



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Charles N Griffin**

PO Box 347  
Pratt KS 67124

ATTN: Bruce Reed

**2-34s-8w Harper,KS**

**Gates #1**

Start Date: 2010.12.15 @ 04:20:53

End Date: 2010.12.15 @ 12:33:53

Job Ticket #: 37403                      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Charles N Griffin

Gates #1

2-34s-8w Harper,KS

DST # 1

Miss

2010.12.15



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Charles N Griffin  
 PO Box 347  
 Pratt KS 67124  
 ATTN: Bruce Reed

**Gates #1**  
**2-34s-8w Harper,KS**  
 Job Ticket: 37403      DST#: 1  
 Test Start: 2010.12.15 @ 04:20:53

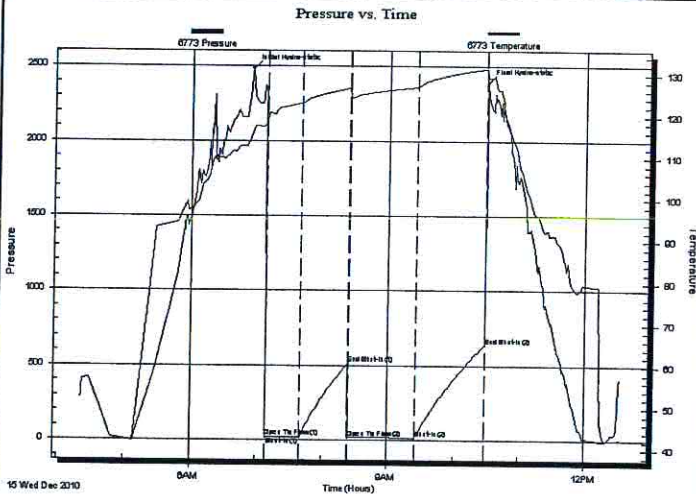
**GENERAL INFORMATION:**

Formation: **Miss**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: 07:09:08  
 Time Test Ended: 12:33:53  
 Interval: **4635.00 ft (KB) To 4654.00 ft (KB) (TVD)**  
 Total Depth: **4654.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Esak Hadley**  
 Unit No: **34**  
 Reference Elevations: **1395.00 ft (KB)**  
                                   **1384.00 ft (CF)**  
                                   **KB to GR/CF: 11.00 ft**

**Serial #: 6773**      **Inside**  
 Press@RunDepth: **16.77 psig @ 4636.00 ft (KB)**  
 Start Date: **2010.12.15**      End Date: **2010.12.15**  
 Start Time: **04:20:58**      End Time: **12:33:52**  
 Capacity: **8000.00 psig**  
 Last Calib.: **2010.12.15**  
 Time On Btm: **2010.12.15 @ 06:55:38**  
 Time Off Btm: **2010.12.15 @ 10:29:53**

**TEST COMMENT:** IF Strong blow . BOB in 30 sec.  
 ISI No blow .  
 FF Strong blow . BOB in 2 sec.  
 FSI No blow .

**PRESSURE SUMMARY**



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2482.87	115.91	Initial Hydro-static
14	20.10	119.11	Open To Flow (1)
45	18.99	123.03	Shut-In(1)
88	510.05	126.67	End Shut-In(1)
89	14.89	124.63	Open To Flow (2)
150	16.77	126.88	Shut-In(2)
214	635.64	131.33	End Shut-In(2)
215	2389.94	129.27	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
15.00	SGCM 2%g 98%m	0.21
0.00	GIP 868 ft	0.00

**Gas Rates**

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



**TRILOBITE**  
TESTING, INC

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Charles N Griffin

Gates #1

PO Box 347  
Pratt KS 67124

2-34s-8w Harper, KS

Job Ticket: 37403

DST#: 1

ATTN: Bruce Reed

Test Start: 2010.12.15 @ 04:20:53

### Tool Information

Drill Pipe:	Length: 4644.00 ft	Diameter: 3.80 inches	Volume: 65.14 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: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 65.14 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4635.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	40.00 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			4615.00	
Shut In Tool	5.00			4620.00	
Hydraulic tool	5.00			4625.00	
Packer	5.00			4630.00	21.00 Bottom Of Top Packer
Packer	5.00			4635.00	
Stubb	1.00			4636.00	
Recorder	0.00	8166	Outside	4636.00	
Recorder	0.00	6773	Inside	4636.00	
Perforations	15.00			4651.00	
Bullnose	3.00			4654.00	19.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>40.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N Griffin

Gates #1

PO Box 347  
Pratt KS 67124

2-34s-8w Harper, KS

Job Ticket: 37403

DST#: 1

ATTN: Bruce Reed

Test Start: 2010.12.15 @ 04:20:53

## 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: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	SGCM 2%g 98%m	0.210
0.00	GIP 868 ft	0.000

Total Length: 15.00 ft      Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

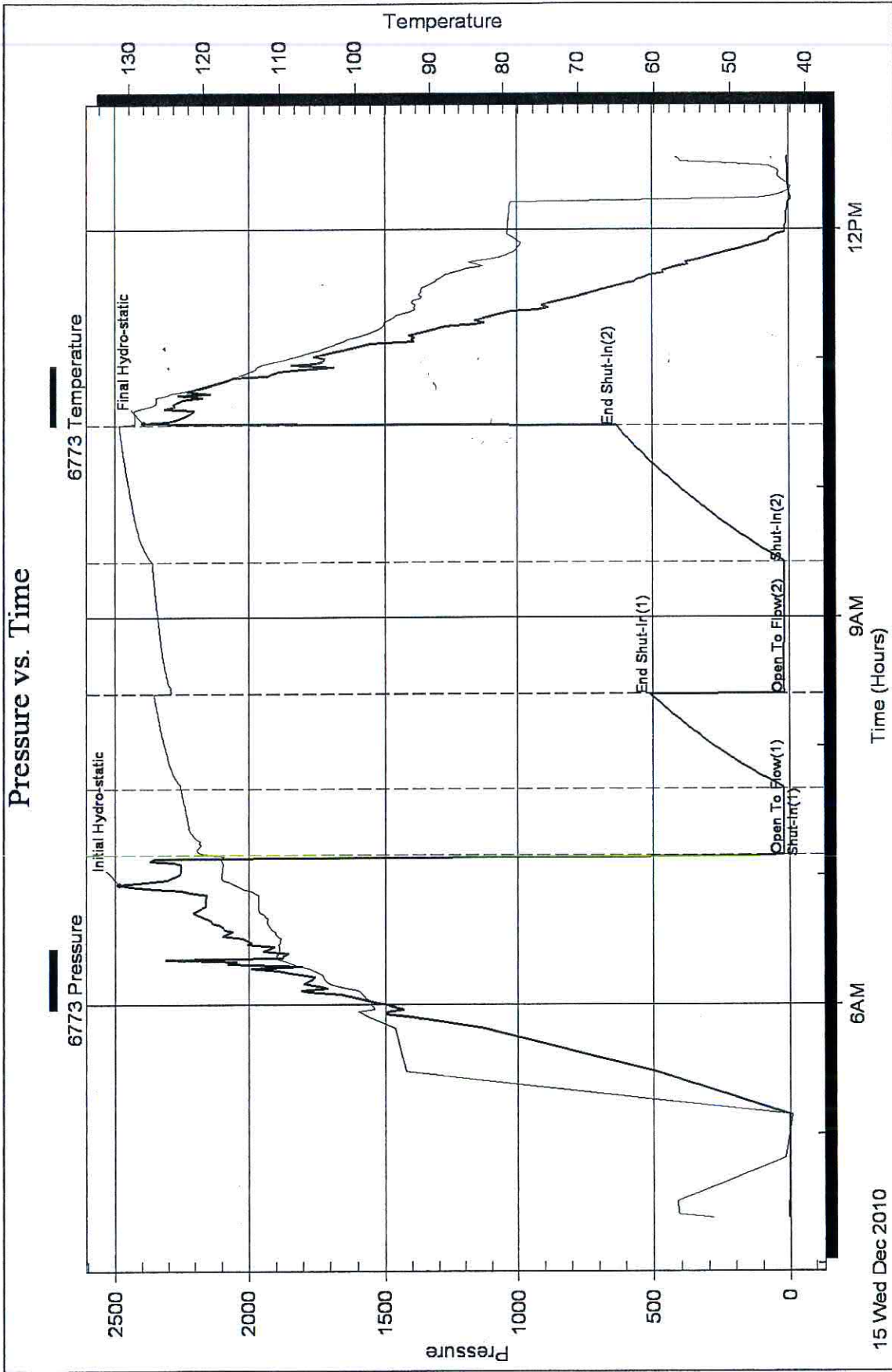
Serial #:

Laboratory Name:

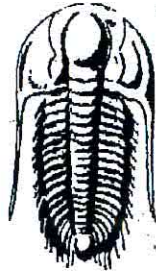
Laboratory Location:

Recovery Comments:

### Pressure vs. Time



15 Wed Dec 2010



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Charles N Griffin**

PO Box 347  
Pratt KS 67124

ATTN: Bruce Reed

**2-34s-8w Harper,KS**

**Gates #1**

Start Date: 2010.12.16 @ 01:51:47

End Date: 2010.12.16 @ 10:10:17

Job Ticket #: 37404                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Charles N Griffin

Gates #1

2-34s-8w Harper,KS

DST # 2

Miss

2010.12.16



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Charles N Griffin

**Gates #1**

PO Box 347  
Pratt KS 67124

**2-34s-8w Harper,KS**

Job Ticket: 37404

**DST#: 2**

ATTN: Bruce Reed

Test Start: 2010.12.16 @ 01:51:47

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:52:17

Time Test Ended: 10:10:17

Test Type: Conventional Bottom Hole

Tester: Esak Hadley

Unit No: 34

Interval: 4688.00 ft (KB) To 4698.00 ft (KB) (TVD)

Total Depth: 4698.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1395.00 ft (KB)

1384.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 6773** Inside

Press@RunDepth: 56.27 psig @ 4689.00 ft (KB)

Start Date: 2010.12.16

End Date: 2010.12.16

Start Time: 01:51:52

End Time: 10:10:16

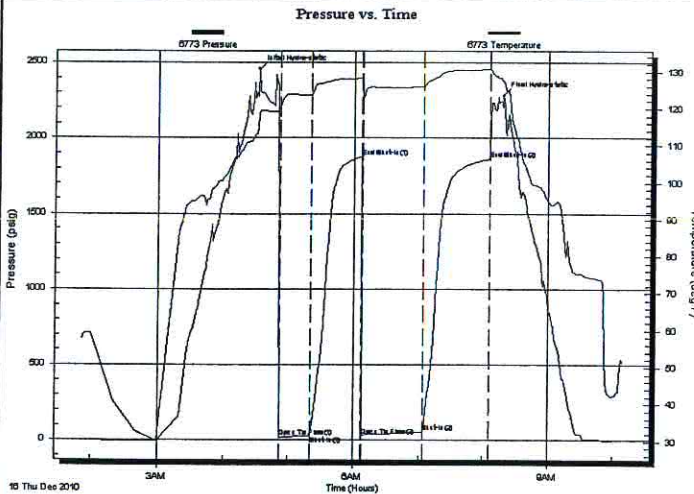
Capacity: 8000.00 psig

Last Calib.: 2010.12.16

Time On Btm: 2010.12.16 @ 04:32:32

Time Off Btm: 2010.12.16 @ 08:17:47

**TEST COMMENT:** IF Weak blow . BOB in 5 min.  
ISI No blow .  
FF Strong blow . BOB in 2 sec. GTS in 60 min.  
FSI No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2457.15	118.68	Initial Hydro-static
20	20.59	120.44	Open To Flow (1)
48	30.54	123.56	Shut-In(1)
95	1877.12	128.24	End Shut-In(1)
96	29.80	123.89	Open To Flow (2)
152	56.27	126.07	Shut-In(2)
213	1861.50	130.65	End Shut-In(2)
226	2282.23	127.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	O&GCWM 5%o 10%g 10%w 75%m	0.56
60.00	W&OCMG 10%w 15%o 35%m 40%g	0.84

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Charles N Griffin

**Gates #1**

PO Box 347  
Pratt KS 67124

**2-34s-8w Harper,KS**

Job Ticket: 37404

**DST#: 2**

ATTN: Bruce Reed

Test Start: 2010.12.16 @ 01:51:47

**Tool Information**

Drill Pipe:	Length: 4675.00 ft	Diameter: 3.80 inches	Volume: 65.58 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: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 72000.00 lb
			<b>Total Volume: 65.58 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4688.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	31.00 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
Change Over Sub	1.00			4668.00	
Shut In Tool	5.00			4673.00	
Hydraulic tool	5.00			4678.00	
Packer	5.00			4683.00	21.00 Bottom Of Top Packer
Packer	5.00			4688.00	
Stubb	1.00			4689.00	
Recorder	0.00	8166	Outside	4689.00	
Recorder	0.00	6773	Inside	4689.00	
Perforations	6.00			4695.00	
Bullnose	3.00			4698.00	10.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>31.00</b>				





**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N Griffin

Gates #1

PO Box 347  
Pratt KS 67124

2-34s-8w Harper, KS

Job Ticket: 37404

DST#: 2

ATTN: Bruce Reed

Test Start: 2010.12.16 @ 01:51:47

## 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:

bbbl

Water Loss: 8.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	O&GCWM 5%o 10%g 10%w 75%m	0.561
60.00	W&OCMG 10%w 15%o 35%m 40%g	0.842

Total Length: 100.00 ft

Total Volume: 1.403 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6773

Inside

Charles N Griffin

2-34s-8w Harper,KS

DST Test Number: 2

### Pressure vs. Time

