

August 15, 2010

API # 47 - 041- 05618

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



Well Operator's Report of Well Work

Farm Name: **Mullooly**

Operator Well No. : **Eight (8)**

LOCATION: Elevation: **1427**
District: **Court House**
Latitude: **12,525**
Longitude: **5,865**

Quadrangle: **Weston**
County: **Lewis**
Feet South of **39** Deg. **02** Min. **30** Sec.
Feet West of **80** Deg. **25** Min. **00** Sec.

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

Casing & Tubing Size	Used In Drilling	Left In Well	Cement Fill Up Cu Ft
9-5/8"	126	126	70 Cu Ft
7"	1389	1389	287 Cu Ft
4-1/2"		6622	282 Cu Ft

Agent: **Jan E. Chapman**

Inspector: **Tim Bennett**

Permit Issued: **06-16-10**

Well Work Commenced: **07-20-10**

Well Work Completed: **08-03-10**

Verbal Plugging

Permission granted on:

Rotary X Cable Rtg

Total Depth (feet) **6720**

Fresh water depths (ft) **57' & 1149'**

Salt water depths (ft) **NR**

Is coal being mined in area (Y / N)? **No**

Coal Depths (ft): **NR**

OPEN FLOW DATA

Sycamore	6268-6507
Elk	5692-6007
Alexander	5200-5471
Riley	4533-4763
Balltown	4120-4145
Warren	3571-3781

Producing formation **Warren** Pay zone depth (ft) **3571-3781**

Gas: Initial open flow **80** MCF / D Oil: Initial open flow **0** Bbl / D
 Final open flow **1,517** MCF / D Oil: Final open flow **0** Bbl / D
 Time of open flow between initial and final tests **N/A** Hours

Static rock pressure **1,320** psig (surface pressure) after **48** Hours

All Formations Comingled.

Second producing formation

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

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.

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Office of Oil and Gas

For: **KEY OIL COMPANY**

By: *Jan Chapman*

PRESIDENT

JUL 23 2013

Date: **August 25, 2010**

41-05618

Mullooly No. 8 (47-041-05618)

TREATMENT:

Sycamore Grit 6268-6503 (13 Holes)	500 GA, 30,000# 20/40 Sand & 549 Bbls. 60 Quality Foam
Elk & Alexander 5202-6002 (14 Holes)	1,000 GA, 25,000# 20/40 Sand & 493 Bbls. 60 Quality Foam
Riley & Balltown 4127-4761 (14 Holes)	1,000 GA, 5,000# 80/100 Sand, 30,000# 20/40 Sand & 607 Bbls. 60 Quality Foam
Warren & Elizabeth 3439-3778 (15 Holes)	750 GA, 5,000# 80/100 Sand, 35,000# 20/40 Sand & 593 Bbls. 60 Quality Foam

FORMATIONS:

Fill	0	15	
Red Rock	15	20	
Sand/Shale	20	105	Water @ 57' - 1/4"
Red Rock	105	115	
Sandy Shale	115	160	
Red Rock	160	170	
Sand/Shale	170	1118	
Sand	1118	1188	Water @ 1149' - 1"
Sand/Shale	1188	1298	
Sand	1298	1418	
Sand/Shale	1418	1690	
Little Lime	1690	1800	
Sand/Shale	1800	1900	
Big Lime	1900	2170	
Big Injun	2170	2250	Gas Ck @ 2226' - N/S (Oil Odor)
Sand/Shale	2250	3580	
Speechly	3580	3780	
Balltown	3780	5000	Gas Ck @ 4926' - Odor
Benson	5000	5080	Gas Ck @ 5076' - 2/10 in 2" W/W = 60 Mcf
Sand/Shale	5080	5097	
Alexander	5097	5177	
Sand/Shale	5177	5785	Gas Ck @ 5750' - 2/10 in 2" W/W = 60 Mcf
1st Elk	5785	6000	
2nd Elk	6000	6300	
Sycamore	6300	6520	
Sand/Shale	6520	6720	Gas Ck @ 6720' - 4/10 in 2" W/W = 45 Mcf
RTD	6720		

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**WV Department of
Environmental Protection**

08/16/2013