

WR-35  
Rev (5-01)

DATE: 11/3/09  
API #: 47-017-05825

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Doughty, Russell & Peggy

Operator Well No.: HINTER #1

LOCATION: Elevation: 930'

Quadrangle: New Milton 7.5

District: Cove

County: Doddridge

Latitude: 12,720 Feet South of 39 Deg. 10 Min. 00 Sec.

Longitude 11,760 Feet West of 80 Deg. 42 Min. 30 Sec.

Company: Gastar Exploration USA, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 1331 Lamar Suite 1080	13 3/8"		30'	Sand
Houston, Texas 77010	9 5/8		379'	144.5
Agent: William M. Herlihy	7"		1735'	281.6
Inspector: David Scranage	4 1/2"		2747'	192
Date Permit Issued: 3/17/09				
Date Well Work Commenced: 8/28/09				
Date Well Work Completed: 11/13/09				
Verbal Plugging:				
Date Permission granted on: 8/26/09				
Rotary X Cable Rig				
Total Depth (feet): 4650'				
Fresh Water Depth (ft.): 65'				
Salt Water Depth (ft.): 1930'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 562-563				

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 2590-2604  
 Gas: Initial open flow 104 MCF/d Oil: Initial open flow 0 Bbl/d  
 Final open flow 931 MCF/d Final open flow 2 Bbl/d  
 Time of open flow between initial and final tests 48 Hours  
 Static rock Pressure 965 psig (surface pressure) after 48 Hours

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WV Department of  
Environmental Protection

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

NOTE: ON BACK OF THIS FORM 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 ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed:

*Randy Slatt*  
 By: \_\_\_\_\_  
 Date: 11/3/09

03/18/2016

**Hinter#1PerfFrac.txt**

**Perforation: 2590-92 w/5 holes, 2600-2604 w/9 holes**

**Frac: Breakdown w/500 gal. 15% HCL Acid, 700 Bbl Pad, 1800 Bbls  
Sand Laden Fluid.  
930 sacks 20/40 sand.**

Record of Geological Formations

Hinter #1

Formation	Color	Hard or Soft	Top/Bottom	Remarks
Fill	Red	soft	0-20	
Sand & Shale	Gray	soft	20-415	1' stream H2O 65'
Sand	White	med.	415-442	
Shale	Gray	soft	442-453	
Shale	Gray	soft	453-562	
Coal	Black	soft	562-563	563' 34" stream H2O
Sandy Shale	Gray	med.	563-1063	
Sand	White	hard	1036-1040	
Sandy Shale	Gray	soft	1040-1186	
Sandy Shale	White	hard	1186-1222	
Red Rock & Shale	Red & Gray	soft	1222-1542	
Sand	White	hard	1542-1570	
Sandy Shale	Gray	soft	1570-1726	
Sand	White	hard	1726-1775	
Shale	Gray	soft	1775-1888	1780' 1/2 stream H2O
Little Lime	Gray	hard	1888-1914	
Pencil Cave	Dark Gray	soft	1914-1933	
Shale	Gray	soft	1933-1947	
Big Lime	Dark Gray	hard	1947-2000	
Big InJun	Tan	hard	2000-2072	
Sandy Shale	Gray	soft	2072-2378	
Gantz Sand	White	hard	2378-2386	
Sandy Shale	Gray	soft	2386-2590	
Gordon Sandy	White	hard	2590-2605	2592' gas check 104,000
Sandy Shale	Gray	soft	2605-4650	