



**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

Randels #2

Start Date: 2011.07.11 @ 16:25:54

End Date: 2011.07.12 @ 01:35:09

Job Ticket #: 042513 DST #: 1

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

ORIGINAL

Printed: 2011.07.21 @ 11:46:53 Page 1

Charles N.Griffin

Randels #2

34-32s-12w Barber,KS

DST # 1

Miss.

2011.07.11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Charles N.Griffin

Randels #2

PO Box 347
Pratt KS 67124

34-32s-12w Barber,KS

Job Ticket: 042513

DST#: 1

ATTN: Bruce Reed

Test Start: 2011.07.11 @ 16:25:54

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 20:04:24

Time Test Ended: 01:35:09

Test Type: Conventional Bottom Hole

Tester: Gary Fevoteaux

Unit No: 56

Interval: **4415.00 ft (KB) To 4450.00 ft (KB) (TVD)**

Reference Elevations: 1569.00 ft (KB)

Total Depth: 4450.00 ft (KB) (TVD)

1561.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8167

Inside

Press@RunDepth: 21.22 psig @ 4416.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.11

End Date: 2011.07.12

Last Calib.: 2011.07.12

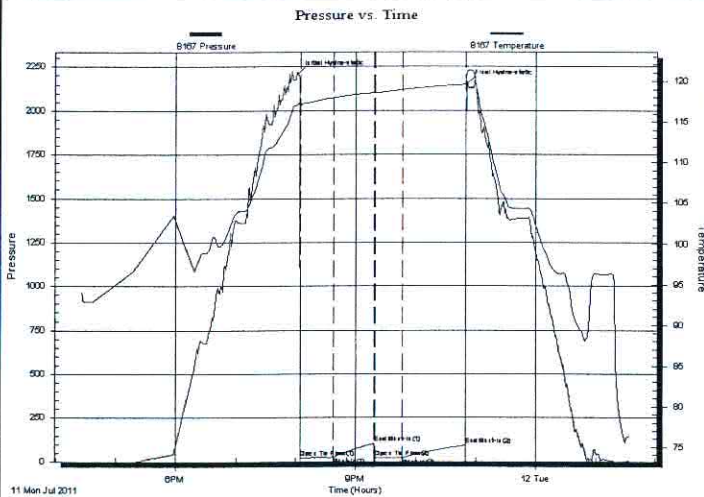
Start Time: 16:25:59

End Time: 01:35:09

Time On Btm: 2011.07.11 @ 20:02:09

Time Off Btm: 2011.07.11 @ 22:50:54

TEST COMMENT: IF: Strong blow. B.O.B. in 7 1/2 mins.
IS: No blow.
FF: Weak blow. 2 - 4 1/2".
FS: No blow.



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2209.66	117.22	Initial Hydro-static
3	18.67	116.85	Open To Flow (1)
36	24.09	117.97	Shut-In(1)
77	103.16	118.59	End Shut-In(1)
77	18.87	118.58	Open To Flow (2)
105	21.22	118.99	Shut-In(2)
167	92.48	119.65	End Shut-In(2)
169	2151.22	121.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drig. mud	0.02
0.00	305 ft. of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N.Griffin

Randels #2

PO Box 347
Pratt KS 67124

34-32s-12w Barber,KS

Job Ticket: 042513

DST#: 1

ATTN: Bruce Reed

Test Start: 2011.07.11 @ 16:25:54

Tool Information

Drill Pipe:	Length: 4291.00 ft	Diameter: 3.80 inches	Volume: 60.19 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 63000.00 lb
			<u>Total Volume: 60.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4415.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4396.00	
Shut in tool	5.00			4401.00	
HMV	5.00			4406.00	
Packer	4.00			4410.00	20.00 Bottom Of Top Packer
Packer	5.00			4415.00	
Stubb	1.00			4416.00	
Recorder	0.00	8167	Inside	4416.00	
Recorder	0.00	8370	Outside	4416.00	
Perforations	29.00			4445.00	
Bullnose	5.00			4450.00	35.00 Bottom Packers & Anchor
Total Tool Length:	55.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N.Griffin

Randels #2

PO Box 347
Pratt KS 67124

34-32s-12w Barber,KS

Job Ticket: 042513

DST#: 1

ATTN: Bruce Reed

Test Start: 2011.07.11 @ 16:25:54

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:	4500 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drig.mud	0.025
0.00	305 ft.of GIP	0.000

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

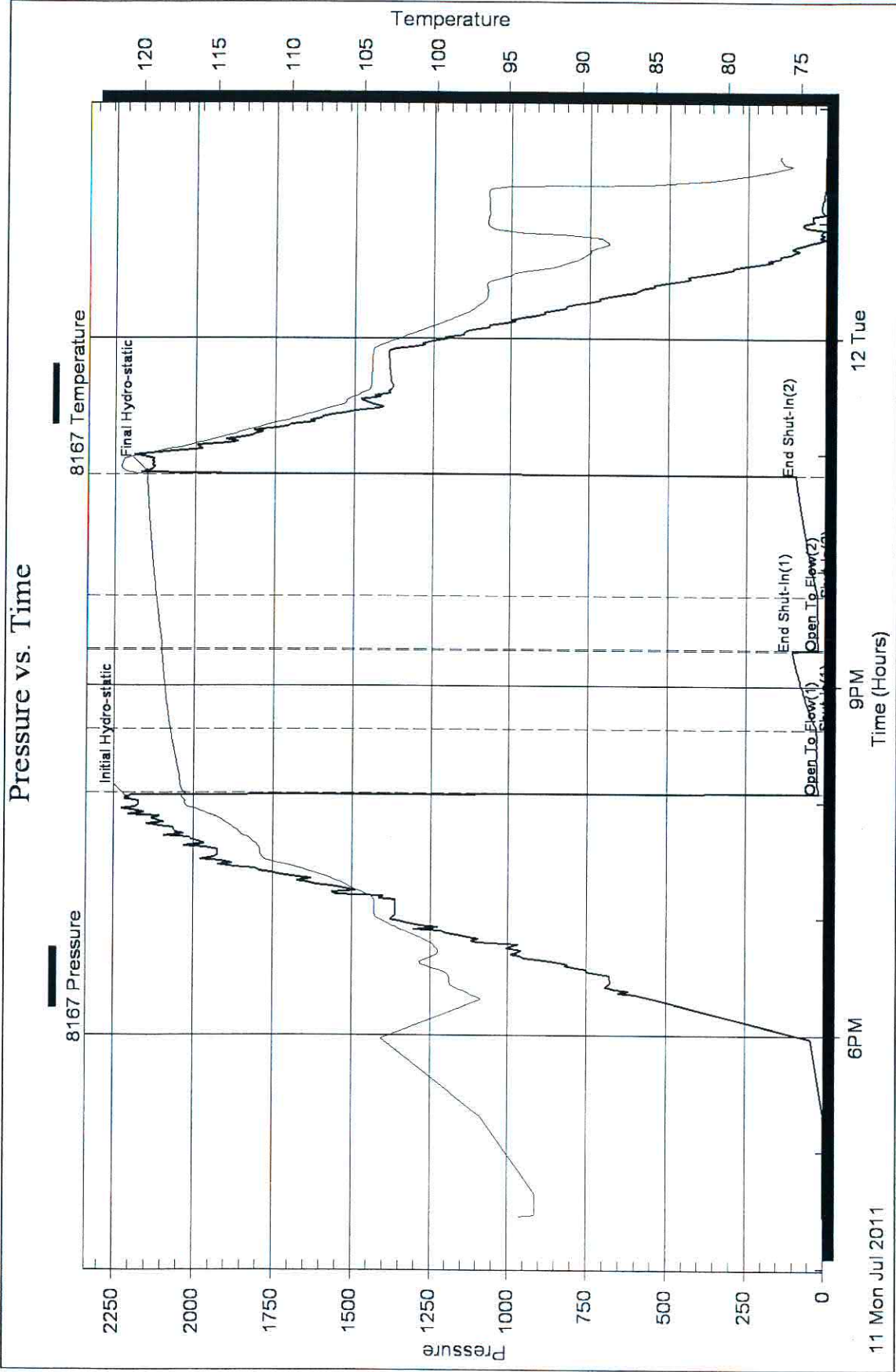
Num Gas Bombs: 0

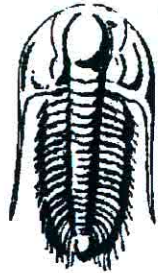
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Charles N.Griffin**

PO Box 347
Pratt KS 67124

ATTN: Bruce Reed

34-32s-12w Barber,KS

Randels #2

Start Date: 2011.07.13 @ 06:35:31

End Date: 2011.07.13 @ 15:12:46

Job Ticket #: 042514 DST #: 2

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Charles N.Griffin

Randels #2

34-32s-12w Barber,KS

DST # 2

Simpson

2011.07.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Charles N. Griffin

Randels #2

PO Box 347
Pratt KS 67124

34-32s-12w Barber, KS

Job Ticket: 042514

DST#: 2

ATTN: Bruce Reed

Test Start: 2011.07.13 @ 06:35:31

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:42:46

Time Test Ended: 15:12:46

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 56

Interval: **4786.00 ft (KB) To 4810.00 ft (KB) (TVD)**

Total Depth: 4810.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1569.00 ft (KB)

1561.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8167

Inside

Press@RunDepth: 72.95 psig @ 4787.00 ft (KB)

Start Date: 2011.07.13 End Date: 2011.07.13

Start Time: 06:35:36 End Time: 15:12:46

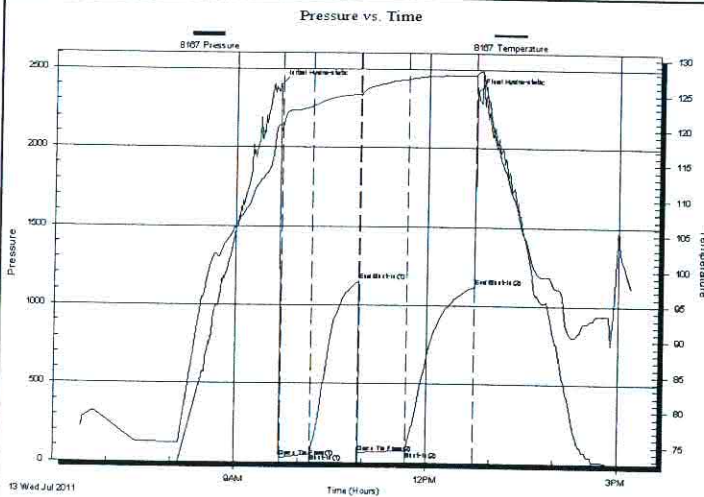
Capacity: 8000.00 psig

Last Calib.: 2011.07.13

Time On Btm: 2011.07.13 @ 09:40:16

Time Off Btm: 2011.07.13 @ 12:46:16

TEST COMMENT: IF: Strong blow . B.O.B. in 85 secs.
IS: No blow .
FF: Strong blow . B.O.B. in 15 secs.
FSI: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2398.05	120.48	Initial Hydro-static
3	31.89	120.34	Open To Flow (1)
31	51.20	123.23	Shut-In(1)
76	1152.36	124.97	End Shut-In(1)
76	58.97	124.75	Open To Flow (2)
121	72.95	127.10	Shut-In(2)
185	1123.62	127.70	End Shut-In(2)
186	2356.96	128.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOCVM 13%g 11%o 35% 41%m	0.59
30.00	SOCM 3%o 97%m	0.38
0.00	1975 ft. of GIP	0.00

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N.Griffin

Randels #2

PO Box 347
Pratt KS 67124

34-32s-12w Barber,KS

Job Ticket: 042514

DST#: 2

ATTN: Bruce Reed

Test Start: 2011.07.13 @ 06:35:31

Tool Information

Drill Pipe:	Length: 4664.00 ft	Diameter: 3.80 inches	Volume: 65.42 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 71000.00 lb
			<u>Total Volume: 66.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4786.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4759.00	
Shut in tool	5.00			4764.00	
HIV	5.00			4769.00	
Jars	5.00			4774.00	
Safety Joint	3.00			4777.00	
Packer	4.00			4781.00	28.00 Bottom Of Top Packer
Packer	5.00			4786.00	
Stubb	1.00			4787.00	
Recorder	0.00	8167	Inside	4787.00	
Recorder	0.00	8370	Outside	4787.00	
Perforations	18.00			4805.00	
Bullnose	5.00			4810.00	24.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N.Griffin

Randels #2

PO Box 347
Pratt KS 67124

34-32s-12w Barber,KS

Job Ticket: 042514

DST#: 2

ATTN: Bruce Reed

Test Start: 2011.07.13 @ 06:35:31

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	70500 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GOCWM 13%g 11%o 35% 41%m	0.590
30.00	SOQM 3%o 97%m	0.384
0.00	1975 ft.of GIP	0.000

Total Length: 150.00 ft Total Volume: 0.974 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8167

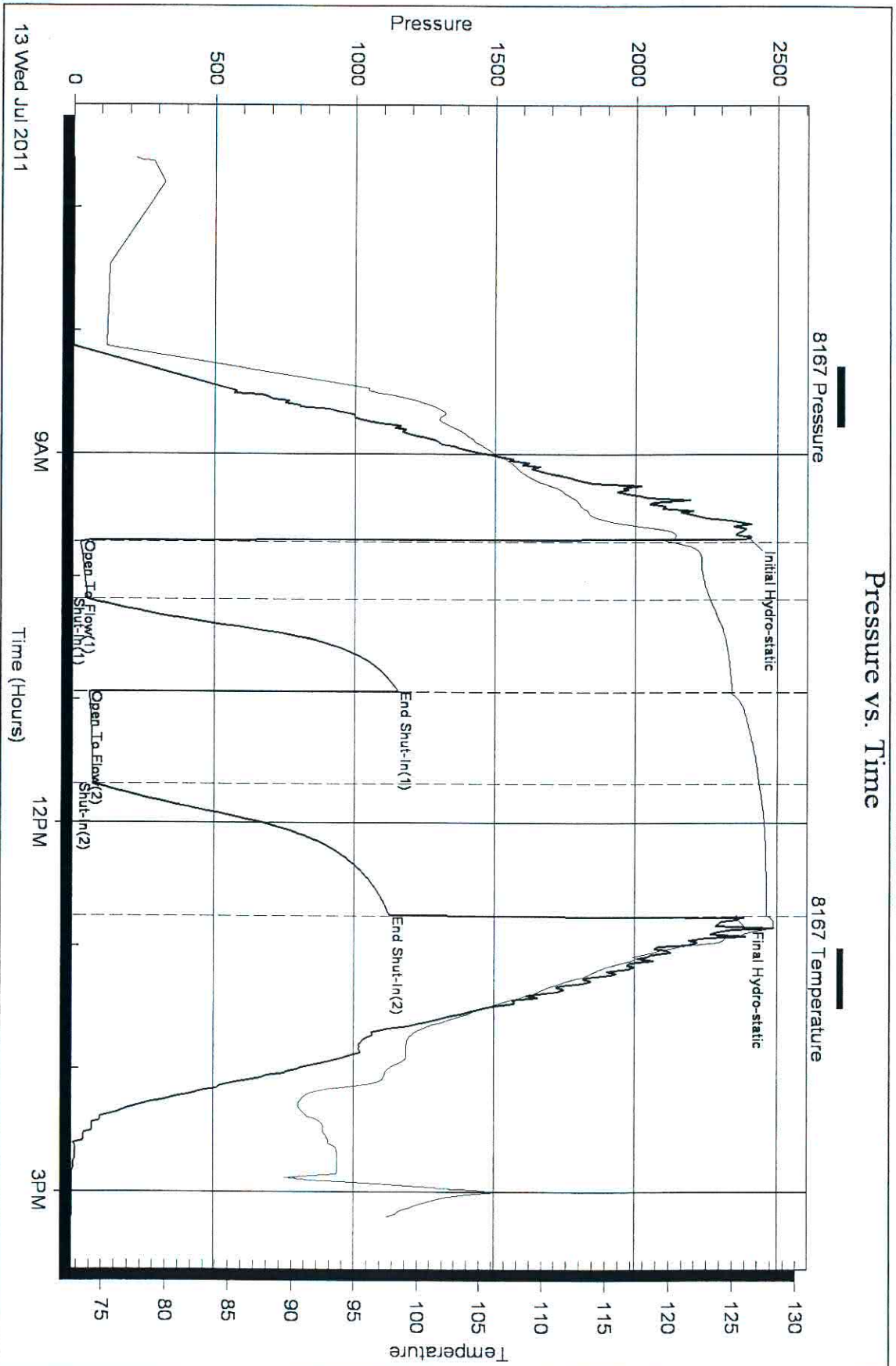
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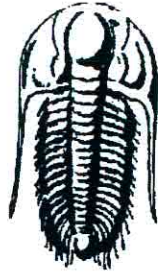
Charles N. Griffin

34-32s-12w Barber, KS

DST Test Number: 2

Pressure vs. Time





**TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Charles N.Griffin**

PO Box 347
Pratt KS 67124

ATTN: Bruce Reed

34-32s-12w Barber,KS

Randels #2

Start Date: 2011.07.13 @ 23:59:18

End Date: 2011.07.14 @ 07:21:18

Job Ticket #: 042515 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Charles N.Griffin

Randels #2

34-32s-12w Barber,KS

DST # 3

Simpson

2011.07.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Charles N.Griffin

Randels #2

PO Box 347
Pratt KS 67124

34-32s-12w Barber,KS

ATTN: Bruce Reed

Job Ticket: 042515

DST#: 3

Test Start: 2011.07.13 @ 23:59:18

GENERAL INFORMATION:

Formation: **Simpson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:58:03
 Time Test Ended: 07:21:18

Test Type: Conventional Bottom Hole
 Tester: Gary Pevoteaux
 Unit No: 56

Interval: **4810.00 ft (KB) To 4816.00 ft (KB) (TVD)**
 Total Depth: 4816.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1569.00 ft (KB)
 1561.00 ft (CF)
 KB to GR/CF: 8.00 ft

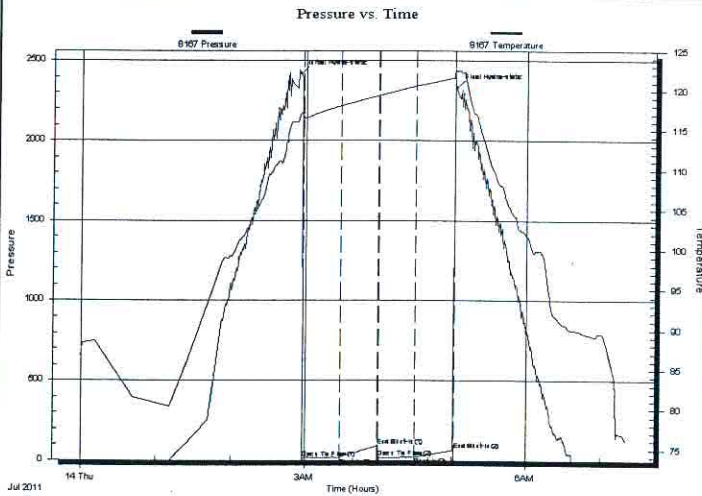
Serial #: 8167

Inside

Press@RunDepth: 20.12 psig @ 4811.00 ft (KB)
 Start Date: 2011.07.13 End Date: 2011.07.14
 Start Time: 23:59:23 End Time: 07:21:17

Capacity: 8000.00 psig
 Last Calib.: 2011.07.14
 Time On Btmr: 2011.07.14 @ 02:55:33
 Time Off Btmr: 2011.07.14 @ 05:02:33

TEST COMMENT: IF:Weak blow . Slow increase to 4 1/2".
 IS:No blow .
 FF:Weak blow . 1 - 3".
 FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2418.77	117.09	Initial Hydro-static
3	12.70	116.50	Open To Flow (1)
33	16.80	118.05	Shut-In(1)
64	91.70	119.35	End Shut-In(1)
64	15.33	119.36	Open To Flow (2)
94	20.12	120.54	Shut-In(2)
126	64.07	121.65	End Shut-In(2)
127	2333.15	122.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM 20%o 80%nm Clean oil@ top of tool	0.15
0.00	90 ft.of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N.Griffin

Randels #2

PO Box 347
Pratt KS 67124

34-32s-12w Barber,KS

Job Ticket: 042515

DST#: 3

ATTN: Bruce Reed

Test Start: 2011.07.13 @ 23:59:18

Tool Information

Drill Pipe:	Length: 4664.00 ft	Diameter: 3.80 inches	Volume: 65.42 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 66.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4810.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	34.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

C.O. Sub	1.00			4783.00	
Shut in tool	5.00			4788.00	
HMV	5.00			4793.00	
Jars	5.00			4798.00	
Safety Joint	3.00			4801.00	
Packer	4.00			4805.00	28.00 Bottom Of Top Packer
Packer	5.00			4810.00	
Stubb	1.00			4811.00	
Recorder	0.00	8167	Inside	4811.00	
Recorder	0.00	8370	Outside	4811.00	
Bullnose	5.00			4816.00	6.00 Bottom Packers & Anchor

Total Tool Length: 34.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N.Griffin

Randels #2

PO Box 347
Pratt KS 67124

34-32s-12w Barber,KS

Job Ticket: 042515

DST#: 3

ATTN: Bruce Reed

Test Start: 2011.07.13 @ 23:59:18

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	5000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCM 20%o 80%m/Clean oil@ top of tool	0.148
0.00	90 ft.of GIP	0.000

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8167

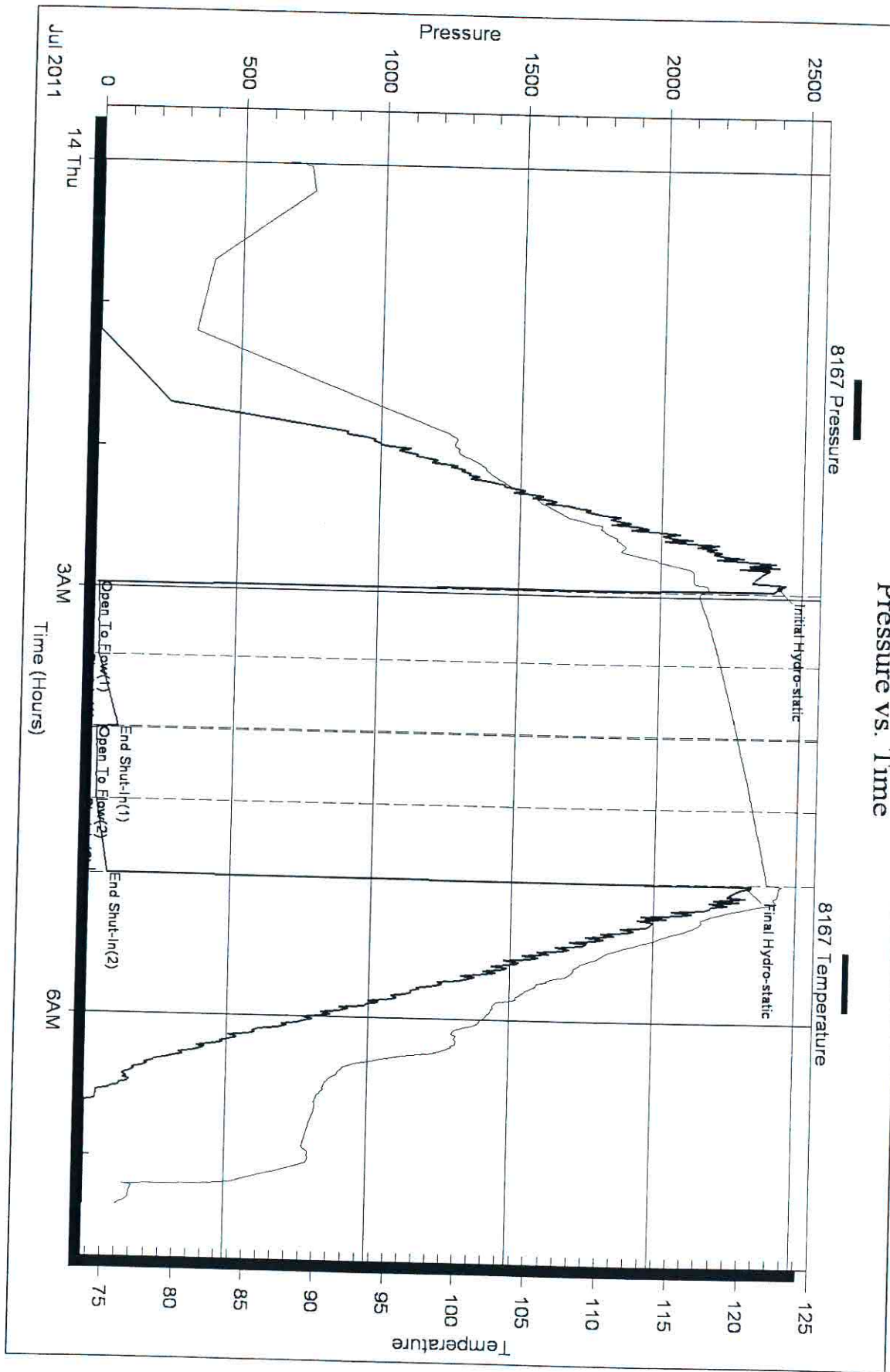
Inside

Charles N. Griffin

34-32s-12w Barber, KS

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 042515

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