## ginia ntal Protection Gas f Well Work

DATE:	1-31-2012	i de la company
API#:	47-061-01621	

WR-35	State of West Virg
tev (9-11)	Department of Environmen
	Office of Oil and
<b>*</b> 3	Well Operator's Report of

TION: Elevation: 1321'	Quadrangle:	Quadrangle: Morgantown South				
District: Clinton	County: Mon-	ongalia				
Longitude 6483' Feet West of 79 De	eg. 57 Mir	1. 30 Se	c.			
Company: Chesapeake Appalachia, L.L.C.						
Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.		
Oklahoma City, OK 73154-0496	13 3/8"	529'	529'	559 cf		
Agent: Eric Gillespie	9 5/8"	3082'	3082'	1325 cf		
Inspector: Sam Ward	5 1/2"	15615	15615'	3783 cf		
Date Permit Issued: 2/14/2011						
Date Well Work Commenced: 5/2/2011						
Date Well Work Completed: 7/29/2011						
Verbal Plugging:						
Date Permission granted on:						
Rotary Cable Rig						
Total Vertical Depth (ft): 7567'						
Total Measured Depth (ft): 15620'						
Fresh Water Depth (ft.): 400'						
Salt Water Depth (ft.): None				1.43		
Is coal being mined in area (N/Y)? N			The state of the s			
Coal Depths (ft.): 161'			ا مير ا انا انا امو			
Void(s) encountered (N/Y) Depth(s) N			( ) ( )			
Gas: Initial open flow MCF/d Oil: Initial open Final open flow 2,708 MCF/d Final open f	ny zone depth (ft) n flowB lowBt	7,666'-15,493' bl/d bl/d	lata on separate s	heen S		
Time of open flow between initial and final tests_ Static rock Pressure 4,919 psig (surface pressure)						
Second producing formation Pay	zone depth (ft)					
Gas: Initial open flowMCF/d Oil: Initial open		bl/d				
Final open flow MCF/d Final open fl		ol/d				
Time of open flow between initial and final tests_ Static rock Pressure psig (surface pressure)						

all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

09/14/2012

Were core samples taken? YesNo_	X We	re cuttings caught during o	lrilling? Yes X No
Vere Electrical, Mechanical or Geophysical	logs recorded on this well?	If yes, please list none	
NOTE: IN THE AREA BELOW PUTANTING, PARTICLE GEOLOGICAL RECORD COAL ENCOUNTERED BY THE WELD	IYSICAL CHANGE, ETC OF THE TOPS AND	C. 2). THE WELL LOG BOTTOMS OF ALL F	WHICH IS A SYSTEMA
erforated Intervals, Fracturing, or Stimulation	ng:		
ee Attached)			
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		67	
·		*48	
		177,	AR 2 Gas
		Sm. 125	2013
ug Back Details Including Plug Type and I	Depth(s): Comont @ 1	5 500'	773
	Cement @ 1	0,023 · · · · · · · · · · · · · · · · · · ·	and the second
			1943 1944
Formations Encountered:	Top Depth		Bottom Depth
urface:			
See attached)			
de ditached)	· · · · · · · · · · · · · · · · · · ·		
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FORMATION/LITHOLOGY	TOP DEPTH (ft)	BOTTOM DEPTH (ft)		
SS and Sltst	0	161		
Pittsburgh Coal	161	171		
Shale and Sltst w/ minor SS	171	560		
Shale and SS	560	980		
LS and Shale	980	1154		
Big Injun	1154	1430		
Shale w/ SS and minor Sltst	1430	2720		
Sltst w/ minor Shale	2720	2970		
Shale w/ minor Sltst	2970	4620		
Shale	4620	7038		
Geneseo	7038	7067		
Tully	7067	7127		
Hamilton	7127	7443		
Marcellus	7443	15620		

## PERFORATION RECORD ATTACHMENT

Well Name and Number: Reliance Minerals Inc Mon 3H (833041)

PERFO	RATION R	ECORD	STIMULATION RECORD							
	Interval F	erforated			Fluid		Propping Agent		Average	
Date	From	To	Date	Interval	Treated	Туре	Amount	Type	Amount	Injection
7/29/2011	15,171	15,493	7/29/2011	15,171	15,493	Slk Wtr	9,492	Sand	340,403	79.0
8/9/2011	14,316	14,698	8/9/2011	14,316	14,698	Slk Wtr	10,737	Sand	579,300	77.0
8/10/2011	13,841	14,223	8/10/2011	13,841	14,223	Slk Wtr	8,049	Sand	568,280	70.0
8/10/2011	13,366	13,748	8/10/2011	13,366	13,748	Slk Wtr	9,789	Sand	453,506	79.0
8/11/2011	12,891	13,273	8/11/2011	12,891	13,273	Slk Wtr	10,747	Sand	570,274	69.0
8/11/2011	12,416	12,798	8/11/2011	12,416	12,798	Slk Wtr	13,885	Sand	573,360	72.0
8/12/2011	11,947	12,323	8/12/2011	11,947	12,323	Slk Wtr	12,781	Sand	570,020	74.0
8/12/2011	11,466	11,848	8/12/2011	11,466	11,848	Slk Wtr	13,573	Sand	572,220	74.0
8/13/2011	10,991	11,367	8/13/2011	10,991	11,367	Slk Wtr	11,593	Sand	570,080	72.0
8/13/2011	10,516	10,898	8/13/2011	10,516	10,898	Slk Wtr	9,504	Sand	570,700	72.0
8/13/2011	10,048	10,423	8/13/2011	10,048	10,423	Slk Wtr	9,846	Sand	576,860	77.0
8/14/2011	9,562	9,948	8/14/2011	9,562	9,948	Slk Wtr	16,315	Sand	572,520	68.0
8/15/2011	9,091	9,473	8/15/2011	9,091	9,473	Slk Wtr	10,250	Sand	570,620	73.0
8/15/2011	8,616	9,000	8/15/2011	8,616	9,000	Slk Wtr	10,082	Sand	570,180	75.0
8/16/2011	8,141	8,523	8/16/2011	8,141	8,523	Slk Wtr	9,436	Sand	571,780	74.0
8/16/2011	7,666	8,048	8/16/2011	7,666	8,048	Slk Wtr	9,194	Sand	578,300	77.0
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