



State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas  
Well Operator's Report of Well Work

Farm Name: Plum Creek Timberlands Operator Well No. TNG #18  
Location: Elevation: 2475' Quadrangle: Craigsville  
District: Kentucky County: Nicholas  
Latitude: 8,390 Feet South of 38 Degrees 17 Minutes 30 Seconds  
Longitude: 5,920 Feet West of 80 Degrees 37 Minutes 30 Seconds

Company: Triana Energy, LLC  
900 Virginia Street, East, Suite 400  
Charleston, WV 25301

Agent: Ray Prudnick, Jr.  
Inspector: Dave Gilbert  
Permit Issued: 2/24/2010  
Well work Commenced: 3/2/2010  
Well work Completed: 3/16/2010  
Verbal Plugging Permission granted on: 3/14/2010  
Rotary  Cable Tool  Rig  
Total Depth (ft): LTD- 7397' DTD- 7394'

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
20"	25'	25'	Grout
9 5/8"	1060'	1060'	CTS
7"	3173'	3173'	285 sks
	No	Prod	Ran

Fresh Water Depths (ft): 1,845'  
Salt Water Depths (ft): 5" Stream @ 4,582  
Is coal being mined in area: Y  
Coal Depths: 1,029'

OPEN FLOW DATA:

Producing formation(s): N/A Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/D Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/D Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests: \_\_\_\_\_ Hours  
Static rock pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation(s): \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/D Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/D Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests: \_\_\_\_\_ Hours  
Static rock pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON THE BACK OF THIS FORM PUT THE FOLLOWING; 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2.)THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

FOR: Triana Energy, LLC

BY:

DATE: March 31, 2010

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**TNG #18 Plugging Operation:**

**Sunday March 14th, 2010: - Held Safety Meeting. TIH Open Ended to set cement plugs. Rigged Up Universal to perform cementing operation. Pumped water followed by 106' plug of Class "A" cement from 7,397' to 7,291' (Middle of the Marcellus). Then pulled four 31.5' joints of drill pipe. Reverse circulated with no returns. Waited on cement plug to set. Pumped second 475' plug of Class "A" cement from 7,291' to 6,816'. Then pulled 16 joints of 31.5' drill pipe. Reverse circulated with no returns. Waited on cement plug to set. Pumped third 475' plug of Class "A" cement from 6,816' to 6,341'. Laid down drill pipe and rigged down. On March 16th, 2010 rigged up Universal slick line unit to check TD. Tagged cement @ 6,079' KB. Released slick line unit and shut well in.**

## Formation Depths taken from Driller's and Gamma Ray Log

Strata	Depths	Remarks
Sub Base	0' -- 10'	
Sand	10' -- 140'	
Shale	140' -- 190'	
Sand and Shale	190' -- 390'	
Shale	390' -- 500'	
Sand and Shale	500' -- 830'	
Salt Sand	830' -- 880'	
Sand and Shale	880' -- 1020'	
Salt Sand	1020' -- 1040'	
Sand and Shale	1040' -- 1434'	
Ravenclyff	1434' -- 1536'	
Shale	1536' -- 1757'	
Lower Maxon	1757' -- 1830'	
Shale	1830' -- 1897'	
Little Lime	1897' -- 1942'	
Shale	1942' -- 1947'	
Blue Monday	1947' -- 2000'	
Shale	2000' -- 2031'	
Big Lime	2031' -- 2367'	
Keener	2367' -- 2450'	
Shale	2450' -- 2489'	
Weir	2489' -- 2618'	
Shale	2618' -- 2976'	
Berea	2976' -- 2984'	
Shale	2984' -- 3082'	
Gordon	3082' -- 3103'	
Shale	3103' -- 4971'	
Elk	4971' -- 5011'	
Shale	5011' -- 6390'	
Sycamore	6390' -- 6565'	
Shale	6565' -- 7270'	
Marcellus	7270' -- 7312'	
Onondaga	7312' --	
Chert	7312' -- TD	
	MTD 7394'	
	TVD	

Total Depth: LTD 7397'  
 DTD 7394'

Well Logged by: \_\_\_\_\_ Weatherford