



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Primal Energy O&G LLC  
 21021 Springbrook Plaza DR Suite 160  
 Spring TX 77379  
 ATTN: Charles Schmidt

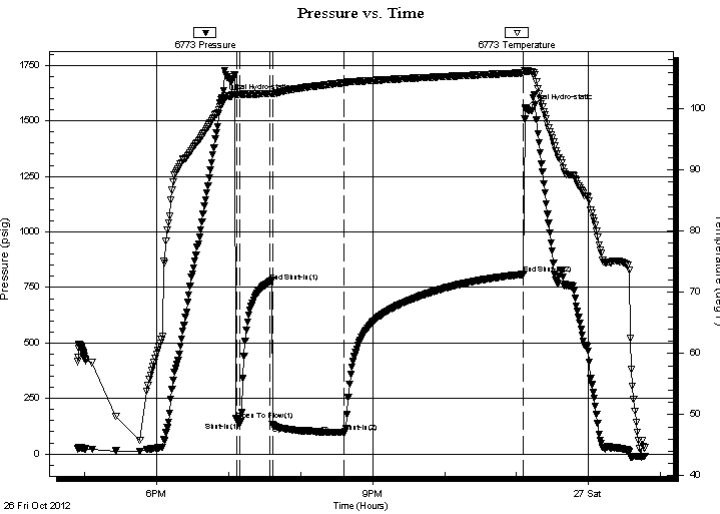
**11-19s-9w**  
**Longland # 1**  
 Job Ticket: 49669 **DST#: 2**  
 Test Start: 2012.10.26 @ 16:54:05

## GENERAL INFORMATION:

Formation: **Penn Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:07:05  
 Time Test Ended: 00:47:05  
 Interval: **3298.00 ft (KB) To 3318.00 ft (KB) (TVD)**  
 Total Depth: 3318.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Chris Staats  
 Unit No: 47  
 Reference Elevations: 1734.00 ft (KB)  
 1724.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6773 Outside**  
 Press @ Run Depth: 98.19 psig @ 3299.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.10.26 End Date: 2012.10.27 Last Calib.: 2012.10.27  
 Start Time: 16:54:10 End Time: 00:47:04 Time On Btm: 2012.10.26 @ 18:54:20  
 Time Off Btm: 2012.10.26 @ 23:07:35

**TEST COMMENT:** IF: Weak blow 3/4"  
 IS: No blow back  
 FF: Weak blow 3/4 died to a surface blow  
 FS: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1601.94	101.21	Initial Hydro-static
13	149.95	102.33	Open To Flow (1)
15	140.72	102.32	Shut-In(1)
40	775.19	102.49	End Shut-In(1)
43	131.33	102.42	Open To Flow (2)
102	98.19	104.23	Shut-In(2)
252	809.35	105.87	End Shut-In(2)
254	1555.20	106.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100%	0.05

\* Recovery from multiple tests

## Gas Rates

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



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**FLUID SUMMARY**

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**11-19s-9w**

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Spring TX 77379

**Longland # 1**

Job Ticket: 49669

**DST#: 2**

ATTN: Charles Schmidt

Test Start: 2012.10.26 @ 16:54:05

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7900.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MUD 100%	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6773

Outside Primal Energy O&G LLC

Longland # 1

DST Test Number: 2

