

August 15, 2010

API # 47 - 041- 05617

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. : **Seven (7)**

LOCATION: Elevation: **1461**
District: **Court House**
Latitude: **12,050**
Longitude: **6,840**

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" | 135 | 135 | 70 Cu Ft |
| 7" | 1390 | 1390 | 294 Cu Ft |
| 4-1/2" | | 6410 | 485 Cu Ft |

Agent: **Jan E. Chapman**

Inspector: **Tim Bennett**

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

Well Work Commenced: **07-14-10**

Well Work Completed: **07-27-10**

Verbal Plugging

Permission granted on:

Rotary X Cable **Rig**

Total Depth (feet) **6750**

Fresh water depths (ft) **1210**

Salt water depths (ft) **NR**

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

Coal Depths (ft): **NR**

OPEN FLOW DATA **Sycamore** **6231-6334**

Elk **6021-6025**

Producing formation **Warren** Pay zone depth (ft) **3598-3808**

Gas: Initial open flow **Show** MCF / D Oil: Initial open flow **0** Bbl / D

Final open flow **2,398** MCF / D Oil: Final open flow **0** Bbl / D

Time of open flow between initial and final tests **N/A** Hours

Static rock pressure **1,550** psig (surface pressure) after **48** 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**

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 15, 2010**

RECEIVED
Office of Oil and Gas

JUL 23 2013

41-05617

Mullocy No. 7 (47-041-05617)

TREATMENT:

Sycamore & Elk 6022-6333 (14 Holes)

500 GA, 30,000# 20/40 Sand & 548 Bbls. 60 Quality Foam

Warren 3604-3806 (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 | 158 |
| Shale/Red Rock | 158 | 874 |
| Sand/Shale | 874 | 1915 |
| Big Lime | 1915 | 1995 |
| Sand/Shale | 1995 | 2185 |
| Big Injun | 2185 | 2406 |
| Sandy Shale | 2406 | 3815 |
| Balltown | 3815 | 3855 |
| Sand/Shale | 3855 | 4978 |
| Benson | 4978 | 5112 |
| Alexander | 5112 | 5810 |
| 1 st Elk | 5810 | 6030 |
| 2 nd Elk | 6030 | 6100 |
| Sand/Shale | 6100 | 6290 |
| Sycamore | 6290 | 6610 |
| Sand/Shale | 6610 | 6750 |
| RTD | 6750 | |

Water @ 1210 - 1" Stream

Gas Ck @ 1926 - N/S

Gas Ck @ 2256 - N/S

Gas Ck @ 3576 - N/S

Gas Ck @ 3816 - N/S

Gas Ck @ 4956 - N/S

Gas Ck @ 5106 - N/S

Gas Ck @ 5750 - N/S

Gas Ck @ 6006 - N/S

Gas Ck @ 6276 - Odor

RECEIVED
Office of Oil and Gas

JUL 23 2013

WV Department of
Environmental Protection

08/16/2013