

WR-35
Rev (9-11)

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

DATE: 6/28/2013
API #: 47-051-01452

Received
Office of Oil & Gas
JUL 1 2013

Farm name: Simms Operator Well No.: 1H

LOCATION: Elevation: ~~4245~~ 1235' Quadrangle: New Martinsville 7.5'

District: Franklin County: Marshall
Latitude: 1,505 Feet South of 39 Deg. 45 Min. 00 Sec.
Longitude 5,780 Feet West of 80 Deg. 45 Min. 00 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"		40'	Sanded
Agent: <u>Michael McCown</u>	13 3/8"		1059'	1071 ft^3
Inspector: <u>Bill Hendershot</u>	9 5/8"		2496'	1077 ft^3
Date Permit Issued: <u>4-22-2011</u>	5 1/2"		11,368'	3515 ft^3
Date Well Work Commenced: <u>5-27-2011</u>	2 3/8"		6478'	
Date Well Work Completed: <u>12-23-2011</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>6584'</u>				
Total Measured Depth (ft): <u>11,386'</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) 7270' to 12,391'
Gas: Initial open flow 1156 MCF/d Oil: Initial open flow 8 Bbl/d
Final open flow 2458 MCF/d Final open flow 36 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

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.

Gene Robinson 6-28-13

01/17/2014

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Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes _____ No X

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	838 - 858	Geneseo	6399 - 6417
Pittsburgh Coal	991 - 1001	Tully	6417 - 6462
Maxton	2015 - 2065	Hamilton	6462 - 6542
Big Lime	2066- 2096	Marcellus	6542 - 6584
Big Injun	2104		
Base of Big Injun	2280		
Weir	2394 - 2564		
Berea	2586 - 2826		
Gordon	2828 - 2858		
Benson	3573 - 3583		
Java	5141 - 5461		
Rhinestreet	5909 - 6221		
Cashaqua	6221 - 6320		
Middlesex	6320 - 6342		
West River	6342 - 6399		

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Fluid & Sand Volume Summary - Simms #1H

SGS & I/O of office
Received

102 1 100

Date	Stage	Perforated interval		Fluid Type	Frac Fluid	Pump	100 mesh	40/70 M	Total Sand	Avg Inj
		From ft	To ft							
11/20/2011	1	11075	11265	slk wtr	8827		88684	286186	374870	85
11/20/2011	2	10792	11002	slk wtr	8861	312	92386	281871	374257	83
11/21/2011	3	10492	10702	slk wtr	8847	244	89150	286797	375947	82
11/21/2011	4	10192	10402	slk wtr	8838	250	88375	287190	375565	82
11/21/2011	5	9892	10102	slk wtr	8882	223	88296	290318	378614	81
11/22/2011	6	9592	9802	slk wtr	8858	205	88517	289150	377667	81
11/23/2011	7	9292	9502	slk wtr	9027	380	88003	290102	378105	81
11/23/2011	8	8992	9202	slk wtr	8947	164	87994	289274	377268	81
11/26/2011	9	8692	8902	slk wtr	8876	154	89326	286002	375328	82
11/26/2011	10	8392	8602	slk wtr	8841	145	88548	287554	376102	85
11/27/2011	11	8092	8302	slk wtr	8624	117	88491	285370	373861	84
11/27/2011	12	7792	8002	slk wtr	8664	92	87620	287125	374745	83
11/28/2011	13	7492	7702	slk wtr	8591	71	89319	285936	375255	85
11/28/2011	14	7192	7402	slk wtr	8580	66	89696	282486	372182	83
11/29/2011	15	6892	7102	slk wtr	8517	48	89749	286715	376464	82
11/29/2011	16	6612	6802	slk wtr	8987	31	88086	289923	378009	84

Totals **140767** **2502** **1422240** **4591999** **6014239**

Water to Recover 143269 bbls