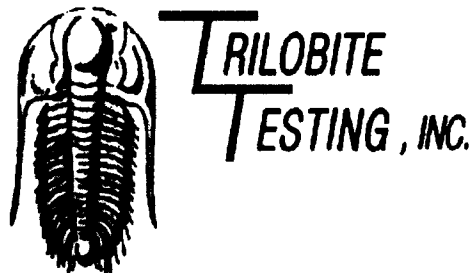


*Ind*



## DRILL STEM TEST REPORT

Prepared For: **Hart Energies LLC**

6903 So.78th East Ave.  
Tulsa Ok.74133

ATTN: Bill Hart

**22-34s-10w Barber Ks**

**Griffin#1**

Start Date: 2010.03.31 @ 04:47:26

End Date: 2010.03.31 @ 14:04:41

Job Ticket #: 36164                      DST #: 1

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

**RECEIVED**  
**OCT 07 2010**  
**KCC WICHITA**

Hart Energies LLC

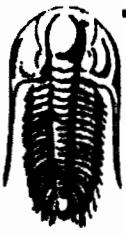
Griffin#1

22-34s-10w Barber Ks

DST # 1

Miss.

2010.03.31



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Hart Energies LLC  
6903 So.78th East Ave.  
Tulsa Ok.74133  
  
ATTN: Bill Hart

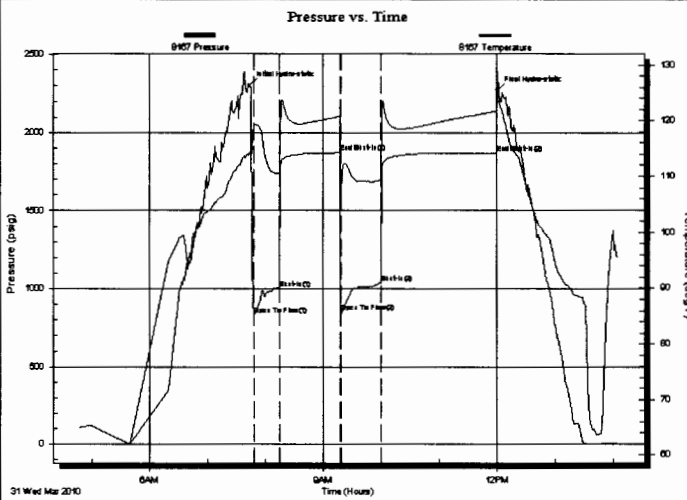
Griffin#1  
**22-34s-10w Barber Ks**  
Job Ticket: 36164      DST#: 1  
Test Start: 2010.03.31 @ 04:47:26

## GENERAL INFORMATION:

Formation: **Miss.**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 07:47:56  
Time Test Ended: 14:04:41  
  
Interval: **4615.00 ft (KB) To 4665.00 ft (KB) (TVD)**  
Total Depth: **4665.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: Fair  
  
Test Type: Conventional Bottom Hole  
Tester: Gary Pevoteaux  
Unit No: 39  
  
Reference Elevations: 1337.00 ft (KB)  
1328.00 ft (CF)  
KB to GR/CF: 9.00 ft

**Serial #: 8167**      **Inside**  
Press@RunDepth: 1039.01 psig @ 4616.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2010.03.31      End Date: 2010.03.31      Last Calib.: 2010.03.31  
Start Time: 04:47:31      End Time: 14:04:41      Time On Btm: 2010.03.31 @ 07:43:56  
Time Off Btm: 2010.03.31 @ 12:00:55

**TEST COMMENT:** IF:Strong blow . GTS in 2 mins.(see gas flow report)  
IS:Weak blow . 1".  
FF:Strong blow . (see gas flow report)  
FS:Weak blow . 1 - 3".



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2302.70	114.24	Initial Hydro-static
4	836.16	119.00	Open To Flow (1)
32	1001.83	110.41	Shut-In(1)
94	1872.27	120.76	End Shut-In(1)
96	850.87	106.63	Open To Flow (2)
136	1039.01	109.27	Shut-In(2)
256	1871.83	121.65	End Shut-In(2)
257	2273.69	128.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig.mud	0.05
30.00	Condensate	0.15

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	140.00	4438.82
Last Gas Rate	1.00	170.00	5301.28
Max. Gas Rate	1.00	170.00	5301.28



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Hart Energies LLC  
6903 So.78th East Ave.  
Tulsa Ok.74133  
  
ATTN: Bill Hart

**Griffin#1**  
**22-34s-10w Barber Ks**  
Job Ticket: 36164      **DST#: 1**  
Test Start: 2010.03.31 @ 04:47:26

**Tool Information**

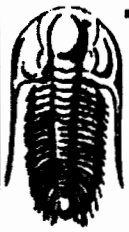
Drill Pipe:	Length: 4383.00 ft	Diameter: 3.80 inches	Volume: 61.48 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 71000.00 lb
		Total Volume: 62.68 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4615.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4596.00	
Shut in tool	5.00			4601.00	
<b>HMV</b>	5.00			4606.00	
Packer	4.00			4610.00	20.00      Bottom Of Top Packer
Packer	5.00			4615.00	
Stubb	1.00			4616.00	
Recorder	0.00	8167	Inside	4616.00	
Recorder	0.00	8370	Outside	4616.00	
Perforations	6.00			4622.00	
C.O. Sub	1.00			4623.00	
Blank Spacing	32.00			4655.00	
C.O. Sub	1.00			4656.00	
Perforations	4.00			4660.00	
Bullnose	5.00			4665.00	50.00      Bottom Packers & Anchor

**Total Tool Length: 70.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Hart Energies LLC  
6903 So.78th East Ave.  
Tulsa Ok.74133

**Griffin#1**  
**22-34s-10w Barber Ks**  
Job Ticket: 36164      DST#: 1  
Test Start: 2010.03.31 @ 04:47:26

ATTN: Bill Hart

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 47.7 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 3000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.19 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
10.00	Drig.mud	0.049
30.00	Condensate	0.148

Total Length: 40.00 ft      Total Volume: 0.197 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 1      Serial #: gp-1  
 Laboratory Name: caraway      Laboratory Location:  
 Recovery Comments:



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**GAS RATES**

Hart Energies LLC  
6903 So.78th East Ave.  
Tulsa Ok.74133

**Griffin#1**  
**22-34s-10w Barber Ks**  
Job Ticket: 36164      **DST#: 1**  
Test Start: 2010.03.31 @ 04:47:26

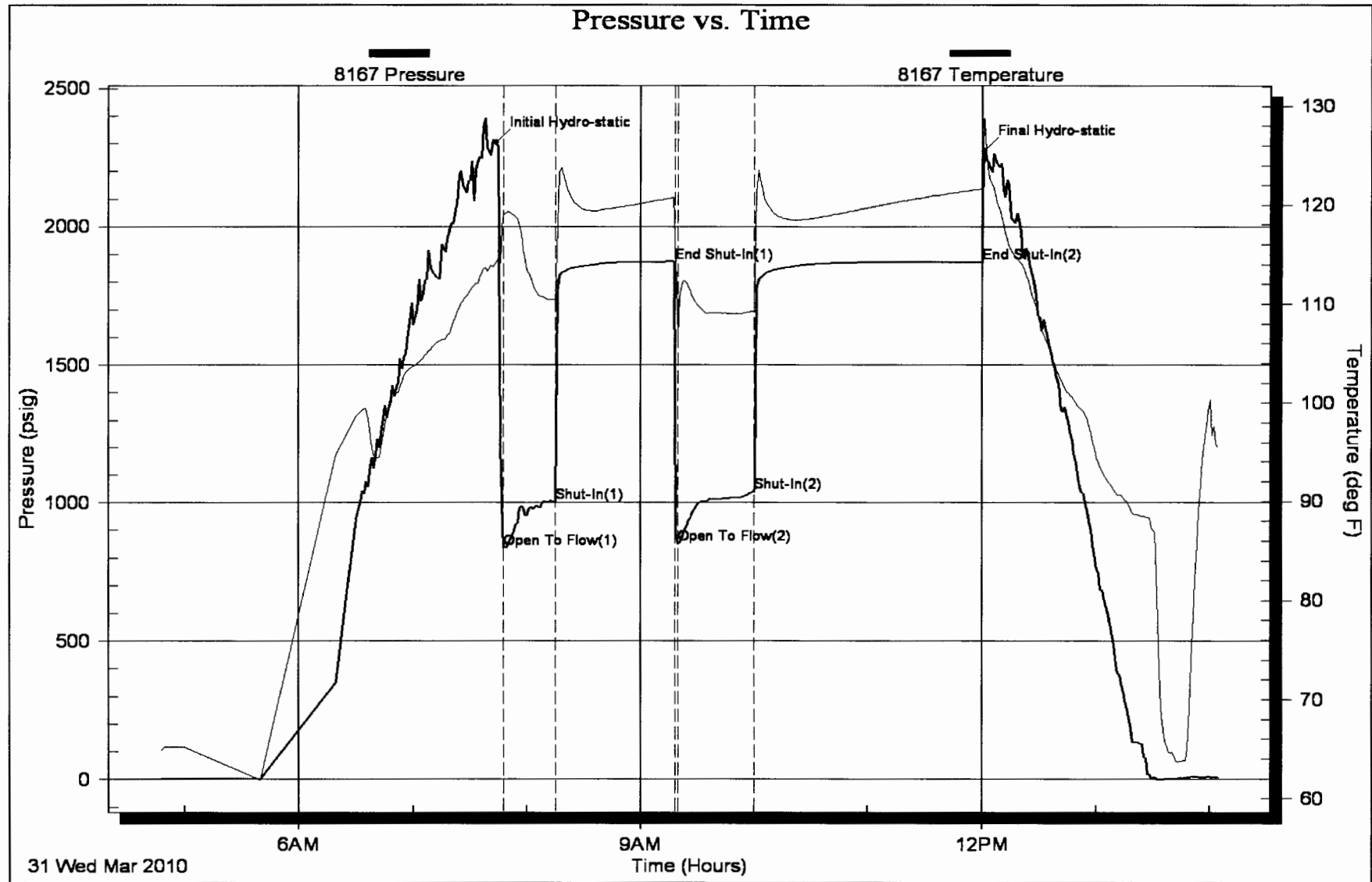
ATTN: Bill Hart

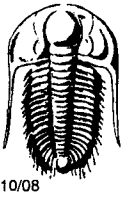
## Gas Rates Information

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 <sup>3</sup> /d)
1	10	1.00	140.00	4438.82
1	10	1.00	140.00	4438.82
1	20	1.00	150.00	4726.31
1	30	1.00	158.00	4956.30
2	10	1.00	151.00	4755.05
2	20	1.00	160.00	5013.79
2	30	1.00	170.00	5301.28





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

BY:

email hartenergies@netzero.com

APR 08 2010

## Test Ticket

NO. 36164 14057

Well Name & No. Griffin #1 Test No. 1 Date 3-31-10  
 Company Hart Energies LLC Elevation 1337 KB 1328 GL  
 Address 6903 So. 78th East Ave. Tulsa Ok 74133  
 Co. Rep / Geo. Bill Hart Rig H-2 Dely #3  
 Location: Sec. 22 Twp. 34S Rge. 10W Co. Barber State Ks.

Interval Tested 4615 - 4665 Zone Tested Miss.  
 Anchor Length 50' Drill Pipe Run 4383 Mud Wt. 9.4  
 Top Packer Depth 4610' Drill Collars Run 244' Vis 48  
 Bottom Packer Depth 4615 Wt. Pipe Run 0 WL 9.2 cc  
 Total Depth 4665 Chlorides 3,000 ppm System LCM 0  
 Blow Description IF: Strong blow GTS in 2 mins (see gas flow report)  
ISI: Weak blow 1"  
FF: Strong blow (see gas flow report) FSI: Weak blow 1-3"

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Condensate</u>				
<u>10</u>	<u>Dely. Mud.</u>				

Rec Total 40 Fluid BHT 122 Gravity 47.1 API RW N.C. @ - °F Chlorides 3,000 ppm

(A) Initial Hydrostatic <u>2303</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0340</u>
(B) First Initial Flow <u>836</u>	<input type="checkbox"/> Jars	T-Started <u>0447</u>
(C) First Final Flow <u>1002</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0747</u>
(D) Initial Shut-In <u>1872</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1203</u>
(E) Second Initial Flow <u>851</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1404</u>
(F) Second Final Flow <u>1039</u>	<input checked="" type="checkbox"/> Mileage <u>120</u>	Comments <u>Monster Pump</u>
(G) Final Shut-In <u>1872</u>	<input type="checkbox"/> Sampler	<u>10% decant</u>
(H) Final Hydrostatic <u>2248</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Sub Total
Final Shut-In <u>120</u>	<input type="checkbox"/> Accessibility	Total <u>1270.00</u>
	Sub Total <u>1270.00</u>	

Approved By W. M. Hart Our Representative Craig P. [Signature]

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