WR-35
Rev (9-11)

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

DATE: 12/15/2014
API #: 47-005-01399

Farm name: APCO Operator Well No.: 671

LOCATION: Elevation: 809' Quadrangle: Julian

District: Scott County: Boone
Latitude: 5200 Feet South of 38 Deg. 12 Min. 30 Sec.
Longitude 6700 Feet West of 81 Deg. 47 Min. 30 Sec.

Company: Prime Operating Company

Address: 708 1/2 Lee Street East	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Charleston, WV 25301	16"		101'	
Agent: Halsey Whitney	13"		38'	
Inspector: Terry Urban	9 5/8"		396.45'	100 sks
Date Permit Issued: 6/25/2014	7"		1698.25'	175 sks
Date Well Work Commenced: 7/2/2014	4 1/2"		4144.75'	175 sks
Date Well Work Completed: 9/24/2014	2 3/8"		3813.75'	
Verbal Plugging:				
Date Permission granted on:	6/25/14			
Rotary ☐ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 4257'				
Total Measured Depth (ft): 4117'				
Fresh Water Depth (ft.): 250'				
Salt Water Depth (ft.): 1500'				
Is coal being mined in area (N/Y)? Y - Surface				
Coal Depths (ft.): none				
Void(s) encountered (N/Y) Depth(s) n/a				

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OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Big Injun, Berea, L. Huron Pay zone depth (ft) 1885' - 4010'
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 ____ Pay zone depth (ft) ____
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.

Halsey M. Whitney
Signature

12/15/14
Date

01/23/2015

Were core samples taken? Yes_____ No_____ Were cuttings caught during drilling? Yes_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list_____

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:

Surface and Well Elevated 97': 16" Conductor pipe from surface to 96' overlapping 5' of original 13" conductor;
9 5/8", 7" and 4 ½" casings attached to original pipes and wellhead reconnected.
For Details see attached well work report for APCO 671.

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

01/23/2015

Well work for APCO 671

7/2/2013 Casing 38 psi Tubing 205 psi. Because of the pressure difference we thought there was a packer in the hole. Pulled on the tubing and worked it up and down the hole and the pipe came free. Pulled the 2'' 10rd tubing out of the hole. Pulled a total of 120 jts and seating collar. Rig up Blue Dot and set a gas release bridge plug at 1275' and shut for the evening.

7/3/2014 Released tension on the 4 ½'' and 7'' casing and removed 4 ½'' X 7'' 9 5/8'' X 7'' well heads. Dug around 13'' conductor about 5' down and set 10' of 16'' conductor over the 13'' conductor and placed 20 sacks of cement around the 16'' conductor and wet down with water and plumbed the 16'' conductor and placed a 55 gal drum over the 16'' casing to keep anything from being dropped down the hole.

7/4/2014 – 8/31/2014 Coal River Energy continued to weld 16'' conductor and backfill until the final elevation of 98' was reached.

9/19/2014 Moved Stalnaker rig on location, rigged up and set pipe trailer. Found 16'' conductor 3' above ground; cut the casing off at ground level. From original ground level to top of 16" conductor is about 97'. Shut down for weekend.

9/22/2014 Rig up and run 96.45' of 9 5/8'' casing. Screwed in to 9 5/8'' and centered the casing in 16''. Cut 9 5/8'' off and welded a thread on the casing. Put 9 5/8''X 7'' head on the casing and ran 97.25 of 7'' casing and set in well head. Cut the 7'' casing off and welded a thread on the 7'' casing. The 7'' casing had X heavy collars on the casing and would not go thru the 9 5/8'' X 7'' wellhead. Had one regular collar and it would go thru the well head, had to weld the next joint together. Ran 84.40' of 4 ½'' casing, one 10' pup joint and three 1' nipples to make up 4 ½'' casing to 97.75'. One of the 4 ½" collars was bad, so job shut down until the morning.

9/23/2014 Replaced bad joint, finished making up the 4 ½'' casing and screwed into the existing 4 ½'' and pulled tension and set in the 7' x 4 ½'' well head. Rig up tools to drill out gas release bridge plug. Drilled on plug and released pressure: well had 62 psi. on well under plug. Drilled out plug and put on bottom. Measured to TD 3860'. Shut rig down till morning.

9/24/2014 Well had 70 psi. blew well down and started tubing in hole. Ran 121 joints of 2 3/8'' 8 rd 4.7 lb/ft used tubing from the Stump 955. 2 3/8'' Tubing TD 3813.75'. Seating Collar 3778.3'. Plumbed well with valves and shut in. **Note due to elevation change add 97.75' to ground level for all well logs.**

01/23/2015