

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

Well Operator's Report of Well Work

Farm Name: **Frank Maxwell**

Operator Well No. : **Four A (4A)**

LOCATION: Elevation: **1165** Quadrangle: **New Milton 7.5**
District: **New Milton** County: **Doddridge**
Latitude: **39.23632** Feet South of **39** Deg. **14** Min. **10.7** Sec.
Longitude: **80.70539** Feet West of **80** Deg. **42** Min. **19.4** 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
11"	32'	32'	Sanded In
9-5/8"	168'	168'	70 sks. CTS
7"	1298'	1298'	170 sks. CTS
4-1/2"	5495'	5495'	300 sks. ETOC 2000'

Agent: **Jan E. Chapman**
Inspector: **Dave Scranage**
Permit Issued: **03-20-12**
Well Work Commenced: **09-05-12**
Well Work Completed: **09-11-12**
Verbal Plugging **N/A**
Permission granted on: **07-10-11**
Rotary X Cable Rig
Total Depth (feet) **5560'**
Fresh water depths (ft) **100'**
Salt water depths (ft) **1400'**
Is coal being mined in area (Y / N)? **No**
Coal Depths (ft): **NA**

OPEN FLOW DATA **Alexander 5331-5392**
Riley & Benson 4904-5006
Bradford 4416-4540
Balltown 3600-3830

Producing formation **Warren** Pay zone depth (ft) **3366-3480**
Gas: Initial open flow **97** MCF / D Oil: Initial open flow **N/A** Bbl / D
Final open flow **1986** MCF / D Oil: Final open flow **Show** Bbl / D
Time of open flow between initial and final tests **24** Hours
Static rock pressure **1425** 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

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: *[Signature]*

PRESIDENT

Date: **September 21, 2012**

RECEIVED

SEP 28 2012

Environmental Protection

Frank Maxwell #4A (47-017-06106)

TREATMENT:

Alexander	(25 holes) 5331-5392	sand, water and N2: 34,500# 20/40 sand, 357,000 SCF N2, and 193 bbl. water
Riley & Benson	(20 holes) 4904-5006	sand, water and N2: 15,000# 20/40 sand, 284,000 SCF N2, and 132 bbl. water
Bradford	(20 holes) 4416-4540	sand, water and N2: 30,100# 20/40 sand, 393,000 SCF N2, and 186 bbl. water
Balltown	(20 holes) 3600-3830	sand, water and N2: 30,500# 20/40 sand, 344,000 SCF N2, and 187 bbl. water
Warren	(25 holes) 3366-3480	sand, water and N2: 30,000# 20/40 sand, 300,000 SCF N2, and 198 bbl. water

FORMATIONS:

Sand & Shale	0'	1300'
Shale	1300'	1930'
Little Lime	1930'	1950'
Blue Monday	1950'	2000'
Big Lime	2000'	2050'
Keener	2050'	2090'
Injun	2090'	2140'
Sand & Shale	2140'	2280'
Weir	2280'	2360'
Sand & Shale	2360'	2710'
Gordon	2710'	2720'
Shale	2720'	3364'
Warren	3364'	3480'
Sand & Shale	3480'	3600'
Balltown	3600'	3830'
Shale	3830'	4410'
Bradford	4410'	4540'
Shale	4540'	4900'
Riley	4900'	4910'
Shale	4910'	5000'
Benson	5000'	5010'
Shale	5010'	5330'
Alexander	5330'	5392'
Shale	5392'	5560'
TD		5560'