



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:	01/10/2013
API#:	47-023-00035

Farm name: ALLEGHENY MINING CORP.	Operator Well No.: 1H			
LOCATION: Elevation: 3,204' GL	Quadrangle: _GRENNLAND GAP 7.5			
District: UNION Latitude: 800 Feet South of 39 Deg Longitude 7460 Feet West of 79 Deg				
Company: CARRIZO (MARCELLUS) WV LLC	-	- 		
Address: 500 DALLAS, SUITE 2300	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
HOUSTON, TX 77002	13-3/8"	398'	398'	552 cft
Agent:	9-5/8"	3,288'	3,288'	1362 cft
Inspector:	5-1/2"	13,466'	13,466'	2558 cft
Date Permit Issued: 10/26/11				
Date Well Work Commenced: 01/09/12				
Date Well Work Completed: 5/26/12				
Verbal Plugging:		"		
Date Permission granted on:				
Rotary / Cable Rig				
Total Vertical Depth (ft): 10,271'				
Total Measured Depth (ft): 13,476				
Fresh Water Depth (ft.): 100'				
Salt Water Depth (ft.): NA				
Is coal being mined in area (N/Y)? NO				
Coal Depths (ft.):				
Void(s) encountered (N/Y) Depth(s) NONE				
OPEN FLOW DATA (If more than two producing formation Producing formation MARCELLUS SHALE Pay Gas: Initial open flow 635 MCF/d Oil: Initial open flow Final open flow 754 MCF/d Final open flow Time of open flow between initial and final tests 4 Static rock Pressure 1000 psig (surface pressure) a	zone depth (ft)_flow_0Blow_0Bb w_0Bb 8Hours	9,800 pl/d l/d		
Second producing formation Pay zo Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) at	lowBb wBb Hours	I/d	Office of	
certify under penalty of law that I have personally examined I the attachments and that, based on my inquiry of those indicat the information is true, accurate, and complete.	and am familiar viduals immedia	with the inform tely responsible	nation submitted c for obtaining th	on this document and the information I believe
	tt	01/1	0/13	
Signature			Date	02/15/2013

Jordan Run (370)

Were core samples taken? YesNoX	Were	cuttings caught during drilling? Yes_X No
Were Electrical, Mechanical or Geophysical log DENSITY, RESISTIVITY, SONIC & ECS LOGS	s recorded on this well?	f yes, please list
FRACTURING OR STIMULATING, PHY:	SICAL CHANGE, ETC. F THE TOPS AND BO	1). DETAILS OF PERFORATED INTERVALS, 2). THE WELL LOG WHICH IS A SYSTEMATIC OTTOMS OF ALL FORMATIONS, INCLUDING TO TOTAL DEPTH.
Perforated Intervals, Fracturing, or Stimulating:		
PERFORATED AND FRAC'D 12 STAG	SES FROM 10,273' (I	md) - 13,342' (md) WITH
3,889,600 LBS SAND AND 96,904 BBI		
Plug Back Details Including Plug Type and Dep	th(s): VICK OFF DI	IIC. 272 CACKE CHACE A
9,974' - 10,202'	RICK-OFF PL	UG: 2/2 SACKS CLASS A
Formations Encountered: Surface:	Top Depth	/ Bottom Depth
DK GREY SILTSTONE	0	600
GREY SANDSTONE	600	1100
RED/BROWN SHALE	1100	1900
DK GREY LIMESTONE	1900	2300
DK GREY SILTSTONE	2300	3500
DK GREY SHALE	3500	4450
LT GREY SANDSTONE	4450	4600
LT GREY SILTSTONE	4600	4900
DK GREY SHALE	4900	5500
LT GREY SILTSTONE	5500	5700
DK GREY SHALE	5700	9358
TULLY LIMESTONE	9358	9371
HAMILTON SHALE	9371	9800
UPPER MARCELLUS SHALE	9800	9843
CHERRY VALLEY LIMESTONE	9843	9895
LOWER MARCELLUS SHALE	9895	9963
-ONONDAGO	9963	10090
- ORISKANY SANDSTONE	10090	10010
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