

Sent to Dave Belcher or James Martin
on 3/12/12 index

WR-35
Rev (8-10)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 3/12/12
API #: 47-073-02523

Well name: _____ Operator Well No.: BW #4
LOCATION: Elevation: 640' _____ Quadrangle: Raven Rock 7 1/2 minute
District: Washington _____ County: Pleasants
Latitude: 55.26 Feet South of 50 Deg. 47 Min. 46 Sec.
Longitude: 195.80 Feet West of 05 Deg. 25 Min. 01 Sec.

Company: _____

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
157 Lower Eureka Lane, Saint Marys, WV 26170	26"	20'	20'	CTS
Agent:	20"	140'	115'	CTS
Inspector: Joe Taylor	13 3/8"	550'	506'	CTS
Date Permit Issued: 8/13/10	9 5/8"	1885'	1800'	CTS
Date Well Work Commenced: 9/6/11	7"	5253'	5176'	733
Date Well Work Completed: 12/29/11	4 1/2"	7500'	7457'	360
Verbal Plugging:	2 7/8"		6885'	
Date Permission granted on:				
Rotary Cable Rig				
Total Vertical Depth (ft): 7457				
Total Measured Depth (ft): 7457				
Fresh Water Depth (ft.): 100				
Salt Water Depth (ft.): 200				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.):				
Void(s) encountered (N/Y) Depth(s) No				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Clinton Pay zone depth (ft) 7160
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation Medina Pay zone depth (ft) 7300
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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Office of Oil and Gas
WV Dept. of Environmental Protection

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Wahyn Stahl
Signature

3/12/12
Date

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes X No _____

Were Y Electrical, N Mechanical, N or Geophysical logs recorded on this well?
Y/N Y/N Y/N

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Medina formation perforated from 7300'-7326' (104 shots)

Clinton formation perforated from 7160'-7240' (320 shots)

Fracture the Medina formation with Gel/Water/Sand, 105,000 gallons total displacement.

Fracture the Clinton formation with Gel/Water/Sand, 90,000 gallons total displacement.

Formations Encountered:

Top Depth

Bottom Depth

Surface:

Big Injun 1150'-1190'

Medina 7300'-7326'

Berea 1580'-1620'

Queenstone 7326'-7503'

Ohio Shale 1650'-1720'

Onandoga 5140'-5380'

Oriskany 5380'-5510'

Helderberg 5510'-5860'

Salina 5860'-6320'

Port 6320'-6480'

Newburg 6480'-6730'

Rochester 6730'-6830'

Dayton 6830'-7010'

Packer Shell 7010'-7050'

Upper Cabot Head 7050'-7160'

Clinton 7160'-7240'

Lower Cabot Head 7240'-7300'

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