

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

DATE: April 11, 2013
API #: 47-051-01521 *Revised*

Farm name: Wayne - North Operator Well No.: 2H

LOCATION: Elevation: 1354' Quadrangle: New Martinsville 7.5'

District: Franklin County: Marshall
Latitude: 1555 Feet South of 39 Deg. 45 Min. 00 Sec.
Longitude 6635 Feet West of 80 Deg. 47 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 Street, Suite 301 Clarksburg, WV 26301	20"		110'	CTS
Agent: Michael McCown	13-3/8"		1147'	1046
Inspector: Bill Hendershot	9-5/8"		2535'	1077
Date Permit Issued: 1/13/2012	5-1/2"		12122'	3394
Date Well Work Commenced: 3/23/2012	2-3/8"		6478'	
Date Well Work Completed: 8/26/2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 6,618' <i>6000</i>				
Total Measured Depth (ft): 12,124'				
Fresh Water Depth (ft.): 60'				
Salt Water Depth (ft.): 1600'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 890-910; 1031-1041				
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) 6618'
Gas: Initial open flow 1872 MCF/d Oil: Initial open flow 73 Bbl/d
Final open flow 2595 MCF/d Final open flow 168 Bbl/d
Time of open flow between initial and final tests 216 Hours
Static rock Pressure 1800 psig (surface pressure) after 216 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.

[Signature]

Signature

4-11-13

Date

Received
AUG - 2 2013
Office of Oil and Gas
WV Dept. of Environmental Protection
11/22/2013

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 Gamma Ray Log

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	890 - 910	Geneseo 6483 - 6502
Pittsburgh Coal	1031 - 1041	Tully 6502 - 6534
Maxton	2009 - 2059	Hamilton 6534 - 6577
Big Lime	2082 - 2112	Marcellus 6577 - 6618
Big Injun	2122	
Base of Big Injun	2256	
Weir	2441 - 2611	
Berea	2629 - 2869	
Gordon	2964 - 2994	
Benson	3668 - 3678	
Java	5291 - 5611	
Rhinestreet	5994 - 6310	
Cashaqua	6310 - 6412	
Middlesex	6412 - 6440	
West River	6440 - 6483	

Fluid & Sand Volume Summary - Wayne #2H

<u>Date</u>	<u>Stage</u>	<u>Perforated Interval</u>	<u>Fluid Type</u>	<u>Frac Fluid</u>	<u>Pump</u>	<u>100 mesh</u>	<u>40/70 M</u>	<u>Total Sand</u>	<u>Avg Inj</u>
		<u>From</u> ft	<u>To</u> ft		<u>Down</u> bbls	lbs	lbs	lbs	BPM
7/16/2012	1	11939	12029	silc wtr	4018	47034	151607	198641	81
7/17/2012	2	11659	11869	silc wtr	7758	93968	297306	391274	81
7/19/2012	3	11359	11569	silc wtr	6798	94072	238672	332744	81
7/20/2012	4	11059	11269	silc wtr	6754	76087	276136	352223	80
7/21/2012	5	10759	10969	silc wtr	7195	93977	296968	390945	83
7/22/2012	6	10459	10669	silc wtr	6575	93953	208121	302074	83
7/23/2012	7	10159	10369	silc wtr	7591	94453	297124	391577	80
7/24/2012	8	9859	10069	silc wtr	8789	94830	282122	376952	80
7/25/2012	9	9559	9769	silc wtr	9268	93454	209103	302557	80
7/26/2012	10	9259	9469	silc wtr	8362	96516	234642	331158	80
7/27/2012	11	8959	9169	silc wtr	7688	94330	253129	347459	80
7/29/2012	12	8659	8869	silc wtr	6704	92564	124058	216622	81
7/30/2012	13	8359	8569	silc wtr	6704	94078	237198	331276	80
7/31/2012	14	8059	8269	silc wtr	7970	93569	298902	392471	81
8/1/2012	15	7759	7969	silc wtr	7962	93393	252542	345935	81
8/2/2012	16	7459	7669	silc wtr	7990	78846	307850	386696	81
8/3/2012	17	7159	7369	silc wtr	6858	78269	177391	255660	81
8/4/2012	18	6859	7069	silc wtr	7174	78873	259786	338659	81

Totals

132158

3944

1582266

4402657

5984923

Water to Recover

136102 bbls