

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

DATE: 9-11-2012
API #: 47-051-01447

Farm name: Van Aston MSH 1H Operator Well No.: 833044

LOCATION: Elevation: 1,181' Quadrangle: Glen Easton

District: Cameron County: Marshall
Latitude: 7,140' Feet South of 39 Deg. 52 Min. 30 Sec.
Longitude 9,790' Feet West of 80 Deg. 37 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"	88'	88'	297 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	849'	849'	925 Cu. Ft.
Inspector: Derek Haught	9 5/8"	2,755'	2,755'	1329 Cu. Ft.
Date Permit Issued: 4-25-2011	5 1/2"	14,484'	14,484'	3629 Cu. Ft.
Date Well Work Commenced: 1-10-2012				
Date Well Work Completed: 4-23-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6,624' (cement plugs @ 5700' & 6121')				
Total Measured Depth (ft): 14,484'				
Fresh Water Depth (ft.): 200'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 780'				
Void(s) encountered (N/Y) Depth(s) N				

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

Producing formation Marcellus Pay zone depth (ft) 7,150' - 14,351'

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 3,332* MCF/d Final open flow 59 Bbl/d
Time of open flow between initial and final tests 77 Hours *Calculated
Static rock Pressure 4,259* 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.

Marlene Williams
Signature

9-11-2012
Date

12/14/2012

PERFORATION RECORD ATTACHMENT

Well Number and Name: 833044 Van Aston MSH 1H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated		Fluid		Propping Agent		Average Injection
	From	To		Type	Amount	Type	Amount			
4/4/2012	13,780	14,351	4/18/2012	13,780	14,351	Slk wtr	11,209	Sand	570,320	77
4/18/2012	13,119	13,688	4/19/2012	13,119	13,688	Slk wtr	9,874	Sand	570,200	81
4/19/2012	12,455	13,030	4/19/2012	12,455	13,030	Slk wtr	9,548	Sand	572,080	76
4/19/2012	11,792	12,362	4/20/2012	11,792	12,362	Slk wtr	9,805	Sand	570,640	83
4/20/2012	11,129	11,699	4/20/2012	11,129	11,699	Slk wtr	9,929	Sand	570,780	85
4/21/2012	10,466	11,036	4/21/2012	10,466	11,036	Slk wtr	9,801	Sand	570,510	84
4/21/2012	9,803	10,370	4/21/2012	9,803	10,370	Slk wtr	9,589	Sand	571,100	84
4/21/2012	9,140	9,709	4/21/2012	9,140	9,709	Slk wtr	11,650	Sand	570,760	86
4/21/2012	8,480	9,047	4/22/2012	8,480	9,047	Slk wtr	9,516	Sand	577,120	85
4/21/2012	7,813	8,383	4/22/2012	7,813	8,383	Slk wtr	9,401	Sand	571,640	85
4/22/2012	7,150	7,717	4/23/2012	7,150	7,717	Slk wtr	9,830	Sand	582,100	84

VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SHALE/LS	0	0	128	128
LS/SHALE	128	128	200	200
LS/SS	200	200	260	260
LS/SHALE	260	260	450	450
SHALE/LS	450	450	500	500
SHALE/LS	500	500	764	764
LS/COAL	764	764	772	772
LS	772	772	778	778
PITTSBURGH COAL	778	778	788	788
LS/SHALE	788	788	880	880
LS	880	880	1000	1000
LS/SHALE	1000	1000	1060	1060
SHALE/LS	1060	1060	1300	1300
SHALE	1300	1300	1410	1410
SHALE/SS	1410	1410	1500	1500
SS/SHALE	1500	1500	1660	1660
SS	1660	1660	1760	1760
SS/LS	1760	1760	1790	1790
BIG LIME	1790	1790	1824	1824
BIG INJUN	1824	1824	2086	2086
SHALE	2086	2086	2110	2110
SS/LS	2110	2110	2170	2170
SS	2170	2170	2330	2330
SS/SHALE	2330	2330	2350	2350
SS	2350	2350	2420	2420
SHALE/SS	2420	2420	2530	2530
SHALE/LS	2530	2530	2560	2560
SHALE/SS	2560	2560	2680	2680
SHALE/LS	2680	2680	2710	2710
SHALE/SS	2710	2710	2830	2830
SHALE	2830	2830	5580	5580
SHALE/LS	5580	5580	5700	5700
SHALE	5700	5700	6580	6341
MIDDLESEX	6580	6341	6662	6423
GENESE0	6662	6423	6682	6443
TULLY	6682	6443	6708	6469
HAMILTON	6708	6469	6803	6563
MARCELLUS	6803	6563	6854	6614
ONONDAGA	6854	6614	6864	6624
TD	6864	6624		

PLUGBACK DEPTH 6114 5907

LATERAL WELLBORE

Maximum TVD of wellbore: 6592 ft TVD @ 7206 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SHALE	6114	5907	6433	6187
MIDDLESEX	6433	6187	6745	6422
GENESEO	6745	6422	6771	6439
TULLY	6771	6439	6816	6466
HAMILTON	6816	6466	7010	6556
MARCELLUS	7010	6556	14484	6519
TD	14484	6519		0