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:	1-31-2012
API#:	47-061-01614

name: Reliance Minerals	Operator we	Operator Well No.: 8H (832598)			
TION: Elevation: 1321'	Quadrangle:	Quadrangle: Morgantown South			
District: Clinton	County: Mon	ongalia			
	eg. <u>32</u> Mi	n. 30 Se			
Longitude 11861' Feet West of 79 D	eg. <u>57</u> Min	n. 30 Se	c.		
Company: Chesapeake Appalachia, L.L.C.					
Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fil up Cu. Ft.	
Oklahoma City, OK 73154-0496	13 3/8"	525'	525'	590 cf	
Agent: Eric Gillespie	9 5/8"	2986'	2986'	1373 ct	
Inspector: Tristan Jenkins	5 1/2"	15029'	15029'	3804 ct	
Date Permit Issued: 12/10/2010					
Date Well Work Commenced: 4/2/2011					
Date Well Work Completed: 7/30/2011					
Verbal Plugging:					
Date Permission granted on:					
Rotary Cable Rig					
Total Vertical Depth (ft): 7,261'					
Total Measured Depth (ft): 15,037'					
Fresh Water Depth (ft.): 400'					
Salt Water Depth (ft.): None					
Is coal being mined in area (N/Y)? N	.,				
Coal Depths (ft.): 161'					
Void(s) encountered (N/Y) Depth(s) N					
EN FLOW DATA (If more than two producing form	ations please inch	ıde additional d	ata on separate s	heet)	
	ay zone depth (ft)	7,798'-14,894'			
Gas: Initial open flow 1,844 MCF/d Oil: Initial open Final open flow MCF/d Final open flow		561/d 61/d			
· ———		s	William		
Static rock Pressure 4,720 psig (surface pressure		ırs	MAR WARDERS	, , , , , , , , , , , , ,	
Second producing formation Pay	zone denth (ff)		MAN.	30 2012	
Gas: Initial open flow MCF/d Oil: Initial open		Bbl/d	THE SER.	147/m.,	

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and 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.

Marley Williams

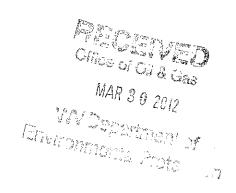
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

3-29-2012

09/14/2012

Were core samples taken? Yes	No_X Were	cuttings caught during d	-illing? Yes_X No_	
Were Electrical, Mechanical or Geophysi INDUCTION, SONIC SCANNER, FMI	cal logs recorded on this well? It	f yes, please list GR, N	EUTRON, DENSITY	
NOTE: IN THE AREA BELOW FRACTURING OR STIMULATING DETAILED GEOLOGICAL RECO COAL ENCOUNTERED BY THE W	, PHYSICAL CHANGE, ETC. RD OF THE TOPS AND BO	2). THE WELL LOG YOTTOMS OF ALL FO	WHICH IS A SYSTEM	IATI
erforated Intervals, Fracturing, or Stimu	lating:			
See Attached)		<del></del>		
			<del>* *</del>	
lug Back Details Including Plug Type a	nd Depth(s): Cement @ 14,	,939'		
	· · · · · · · · · · · · · · · · · · ·			,
Formations Encountered: urface:	Top Depth	/	Bottom Depth	
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FORMATION/LITHOLOGY	TOP DEPTH (ft)	BOTTOM DEPTH (ft)
SS and Sltst	0	161
Pittsburgh Coal	161	171
SS and Sltst	171	240
Shale and minor Coal	240	300
Shale and SS w/ minor Sltst	300	680
Shale	680	760
SS and minor Shale	760	980
LS and SS	980	1144
Big Injun	1144	1440
SS and minor Shale	1440	1500
Shale and minor SS	1500	2060
SS, Shale, and minor Sltst	2060	2850
Shale w/ minor Sltst	2850	7021
Geneseo	7021	7070
Tully	7070	7156
Hamilton	7156	7440
Marcellus	7440	15105



## PERFORATION RECORD ATTACHMENT

Well Name and Number: Reliance Minerals 8H (832598)

61-1614

Interval Perforated   From   To   Date   Interval Treated   Type   Amount   Injection   T/30/2011   14,572   14,894   Sik Wtr   7,841   Sand   409,680   83.0   7/31/2011   14,100   14,479   7/31/2011   13,622   14,004   7/31/2011   13,622   14,004   7/31/2011   13,622   14,004   7/31/2011   13,147   13,529   Sik Wtr   12,645   Sand   576,240   86.0   81/2011   13,147   13,529   Sik Wtr   12,667   Sand   576,240   86.0   Sir/2011   12,667   13,054   Sik Wtr   12,667   Sand   576,240   86.0   Sir/2011   12,667   13,054   Sik Wtr   12,667   Sand   576,240   86.0   Sir/2011   12,667   13,054   Sik Wtr   12,667   Sand   576,240   86.0   Sir/2011   12,667   13,054   Sik Wtr   9,456   Sand   576,240   84.0   Sir/2011   11,598   11,980   Sik Wtr   9,456   Sand   578,960   88.0   Sir/2011   11,598   11,980   Sik Wtr   9,456   Sand   578,960   88.0   Sir/2011   11,598   11,980   Sik Wtr   9,456   Sand   578,960   88.0   Sir/2011   10,555   Sir/2011   10,555   Sir/2011   Si	PERFORATION RECORD			STIMULATION RECORD							
Date         From         To         Date         Interval Treated         Type         Amount         Type         Amount         Injection           7/30/2011         14,572         14,894         7/30/2011         14,572         14,894         Slk Wtr         7,841         Sand         409,680         83.0           7/31/2011         14,100         14,479         7/31/2011         14,100         14,479         Slk Wtr         13,505         Sand         574,340         80.0           7/31/2011         13,622         14,004         7/31/2011         13,622         14,004         Slk Wtr         12,645         Sand         576,240         86.0           8/1/2011         13,147         13,529         8/1/2011         13,147         13,529         Slk Wtr         10,267         Sand         576,280         86.0           8/1/2011         12,667         13,054         8/1/2011         12,667         13,054         Slk Wtr         9,912         Sand         570,640         84.0           8/2/2011         12,073         12,455         8/2/2011         12,073         12,455         Slk Wtr         9,456         Sand         578,980         88.0           8/4/2011         11,598         11		Interval P	erforated					Propping Agent		Average	
7/31/2011         14,100         14,479         7/31/2011         14,100         14,479         Sik Wtr         13,505         Sand         574,340         80.0           7/31/2011         13,622         14,004         7/31/2011         13,622         14,004         Sik Wtr         12,645         Sand         576,240         86.0           8/1/2011         13,147         13,529         8/1/2011         13,147         13,529         Sik Wtr         10,267         Sand         576,280         86.0           8/1/2011         12,667         13,054         8/1/2011         12,667         13,054         Sik Wtr         9,912         Sand         576,280         86.0           8/2/2011         12,667         13,054         Sik Wtr         10,267         Sand         576,280         86.0           8/1/2011         12,667         13,054         Sik Wtr         9,912         Sand         570,640         84.0           8/2/2011         12,073         12,455         Sik Wtr         9,456         Sand         578,980         88.0           8/4/2011         11,598         11,980         Sik Wtr         9,670         Sand         577,100         86.0           8/5/2011         10,655				Date	Interval	Treated	Туре	Amount	Туре	Amount	-
7/31/2011         13,622         14,004         7/31/2011         13,622         14,004         Sik Wtr         12,645         Sand         576,240         86.0           8/1/2011         13,147         13,529         8/1/2011         13,147         13,529         Sik Wtr         10,267         Sand         576,280         86.0           8/1/2011         12,667         13,054         8/1/2011         12,667         13,054         Sik Wtr         9,912         Sand         570,640         84.0           8/2/2011         12,073         12,455         8/2/2011         12,073         12,455         Sik Wtr         9,456         Sand         578,980         88.0           8/4/2011         11,598         11,980         Sik Wtr         9,670         Sand         577,100         86.0           8/4/2011         11,123         11,598         11,980         Sik Wtr         10,897         Sand         568,180         84.0           8/5/2011         10,655         11,030         Sik Wtr         9,352         Sand         578,760         83.0           8/5/2011         10,173         10,555         8/5/2011         10,173         10,555         Sik Wtr         9,827         Sand         578,660 <td>7/30/2011</td> <td>14,572</td> <td>14,894</td> <td>7/30/2011</td> <td>14,572</td> <td>14,894</td> <td>Slk Wtr</td> <td>7,841</td> <td>Sand</td> <td>409,680</td> <td>83.0</td>	7/30/2011	14,572	14,894	7/30/2011	14,572	14,894	Slk Wtr	7,841	Sand	409,680	83.0
8/1/2011         13,147         13,529         8/1/2011         13,147         13,529         Slk Wtr         10,267         Sand         576,280         86.0           8/1/2011         12,667         13,054         8/1/2011         12,667         13,054         Slk Wtr         9,912         Sand         570,640         84.0           8/2/2011         12,073         12,455         8/2/2011         12,073         12,455         Slk Wtr         9,456         Sand         578,980         88.0           8/4/2011         11,598         11,980         8/4/2011         11,598         11,980         Slk Wtr         9,670         Sand         577,100         86.0           8/4/2011         11,123         11,505         8/4/2011         11,123         11,505         Slk Wtr         10,897         Sand         568,180         84.0           8/5/2011         10,655         11,030         8/5/2011         10,655         11,030         Slk Wtr         9,352         Sand         578,760         83.0           8/5/2011         10,173         10,555         8/5/2011         10,173         10,555         Slk Wtr         9,827         Sand         578,660         86.0           8/6/2011         9,698 </td <td>7/31/2011</td> <td>14,100</td> <td>14,479</td> <td>7/31/2011</td> <td>14,100</td> <td>14,479</td> <td>Slk Wtr</td> <td>13,505</td> <td>Sand</td> <td>574,340</td> <td>80.0</td>	7/31/2011	14,100	14,479	7/31/2011	14,100	14,479	Slk Wtr	13,505	Sand	574,340	80.0
8/1/2011         12,667         13,054         8/1/2011         12,667         13,054         Sik Wtr         9,912         Sand         570,640         84.0           8/2/2011         12,073         12,455         Sik Wtr         9,456         Sand         578,980         88.0           8/4/2011         11,598         11,980         Sik Wtr         9,670         Sand         577,100         86.0           8/4/2011         11,123         11,505         8/4/2011         11,123         11,505         Sik Wtr         10,897         Sand         568,180         84.0           8/5/2011         10,655         11,030         8/5/2011         10,655         11,030         Sik Wtr         9,352         Sand         578,760         83.0           8/5/2011         10,173         10,555         8/5/2011         10,173         10,555         Sik Wtr         9,827         Sand         578,660         86.0           8/5/2011         9,698         10,080         8/5/2011         9,698         10,080         Sik Wtr         9,717         Sand         571,400         84.0           8/6/2011         9,223         9,605         8/6/2011         9,223         9,605         Sik Wtr         10,021	7/31/2011	13,622	14,004	7/31/2011	13,622	14,004	Slk Wtr	12,645	Sand	576,240	86.0
8/2/2011         12,073         12,455         8/2/2011         12,073         12,455         Sik Wtr         9,456         Sand         578,980         88.0           8/4/2011         11,598         11,980         Sik Wtr         9,670         Sand         577,100         86.0           8/4/2011         11,123         11,598         11,980         Sik Wtr         10,897         Sand         568,180         84.0           8/5/2011         10,655         11,030         8/5/2011         10,655         11,030         Sik Wtr         9,352         Sand         578,760         83.0           8/5/2011         10,173         10,555         8/5/2011         10,173         10,555         Sik Wtr         9,827         Sand         578,660         86.0           8/5/2011         9,698         10,080         Sik Wtr         9,717         Sand         571,400         84.0           8/6/2011         9,223         9,605         8/6/2011         9,223         9,605         Sik Wtr         10,021         Sand         576,580         86.0           8/6/2011         8,748         9,130         8/6/2011         8,748         9,130         Sik Wtr         10,904         Sand         571,580	8/1/2011	13,147	13,529	8/1/2011	13,147	13,529	Slk Wtr	10,267	Sand	576,280	86.0
8/4/2011         11,598         11,980         8/4/2011         11,598         11,980         Slk Wtr         9,670         Sand         577,100         86.0           8/4/2011         11,123         11,505         8/4/2011         11,123         11,505         Slk Wtr         10,897         Sand         568,180         84.0           8/5/2011         10,655         11,030         8/5/2011         10,655         11,030         Slk Wtr         9,352         Sand         578,760         83.0           8/5/2011         10,173         10,555         8/5/2011         10,173         10,555         Slk Wtr         9,827         Sand         578,660         86.0           8/5/2011         9,698         10,080         8/5/2011         9,698         10,080         Slk Wtr         9,717         Sand         571,400         84.0           8/6/2011         9,223         9,605         Slk Wtr         10,021         Sand         576,580         86.0           8/6/2011         8,748         9,130         Slk Wtr         10,191         Sand         571,140         85.0           8/7/2011         8,273         8,655         8/7/2011         8,273         8,655         Slk Wtr         10,904	8/1/2011	12,667	13,054	8/1/2011	12,667	13,054	Slk Wtr	9,912	Sand	570,640	84.0
8/4/2011         11,123         11,505         8/4/2011         11,123         11,505         Slk Wtr         10,897         Sand         568,180         84.0           8/5/2011         10,655         11,030         8/5/2011         10,655         11,030         Slk Wtr         9,352         Sand         578,760         83.0           8/5/2011         10,173         10,555         8/5/2011         10,173         10,555         Slk Wtr         9,827         Sand         578,660         86.0           8/5/2011         9,698         10,080         Slk Wtr         9,717         Sand         571,400         84.0           8/6/2011         9,223         9,605         8/6/2011         9,223         9,605         Slk Wtr         10,021         Sand         576,580         86.0           8/6/2011         8,748         9,130         Slk Wtr         10,191         Sand         571,140         85.0           8/7/2011         8,273         8,655         8/7/2011         8,273         8,655         Slk Wtr         10,904         Sand         571,580         82.0	8/2/2011	12,073	12,455	8/2/2011	12,073	12,455	Sik Wtr	9,456	Sand	578,980	88.0
8/5/2011         10,655         11,030         8/5/2011         10,655         11,030         Slk Wtr         9,352         Sand         578,760         83.0           8/5/2011         10,173         10,555         8/5/2011         10,173         10,555         Slk Wtr         9,827         Sand         578,660         86.0           8/5/2011         9,698         10,080         Slk Wtr         9,717         Sand         571,400         84.0           8/6/2011         9,223         9,605         8/6/2011         9,223         9,605         Slk Wtr         10,021         Sand         576,580         86.0           8/6/2011         8,748         9,130         8/6/2011         8,748         9,130         Slk Wtr         10,191         Sand         571,140         85.0           8/7/2011         8,273         8,655         8/7/2011         8,273         8,655         Slk Wtr         10,904         Sand         571,580         82.0	8/4/2011		11,980		11,598	11,980	Slk Wtr	9,670	Sand	577,100	86.0
8/5/2011         10,655         11,030         8/5/2011         10,655         11,030         Slk Wtr         9,352         Sand         578,760         83.0           8/5/2011         10,173         10,555         8/5/2011         10,173         10,555         Slk Wtr         9,827         Sand         578,660         86.0           8/5/2011         9,698         10,080         Slk Wtr         9,717         Sand         571,400         84.0           8/6/2011         9,223         9,605         8/6/2011         9,223         9,605         Slk Wtr         10,021         Sand         576,580         86.0           8/6/2011         8,748         9,130         8/6/2011         8,748         9,130         Slk Wtr         10,191         Sand         571,140         85.0           8/7/2011         8,273         8,655         8/7/2011         8,273         8,655         Slk Wtr         10,904         Sand         571,580         82.0	8/4/2011	11,123	11,505	8/4/2011	11,123	11,505	Slk Wtr	10,897	Sand	568,180	84.0
8/5/2011         9,698         10,080         8/5/2011         9,698         10,080         Slk Wtr         9,717         Sand         571,400         84.0           8/6/2011         9,223         9,605         8/6/2011         9,223         9,605         Slk Wtr         10,021         Sand         576,580         86.0           8/6/2011         8,748         9,130         8/6/2011         8,748         9,130         Slk Wtr         10,191         Sand         571,140         85.0           8/7/2011         8,273         8,655         8/7/2011         8,273         8,655         Slk Wtr         10,904         Sand         571,580         82.0	8/5/2011	10,655	11,030	8/5/2011	10,655	11,030	Slk Wtr	9,352		578,760	83.0
8/6/2011         9,223         9,605         8/6/2011         9,223         9,605         Slk Wtr         10,021         Sand         576,580         86.0           8/6/2011         8,748         9,130         Slk Wtr         10,191         Sand         571,140         85.0           8/7/2011         8,273         8,655         8/7/2011         8,273         8,655         Slk Wtr         10,904         Sand         571,580         82.0	8/5/2011	10,173	10,555	8/5/2011	10,173	10,555	Slk Wtr	9,827	Sand	578,660	86.0
8/6/2011     9,223     9,605     8/6/2011     9,223     9,605     Slk Wtr     10,021     Sand     576,580     86.0       8/6/2011     8,748     9,130     Slk Wtr     10,191     Sand     571,140     85.0       8/7/2011     8,273     8,655     8/7/2011     8,273     8,655     Slk Wtr     10,904     Sand     571,580     82.0	8/5/2011	9,698	10,080	8/5/2011	9,698	10,080	Slk Wtr	9,717	Sand	571,400	84.0
8/7/2011 8,273 8,655 8/7/2011 8,273 8,655 Slk Wtr 10,904 Sand 571,580 82.0	8/6/2011	9,223	9,605	8/6/2011	9,223	9,605	Slk Wtr	10,021	Sand	576,580	86.0
	8/6/2011	8,748	9,130	8/6/2011	8,748	9,130	Slk Wtr	10,191	Sand	571,140	85.0
8/7/2011 7,798 8,180 8/7/2011 7,798 8,180 SIk Wtr 9,656 Sand 573,340 86.0	8/7/2011	8,273	8,655	8/7/2011	8,273	8,655	Slk Wtr	10,904	Sand	571,580	82.0
	8/7/2011	7,798	8,180	8/7/2011	7,798	8,180	Slk Wtr	9,656	Sand	573,340	86.0
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