

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. : **Eight (8)**

LOCATION: Elevation: **1238** Quadrangle: **Oxford 7.5**
District: **Southwest** County: **Doddridge**
Latitude: **38.18715** Feet South of **39** Deg. **11** Min. **13.7** Sec.
Longitude: **80.75476** Feet West of **80** Deg. **45** Min. **17.1** Sec.

Company: **KEY OIL COMPANY**
22 GARTON PLAZA
WESTON, WV 26452

Agent: **Jan E. Chapman**
Inspector: **Dave Scranage**
Permit Issued: **06-10-12**
Well Work Commenced: **08-29-12**
Well Work Completed: **09-07-12**
Verbal Plugging **N/A**
Permission granted on: **08-10-11**
Rotary X Cable Rig

Casing & Tubing Size	Used In Drilling	Left In Well	Cement Fill Up Cu Ft
11"	32'	pulled	N/A
9-5/8"	168'	168'	70 sks. CTS
7"	1356'	1356'	180 sks. CTS
4-1/2"	2890'	2890'	160 sks. ETOC 1100'

Total Depth (feet) **2979'**
Fresh water depths (ft) **103'**
Salt water depths (ft) **1400'**
Is coal being mined in area (Y / N)? **No**
Coal Depths (ft): **NA**

OPEN FLOW DATA **Gantz & Gordon** **2492-2720**
Weir **2298-2366**
Keener & Injun **2084-2121**

Producing formation **Blue Monday** Pay zone depth (ft) **2000-2010**
Gas: Initial open flow **97** MCF / D Oil: Initial open flow **Show** Bbl / D
Final open flow **750** MCF / D Oil: Final open flow **2** Bbl / D
Time of open flow between initial and final tests **24** Hours
Static rock pressure **925** psig (surface pressure) after **24** 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

RECEIVED
Office of Oil and Gas
FEB 25 2015
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: *Jan Chapman* **PRESIDENT**
Date: **October 18, 2012**

17-06125

Drennan #8 (47-017-06125)

TREATMENT:

Gantz & Gordon	(20 holes) 2492-2720	sand, water and N2: 30,000# 20/40 sand, 275,000 SCF N2, and 172 bbl. water
Weir	(22 holes) 2296-2366	sand, water and N2: 20,000# 20/40 sand, 197,000 SCF N2, and 133 bbl. water
Keener & Injun	(20 holes) 2084-2121	sand, water and N2: 25,000# 20/40 sand, 268,000 SCF N2, and 156 bbl. water
Blue Monday	(20 holes) 2000-2010	sand, water and N2: 6,000# 20/40 sand, 130,000 SCF N2, and 96 bbl. water

FORMATIONS:

Sand & Shale	0'	1350'
Salt Sands	1360'	1650'
Shale	1650'	1980'
Little Lime	1980'	2000'
Blue Monday	2000'	2020'
Shale	2020'	2070'
Keener	2070'	2110'
Injun	2110'	2160'
Sand & Shale	2150'	2290'
Weir	2290'	2380'
Shale	2380'	2490'
Gantz	2480'	2500'
Shale	2500'	2710'
Gordon	2710'	2720'
Shale	2720'	2979'
TD		2979'

RECEIVED
Office of Oil and Gas

FEB 25 2015

WV Department of
Environmental Protection