

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 #: 47-9101226

Farm name: Charles H. Cather et al Operator Well No.: 513054

LOCATION: Elevation: 1183 Quadrangle: Rosemont

District: Unknown County: Taylor, WV
Latitude: 39.30348 Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude -80.15786 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	134.52
Agent: Cecil Ray	13 3/8	1,056	1,056	912
Inspector: Brian Harris	9 5/8	2,955	2,955	1094.8
Date Permit Issued: 2011-02-24	5 1/2	12,023.68	12,023.68	1,429.5
Date Well Work Commenced: 2011-06-16				
Date Well Work Completed: 2012-03-01				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 7,467.38				
Total Measured Depth (ft): 12,037				
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 3,280 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 2,736 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

[Signature]
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
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Stage	Formation	Frac Type			
1	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psl	SIP Detail
8/26/2011	11717 - 11959		6,551.00	7,840.00	5 Min: 5116
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4464
93.00	8,692.00	6,103.00	1.25		15 Min: 4431
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
401,200.00	11,233.00		2,000.00		

Stage	Formation	Frac Type			
2	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psl	SIP Detail
8/27/2011	11417 - 11659		8,313.00	8,246.00	5 Min: 4535
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4297
90.51	9,206.00	5,346.00	1.15		15 Min: 4169
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
399,063.00	10,649.00		2,000.00		

Stage	Formation	Frac Type			
3	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psl	SIP Detail
8/27/2011	11117 - 11359		8,213.00	8,012.00	5 Min: 4424
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4142
97.15	9,166.00	5,853.00	1.22		15 Min: 3944
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
398,531.00	10,193.00		2,000.00		

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Stage	Formation	Frac Type			
4	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
8/27/2011	10817 - 11059		7,383.00	8,098.00	5 Min: 4896
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4523
94.00	8,871.00	6,060.00	1.24		15 Min: 4311
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
393,777.00	10,132.00		2,000.00		
Stage	Formation	Frac Type			
5	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
8/27/2011	10517 - 10759		7,385.00	7,979.00	5 Min: 5070
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4603
96.00	8,871.00	5,511.00	1.17		15 Min: 4361
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
400,670.00	9,992.00		2,000.00		
Stage	Formation	Frac Type			
6	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
8/28/2011	10217 - 10459		7,930.00	7,955.00	5 Min: 4581
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4314
97.90	9,027.00	5,325.00	1.14		15 Min: 4175
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
401,730.00	10,115.00		2,000.00		

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
11/5/2011	9917 - 10159		7,841.00	7,722.00	5 Min: 5408
					10 Min: 5122
					15 Min: 4906
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
99.60	8,323.00	5,808.00	1.2		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
404,591.00	10,068.00		2,000.00		
Stage	Formation	Frac Type			
8	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
11/6/2011	9617 - 9859		7,839.00	7,860.00	5 Min: 5485
					10 Min: 5147
					15 Min: 4884
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
100.90	9,335.00	5,938.00	1.22		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
410,001.00	10,829.00		2,000.00		
Stage	Formation	Frac Type			
9	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
11/6/2011	9317 - 9559		6,353.00	7,315.00	5 Min: 5444
					10 Min: 4988
					15 Min: 4719
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
104.00	7,689.00	6,088.00	1.24		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
407,707.00	10,338.00		2,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary
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Stage	Formation	Frac Type			
10	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
11/6/2011	9017 - 9259		7,319.00	7,589.00	5 Min:
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min:
101.00	8,880.00	5,862.00	1.21		15 Min:
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
398,520.00	9,966.00		2,000.00		

Stage	Formation	Frac Type			
11	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
11/6/2011	8717 - 8988		6,156.00	7,607.00	5 Min:
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min:
100.50	7,998.00	4,390.00	1.01		15 Min:
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
399,949.00			2,000.00		

Stage	Formation	Frac Type			
12	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
11/6/2011	8419 - 8657		6,156.00	7,898.00	5 Min: 0
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 0
97.80	9,744.00	7,650.00	0		15 Min: 0
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
365,608.00	9,473.00		2,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary
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Stage	Formation	Frac Type			
13	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
11/7/2011	8117 - 8359		5,980.00	7,806.00	5 Min: 3754
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 3543
100.00	8,826.00	4,675.00	1.05		15 Min: 3389
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
399,450.00	10,583.00		2,000.00		

Stage	Formation	Frac Type			
14	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
11/7/2011	7817 - 8059		5,868.00	7,998.00	5 Min: 3538
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 3338
91.70	9,112.00	4,316.00	1.06		15 Min: 3200
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
399,535.00	11,514.00		2,000.00		