



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Charles N Griffin**

PO Box 347
Pratt, KS 67124

ATTN: Bruce Reed

34-32S-12W Barber, KS

Ash #1

Start Date: 2011.05.30 @ 06:21:18

End Date: 2011.05.30 @ 14:10:03

Job Ticket #: 042449 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Charles N Griffin

Ash #1

PO Box 347
Pratt, KS 67124

34-32S-12W Barber, KS

Job Ticket: 042449

DST#: 1

ATTN: Bruce Reed

Test Start: 2011.05.30 @ 06:21:18

GENERAL INFORMATION:

Formation: Mississippi

Deviated: No Whipstock ft (KB)

Time Tool Opened: 09:47:03

Time Test Ended: 14:10:03

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 45

Interval: 4432.00 ft (KB) To 4488.00 ft (KB) (TVD)

Total Depth: 4488.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1588.00 ft (KB)

1580.00 ft (CF)

KB to GRVCF: 8.00 ft

Serial #: 6798

Inside

Press@RunDepth: 37.97 psig @ 4433.00 ft (KB)

Start Date: 2011.05.30

End Date:

2011.05.30

Capacity: 8000.00 psig

Last Calib.: 2011.05.30

Start Time: 06:21:19

End Time:

14:10:03

Time On Btm: 2011.05.30 @ 09:45:18

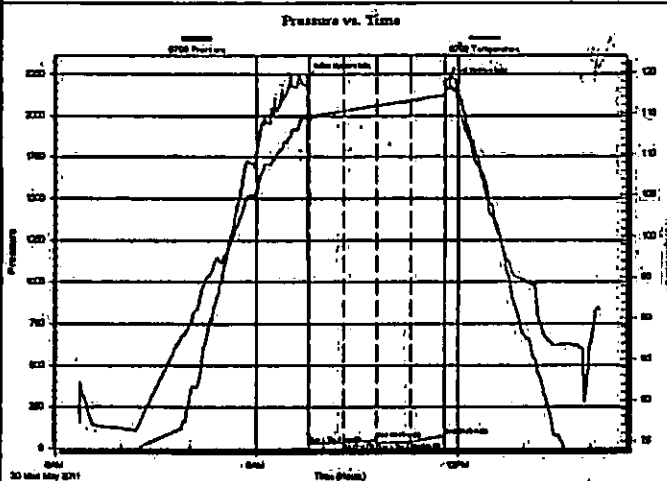
Time Off Btm: 2011.05.30 @ 11:48:18

TEST COMMENT: IF: Fair Blow, BOB in 14 minutes

IS: Bled Off, No Blow back

FF: Fair Blow, 5 inches

FST: Bled Off, No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2232.67	114.36	Initial Hydro-static
2	28.85	114.01	Open To Flow (1)
32	36.28	115.21	Shut-in(1)
62	53.50	115.89	End Shut-in(1)
63	32.02	115.89	Open To Flow (2)
92	37.97	116.50	Shut-in(2)
123	76.02	117.14	End Shut-in(2)
123	2202.91	117.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud	0.10

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcfd)
--	----------------	-----------------	-----------------



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N Griffin

Ash #1

PO Box 347
Pratt, KS 67124

34-32S-12W Barber, KS

Job Ticket: 042449

DST#: 1

ATTN: Bruce Reed

Test Start: 2011.05.30 @ 06:21:18

Tool Information

Drill Pipe:	Length: 4299.00 ft	Diameter: 3.80 inches	Volume: 60.30 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 60.91 bbl		Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4432.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	75.00 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			4418.00	
Hydraulic tool	5.00			4423.00	
Packer	5.00			4428.00	19.00 Bottom Of Top Packer
Packer	4.00			4432.00	
Stub	1.00			4433.00	
Recorder	0.00	6798	Inside	4433.00	
Recorder	0.00	8367	Outside	4433.00	
Perforations	13.00			4446.00	
Change Over Sub	1.00			4447.00	
Drill Pipe	32.00			4479.00	
Change Over Sub	1.00			4480.00	
Perforations	5.00			4485.00	
Bullnose	3.00			4488.00	56.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N Griffin

Ash #1

PO Box 347
Pratt, KS 67124

34-32S-12W Barber, KS

Job Ticket: 042449

DST#: 1

ATTN: Bruce Reed

Test Start: 2011.05.30 @ 08:21:18

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 18.76 in²

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
20.00	Mud	0.098

Total Length: 20.00 ft,

Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

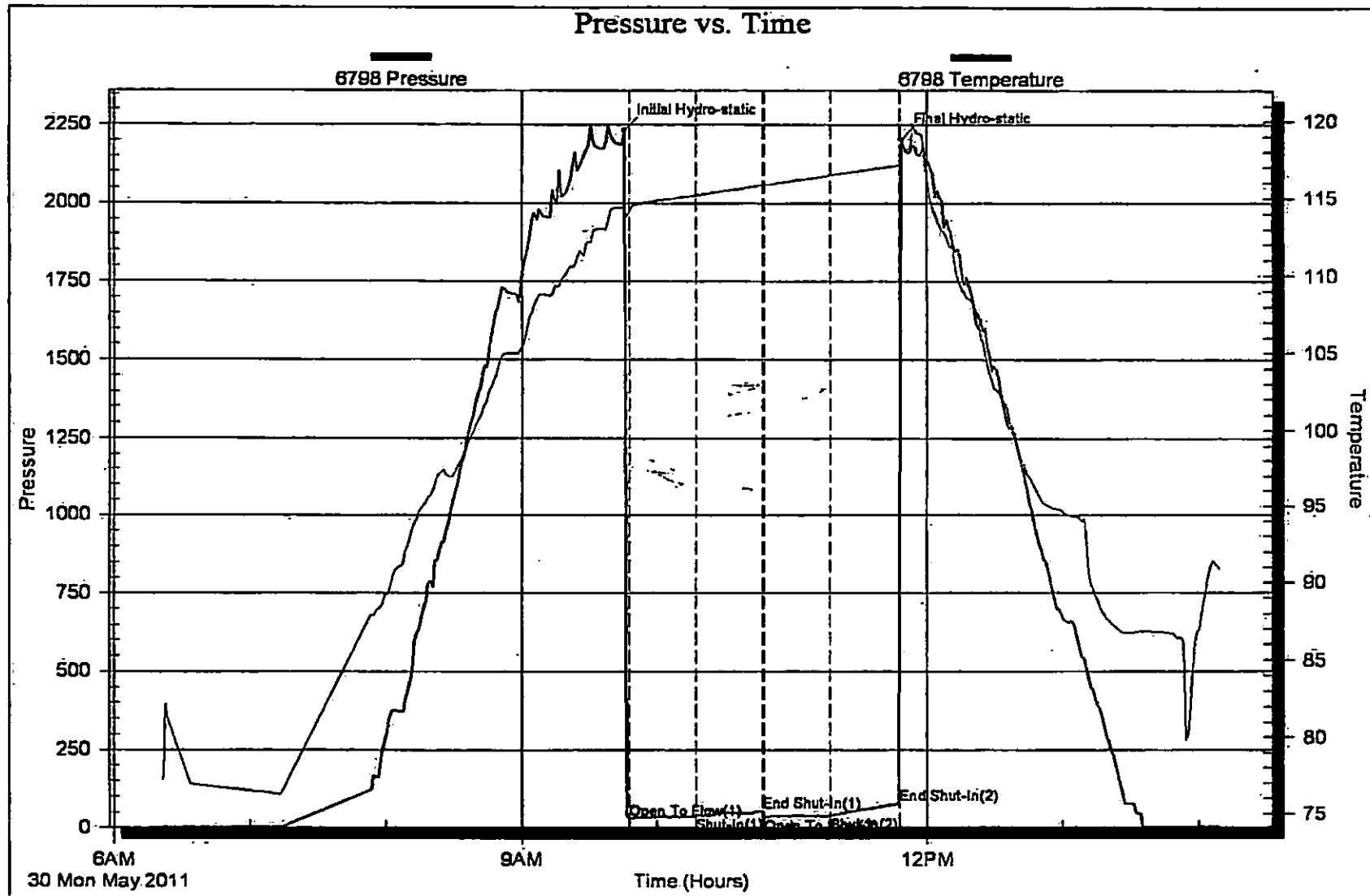
Recovery Comments:

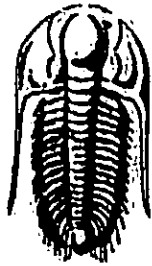
Serial #: 6798

Inside Charles N Griffin

34-32S-12W Barber, KS

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**

34-32S-12W Barber, KS

Ash #1

Start Date: 2011.05.31 @ 21:25:48

End Date: 2011.06.01 @ 09:24:18

Job Ticket #: 042450 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Charles N Griffin

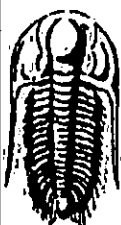
Ash #1

34-32S-12W Barber, KS

DST # 2

Simpson

2011.05.31



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Charles N Griffin

Ash #1

PO Box 347
Pratt, KS 67124

34-32S-12W Barber, KS

Job Ticket: 042450 DST#: 2

ATTN: Bruce Reed

Test Start: 2011.05.31 @ 21:25:48

GENERAL INFORMATION:

Formation: Simpson

Deviated: No Whipstock ft (KB)

Time Tool Opened: 23:55:48

Time Test Ended: 09:24:18

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 45

Interval: 4818.00 ft (KB) To 4840.00 ft (KB) (TVD)

Total Depth: 4840.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1588.00 ft (KB)

1580.00 ft (CF)

KB to GRVCF: 8.00 ft

Serial #: 6798

Inside

Press@RunDepth: 710.53 psig @ 4819.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.31

End Date:

2011.06.01

Last Calib.: 2011.06.01

Start Time: 21:25:49

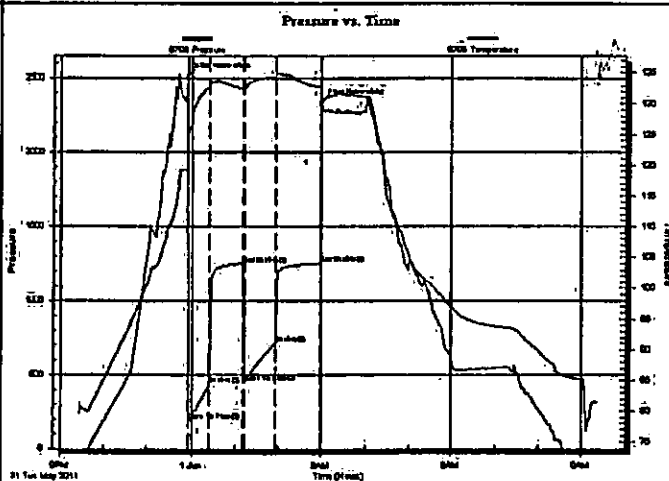
End Time:

09:24:18

Time On Btm 2011.05.31 @ 23:54:18

Time Off Btm 2011.06.01 @ 02:59:18

TEST COMMENT: IF: Strong Blow, BOB in 30 seconds, GTS in 10 minutes, Gauged Gas & Caught Sample
IS: Bled Off, Blow back Built To BOB in 10 minutes
FF: Strong Blow, BOB & GTS Immediate, Gauged Gas
FSt: Bled Off,



PRESSURE SUMMARY

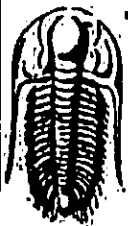
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2513.68	119.29	Initial Hydro-static
2	194.88	124.69	Open To Flow (1)
31	435.33	132.70	Shut-In (1)
77	1245.71	132.35	End Shut-In (1)
79	446.81	132.39	Open To Flow (2)
122	710.53	134.35	Shut-In (2)
184	1247.44	132.84	End Shut-In (2)
185	2340.34	131.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2197 GIP	0.00
240.00	Salt Water	1.66
453.00	GSY OMOW 25%G 5%O 24%M 46%W	6.35
315.00	GSY WOM 52%G 10%W 14%M 24%O	4.42
1613.00	GSY O 20%G 80%O	22.63

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	6.00	137.61
Last Gas Rate	0.25	3.00	27.60
Max. Gas Rate	0.50	6.00	137.61



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N Griffin

Ash #1

PO Box 347
Pratt, KS 67124

34-32S-12W Barber, KS

Job Ticket: 042450

DST#: 2

ATTN: Bruce Reed

Test Start: 2011.05.31 @ 21:25:48

Tool Information

Drill Pipe:	Length: 4631.00 ft	Diameter: 3.80 inches	Volume: 64.96 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: 187.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 74000.00 lb
		Total Volume: 65.88 bbl		Tool Chased: ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	4818.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	49.00 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			4796.00	
Hydraulic tool	5.00			4801.00	
Jars	5.00			4806.00	
Safety Joint	2.00			4808.00	
Packer	5.00			4813.00	27.00 Bottom Of Top Packer
Packer	5.00			4818.00	
Stub	1.00			4819.00	
Recorder	0.00	6798	Inside	4819.00	
Recorder	0.00	8367	Outside	4819.00	
Perforations	18.00			4837.00	
Buttrose	3.00			4840.00	22.00 Bottom Packers & Anchor
Total Tool Length:		49.00			



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N Griffin

Ash #1

PO Box 347
Pratt, KS 67124

34-32S-12W Barber, KS

Job Ticket: 042450

DST#: 2

ATTN: Bruce Reed

Test Start: 2011.05.31 @ 21:25:48

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

45.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

90000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.78 in³

Gas Cushion Type:

Resistivity: ohm m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2197 GP:	0.000
240.00	Salt Water	1.663
453.00	GSY: OMCW 25%G 5%O 24%M 46%W	6.354
315.00	GSY: WCM 52%G 10%W 14%M 24%O	4.418
1613.00	GSY: O 20%G 80%O	22.626

Total Length: 2621.00 ft Total Volume: 35.062 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

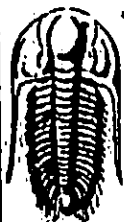
Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: Gravity: 47 @ 72 degrees (45.8 Corrected)

RW: .09 @ 70 degrees



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Charles N Griffin

Ash #1

PO Box 347
Prett, KS 67124

34-32S-12W Barber, KS

Job Ticket: 042450

DST#: 2

ATTN: Bruce Reed

Test Start: 2011.05.31 @ 21:25:48

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

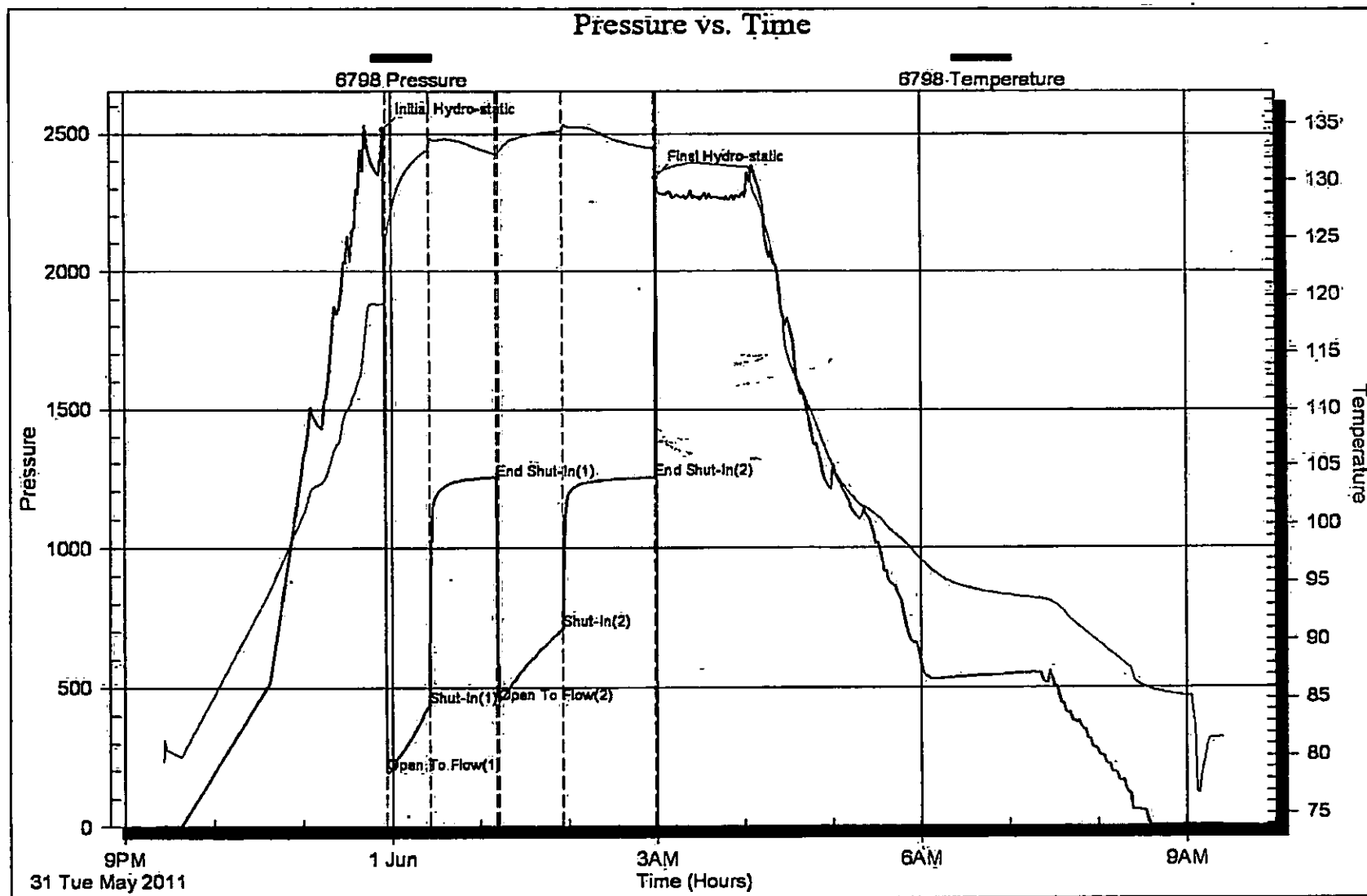
Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	20	0.50	6.00	137.61
1	20	0.50	6.00	137.61
1	30	0.25	4.00	29.19
2	5	0.25	2.00	26.02
2	10	0.25	2.00	26.02
2	20	0.25	2.00	26.02
2	30	0.25	3.00	27.60
2	40	0.25	3.00	27.60

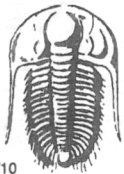
Serial #: 6798

Inside Charles N Griffin

34-32S-12W Barber, KS

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 042449 15828

JUN 06 2011

Well Name & No. ASH #1 Test No. 1 Date 05/30/11
Company Charles N. Griffin Elevation 1588 KB 1580 GL
Address PO Box 347 Pratt, KS 67124
Co. Rep / Geo. Bruce Reed Rig Fossil Rig #2
Location: Sec. 34 Twp. 32S Rge. 12W Co. Barber State KS

Interval Tested 4432 - 4488 Zone Tested Mississippi
Anchor Length 56 Drill Pipe Run 4299 Mud Wt. 9.2
Top Packer Depth 4427 Drill Collars Run 144 Vis 48
Bottom Packer Depth 4432 Wt. Pipe Run 0 WL 18.8
Total Depth 4488 Chlorides 8000 ppm System LCM 2H

Blow Description IF. Fair Blow, BOB in 14 minutes

ISI: Bled off, NO Blowback

FF: Fair Blow, 5 inches

FSI: Bled off, NO Blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud</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 20 BHT 117° Gravity N/C API RW N/C @ N/C° F Chlorides N/C ppm

(A) Initial Hydrostatic 2233
(B) First Initial Flow 29
(C) First Final Flow 36
(D) Initial Shut-In 53
(E) Second Initial Flow 32
(F) Second Final Flow 38
(G) Final Shut-In 76
(H) Final Hydrostatic 2203

☒ Test 1225
☐ Jars
☐ Safety Joint
☐ Circ Sub
☐ Hourly Standby
☒ Mileage (90) 126
☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
Sub Total 1351

T-On Location 04:45
T-Started 06:21
T-Open 09:47
T-Pulled 11:47
T-Out 14:10
Comments
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
Sub Total 0
Total 1351
MP/DST Disc't

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

Approved By Bruce Reed

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.



P.O. Box 1733 • Hays, Kansas 67601

JUN 06 2011

NO. 042450

Approved By James A. Ford 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.



RECEIVED
JUN 06 2011

BY:

Charles N. Griffin

OPERATOR

Ash #1

WELL NAME AND NO.

2

DST NO.

GTS - 10 minutes

Remarks: