



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

Well Operator's Report of Well Work

Farm Name: **O'Neill** Operator Well No. : **Twenty-eight (28)**
LOCATION: Elevation: **1079'** Quadrangle: **Pullman 7.5**
District: **Union** County: **Ritchie**
Latitude: **38.18724** Feet South of **38** Deg. **11** Min. **14.1** Sec.
Longitude: **80.88653** Feet West of **80** Deg. **53** Min. **07.9** Sec.

Company: **Key Oil Company** Casing Used Left Cement
22 Garton Plaza & In In Fill Up
Weston, WV 26452 Tubing Drilling Well Cu Ft
Size _____
Agent: **Jan Chapman**
Inspector: **David Cowman** **13-3/8"** **33'** **33'** **Sanded In**
Permit Issued: **04-18-2013**
Well Work Commenced: **08-02-2013** **9-5/8"** **411'** **411'** **150 sks.**
Well Work Completed: **08-09-2013** **7"** **1859'** **1859'** **CTS**
Verbal Plugging **N/A** **7"** **1859'** **1859'** **270 sks.**
Permission granted on: **04-02-2013** **4-1/2"** **5388'** **5388'** **CTS**
Rotary Cable Rig X
Total Depth (feet) **5434'** **4-1/2"** **5388'** **5388'** **300 sks.**
Fresh water depths (ft) **95'** **ETOC 2090'**
Salt water depths (ft) **1300'**
Is coal being mined in area (Y / N)? **No**
Coal Depths (ft): **N/A**

OPEN FLOW DATA

Alexander **5108-5230**
Benson **4862-4926**
Riley **4446-4770**
Balltown **3690-4000**
Producing formation **Warren** Pay zone depth (ft) **3390-3468**
Gas: Initial open flow **show** MCF / D Oil: Initial open flow **show** Bbl / D
Final open flow **840** MCF / D Oil: Final open flow **1** Bbl / D
Time of open flow between initial and final tests **72** Hours
Static rock pressure **1500** psig (surface pressure) after **72** 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

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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: **August 30, 2013**

10/11/2013

85-10038

O'Neil #28 (47-085-10038)

TREATMENT:

Alexander	(24 holes) 5108' – 5230'	sand, water and N2: 30,000# 20/40 sand, 303,000 SCF N2 182 bbl. water
Benson	(20 holes) 4862' – 4926'	sand, water and N2: 30,000# 20/40 sand, 350,000 SCF N2 204 bbl. water
Riley	(21 holes) 4446' – 4770'	sand, water and N2: 25,000# 20/40 sand, 291,000 SCF N2 164 bbl. water
Balltown	(25 holes) 3690' – 4000'	sand, water and N2: 14,000# 20/40 sand, 214,000 SCF N2 115 bbl. water
Warren	(20 holes) 3390' – 3468'	sand, water and N2: 20,000# 20/40 sand, 226,000 SCF N2 160 bbl. water

FORMATIONS:

Sand & Shale	0'	1850'
Sand & Shale	1850'	2010'
Big Lime	2010'	2070'
Keener	2070'	2090'
Injun	2090'	2190'
Sand & Shale	2190'	2310'
Weir	2310'	2440'
Sand	2440'	2610'
Gantz	2610'	2620'
Sand	2620'	2920'
Gordon	2920'	2930'
Sand & Shale	2930'	3370'
Warren	3370'	3570'
Shale	3570'	3690'
Balltown	3690'	4030'
Shale	4030'	4446'
Riley	4446'	4770'
Shale	4770'	4860'
Benson	4860'	4926'
Sand & Shale	4926'	5108'
Alexander	5108'	5240'
Shale	5240'	5434'
TD		5434'

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