

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

Farm name: Addison Operator Well No.: 4H

LOCATION: Elevation: 1331' Quadrangle: Wileyville 7.5'

District: Franklin County: Marshall
Latitude: 5,250 Feet South of 39 Deg. 45 Min. 00 Sec.
Longitude 10,890 Feet West of 80 Deg. 42 Min. 30 Sec.

Company: Gastar Exploration USA, Inc

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
229 West Main St, Suite 301 Clarksburg, WV 26301	20"		110'	CTS
Agent: <u>Michael McCown</u>	13 3/8"		1177'	1071 ft^3
Inspector: <u>Bill Hendershot</u>	9 5/8"		2621'	1109 ft^3
Date Permit Issued: <u>8-31-2012</u>	5 1/2"		12,723'	3564 ft^3
Date Well Work Commenced: <u>9-15-2011</u>	2 3/8"		6718'	
Date Well Work Completed: <u>4-11-2012</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): <u>6834'</u>				
Total Measured Depth (ft): <u>12,751'</u>				
Fresh Water Depth (ft.): <u>60'</u>				
Salt Water Depth (ft.): <u>1600'</u>				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>Refer to page 2</u>				
Void(s) encountered (N/Y) Depth(s) <u>No</u>				

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

Producing formation Marcellus Pay zone depth (ft) ^{7071' to 11,405'}
Gas: Initial open flow 2568 MCF/d Oil: Initial open flow 8 Bbl/d
Final open flow 2856 MCF/d Final open flow 84 Bbl/d
Time of open flow between initial and final tests 96 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

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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.

[Signature]
Signature

6-27-13
Date

01/17/2014

51-01574

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 No

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 sheet:

Plug Back Details Including Plug Type and Depth(s): n/a

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
<u>Surface:</u>		
Sewickley Coal	935 - 955	Geneseo 6616 - 6638
Pittsburgh Coal	1090 - 1100	Tully 6638 - 6705
Maxton	2132 - 2182	Hamilton 6705 - 6750
Big Lime	2205 - 2235	Marcellus 6750 - 6834
Big Injun	2243	
Base of Big Injun	2377	
Weir	2523 - 2693	
Berea	2704 - 2923	
Gordon	2927 - 2957	
Benson	3638 - 3648	
Java	5229 - 5549	
Rhinestreet	6027 - 6440	
Cashaqua	6440 - 6538	
Middlesex	6538 - 6562	
West River	6562 - 6616	

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Fluid & Sand Volume Summary - Addison #4H

Date	Stage	Perforated interval		Fluid Type	Frac Fluid	Pump	100 mesh		40/70 M		Total Sand	Avg Inj
		From	To				lbs	bbls	lbs	bbls		
1/31/2013	1	12552	12576	slk wtr	3595	671	25661	98175	123836	79		
2/1/2013	2	12437	12527	slk wtr	4633	394	23024	71747	94771	81		
2/2/2013	3	12152	12402	slk wtr	5387	347	0	79593	79593	80		
2/4/2013	4	11852	12102	slk wtr	6479	330	0	276834	276834	80		
2/8/2013	5	11552	11802	slk wtr	6728	313	0	302605	302605	81		
2/10/2013	6	11252	11502	slk wtr	5882	285	0	302706	302706	81		
2/12/2013	7	10952	11202	slk wtr	6107	268	0	301438	301438	81		
2/13/2013	8	10652	10902	slk wtr	5852	241	0	303056	303056	80		
2/15/2013	9	10352	10602	slk wtr	5546	240	0	279921	279921	81		
2/16/2013	10	10052	10302	slk wtr	6403	227	0	301940	301940	80		
2/18/2013	11	9752	10002	slk wtr	6019	192	0	303517	303517	82		
2/19/2013	12	9452	9702	slk wtr	5981	170	0	303050	303050	82		
2/20/2013	13	9152	9402	slk wtr	5537	153	0	274918	274918	80		
2/22/2013	14	8852	9102	slk wtr	5445	140	0	263344	263344	80		
2/24/2013	15	8552	8802	slk wtr	5916	122	0	278958	278958	80		
2/25/2013	16	8252	8502	slk wtr	6331	107	0	299373	299373	80		
2/27/2013	17	7952	8202	slk wtr	5558	88	0	283507	283507	80		
2/28/2013	18	7652	7902	slk wtr	5577	82	0	300791	300791	80		
3/1/2013	19	7352	7602	slk wtr	5522	55	0	303089	303089	80		

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Totals 108498 4425 48685 4928562 4977247

Water to Recover 112923 bbls

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