

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

DATE: 09/01/2010

API #: 47-7700501

Handwritten mark

Farm name: Glisan Unit Operator Well No.: 8012

RECEIVED

LOCATION: Elevation: 2305' Quadrangle: B'andonville 7.5'

SEP 09 2010

District: Grant County: Preston
Latitude: 39.71971 (NAD 27) Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude 79.59272 (NAD 27) Feet West of _____ Deg. _____ Min. _____ Sec.

WV Oil and Gas
Conservation Commission

Company:

Address:	Casing & Tubing	Used in drilling	Feet in well	Cement fill up Cu. Ft.
4 Grandview Circle, Suite 203	20"	30'	30'	Circ to Surface
Canonsburg, PA 15317	13 3/8"	523'	523'	475 cu ft (395 sx)
Agent: <u>Shawna C. Yezak</u>				Circ to Surface
Inspector: <u>Bryan Harris</u>	9 5/8"	1240'	1240'	493 cu ft (345 sx)
Date Permit Issued: <u>05/29/2009</u>				Circ to Surface
Date Well Work Commenced: <u>12/2/2009</u>	5 1/2"	8351'	8351'	640 cu ft (500 sx)
Date Well Work Completed: <u>06/10/2010</u>	2 3/8"		8123'	
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): <u>8,371'</u>				
Total Measured Depth (ft):				
Fresh Water Depth (ft.): <u>350-390'</u>				
Salt Water Depth (ft.): <u>1700'</u>				
Is coal being mined in area (N/Y)? <u>Y</u>				
Coal Depths (ft.): <u>605</u>				

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

Producing formation Upper and Lower Marcellus Pay zone depth (ft) 8145
Gas: Initial open flow 350,000 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 90,000 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 648 Hours
Static rock Pressure 4300 psig (surface pressure) after 0 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.

Shawna C. Yezak
Signature

09/01/2010
Date

(124)-873-8814

10/17/2014

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:

04/7/2010-Shot Perforation in Lower Marcellus f/8128-8219'

04/08/2010 - Pumped FET within interval 8218-8219 with 1,167 gallons of fresh water

04/13/2010 - Shot Perforation in Upper Marcellus f/8158-8159'

04/19/2010 - Pumped FET within interval 8158-8159 with 974.4 gallons of fresh water

4/30/2010 - Stage 1 Frac within intervals of 8195-8215'

Total: 1000 gal 7.5% HCl Acid;2000 gal 15%HCl Acid; 370,015 gal water;149,500 lbs Mesh;169,400 lbs 40/70 Sand

5/5/2010 - Stage 2 Frac within intervals of 8145-8165'

Total: 1000 gals 15% HCl Acid; 500 gal 28% HCl Acid; 496,077 gals water;199,500 lbs 100 Mesh;299,700 lbs of 40/70 Sand

<u>Formations Encountered:</u> <u>Surface:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
Allegheny Formation Sandstone & Shale	0	273
Pottsville Sandstone	273	605
Coal	605	610
Mauch Chunk Sandstone & Shale	610	737
Greenbriar Sandstone	737	795
Little Lime - Limestone	795	878
Big Lime - Limestone	878	934
Big Injun - Sandstone	934	1258
Weir Sandstone	1258	2064
Sunbury Shale	2064	2067
Berea Sandstone	2067	2230
4th Sandstone	2230	2296
5th Sandstone	2296	2384
Bayard Sandstone	2384	2570
Elizabeth Sandstone	2570	2662
Warren Shale	2662	2844
Speechley Sandstone & Shale	2844	3004
Balltown Sandstone	3004	3286
Bradford Sandstone	3286	3412
Riley Sandstone & Siltstone	3412	3765
Benson Sandstone	3765	3995
Sandstone & Siltstone	3995	5035
Elk Sandstone	5035	5147

10/17/2014

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Surface:		

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Brallier Sandstone & Siltstone	5147	7339
Harrell Shale	7339	7672
Burket Shale	7672	7691
Tully Limestone	7691	7737
Hamilton Shale	7737	8100
Upper Marcellus Shale	8100	8176
Purcell Limestone	8176	8188
Lower Marcellus Shale	8188	8225
Onondaga Limestone	8225	8240
Huntersville Chert	8240	8300