

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

DATE: 02/14/2013
API #: 47-041-04016 F

Farm name: White, Bruce, Et Al Operator Well No.: B. White 1

LOCATION: Elevation: 1378' GL Quadrangle: Berlin 7.5'

District: Hackers Creek County: Lewis
Latitude: 8,390 Feet South of 39 Deg. 07 Min. 30 Sec.
Longitude 4,290 Feet West of 80 Deg. 17 Min. 30 Sec.

Company: PDC Mountaineer LLC

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>120 Genesis Boulevard</u> <u>Bridgeport, WV 26330</u>	<u>11 3/4"</u>	<u>30'</u>	<u>30'</u>	<u>Sanded In</u>
Agent: <u>Bob Williamson</u>	<u>8 5/8"</u>	<u>1290'</u>	<u>1290'</u>	<u>392</u>
Inspector: <u>Bill Hatfield</u>	<u>4 1/2"</u>	<u>4702'</u>	<u>4702'</u>	<u>710</u>
Date Permit Issued: <u>03/23/2009</u>				
Date Well Work Commenced: <u>06/08/2009</u>				
Date Well Work Completed: <u>06/09/2009</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): <u>4759'</u>				
Total Measured Depth (ft): <u>4759'</u>				
Fresh Water Depth (ft.): <u>20', 75'</u>				
Salt Water Depth (ft.): <u>2025'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>923' - 927'</u>				
Void(s) encountered (N/Y) Depth(s) <u>N</u>				

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

Producing formation Bayard Pay zone depth (ft) 2572, 2606

Gas: Initial open flow MCF/d Oil: Initial open flow Show Bbl/d

Final open flow 49 MCF/d Final open flow Show Bbl/d

Time of open flow between initial and final tests Hours

Static rock Pressure 250 psig (surface pressure) after 12 Hours

Second producing formation 5th Sand (commingled) Pay zone depth (ft) 2512, 2530

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

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.


Signature

02/15/2013
Date

03/08/2013

41-04016F

Were core samples taken? Yes _____ No XX

Were cuttings caught during drilling? Yes _____ No XX

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Hotwell GR/CCL cased hole log from 2800'-2350'

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:

06/09/2009: MIRU Weatherford & Hotwell Wireline. Log with GR/CCL & set solid composite BP at 2650'. Perf the Bayard with 8 holes from 2604-09 & 8 holes from 2571-75. RU Weatherford & frac the Bayard Breakdown 3091psig; Fluid 30Q Foam; N2 140,500 scf Treatment: Pad 2184 gal, Sand Laden Fluid (Linear 15# Aquavis System) 12,600 gal, Sand 30,200# 20/40 White Sand, Flush 1848 gal (Includes 12 bbl Acid). Pressures: ATP 2404 psig, MTP 3091 psig Rates: AVG Rate 20.3 bbl/min, AVG N2 Rate 5418 scfm

ISIP: 1952 psig. Set flow-thru composite plug at 2549' and perforate the Fifth Sand with 8 holes from 2526-33 & 8 holes from 2511-15. Frac 5th Sand: 5th Sand Breakdown 2412 psig; Fluid 30Q Foam; N2 132624 scf Treatment: Pad 2184 gal, Sand Laden Fluid (Linear 15# Aquavis System) 13986 gal, Sand 29,600# 20/40 White Sand, Flush 1512 gal. Pressures: ATP 2518 psig, MTP 3377 psig Rates: AVG Rate 16.5 bbl/min, AVG N2 Rate 5028 scfm ISIP: 1984 psig

Plug Back Details Including Plug Type and Depth(s): Drilled out both plugs & cleaned out to original TD.

Formations Encountered:	Top Depth	/	Bottom Depth
Surface:			

See original submitted Well Log for this well API# 47-041-04016

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