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:	07/31/12
API #:	47-103-02647

Farm name: Dorsey, Robert	Operator Well No.: Charles Musgrave 1H				
LOCATION: Elevation: 1,349'	Quadrangle: Littleton 7.5'				
District: Center Latitude: 10,892' Feet South of 39 Deg. Longitude 3,999' Feet West of 80 Deg.	County: Wetz 42 Min 35 Min	30.0 Sec			
Company: Grenadier Energy Partners, LLC					
CT Corportion 707 Virginia Street East 15th Floor Address: Charleston, WV 25301	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
Agent: Dianna Stamper	24"	40'	40'	Grouted In	
Inspector: Derek Haught	16"	420'	420'	495 cu.ft (CTS)	
Date Permit Issued: 03/31/2011	11-3/4"	1543'	1543'	1071 cu.ft (CTS)	
Date Well Work Commenced: 07/26/2011	8-5/8"	2746'	2746'	841 cu.ft (CTS)	
Date Well Work Completed: 12/08/2012	5-1/2"	10326'	10326'	1901 cu.ft (CTS)	
Verbal Plugging:					
Date Permission granted on:					
Rotary Cable Rig					
Total Vertical Depth (ft): 7520'					
Total Measured Depth (ft): 10356'					
Fresh Water Depth (ft.): Est. 280'					
Salt Water Depth (ft.): N/A					
Is coal being mined in area (N/Y)? N					
Coal Depths (ft.): N/A					
Void(s) encountered (N/Y) Depth(s) N					
OPEN FLOW DATA (If more than two producing formation Producing formation Marcellus Shale Pay zo	o u-p ()		ata on separate s	RECEIV Dilice of Oil	ED 8 Gas
Gas: Initial open flow 6342 MCF/d Oil: Initial open flow - Bbl/d Final open flow - MCF/d Final open flow - Bbl/d					2012
Final open flowMCF/d Final open flow Time of open flow between initial and final tests		ı/u		•	
Static rock Pressure 4125 psig (surface pressure) after		rs .	,	W Depam	nent of
Second producing formation Pay zone depth (ft)					
Gas: Initial open flowMCF/d Oil: Initial open flo	owBt	ol/d			
Final open flow MCF/d Final open flow Time of open flow between initial and final tests		1/ a			
Static rock Pressurepsig (surface pressure) aft		rs			
I certify under penalty of law that I have personally examined a all the attachments and that, based on my inquiry of those indiv that the information is true, accurate, and complete.	nd am familiar	with the infornately responsib	mation submitted le for obtaining t	d on this documen the information I b	t and pelieve

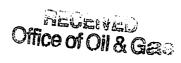
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Were core samples taken? Yes	_ NoX	Were cuttings caught	during drilling? Yes_X No
Were Electrical, Mechanical or Geophy	sical logs recorde	ed on this well? If ves, please list	Yes (Electrical)
GR-Compensated Neutron-Photo Density, GF	R-Dual-Laterolog, GR	-Compensated Sonic	
FRACTURING OR STIMULATING	G, PHYSICAL C ORD OF THE	CHANGE, ETC. 2). THE WELI TOPS AND BOTTOMS OF	OF PERFORATED INTERVAL LLOG WHICH IS A SYSTEMATI ALL FORMATIONS, INCLUDIN EPTH.
Perforated Intervals, Fracturing, or Stim	nulating:		
Perforations: Total Perforated Interv	al (7654' - 1016)	D' MD)	
Fluid: 82,212 bbl Slickwater pumped	l in 7 Stages		
Sand: 1,524,515 lbs 100 mesh sand	, 1,560,285 lbs	40/70 sand	
Plug Back Details Including Plug Type	and Denth(s): N/	Λ	
Ting Duck Domins Mendanig Fing Type	und 20pm(0). 14/	<u> </u>	
Formations Encountered: Surface:		Top Depth /	Bottom Depth
See Attached Sheet			
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			Office of Oil & Gas

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Formation/Lithology	From	To
Silt & Shale	0	1040
Red Rocks	1040	
Sand & Shale	1095	
Salt Sand	2354	
Strate	2000	2072
Big Lime	2390	2486
Big Injun	2480	2672
Silt & Shale	2356	2900
Gordon Stray Ss	3217	3225
Silt and Shale	2910	2938
Gordon Ss	3262	3308
Silt and Shale	2991	3030
Fourth Gordon ss	3358	3360
Silt and Shale	3042	6444
Rhinestreet	6648	7078
Sonya Sh	7078	7246
Genesee Sh	7246	7316
Geneseo Sh	7316	7346
Trully Lm	7346	7350
Hamilton Sh	7350	7466
Marcellus Sh	7466	7510
Onondaga	7510	N/A



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