

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: 10-1-2013  
API #: 47-009-00094

Farm name: OV Royalty Trust LLC BRK 3H Operator Well No.: 833463

LOCATION: Elevation: 1190' Quadrangle: Stuebenville East, WV

District: Cross Creek County: Brooke  
Latitude: 300' Feet South of 40 Deg. 17 Min. 30 Sec.  
Longitude 2170' Feet West of 80 Deg. 35 Min. 00 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
P.O. Box 18496 Oklahoma City, OK 73154-0496	20"	100'	100'	359 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	259'	259'	140 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	1660'	1660'	757 Cu. Ft.
Date Permit Issued: 6-6-2011	5 1/2"	10525'	10525'	1122 Cu. Ft.
Date Well Work Commenced: 11-2-2011				
Date Well Work Completed: 7-25-2013				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 5757'				
Total Measured Depth (ft): 10525'				
Fresh Water Depth (ft.): 53'				
Salt Water Depth (ft.): 1145'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 240'				
Void(s) encountered (N/Y) Depth(s) Y 240'				

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

Producing formation Marcellus Pay zone depth (ft) 5,980-10,421  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 1,064\* MCF/d Final open flow 410 Bbl/d  
Time of open flow between initial and final tests 96 Hours  
Static rock Pressure 3,742\* psig (surface pressure) after 96 Hours \*Calculated

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

Received

OCT 2 2013

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.

Marlene Williams  
Signature

\_\_\_\_\_  
Date

11/01/2013

9-00094

Were core samples taken? Yes \_\_\_\_\_ No N

Were cuttings caught during drilling? Yes Y No \_\_\_\_\_

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR, neutron, density, and resistivity  
Open hole logs run from 0-1672' MD; LWD GR from 5078-10525' MD.

**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:

See attached

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

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
<u>Surface:</u>		

See attached

Received

OCT 2 2013

Office of Oil and Gas  
WV Dept. of Environmental Protection

11/01/2013

9-00094

PERFORATION RECORD ATTACHMENT

Well Number and Name: 833463 OV Royalty Trust LLC BRK 3H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated		Fluid		Propping Agent		Average Injection
	From	To		Type	Amount	Type	Amount			
6/14/2013	10,162	10,421	6/14/2013	10,162	10,421	Sik wtr	9,519	Sand	600,940	76
6/22/2013	9,813	10,103	6/22/2013	9,813	10,103	Sik wtr	9,592	Sand	601,340	77
6/22/2013	9,465	9,754	6/22/2013	9,465	9,754	Sik wtr	9,702	Sand	601,900	75
6/23/2013	9,116	9,406	6/23/2013	9,116	9,406	Sik wtr	11,143	Sand	601,760	74
6/23/2013	8,768	9,058	6/23/2013	8,768	9,058	Sik wtr	9,570	Sand	602,180	79
6/23/2013	8,419	8,709	6/23/2013	8,419	8,709	Sik wtr	14,373	Sand	598,760	70
6/24/2013	8,071	8,361	6/24/2013	8,071	8,361	Sik wtr	9,412	Sand	600,320	78
6/24/2013	7,722	8,012	6/24/2013	7,722	8,012	Sik wtr	9,505	Sand	600,740	76
6/24/2013	7,374	7,664	6/24/2013	7,374	7,664	Sik wtr	9,501	Sand	601,080	79
6/24/2013	7,025	7,315	6/24/2013	7,025	7,315	Sik wtr	9,512	Sand	600,310	78
6/25/2013	6,680	6,967	6/25/2013	6,680	6,967	Sik wtr	9,815	Sand	601,630	79
6/25/2013	6,328	6,618	6/25/2013	6,328	6,618	Sik wtr	9,500	Sand	599,660	78
6/25/2013	5,980	6,270	6/25/2013	5,980	6,270	Sik wtr	9,491	Sand	599,560	78

Received

OCT 2 2013

11/01/2013

9.00094

**LATERAL SIDETRACK WELLBORE (no vertical pilot hole associated with this well)**

**Maximum TVD of wellbore: 5757 ft TVD @ 6458 ft MD**

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS/SILT	0	0	240	240
PITTSBURG COAL VOID	240	240	244	244
SILT	244	244	550	550
SS	550	550	600	600
SILT	600	600	750	750
SS	750	750	1350	1350
BIG INJUN (SS)	1350	1350	1500	1500
SHALE	1500	1500	5609	5566
GENESEO (SH)	5609	5566	5630	5582
TULLY (LS)	5630	5582	5701	5634
HAMILTON (SH)	5701	5634	5856	5713
MARCELLUS (SH)	5856	5713		
TD OF LATERAL			10525	5712

Received

OCT 2 2013

Office of Oil and Gas  
WV Dept. of Environmental Protection 11/01/2013