

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:	5/12/10	
API#:	033-05170	

name: John Sturm		ell No.: Sturm		
ATION: Elevation: 1030'	Quadrangle:	Brownton 7.5'		
District: Simpson	County: Harr	rison		
Latitude: 9580 Feet South of 39 Deg.	15 Mi	n. 00 S	ec.	
Longitude 7410 Feet West of 80 Deg	Mi	n. 30 S	ec.	
Gastar Exploration USA, Inc.				
Company: Gastal Exploration CSA, Inc.	0	1	I. a. n	10
Address: P.O. Box 273	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Charleston, WV 25301-0273	16"		20'	Sanded
Agent: William M. Herlity	9-5/8"		339'	168'
Inspector: Tim Bennett	7"		1855'	380'
Date Permit Issued: 11/17/08	4-1/2"	1	4362'	342'
Date Well Work Commenced: 8/5/09				
Date Well Work Completed: 3/7/10				
Verbal Plugging:	L - T			
Date Permission granted on:				
Rotary Cable Rig			4	
Total Vertical Depth (ft):	4450'			
Total Measured Depth (ft):	4450'			
Fresh Water Depth (ft.):	68'			
Salt Water Depth (ft.):	None			
Is coal being mined in area (N/Y)?	N			
Coal Depths (ft.):	None			
Void(s) encountered (N/Y) Depth(s)	N			
PEN FLOW DATA (If more than two producing formations Producing formation Benson/3rd Riley/ Speechley Pay zon Gas: Initial open flow odor MCF/d Oil: Initial open flow Final open flow 21 MCF/d Final open flow Time of open flow between initial and final tests 24 Static rock Pressure 1250 psig (surface pressure) after		2930-4220	RECEIVED Office of Oil and Gas MAR 1 4 2013	
Second producing formation Pay zo	ne depth (ft)			
Gas: Initial open flow MCF/d Oil: Initial open f		VV V Department of		artment of
	wB			ai Fiolection
Final open flow MCF/d Final open flow	Hour	S		
Final open flow MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) at				

Were core samples taken? YesNoX	Were cuttings caught during drilling? Yes X No
Were Electrical, Mechanical or Geophysical logs recorded o	n this well? If yes, please list_Photo Density
Compensated Neutron, Array Induction	
FRACTURING OR STIMULATING, PHYSICAL CHA	LOWING: 1). DETAILS OF PERFORATED INTERVALS, ANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIO PS AND BOTTOMS OF ALL FORMATIONS, INCLUDING A SURFACE TO TOTAL DEPTH.
Perforated Intervals, Fracturing, or Stimulating:	
4216 - 4220, 11 holes fraced w/250 gals 15% HC	21, 700 sacks 20/40 sand, 2315 bbls slickwater
3992 - 3994, 9 holes fraced w/500 gals 15% HC1	, 93 sacks 20/40 sand, 817 bbls slickwater
2020 2020 44 halos franch w/500 cells 450/ 110	
2930 - 2936, 11 holes fraced w/500 gals 15% HC	1, 500 sacks 20/40 sand, 1992 bbis slickwater
Plug Back Details Including Plug Type and Depth(s):	
Formations Encountered: Top Surface:	Depth / Bottom Depth
Fill 0/8	Sand & Shale 3492 / 3969
Shale 8 / 450 - 1/2" Stream @ 450'	Third Riley 3969 / 3998
Sand & Shale 450 / 1303	Sand & Shale 3998 / 4190
Big Lime 1303 / 1356	Benson 4190 / 4230
Big Injun 1356 / 1414	
Sand & Shale 1414 / 1758	
Gantz 1758 / 1772	
Sand & Shale 1772 / 1897	
Gordon 1897 / 1912	
Sand & Shale 1912 / 2248	
Fifth Sand 2248 / 2285	
Sand & Shale 2285 / 2906	
Speechley 2906 / 2957	
Sand & Shale 2957 / 3400	
Bulltown 3400 / 3492	