

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

Farm name: Samuel Hubbard BRK 3H Operator Well No.: 833613

LOCATION: Elevation: 1225' Quadrangle: Steubenville East

District: Cross Creek County: Brooke
Latitude: 1930' Feet South of 40 Deg. 17 Min. 30 Sec.
Longitude 1550' Feet West of 80 Deg. 32 Min. 30 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"	433'	433'	701 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	1775'	1775'	1875 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	7796'	7796'	3207 Cu. Ft.
Date Permit Issued: 9-20-2011	5 1/2"	14621'	14621'	1976 Cu. Ft.
Date Well Work Commenced: 10-12-2011				
Date Well Work Completed: 7-8-2012(Rig Release date)				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 11035'(cement plug @9200'-10999')				
Total Measured Depth (ft): 14625'				
Fresh Water Depth (ft.): 60', 95', 200'				
Salt Water Depth (ft.): 1055'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 257"				
Void(s) encountered (N/Y) Depth(s) Y 265'				

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

Producing formation Utica Pay zone depth (ft) ^{n/a (not frac'd)}

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.

Martin Williams
Signature

12-10-2012
Date

VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, TVD/MD (ft)	Bottom Depth, TVD/MD (ft)
SS/LS	0	257
PITTSBURG COAL	257	350
SS/SH	350	400
SS	400	1252
BIG LIME (LS)	1252	1395
BIG INJUN (SS)	1395	1555
SHALE	1555	5646
GENESECO (SH)	5646	5663
TULLY (LS)	5663	5724
HAMILTON (SH)	5724	5813
MARCELLUS (SH)	5813	5876
ONONDAGA (LS)	5876	6019
HUNTERSVILLE (CHERT)	6019	6112
ORISKANY (SS)	6112	6195
HELDERBERG (LS)	6195	6603
SALINA (LS/DOLOMITE/SALT)	6603	6880
SHALE	6880	7665
LOCKPORT (DOLOMITE)	7665	8010
ROSE HILL (SH)	8010	8435
CLINTON (SS)	8435	8536
QUEENSTON (SH)	8536	10560
UTICA (SH)	10560	10721
POINT PLEASANT (SH)	10721	10834
TRENTON (LS)	10834	
TD OF PILOT HOLE		11035

LATERAL SIDETRACK WELLBORE

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS/LS	0	0	257	257
PITTSBURG COAL	257	257	350	350
SS/SH	350	350	400	400
SS	400	400	1252	1252
BIG LIME (LS)	1252	1252	1395	1395
BIG INJUN (SS)	1395	1395	1555	1555
SHALE	1555	1555	5646	5646
GENESECO (SH)	5646	5646	5663	5663
TULLY (LS)	5663	5663	5724	5724
HAMILTON (SH)	5724	5724	5813	5813
MARCELLUS (SH)	5813	5813	5876	5876
ONONDAGA (LS)	5876	5876	6019	6019
HUNTERSVILLE (CHERT)	6019	6019	6112	6112
ORISKANY (SS)	6112	6112	6195	6195
HELDERBERG (SS/SH)	6195	6195	6603	6603
SALINA (LS/DOLOMITE/SALT)	6603	6603	6880	6880
SHALE	6880	6880	7665	7665
LOCKPORT (DOLOMITE)	7665	7665	8010	8010
ROSE HILL (SH)	8010	8010	8435	8435
CLINTON (SS)	8435	8435	8536	8536
QUEENSTON (SH)	8536	8536	10469	10388
UTICA (SH)	10469	10388	10764	10548
POINT PLEASANT (SH)	10764	10548		
TD OF LATERAL			14625	10520