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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:	10/16/2012	
API#:	47-033-05566	-

Farm name: A&B Management, LLC	_ Operator Wel	I No.: D'Annun:	ZIO 4HM	
LOCATION: Elevation: 1117 GL / 1137 KB	_ Quadrangle: _	Clarksburg 7.5	·	
District:Clark	_ County: H	amison		
	17Min		c.	
Longitude 785 Feet West of 80 Deg	g. <u>20</u> Min	Se	c.	
Company: PDC Mountaineer, LLC		_		
Address: 120 Genesis Boulevard	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Bridgeport, WV 26330	30"	65'	65'	Cement to Surf
Agent: Bob Williamson	13 3/8"	492'	492'	795
Inspector: Sam Ward	9 5/8"	2723'	2723'	1,263
Date Permit Issued: 07/06/2011	5 1/2"	13,590'	13,590'	3,108
Date Well Work Commenced: 01/28/2013				
Date Well Work Completed: 06/18/2013	2 7/8"	******	8,003'	
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig			RECEIV	ED
Total Vertical Depth (ft): 7,225'		-	office of Oi	
Total Measured Depth (ft): 13,605'				a Cas
Fresh Water Depth (ft.): 128', 195', 264'			OCT 28	2013
Salt Water Depth (ft.): 840'				
Is coal being mined in area (N/Y)? N		, /	VV Depart	ment of
Coal Depths (ft.): 360', 775'		Env	ronmenta	Protection
Void(s) encountered (N/Y) Depth(s) None				
OPEN FLOW DATA (If more than two producing formation	ons please includ	le additional da	ta on separate sh	eet)
Producing formation Marcellus Shale Pay Gas: Initial open flow 5,402 MCF/d Oil: Initial open f	zone depth (ft) 7	204' TVD		
Gas: Initial open flow 5,402 MCF/d Oil: Initial open f Final open flow 2,424 MCF/d Final open flow				
Time of open flow between initial and final tests	95 Hours	/U		
Static rock Pressure 540 psig (surface pressure) at		s		
Second producing formation N/A Pay 20				
Gas: Initial open flowMCF/d Oil: Initial open fl	ne depth (ft)	 /a		
Final open flow MCF/d Final open flow	v Bb/	/d		
Time of open flow between initial and final tests	Hours			
Static rock Pressurepsig (surface pressure) af	terHours	•		
certify under penalty of law that I have personally examined a	ınd anı familia	reisla slam in Com	artan e to to to	
is the attachments and that, based on my inquiry of those indiv	iduals immediat	elv resnonsible	anon submitted (on this document and
nat the information is true, accurate, and complete) responsible	rot optatitilis (U	e miormanon i believ
2K () \m-				
		10/25	2012	

Signature

10/25/2013 Date 11/22/2013

Were core samples taken? YesNo	XX w	ere cuttings caugh	at during drilling? Yes_XX No
Were Electrical, Mechanical or Geophysical I Mud Log from 4800' - 13,605'. Path Finder GR log from 4520'	ogs recorded on this well	? If yes, please li	st_Vaughn Energy Gyro from 4546' - Surf.
NOTE: IN THE AREA BELOW PUT FRACTURING OR STIMULATING, PH DETAILED GEOLOGICAL RECORD COAL ENCOUNTERED BY THE WELL	YSICAL CHANGE, ET OF THE TOPS AND	C. 2). THE WE	LL LOG WHICH IS A SYSTEMATIC
Perforated Intervals, Fracturing, or Stimulating	g:		
Perforated interval 8,142 ft - 13,462 ft	(850 shots). Frac'd	17 stages using	g 410 bbls 15% HCL and 147,700
bbls of Slickwater carrying 1,383,500	lbs of 100-mesh sai	nd and 5,528,9	900 lbs of 40/70 sand.
Dis D. I.D. ett. v. i. i			
Plug Back Details Including Plug Type and Do	epth(s):		
Formations Encountered: Surface:	Top Depth		Bottom Depth
Little Lime	1490	1510	
Big Lime	1530	1600	RECEIVED
Big Injun	1600	1710	Office of Oil & Gas
Gantz	2040	2062	CHILE DI VII & CAO
50 Foot	2080	2130	UCT 2 8 2013
30 Foot	2130	2160	
Gordon Stray	2168	2180	WV Department of
4th Sand	2430	2491	Environmental Protectio
5th Sand	2520	2570	
Benson	4358	4398	
Sycamore	6414	6478	
Geneseo	6939	6955	
Tully	6955	7012	
Marcellus	7182	13,605	MD-TD
All depths are TVD except TD.			