



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Charles N. Griffin**

P O Box 347  
Pratt Ks 67124

ATTN: Charles Griffin

**31-33s-8w Harper,Ks**

**Dena B#1**

Start Date: 2010.09.06 @ 07:40:39

End Date: 2010.09.06 @ 15:55:03

Job Ticket #: 40142                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Charles N. Griffin

Dena B#1

31-33s-8w Harper,Ks

DST # 1

Miss

2010.09.06



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Job Ticket: 40142

DST#: 1

ATTN: Charles Griffin

Test Start: 2010.09.06 @ 07:40:39

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:30:04

Time Test Ended: 15:55:03

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: **4512.00 ft (KB) To 4530.00 ft (KB) (TVD)**

Reference Elevations: 1309.00 ft (KB)

Total Depth: 4530.00 ft (KB) (TVD)

1300.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

**Serial #: 6625**

Inside

Press@RunDepth: 143.59 psig @ 4513.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.09.06

End Date:

2010.09.06

Last Calib.: 2010.09.06

Start Time: 07:40:39

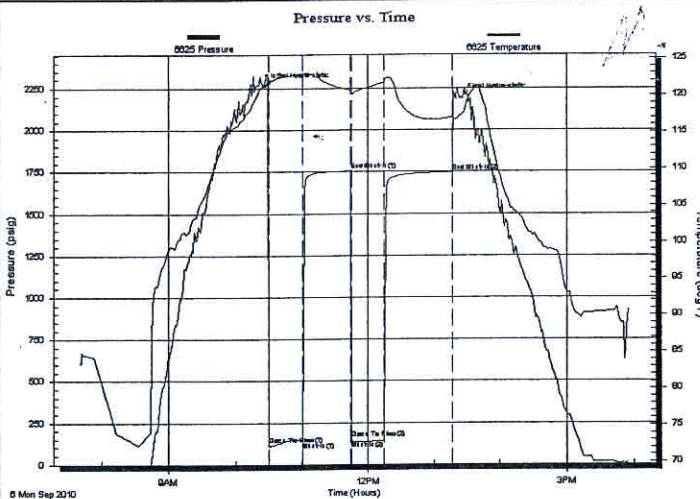
End Time:

15:55:03

Time On Btm: 2010.09.06 @ 10:25:34

Time Off Btm: 2010.09.06 @ 13:24:33

TEST COMMENT: IFP-strg bl GTS in 3 min  
FFP-GTS



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2264.75	121.16	Initial Hydro-static
5	122.49	121.41	Open To Flow (1)
35	139.78	122.63	Shut-In(1)
79	1756.41	120.67	End Shut-In(1)
80	153.34	120.24	Open To Flow (2)
110	143.59	121.84	Shut-In(2)
172	1748.76	117.06	End Shut-In(2)
179	2190.30	117.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	HO&GCM 20%G30%O50%M	0.28
60.00	MGO 20%G58%O10%W12%M	0.84

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	26.00	272.53
Last Gas Rate	0.75	26.00	631.04
Max. Gas Rate	0.50	48.00	420.93



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**TOOL DIAGRAM**

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ATTN: Charles Griffin

Test Start: 2010.09.06 @ 07:40:39

### Tool Information

Drill Pipe:	Length: 4511.00 ft	Diameter: 3.80 inches	Volume: 63.28 bbl	Tool Weight: 2200.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 63.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4512.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4492.00	
Shut In Tool	5.00			4497.00	
Hydraulic tool	5.00			4502.00	
Packer	5.00			4507.00	21.00 Bottom Of Top Packer
Packer	5.00			4512.00	
Stubb	1.00			4513.00	
Recorder	0.00	6625	Inside	4513.00	
Recorder	0.00	8652	Outside	4513.00	
Perforations	14.00			4527.00	
Bullnose	3.00			4530.00	18.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>39.00</b>				



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**FLUID SUMMARY**

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**DST#: 1**

ATTN: Charles Griffin

Test Start: 2010.09.06 @ 07:40:39

**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:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.74 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
20.00	HO&GCM 20%G30%O50%M	0.281
60.00	MGO 20%G58%O10%W12%M	0.842

Total Length: 80.00 ft      Total Volume: 1.123 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:





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## DRILL STEM TEST REPORT

**GAS RATES**

Charles N. Griffin

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### 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	5	0.50	26.00	272.53
1	5	0.50	26.00	272.53
1	15	0.50	48.00	420.93
2	5	0.75	23.00	584.18
2	15	0.75	26.00	631.04
2	25	0.75	26.00	631.04

### Pressure vs. Time

