

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas



Well Operator's Report of Well Work

Farm Name: **Drennan** Operator Well No. : **Nine (9)**  
 LOCATION: Elevation: **1137'** Quadrangle: **Oxford**  
 District: **Southwest** County: **Doddridge**  
 Latitude: **39.18112** Feet South of **39** Deg. **10** Min. **52.0** Sec.  
 Longitude: **80.75948** Feet West of **80** Deg. **45** Min. **34.1** Sec.

Company:	<b>Key Oil Company</b> <b>22 Garton Plaza</b> <b>Weston, WV 26452</b>	Casing	Used	Left	Cement
		&	In	In	Fill Up
		Tubing	Drilling	Well	Cu Ft
		Size			
Agent:	<b>Jan Chapman</b>				
Inspector:	<b>Douglas Newlon</b>	<b>13-3/8"</b>	<b>32'</b>	<b>Left in well</b>	<b>N/A</b>
Permit Issued:	<b>04-10-2013</b>				
Well Work Commenced:	<b>07-26-2013</b>	<b>9-5/8"</b>	<b>168'</b>	<b>168'</b>	<b>90 sks.</b>
Well Work Completed:	<b>07-31-2013</b>				<b>CTS</b>
Verbal Plugging	<b>N/A</b>	<b>7"</b>	<b>1185'</b>	<b>1185'</b>	<b>190 sks.</b>
Permission granted on:	<b>07-05-2013</b>				<b>CTS</b>
Rotary Cable Rig	<b>X</b>				
Total Depth ( feet )	<b>2889'</b>	<b>4-1/2"</b>	<b>2792'</b>	<b>2792'</b>	<b>160 sks.</b>
Fresh water depths ( ft )	<b>110'</b>				<b>ETC 1200'</b>
Salt water depths ( ft )	<b>1400'</b>				
Is coal being mined in area ( Y / N )?	<b>No</b>				
Coal Depths ( ft ):	<b>N/A</b>				

OPEN FLOW DATA

Producing formation	<b>Gantz &amp; Gordon</b> <b>Weir</b>	Pay zone depth ( ft )	<b>2404-2632</b> <b>2206-2280</b>
Gas: Initial open flow	<b>show</b> MCF / D	Oil: Initial open flow	<b>N/A</b> Bbl / D
Final open flow	<b>919</b> MCF / D	Oil: Final open flow	<b>N/A</b> Bbl / D
Time of open flow between initial and final tests	<b>72</b> Hours		
Static rock pressure	<b>900</b> psig ( surface pressure ) after	<b>72</b> Hours	

**All Formations Comingled.**

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

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Office of Oil and Gas

SEP 3 2013

WV Department of  
Environmental Protection

NOTE: ON 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: **KEY OIL COMPANY**

By:  **PRESIDENT**

Date: **August 22, 2013**

17-06242

**Drennan #9 (47-017-06242)**

**TREATMENT:**

<b>Gantz &amp; Gordon</b>	<b>(20 holes) 2404' – 2632'</b>	<b>sand, water and N2: 22,000# 20/40 sand, 281,000 SCF N2 160 bbl. water</b>
<b>Weir</b>	<b>(20 holes) 2206' – 2280'</b>	<b>sand, water and N2: 20,000# 20/40 sand, 238,000 SCF N2 126 bbl. water</b>

**FORMATIONS:**

<b>Sand &amp; Shale</b>	<b>0'</b>	<b>1640'</b>
<b>Salt Sand</b>	<b>1640'</b>	<b>1670'</b>
<b>Sand</b>	<b>1670'</b>	<b>1900'</b>
<b>Blue Monday</b>	<b>1900'</b>	<b>1930'</b>
<b>Big Lime</b>	<b>1930'</b>	<b>2000'</b>
<b>Injun</b>	<b>2000'</b>	<b>2060'</b>
<b>Sand &amp; Shale</b>	<b>2060'</b>	<b>2200'</b>
<b>Weir</b>	<b>2200'</b>	<b>2300'</b>
<b>Shale</b>	<b>2300'</b>	<b>2400'</b>
<b>Gantz</b>	<b>2400'</b>	<b>2410'</b>
<b>Sand</b>	<b>2410'</b>	<b>2620'</b>
<b>Gordon</b>	<b>2620'</b>	<b>2630'</b>
<b>Shale</b>	<b>2630'</b>	<b>2889'</b>
<b>TD</b>		<b>2889'</b>

10/11/2013