	Diameter: 3.80 inches	Volume: 48.00 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume:	48.59 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3554.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 ft			
Tool Length:	106.00 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			3535.00	
Shut In Tool	5.00			3540.00	
Hydraulic tool	5.00			3545.00	
Packer	4.00			3549.00	20.00 Bottom Of Top Packer
Packer	5.00			3554.00	
Stubb	1.00			3555.00	
Recorder	0.00	9124	Outside	3555.00	
Recorder	0.00	6798	Inside	3555.00	
Perforations	6.00			3561.00	
Blank Spacing	61.00			3622.00	
Perforations	13.00			3635.00	
Bullnose	5.00			3640.00	86.00 Bottom Packers & Anchor

Total Tool Length: 106.00



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FLUID SUMMARY

Charles N. Griffin

18-23s-12w Stafford,KS

P.O.Box 347
Pratt KS. 67124

Gayle #1

Job Ticket: 57938

DST#: 1

ATTN: Bruce Reed

Test Start: 2016.03.03 @ 15:39:38

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:	6000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Mud w oil specs	0.295
10.00	SOCM <1%o 99%m	0.049
0.00	50 ft.of GIP	0.000

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

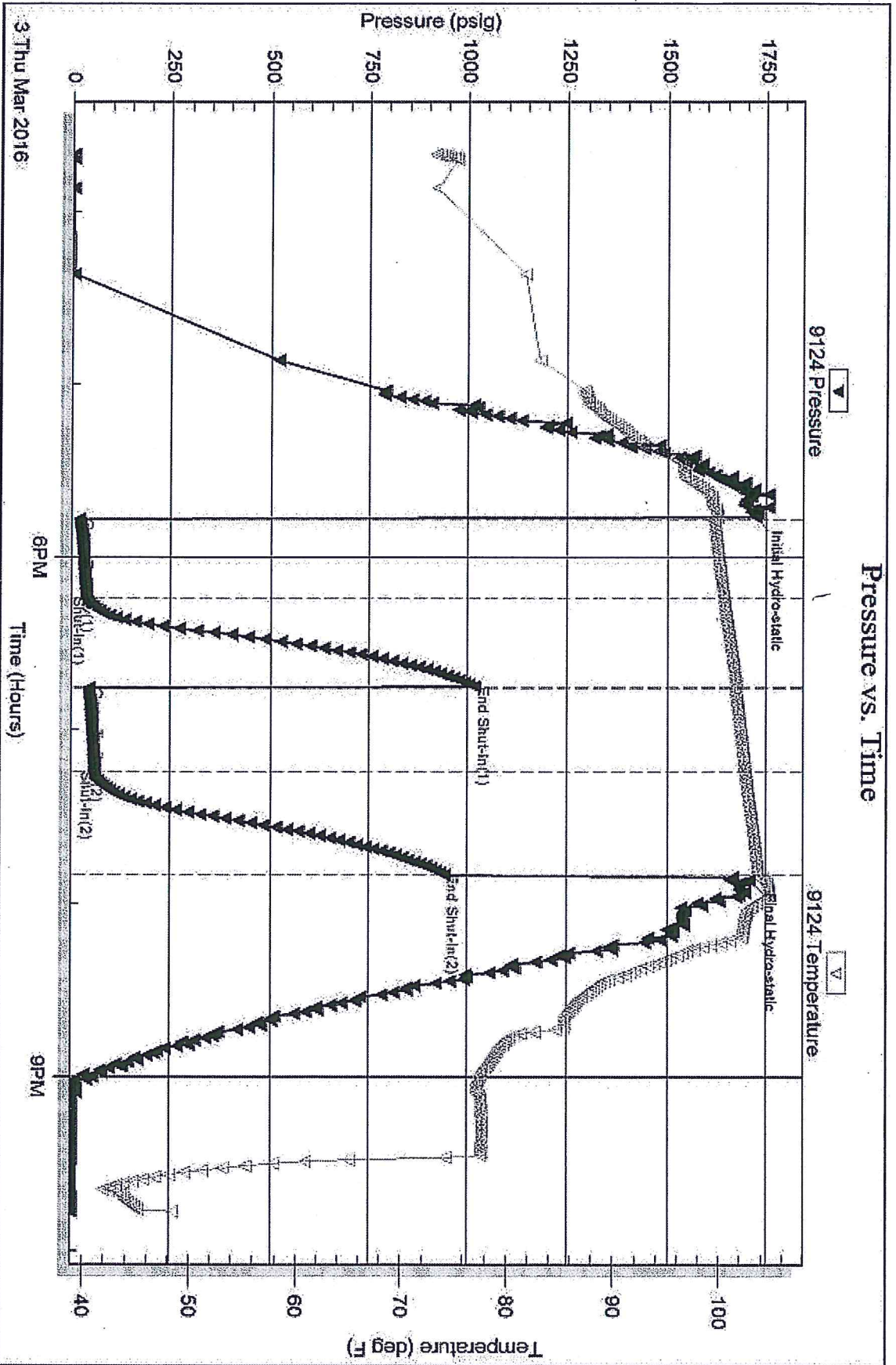
Serial #: 9124

Outside: Charles N. Griffin

Gayle #1

DSI Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 57938

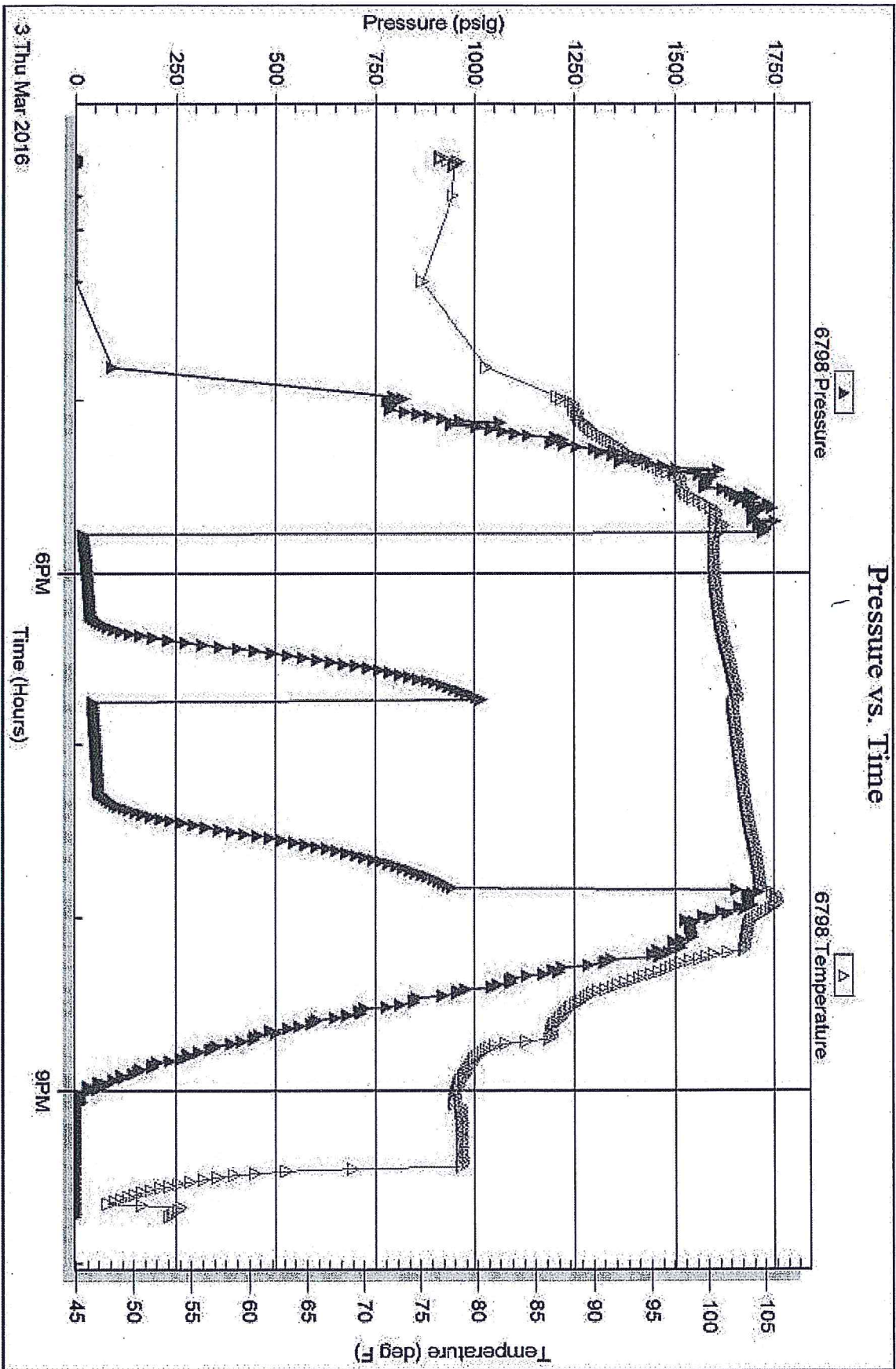
Printed: 2016.03.07 @ 09:04:03

Serial #: 6798

Inside Charles N. Griffin

Gayle #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 57938

Printed: 2016.03.07 @ 09:04:04



TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

NO. 57938

Well Name & No. GAYLE # 1 Test No. 1 Date 3-3-16
 Company CHARLES N. COZZEWIN Elevation 1871 KB 1864 GL
 Address P.O. Box 347, Pratt KS 67124
 Co. Rep / Geo. DRUCE REED Rig WW Dalg. # 12
 Location: Sec. 18 Twp. 23S Rge. 12W Co. STAFFORD State KS

Interval Tested 3554-3640' Zone Tested L / KC H-J
 Anchor Length 86' Drill Pipe Run 3422' Mud Wt. 9.1
 Top Packer Depth 3549' Drill Collars Run 120' Vis 53
 Bottom Packer Depth 3554' Wt. Pipe Run 0 WL 9.6cc
 Total Depth 3640' Chlorides 6000 ppm System LCM 1/2**
 Blow Description IF: Weak blow, 1/2 - 1/4" ISI: No blow.

EF: Weak blow, 1/2 - 1/4" FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>Gas in pipe</u>				
<u>10</u>	<u>SOEM</u>	<u>21</u>			<u>99</u>
<u>60</u>	<u>Mud w/o spec</u>				

Rec Total 90 Final BHT 1040 Gravity N/A API RW N.C. °F Chlorides 6000 ppm
 (A) Initial Hydrostatic 1723 Test 1050 T-On Location 1420
 (B) First Initial Flow 19 Jars _____ T-Started 539
 (C) First Final Flow 38 Safety Joint _____ T-Open 1746
 (D) Initial Shut-In 1021 Circ Sub _____ T-Pulled 1951
 (E) Second Initial Flow 45 Hourly Standby _____ T-Out 2146
 (F) Second Final Flow 59 Mileage (58) X 2 * Comments Returned to
 (G) Final Shut-In 944 Sampler 87 load tools after
 (H) Final Hydrostatic 1709 Straddle _____ stand by.
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Extra Packer _____
 Initial Shut-In 30 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1137
 Final Shut-In 30 Accessibility _____ MP/DST Disc't _____
 Sub Total 1137

Approved By Druce Reed Our Representative Cony Purotas
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