

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

DATE: January 23, 2013
API #: 47-051-01397

Farm name: Corley Operator Well No.: 3H

LOCATION: Elevation: 1272' Quadrangle: Powhatan Point 7.5'

District: Franklin County: Marshall
Latitude: 14.170 Feet South of 39 Deg. 47 Min. 30 Sec.
Longitude 3.770 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'	40'	Sanded
Agent: <u>Michael McCown</u>	13-3/8"	1057'	1057'	914'
Inspector: <u>Carl McCune</u>	9-5/8"	2506'	2506'	960'
Date Permit Issued: <u>01/24/2011</u>	5-1/2"	12,308'	12,308'	3394'
Date Well Work Commenced: <u>07/06/2011</u>	<u>2-3/8"</u>		<u>6642'</u>	
Date Well Work Completed: <u>11/15/2011</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>6,633'</u>				
Total Measured Depth (ft): <u>12,310'</u>				
Fresh Water Depth (ft.): <u>60'</u>				
Salt Water Depth (ft.): <u>1,600'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>refer to page 2</u>				
Void(s) encountered (N/Y) Depth(s) <u>N</u>				

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

Producing formation Marcellus Pay zone depth (ft) 6835'
Gas: Initial open flow 2757 MCF/d Oil: Initial open flow 45 Bbl/d
Final open flow 2620 MCF/d Final open flow 41 Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 2300 csg. 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.

Michael McCown
Signature

1/24/13
Date

51-01397

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 _____
YES : GR, Mudlog, Acousti, Density, Induction, Mech Prop, & XMAC

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:

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth
Surface:

Sewickley:	Top:885, Base: 905	Java:	5378, 5698
Pittsburgh coal:	1061, 1071	Rhinestreet:	6190, 6500
Maxton:	1980, 2030	Cashaqua:	6547, 6692
Big Lime:	2043, 2073	Middlesex:	6642, 6662
Big Injun:	2079	West River:	6664, 6724
Base of Big Injun:	2223	Geneseo:	6726, 6744
Weir:	2397, 2567	Tully:	6740, 6775
Berea:	2581, 2821	Hamilton:	6786, 6836
Gordon:	2855, 2885	Marcellus:	6835, 6888
Benson:	3617, 3627	Onondaga:	6889, NA (TD'd before base)

03/15/2013

Fluid & Sand Volume Summary - Corley #3H

<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>	<u>To</u>							
		ft	ft		bbls	bbls	lbs	lbs	lbs	BPM
9/19/2011	1	12033	12243	slk wtr	8967	0	88321	289166	377487	85
9/20/2011	2	11733	11943	slk wtr	8827	386	88803	287493	376296	86
9/20/2011	3	11433	11643	slk wtr	9025	340	88007	292688	380695	87
9/21/2011	4	11133	11343	slk wtr	8904	310	88404	287259	375663	87
9/21/2011	5	10833	11043	slk wtr	8943	326	88076	288113	376189	87
9/22/2011	6	10533	10743	slk wtr	8983	252	88048	290895	378943	87
9/22/2011	7	10233	10443	slk wtr	8885	199	88070	287271	375341	88
9/22/2011	8	9933	10038	slk wtr	8858	189	88242	286712	374954	86
9/23/2011	9	9633	9843	slk wtr	8773	214	88032	283854	371886	86
9/23/2011	10	9333	9543	slk wtr	8971	159	88128	287426	375554	84
9/24/2011	11	9033	9133	slk wtr	8772	133	88112	287174	375286	86
9/24/2011	12	8733	8943	slk wtr	8873	118	88087	287448	375535	91
9/24/2011	13	8433	8643	slk wtr	9043	102	88102	289126	377228	88
9/25/2011	14	8133	8343	slk wtr	8873	89	88134	287287	375421	90
9/25/2011	15	7833	8043	slk wtr	8943	56	88337	286789	375126	90
9/25/2011	16	7533	7743	slk wtr	8768	45	88209	287045	375254	91
9/26/2011	17	7140	7443	slk wtr	8946	41	88047	290773	378820	87

Totals

151354

2959

1499159

4896519

Water to Recover

154313 bbls

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