

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

Farm name: Serafin Ortiz MSH 8H Operator Well No.: 833978

LOCATION: Elevation: 1280' Quadrangle: 486-Moundsville

District: Union County: Marshall
Latitude: 11390' Feet South of 40 Deg. 00 Min. 00 Sec.
Longitude 3370' Feet West of 80 Deg. 40 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"	120'	120'	460 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	845'	845'	915 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2191'	2191'	954 Cu. Ft.
Date Permit Issued: 11-17-2011	5 1/2"	11046'	11046'	2576 Cu. Ft.
Date Well Work Commenced: 6-1-2012				
Date Well Work Completed: 7-8-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6329'				
Total Measured Depth (ft): 11053'				
Fresh Water Depth (ft.): 400'				
Salt Water Depth (ft.): 1360'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 755'				
Void(s) encountered (N/Y) Depth(s) Y 762'				

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

Producing formation Marcellus Pay zone depth (ft) 6,700'-10,901'

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 696* MCF/d Final open flow 114 Bbl/d
Time of open flow between initial and final tests 37 Hours *Calculated
Static rock Pressure 4,113* psig (surface pressure) after _____ Hours

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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

10-3-2012
Date

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 GR LWD from 5,665' - 11,053' 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):

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

(See attached)

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PERFORATION RECORD ATTACHMENT

Well Number and Name: 833978 Serafin Ortiz MSH 8H

PERFORATION RECORD			STIMULATION RECORD							
Date	Interval Perforated		Date	Interval Treated		<i>Fluid</i>		<i>Propping Agent</i>		Average Injection
	From	To		Type	Amount	Type	Amount			
6/22/2012	10,432	10,901	7/3/2012	10,432	10,901	Sik wtr	10,931	Sand	536,680	78
7/5/2012	9,899	10,368	7/5/2012	9,899	10,368	Sik wtr	11,884	Sand	537,420	80
7/5/2012	9,366	9,835	7/6/2012	9,366	9,835	Sik wtr	10,698	Sand	536,720	78
7/6/2012	8,833	9,302	7/6/2012	8,833	9,302	Sik wtr	11,886	Sand	537,460	80
7/6/2012	8,299	8,769	7/7/2012	8,299	8,769	Sik wtr	10,527	Sand	536,520	78
7/7/2012	7,766	8,235	7/7/2012	7,766	8,235	Sik wtr	10,928	Sand	535,960	80
7/7/2012	7,233	7,702	7/8/2012	7,233	7,702	Sik wtr	10,677	Sand	535,660	78
7/8/2012	6,700	7,169	7/8/2012	6,700	7,169	Sik wtr	10,460	Sand	547,240	80

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

Maximum TVD of wellbore: 6329 ft TVD @ 10829 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS/LS/SILTSTONE	0	0	310	310
SS/LS	310	310	755	755
PITTSBURGH COAL	755	755	764	764
SS	764	764	1800	1800
BIG INJUN	1800	1800	2020	2020
SH	2020	2020	6147	6111
GENESEO (SH)	6147	6111	6176	6131
TULLY (LS)	6176	6131	6244	6177
HAMILTON (SH)	6244	6177	6390	6247
MARCELLUS (SH)	6390	6247		
TD OF LATERAL			11053	6328

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