

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 2012-11-29
API #: 47-9101216

Farm name: Charles H. Cather et al Operator Well No.: 513056

LOCATION: Elevation: 1183 Quadrangle: Rosemont

District: Unknown County: Taylor, WV
Latitude: 39.29230 Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: -80.15006 Feet West of West Deg. _____ Min. _____ Sec.

Company: EQT Production Company

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
EQT Plaza, Suite 1700 625 Liberty Avenue, Pittsburgh, PA 15222	20	40	40	44.03
Agent: Cecil Ray	13 3/8	1,060	1,060	888
Inspector: Brian Harris	9 5/8	2,852	2,852	1,076.95
Date Permit Issued: 2011-02-24	5 1/2	10,371	10,371	1,118.1
Date Well Work Commenced: 2011-05-16				
Date Well Work Completed: 2012-02-23				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 7,721.60				
Total Measured Depth (ft): 10,376				
Fresh Water Depth (ft.): 55, 542 ft				
Salt Water Depth (ft.): 1,878 ft				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 150, 331, 470, 524, 605				
Void(s) encountered (N/Y) Depth(s)				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 2,782 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 2,848 psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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.

Michael Butts
Signature

2012-11-29
Date

01/11/2013

Were core samples taken? Yes _____ No

Were cuttings caught during drilling? Yes _____ No

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Geophysical

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

See Attachment

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth
Surface:

Fill 0/74 -- Red Rock 78/84 -- Fill/Clay 84/107 -- Red Rock 107/110 -- Fill 110/150-- Coal 150/153 -- Fill 153/169
 Red Rock 169/174 -- Sand/Shale 174/331-- Coal 331/336 -- Rosedale Gas Sand 336/524 -- Coal 524/530
 Black Shale 530/605 -- Coal 605/610 -- Gray Shale 610/955 -- Red Sandstone 955/1320
 Big Lime 1,320 / 1,424.65 -- Big Injun 1,424.65 / 1,577.04 -- Weir Sand 1,577.04 / 1,810
 Gantz 1,810 / 1,879.22 -- Fifty Foot 1,879.22 / 1,949.82 -- -Thirty Foot 1,949.82 / 2,008.36 --
 Gordon 2,008.36 / 2,128.03 -- -Fourth Sand 2,128.03 / 2,343.85 -- Fifth Sand 2,343.85 / 2,371.67 --
 Bayard 2,371.67 / 2,783.3 -- -B-5 2,783.3 / 3,001.61 -- -Speechley 3,001.61 / 3,332.79 --
 Riley 3,717.32 / 4,346.2 -- -Benson 4,346.2 / 4,704.67 -- Elk 4,704.67 / 6,572.83 □
 Sonyea 6,572.83 / 6,901.42 -- Middlesex 6,901.42 / 7,036.62 -- Genesee 7,036.62 / 7,296.36 --
 Geneseo 7,296.36 / 7,316.42 -- Tully 7,316.42 / 7,369.64 -- Hamilton 7,369.64 / 7,502.25 □
 Marcellus / 7,502.25 -- Purcell / 7,566.8 -- Cherry Valley / 7,643.08 --

EQT WR-35		Completion	Attachment	Well	Treatment	Summary
Stage	Formation	Frac Type				
1	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psl	SIP Detail	
11/10/2011	10228 - 10350		6,482.00	8,023.00	5 Min: 5293	
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4894	
97.00	9,128.00	6,505.00	1.28		15 Min: 4762	
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
197,522.00	7,079.00		2,000.00			
Stage	Formation	Frac Type				
2	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psl	SIP Detail	
11/12/2011	10078 - 10200		6,357.00	7,704.00	5 Min: 4102	
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 3802	
99.20	8,519.00	5,045.00	1.09		15 Min: 3661	
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
203,835.00	5,360.00		2,000.00			
Stage	Formation	Frac Type				
3	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psl	SIP Detail	
11/12/2011	9928 - 10050		6,574.00	7,970.00	5 Min: 3758	
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 3535	
93.40	8,496.00	4,892.00	1.07		15 Min: 3412	
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
200,941.00	5,524.00		2,000.00			

01/11/2013

EQT WR-35		Completion	Attachment	Well	Treatment	Summary
Stage	Formation	Frac Type				
4	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
11/12/2011	9778 - 9900		5,871.00	7,764.00	5 Min: 4618	
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4226	
98.60	8,600.00	5,484.00	1.15		15 Min: 3982	
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
202,231.00	5,258.00		2,000.00			
Stage	Formation	Frac Type				
5	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
11/12/2011	9630 - 9750		9,517.00	7,607.00	5 Min: 4994	
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4589	
94.10	8,055.00	5,699.00	1.17		15 Min: 4365	
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
205,823.00	5,219.00		2,000.00			
Stage	Formation	Frac Type				
6	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
11/12/2011	9478 - 9598		6,377.00	7,388.00	5 Min: 4938	
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4694	
99.40	8,080.00	5,743.00	1.18		15 Min: 4553	
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
198,669.00	5,164.00		2,000.00			

01/11/2013

EQT WR-35	Completion	Attachment	Well	Treatment	Summary
Stage	Formation	Frac Type			
7	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
11/13/2011	9328 - 9450		6,705.00	7,659.00	5 Min: 5079
					10 Min: 4786
					15 Min: 4632
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
98.30	8,832.00	5,609.00	1.16		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
198,794.00	5,269.00		2,000.00		
Stage	Formation	Frac Type			
8	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
11/13/2011	9178 - 9300		6,604.00	7,401.00	5 Min: 4930
					10 Min: 4506
					15 Min: 4292
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
99.80	7,662.00	5,677.00	1.17		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
199,445.00	5,136.00		2,000.00		
Stage	Formation	Frac Type			
9	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
11/13/2011	9028 - 9150		6,984.00	7,538.00	5 Min: 5121
					10 Min: 4742
					15 Min: 4514
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
99.00	8,039.00	5,886.00	1.2		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
203,935.00	5,463.00		2,000.00		

01/11/2013

EQT WR-35	Completion	Attachment	Well	Treatment	Summary
Stage	Formation	Frac Type			
10	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
11/13/2011	8878 - 9000		6,086.00	7,524.00	5 Min: 4611
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4201
99.70	7,976.00	5,701.00	1.18		15 Min: 3961
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
203,679.00	5,116.00		2,000.00		
Stage	Formation	Frac Type			
11	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
11/13/2011	8728 - 8848		5,937.00	6,899.00	5 Min: 4869
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4602
97.80	7,375.00	5,638.00	1.17		15 Min: 4421
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
205,036.00	5,125.00		2,000.00		
Stage	Formation	Frac Type			
12	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
11/13/2011	8578 - 8714		6,064.00	7,077.00	5 Min: 4988
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4750
95.10	8,468.00	5,626.00	1.17		15 Min: 4578
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
198,364.00	5,081.00		2,000.00		

01/11/2013

EQT WR-35	Completion	Attachment	Well	Treatment	Summary
Stage	Formation	Frac Type			
13	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
11/14/2011	8428 - 8550		5,945.00	7,235.00	5 Min: 4779
					10 Min: 4441
					15 Min: 4248
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
99.96	7,953.00	5,581.00	1.16		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
200,832.00	5,113.00		2,000.00		
Stage	Formation	Frac Type			
14	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
11/14/2011	8278 - 8400		5,927.00	6,876.00	5 Min: 4957
					10 Min: 4695
					15 Min: 4503
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
96.40	7,249.00	5,501.00	1.15		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
205,957.00	5,164.00		2,000.00		
Stage	Formation	Frac Type			
15	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
11/14/2011	8128 - 8250		6,108.00	7,468.00	5 Min: 4113
					10 Min: 3793
					15 Min: 3614
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
98.00	8,862.00	5,191.00	1.11		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
205,236.00	5,075.00		2,000.00		

01/11/2013

EQT WR-35	Completion	Attachment	Well	Treatment	Summary
Stage	Formation	Frac Type			
16	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
11/14/2011	7978 - 8100		6,765.00	7,900.00	5 Min: 0
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 0
78.10	8,872.00	0.00	0		15 Min: 0
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
172,144.00	5,871.00		2,000.00		
Stage	Formation	Frac Type			
17	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
11/15/2011	7828 - 7950		6,889.00	7,219.00	5 Min: 3837
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 3632
99.60	8,190.00	5,001.00	1.1		15 Min: 3523
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
202,655.00	5,274.00		2,000.00		