



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Charles N Griffin

34-32s-12w Barber, KS

PO Box 347
Pratt, KS 67124

Dillman Ash #5

Job Ticket: 47498

DST#: 1

ATTN: Bruce Reed

Test Start: 2012.06.13 @ 06:52:00

GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:28:45

Time Test Ended: 17:13:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 45

Interval: 4780.00 ft (KB) To 4810.00 ft (KB) (TVD)

Reference Elevations: 1552.00 ft (KB)

Total Depth: 4810.00 ft (KB) (TVD)

1542.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6798

Inside

Press@RunDepth: 337.06 psig @ 4781.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.13

End Date:

2012.06.13

Last Calib.: 2012.06.13

Start Time: 06:52:01

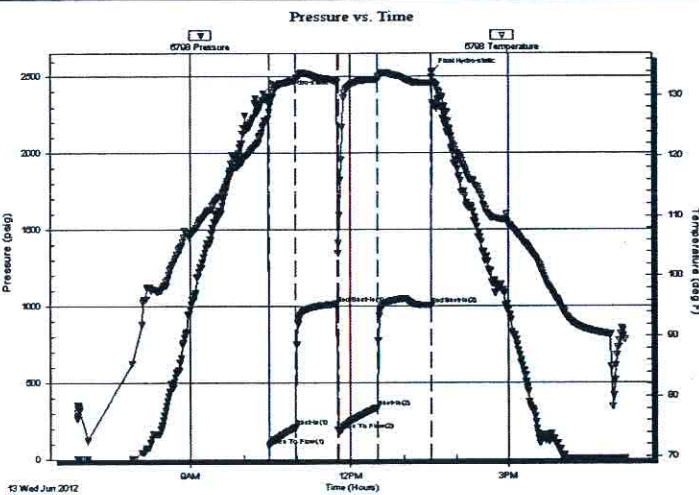
End Time:

17:13:15

Time On Btm: 2012.06.13 @ 10:22:30

Time Off Btm: 2012.06.13 @ 13:31:30

TEST COMMENT: IF: Strong Blow, BOB in 90 seconds, GTS in 18 minutes, TSTM
 ISI: BOB Blow Back in 24 minutes
 FF: Strong Blow, BOB & GTS Immediate, Gauged Gas
 FSI: BOB Blow Back in 40 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2390.45	125.08	Initial Hydro-static
7	84.92	127.18	Open To Flow (1)
37	209.35	132.39	Shut-In(1)
83	1015.86	132.23	End Shut-In(1)
85	184.79	105.40	Open To Flow (2)
128	337.06	132.53	Shut-In(2)
189	1005.30	131.99	End Shut-In(2)
189	2529.98	132.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4110 GIP	0.00
380.00	Water	3.92
120.00	GOMCW 10%G 5%O 40%M 45%W	1.68
140.00	GOWCM 10%G 5%O 5%W 80%M	1.96

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	17.00	11.75
Last Gas Rate	0.13	16.00	11.38
Max. Gas Rate	0.13	18.00	12.13



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TOOL DIAGRAM

Charles N Griffin

34-32s-12w Barber,KS

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Dillman Ash #5

Job Ticket: 47498

DST#: 1

ATTN: Bruce Reed

Test Start: 2012.06.13 @ 06:52:00

Tool Information

Drill Pipe:	Length: 4610.00 ft	Diameter: 3.80 inches	Volume: 64.67 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 155.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 65.43 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4780.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4758.00	
Hydraulic tool	5.00			4763.00	
Jars	5.00			4768.00	
Safety Joint	2.00			4770.00	
Packer	5.00			4775.00	27.00 Bottom Of Top Packer
Packer	5.00			4780.00	
Stubb	1.00			4781.00	
Recorder	0.00	6798	Inside	4781.00	
Recorder	0.00	8367	Outside	4781.00	
Perforations	26.00			4807.00	
Bullnose	3.00			4810.00	30.00 Bottom Packers & Anchor

Total Tool Length: 57.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N Griffin

34-32s-12w Barber,KS

PO Box 347
Pratt, KS 67124

Dillman Ash #5

Job Ticket: 47498

DST#: 1

ATTN: Bruce Reed

Test Start: 2012.06.13 @ 06:52:00

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:	85000 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4110 GIP	0.000
380.00	Water	3.918
120.00	GOMCW 10%G 5%O 40%M 45%W	1.683
140.00	GOWCM 10%G 5%O 5%W 80%M	1.964

Total Length: 640.00 ft Total Volume: 7.565 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW was .08 @ 82 degrees



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DRILL STEM TEST REPORT

GAS RATES

Charles N Griffin

34-32s-12w Barber,KS

PO Box 347
Pratt, KS 67124

Dillman Ash #5

Job Ticket: 47498

DST#: 1

ATTN: Bruce Reed

Test Start: 2012.06.13 @ 06:52:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.13	17.00	11.75
2	10	0.13	17.00	11.75
2	20	0.13	18.00	12.13
2	30	0.13	16.00	11.38
2	40	0.13	16.00	11.38

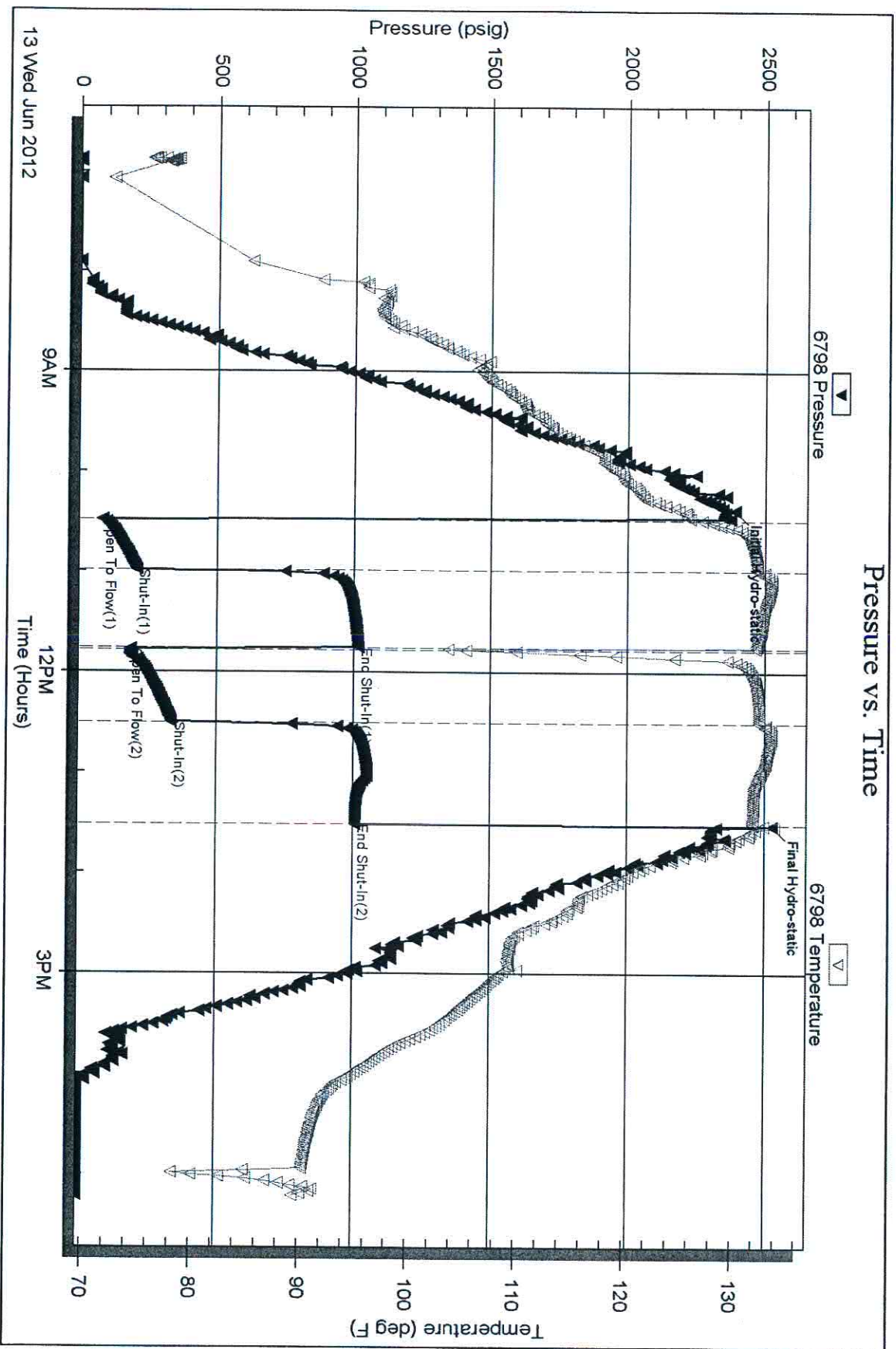
Serial #: 6798

Inside

Charles N Griffin

Dillman Ash #5

DST Test Number: 1

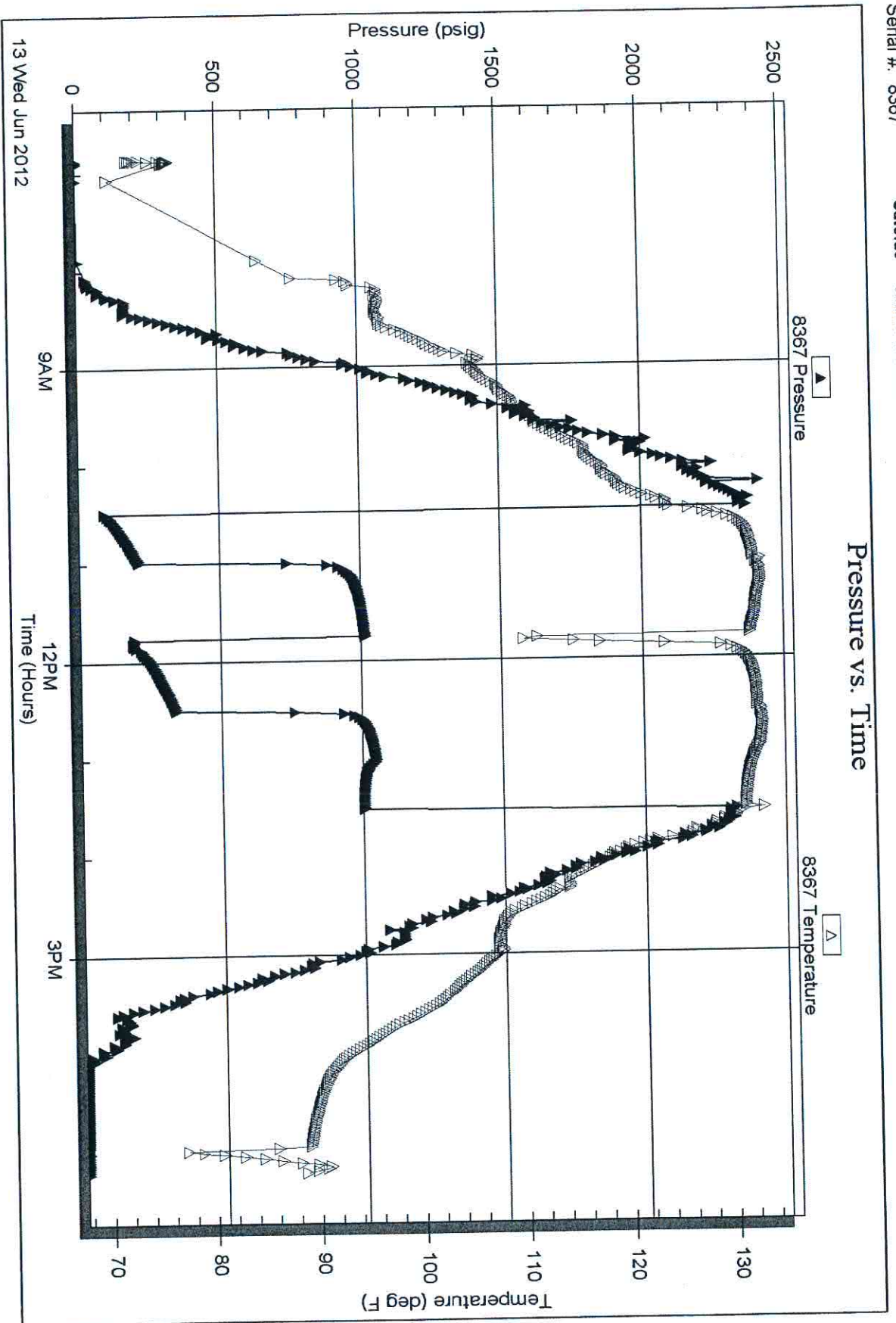


Serial #: 8367

Outside Charles N Griffin

Dilman Ash #5

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 47498

Printed: 2012.06.18 @ 13:57:11



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47498

Well Name & No. Dillman Ash 5 Test No. 1 Date 06/13/12
 Company Charles N. Griffin Elevation 1552 KB 1542 GL
 Address PO Box 347 Pratt, KS 67124
 Co. Rep / Geo. Bruce Reed Rig Fossil 2
 Location: Sec. 34 Twp. 32S Rge. 12W Co. Barber State KS

Interval Tested 4780 - 4810 Zone Tested Simpson sand
 Anchor Length 30 Drill Pipe Run 4610 Mud Wt. 9.2
 Top Packer Depth 4775 Drill Collars Run 155 Vis 47
 Bottom Packer Depth 4780 Wt. Pipe Run 0 WL 8-8
 Total Depth 4810 Chlorides 4000 ppm System LCM 2

Blow Description IF Strong Blow, BOB in 90 seconds, GTS in 18 minutes, TSTM
ISI: BOB Blow back in 24 minutes
FF: Strong Blow, BOB + GTS Immediate, Gauged Gas
FSD: BOB Blow Back in 40 minutes

Rec	Feet of	%gas	%oil	%water	%mud
<u>410</u>	<u>Feet of GIP</u>				
<u>140</u>	<u>Feet of GOC MW</u>	<u>10</u>	<u>5</u>	<u>5</u>	<u>80</u>
<u>120</u>	<u>Feet of GOMCW</u>	<u>10</u>	<u>5</u>	<u>45</u>	<u>40</u>
<u>380</u>	<u>Feet of Water</u>				

Rec Total 640 BHIT 1310 Gravity N/C API RW .08 @ 82 °F Chlorides 85000 ppm

- (A) Initial Hydrostatic 2390 Test 1250 T-On Location 05:30
- (B) First Initial Flow 85 Jars 250 T-Started 06:52
- (C) First Final Flow 209 Safety Joint 75 T-Open 10:28
- (D) Initial Shut-In 101500 Circ Sub T-Pulled 13:31
- (E) Second Initial Flow 185 Hourly Standby 1.75h 175 T-Out 17:13
- (F) Second Final Flow 337 Mileage (80) 124 Comments _____
- (G) Final Shut-In 1005 Sampler _____
- (H) Final Hydrostatic 2530 Straddle _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 45 Ruined Packer _____
 Final Flow 45 Extra Packer _____
 Final Shut-In 60 Extra Copies _____
 Sub Total 0
 Total 1874
 MP/DST Disc't _____

Approved By Bruce Reed Our Representative [Signature]

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