

DRILL STEM TEST REPORT

Prepared For: **Charles N Griffin**

PO Box 347
Pratt, KS 67124

ATTN: Bruce Reed

Scrivner B-1

9-34S-8W Harper, KS

Start Date: 2011.10.20 @ 11:58:19

End Date: 2011.10.20 @ 19:04:19

Job Ticket #: 43999 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2011.10.26 @ 16:44.48

Charles N Griffin 9-34S-8W Harper, KS Scrivner B-1 DST # 1 Mississippi 2011.10.20



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Charles N Griffin

9-34S-8W Harper, KS

PO Box 347
Pratt, KS 67124

Scrivner B-1

Job Ticket: 43999

DST#: 1

ATTN: Bruce Reed

Test Start: 2011.10.20 @ 11:58:19

GENERAL INFORMATION:

Formation: Mississippi

Deviated: No Whipstock ft (KB)

Time Tool Opened: 14:41:04

Time Test Ended: 19:04:19

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 45

Interval: 4628.00 ft (KB) To 4650.00 ft (KB) (TVD)

Total Depth: 4650.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1347.00 ft (KB)

1338.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6798

Inside

Press@RunDepth: 24.86 psig @ 4629.00 ft (KB)

Start Date: 2011.10.20

End Date:

2011.10.20

Capacity: 8000.00 psig

Last Calib.:

2011.10.20

Start Time: 11:58:20

End Time:

19:04:19

Time On Btm:

2011.10.20 @ 14:32:49

Time Off Btm

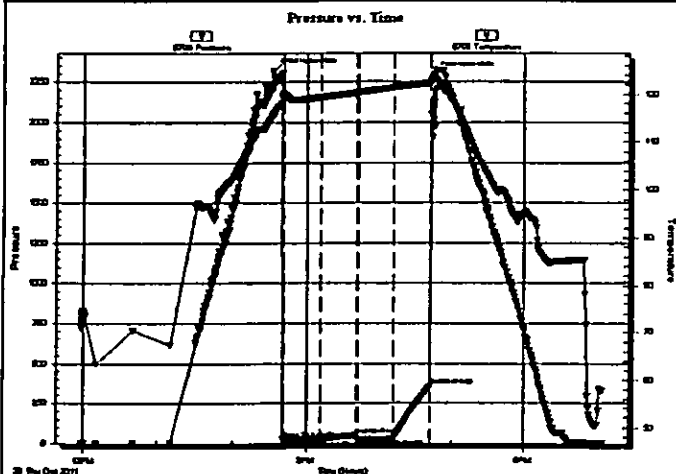
2011.10.20 @ 16:44:04

TEST COMMENT: IF: Fair Blow, 7 inches

IS: 3 inch Blow back

FF: Fair Blow, 8 inches

FSL: 1 inch Blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2317.21	115.60	Initial Hydro-static
9	25.55	120.08	Open To Flow (1)
39	23.63	119.31	Shut-In(1)
69	51.48	120.26	End Shut-In(1)
71	23.44	120.33	Open To Flow (2)
100	24.86	121.41	Shut-In(2)
130	357.94	122.34	End Shut-In(2)
132	2291.17	124.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	200 GIP	0.00
25.00	GCM 5%G 95%M	0.12

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N Griffin

9-34S-8W Harper, KS

PO Box 347
Pratt, KS 67124

Scrivner B-1

Job Ticket: 43999

DST#: 1

ATTN: Bruce Reed

Test Start: 2011.10.20 @ 11:58:19

Tool Information

Drill Pipe:	Length: 4506.00 ft	Diameter: 3.80 inches	Volume: 63.21 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	80000.00 lb
			Total Volume: 63.80 bbl	Tool Chased	ft
Drill Pipe Above KB:	17.00 ft			String Weight, Initial	54000.00 lb
Depth to Top Packer:	4628.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	42.00 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			4613.00	
Hydraulic tool	5.00			4618.00	
Packer	5.00			4623.00	20.00 Bottom Of Top Packer
Packer	5.00			4628.00	
Stubb	1.00			4629.00	
Recorder	0.00	6798	Inside	4629.00	
Recorder	0.00	8367	Outside	4629.00	
Perforations	18.00			4647.00	
Bullnose	3.00			4650.00	22.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N Griffin

9-34S-8W Harper, KS

PO Box 347
Pratt, KS 67124

Scrivner B-1

Job Ticket: 43999

DST#: 1

ATTN: Bruce Reed

Test Start: 2011.10.20 @ 11:58:19

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Satinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	200 GIP	0.000
25.00	GOM 5%G 95%M	0.123

Total Length: 25.00 ft

Total Volume: 0.123 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

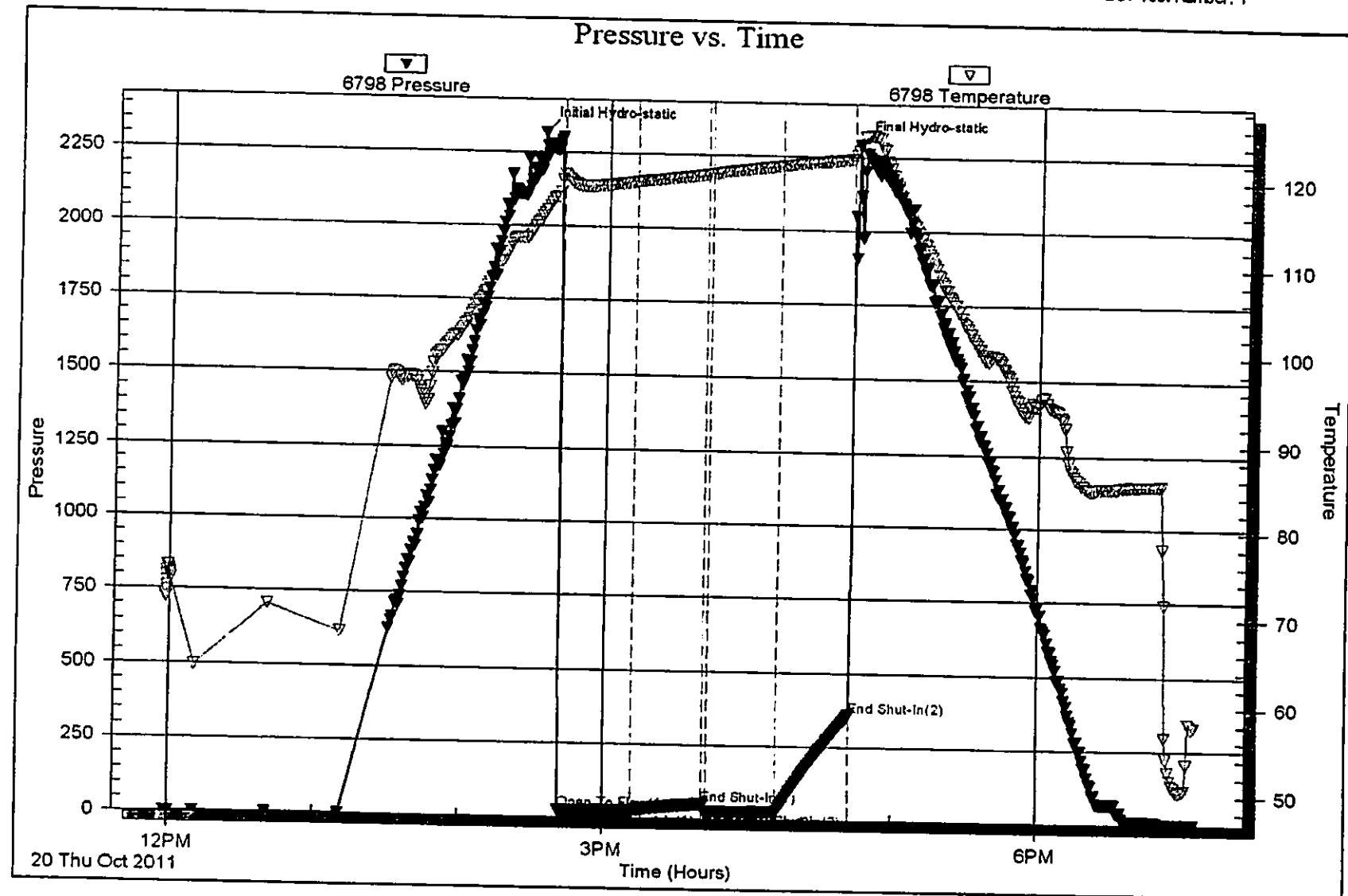
Recovery Comments:

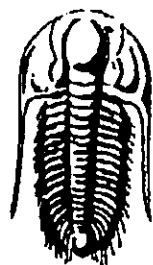
Serial #: 6798

Inside Charles N Griffin

Scrivner B-1

DST Test Number: 1





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Charles N Griffin**

PO Box 347
Pratt, KS 67124

ATTN: Bruce Reed

Scrivner B-1

9-34S-8W Harper,KS

Start Date: 2011.10.21 @ 02:30:36

End Date: 2011.10.21 @ 12:13:36

Job Ticket #: 44000

DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2011.10.26 @ 16:45:08

Charles N Griffin

9-34S-8W Harper,KS

Scrivner B-1

DST # 2

Mississippi

2011.10.21



TRIBOLITE
TESTING, INC

DRILL STEM TEST REPORT

Charles N Griffin

9-34S-8W Harper, KS

PO Box 347
Pratt, KS 67124

Scrivner B-1

Job Ticket: 44000

DST#: 2

ATTN: Bruce Reed

Test Start: 2011.10.21 @ 02:30:36

GENERAL INFORMATION:

Formation: Mississippi

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:59:06

Time Test Ended: 12:13:36

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

Interval: 4654.00 ft (KB) To 4670.00 ft (KB) (TVD)

Total Depth: 4670.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1347.00 ft (KB)

1338.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6798

Inside

Press@RunDepth: 67.97 psig @ 4655.00 ft (KB)

Start Date: 2011.10.21

End Date:

2011.10.21

Capacity: 8000.00 psig

Last Calib.:

2011.10.21

Start Time: 02:30:37

End Time:

12:13:36

Time On Btm

2011.10.21 @ 05:58:06

Time Off Btm

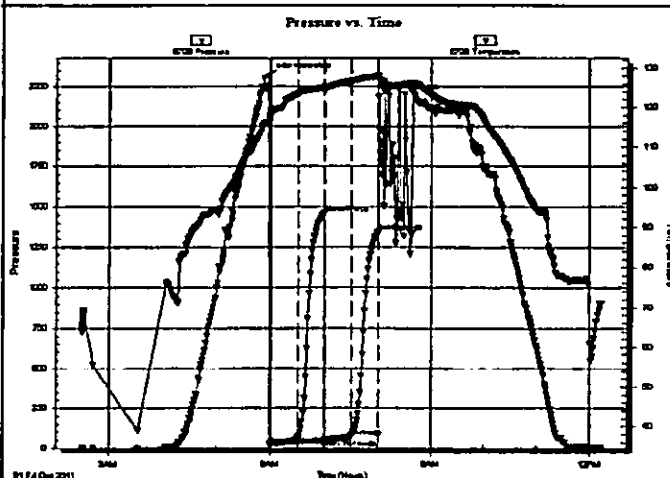
2011.10.21 @ 08:01:21

TEST COMMENT: IF: Weak Blow, 4 inches

IS: No Blowback

FF: Weak Blow, 3 inches

FS: No Blowback



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2315.86	115.97	Initial Hydro-static
1	24.48	116.85	Open To Flow (1)
33	60.69	123.19	Shut-In (1)
62	1462.16	124.93	End Shut-In (1)
63	48.28	124.65	Open To Flow (2)
93	67.97	126.72	Shut-In (2)
123	1345.90	127.76	End Shut-In (2)
124	2182.13	128.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	SOOM 5% O 95% M	0.32

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N Griffin

9-34S-8W Harper, KS

PO Box 347
Pratt, KS 67124

Scrivner B-1

Job Ticket: 44000

DST#: 2

ATTN: Bruce Reed

Test Start: 2011.10.21 @ 02:30:36

Tool Information

Drill Pipe:	Length: 4536.00 ft	Diameter: 3.80 inches	Volume: 63.63 bbl	Tool Weight: 2100.00 lb
Heavy WM. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 95000.00 lb
		Total Volume:	64.22 bbl	Tool Chased ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4654.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	36.00 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			4639.00	
Hydraulic tool	5.00			4644.00	
Packer	5.00			4649.00	20.00 Bottom Of Top Packer
Packer	5.00			4654.00	
Stubb	1.00			4655.00	
Recorder	0.00	6798	Inside	4655.00	
Recorder	0.00	8367	Outside	4655.00	
Perforations	12.00			4667.00	
Bullnose	3.00			4670.00	16.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N Griffin

9-34S-8W Harper, KS

PO Box 347
Pratt, KS 67124

Scrivner B-1

Job Ticket: 44000

DST#: 2

ATTN: Bruce Reed

Test Start: 2011.10.21 @ 02:30:36

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 8.98 in³

Resistivity: ohm.m

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	SOOM 5%O 95%M	0.320

Total Length: 65.00 ft

Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

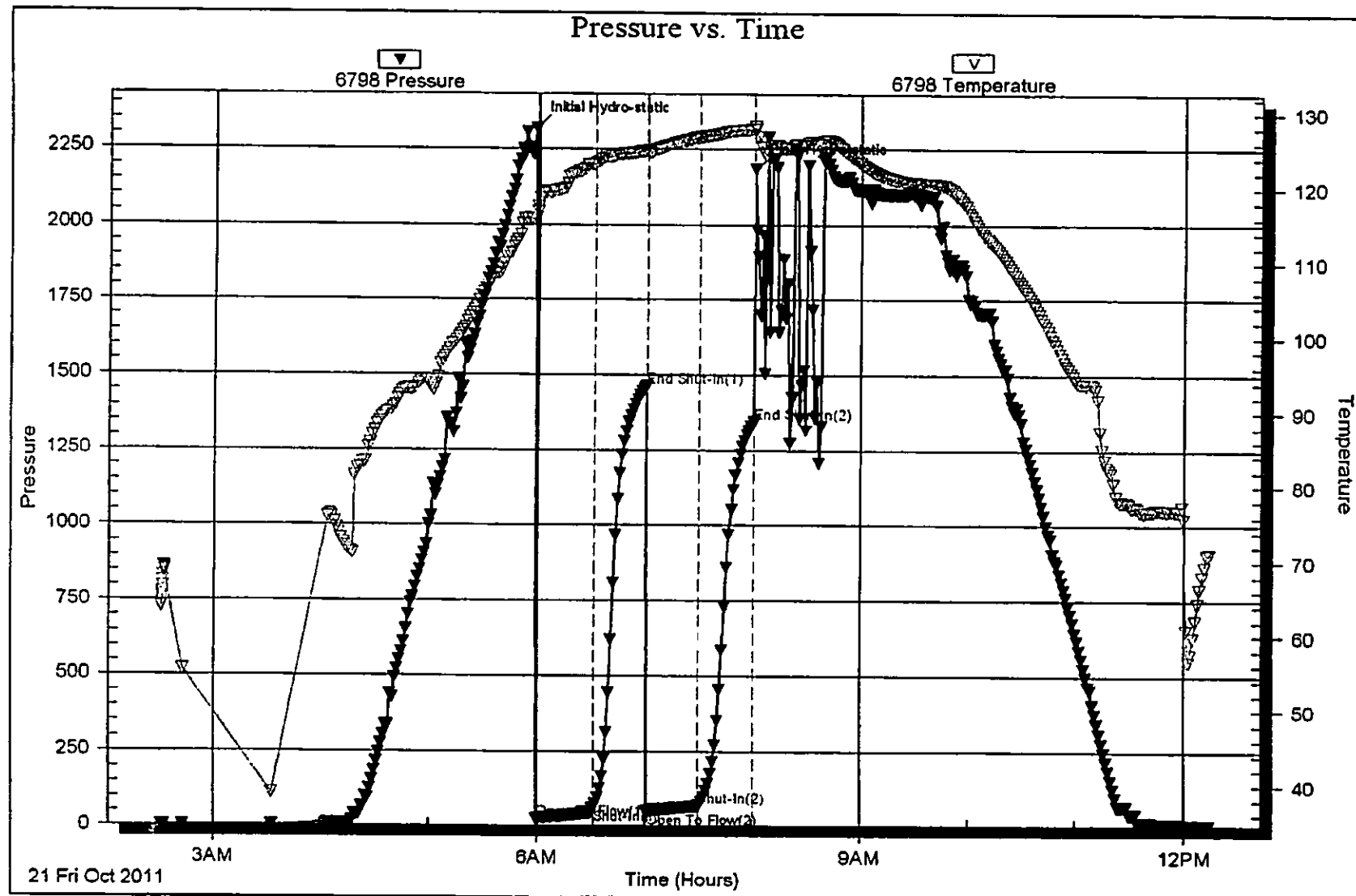
Serial #: 6798

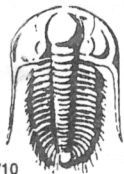
Inside

Charles N Griffin

Scribner B-1

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED

OCT 24 2011

Test Ticket

NO. 43999

4/10

BY:

Well Name & No. Scrivner B-1 Test No. 1 Date 10/20/11
 Company Charles N. Griffin Elevation 1347 KB 1338 GL
 Address PO Box 347 Pratt, KS 67124
 Co. Rep / Geo. Bruce Reed Rig Landmark 6
 Location: Sec. 9 Twp. 34S Rge. 8W Co. Harper State KS

Interval Tested 4628 - 4650 Zone Tested Mississippi
 Anchor Length 22 Drill Pipe Run 4506 Mud Wt. 9.2
 Top Packer Depth 4623 Drill Collars Run 119 Vis 49
 Bottom Packer Depth 4628 Wt. Pipe Run 0 WL 9.0
 Total Depth 4650 Chlorides 8000 ppm System LCM 2#

Blow Description IFI Fair Blow, 7 inches

ISI: 3 inch Blowback

FF: Fair Blow, 8 inches

FSI: 1 inch Blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>200</u>	<u>GIP</u>				
<u>25</u>	<u>GCM</u>	<u>5</u>			<u>95</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 225 BHT 124 Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic 2317 ☒ Test 1225
 (B) First Initial Flow 25 ☒ Jars No Jars
 (C) First Final Flow 24 ☐ Safety Joint
 (D) Initial Shut-In 51 ☐ Circ Sub
 (E) Second Initial Flow 23 ☐ Hourly Standby
 (F) Second Final Flow 25 ☒ Mileage (150) 210
 (G) Final Shut-In 358 ☐ Sampler
 (H) Final Hydrostatic 2291 ☐ Straddle

T-On Location 11:00
 T-Started 11:58
 T-Open 14:41
 T-Pulled 16:42
 T-Out 19:04
 Comments

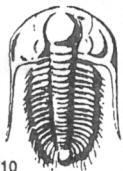
Initial Open 30 ☐ Ruined Shale Packer
 Initial Shut-In 30 ☐ Ruined Packer
 Final Flow 30 ☐ Extra Copies
 Final Shut-In 30 ☐ Sub Total 1585
☐ Extra Recorder
☐ Day Standby
☒ Accessibility 150
 Sub Total 1585
1435

MP/DST Disc't

Approved By

Our Representative

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.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
OCT 24 2011

Test Ticket

NO. 44000

Well Name & No. Scrivner B-1 Test No. 2 Date 10/21/11
 Company Charles N. Griffin Elevation 1347 KB 1338 GL
 Address PO BOX 347 Pratt, KS 67124
 Co. Rep / Geo. Bruce Reed Rig Landmark 6
 Location: Sec. 9 Twp. 34S Rge. 8W Co. Harper State KS

Interval Tested 4654 - 4670 Zone Tested Mississippi
 Anchor Length 16 Drill Pipe Run 4536 Mud Wt. 9.2
 Top Packer Depth 4649 Drill Collars Run 119 Vis 49
 Bottom Packer Depth 4654 Wt. Pipe Run 0 WL 9.0
 Total Depth 4670 Chlorides 8006 ppm System LCM 2H

Blow Description IF: Weak Blow, 4 inches

TSI: NO Blowback

FF: Weak Blow, 3 inches

FSI: NO Blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>SOCM</u>	<u>5</u>		<u>95</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 65 BHT 127° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2316 ☒ Test 1225'
 (B) First Initial Flow 24 ☐ Jars _____
 (C) First Final Flow 61 ☐ Safety Joint _____
 (D) Initial Shut-In 1462 ☐ Circ Sub _____
 (E) Second Initial Flow 48 ☐ Hourly Standby 4hr 25'
 (F) Second Final Flow 68 ☒ Mileage 150 210'
 (G) Final Shut-In 1345 ☐ Sampler _____
 (H) Final Hydrostatic 2182 ☐ Straddle _____

T-On Location 02:00
 T-Started 02:30
 T-Open 05:59
 T-Pulled 08:00
 T-Out 12:13
 Comments _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

☐ Ruined Shale Packer _____
☐ Ruined Packer _____
☐ Extra Copies _____
 Sub Total 0
 Total 1610'
 MP/DST Disc't _____
☐ Extra Packer _____
☐ Extra Recorder _____
☐ Day Standby _____
☒ Accessibility 150'
 Sub Total 1610'

Approved By

Bruce Reed

Our Representative

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.