

WR -35

Date: 10/20/2010
API # 47-097-03690

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Farm Name: Dale Winfree 5H

Operator Well No.: 831572

LOCATION Elevation: 1961'
District: Banks
Latitude: 6337 ft South of 38° 50' 00"
Longitude: 5595 ft West of 80° 17' 30"

Quadrangle: Rock Cave
County:

Company: Chesapeake Appalachia, L.L.C.
P.O. Box 18496
OKC, OK 73154-0496

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill-Up Cu.Ft.
20"	60'	60'	Driven
13 3/8"	600'	600'	541 CF
9 5/8"	1858'	1858'	937 CF
7"	7750'	7750'	683 CF
4 1/2" liner	11,995	11,995	584 CF

Agent: Eric Gillespie
Inspector: Bill Hatfield
Date Permit Issued: 11/10/2009
Date Well work commenced: 1/29/2010
Date Well Work completed: 9/25/2010
Verbal Plugging Permission
Granted on / /
Rotary Cable Rig
Total Depth (ft): 11995 TVD (ft): 7233'
Fresh Water Depth (ft): 475'
Salt Water Depth (ft.): NA
Is coal being mined in area (Yes No
Coal Depths (ft): None
Was this well logged and plugged back?
Yes ___ No ___ if yes -
depth cement plug set _____

RECEIVED
Office of Oil & Gas

JAN 17 2013

Open Flow Data WV Department of Environmental Protection

1st Producing Formation Pay Zone Depth 7,549 ft to 11,869 ft

Gas: Initial Open Flow	1,611 Mcf/day	Oil: Initial Open Flow	bbbl/day
Final Open Flow	N/A Mcf/day	Final Open Flow	bbbl/day
Time of Open Flow between Initial and Final Tests	In	hours	
	Line	hours	
Static Rock Pressure	3,255 psig after N/A	hours	

2nd Producing Formation Pay Zone Depth ft to ft

Gas: Initial Open Flow	N/A Mcf/day	Oil: Initial Open Flow	bbbl/day
Final Open Flow	N/A Mcf/day	Final Open Flow	bbbl/day
Time of Open Flow between Initial and Final Tests	hours	hours	
Static Rock Pressure	N/A psig after	hours	

3rd Producing Formation Pay Zone Depth ft to ft

Gas: Initial Open Flow	N/A Mcf/day	Oil: Initial Open Flow	bbbl/day
Final Open Flow	N/A Mcf/day	Final Open Flow	bbbl/day
Time of Open Flow between Initial and Final Tests	hours	hours	
Static Rock Pressure	N/A psig after	hours	

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

02/08/2013

Chesapeake Energy
Well No.: 831572

Perforated Intervals

1 st Stage	Marcellus	50 holes from	11,549 ft to	11,869 ft
2 nd Stage	Marcellus	50 holes from	11,149 ft to	11,471 ft
3 rd Stage	Marcellus	50 holes from	10,749 ft to	11,071 ft
4 th Stage	Marcellus	50 holes from	10,349 ft to	10,671 ft
5 th Stage	Marcellus	50 holes from	9,951 ft to	10,271 ft
6 th Stage	Marcellus	50 holes from	9,543 ft to	9,871 ft
7 th Stage	Marcellus	50 holes from	9,149 ft to	9,471 ft
8 th Stage	Marcellus	50 holes from	8,749 ft to	9,075 ft
9 th Stage	Marcellus	50 holes from	8,349 ft to	8,671 ft
10 th Stage	Marcellus	50 holes from	7,949 ft to	8,270 ft
11 th Stage	Marcellus	50 holes from	7,549 ft to	7,871 ft

Fracturing / Stimulation

Stage	Type of Treatment Slickwater			
1 st Stage	Total Acid 5,000 Gal of 15% HCl		Breakdown Pressure 6,789 psi	
	Average Rate 83 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,506 psi MTP 9,077 psi	
	Total Fluid 8,368 bbl	Total Nitrogen 0 scf	Total Sand 65,115 lb of 100 mesh	
			Total Sand 331,227 lb of 40/70	
	ISIP 3,986 psi		5 min 2,652 psi	
2 nd Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,201 psi	
	Average Rate 81 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,428 psi MTP 8,549 psi	
	Total Fluid 7,979 bbl	Total Nitrogen 0 scf	Total Sand 81,000 lb of 100 mesh	
			Total Sand 321,507 lb of 40/70	
3 rd Stage	ISIP 3,200 psi		5 min 2,491 psi	
	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 8,180 psi	
	Average Rate 74 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 6,948 psi MTP 9,121 psi	
	Total Fluid 9,257 bbl	Total Nitrogen 0 scf	Total Sand 80,886 lb of 100 mesh	
		Total Sand 324,067 lb of 40/70		
4 th Stage	ISIP 3,729 psi		5 min 2,789 psi	
	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 7,582 psi	
	Average Rate 86 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,021 psi MTP 9,263 psi	
	Total Fluid 9,098 bbl	Total Nitrogen 0 scf	Total Sand 80,411 lb of 100 mesh	
		Total Sand 320,057 lb of 40/70		
5 th Stage	ISIP 3,650 psi		5 min 2,705 psi	
	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,372 psi	
	Average Rate 87 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,000 psi MTP 8,994 psi	
	Total Fluid 8,464 bbl	Total Nitrogen 0 scf	Total Sand 80,277 lb of 100 mesh	
		Total Sand 320,576 lb of 40/70		
6 th Stage	ISIP 4,084 psi		5 min 3,000 psi	
	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 5,383 psi	
	Average Rate 87 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 6,703 psi MTP 8,782 psi	
	Total Fluid 7,667 bbl	Total Nitrogen 0 scf	Total Sand 80,380 lb of 100 mesh	
		Total Sand 323,992 lb of 40/70		
ISIP 3,786 psi		5 min 3,042 psi		

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7 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 5,870 psi		
	Average Rate 89 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 7,115 psi	MTP 8,774 psi	
	Total Fluid 7,383 bbl	Total Nitrogen 0 scf	Total Sand 81,124 lb of 100 mesh	
			Total Sand 321,629 lb of 40/70	
	ISIP 3,610 psi	5 min 2,801 psi		
8 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 5,755 psi		
	Average Rate 89 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 6,750 psi	MTP 8,875 psi	
	Total Fluid 7,618 bbl	Total Nitrogen 0 scf	Total Sand 80,212 lb of 100 mesh	
			Total Sand 320,587 lb of 40/70	
	ISIP 3,822 psi	5 min 2,995 psi		
9 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 6,124 psi		
	Average Rate 86 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 6,810 psi	MTP 8,580 psi	
	Total Fluid 7,843 bbl	Total Nitrogen 0 scf	Total Sand 81,078 lb of 100 mesh	
			Total Sand 273,959 lb of 40/70	
	ISIP 3,818 psi	5 min 2,895 psi		
10 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 5,988 psi		
	Average Rate 87 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 7,110 psi	MTP 8,239 psi	
	Total Fluid 7,472 bbl	Total Nitrogen 0 scf	Total Sand 80,230 lb of 100 mesh	
			Total Sand 333,833 lb of 40/70	
	ISIP 3,393 psi	5 min 2,472 psi		
11 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl	Breakdown Pressure 6,109 psi		
	Average Rate 89 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>	ATP 6,681 psi	MTP 8,546 psi	
	Total Fluid 7,717 bbl	Total Nitrogen 0 scf	Total Sand 81,177 lb of 100 mesh	
			Total Sand 321,159 lb of 40/70	
	ISIP 3,433 psi	5 min 2,809 psi		

Dair Winfree SH

HORIZONTAL WELL (No pilot hole associated with this pad)				
Maximum TVD of wellbore:	7235 ft TVD @ 11995 ft MD			
Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS and SH	0	0	530	530
SS and SH	530	530	1556	1556
Big Lime	1556	1556	1600	1600
SS and SILTSTN	1600	1600	1767	1767
Big Injun	1767	1767	1810	1810
SS and SILTSTN	1810	1810	2590	2590
SILTSTN	2590	2590	3750	3750
SILTSTN and SS	3750	3750	5250	5250
SS and SH	5250	5250	5475	5475
SILTSTN and SH	5475	5475	6700	6670
SH and LS	6700	6670	7090	7052
Geneseo	7090	7052	7251	7096
Tully	7251	7096	7285	7120
Hamilton	7285	7120	7424	7206
Marcellus	7424	7206	7523	7249
Purcell	7523	7249		
End of Well			11995	7235