

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: 3/11/2013
API #: 47-091-01234

REVISED

Farm name: Charles H. Cather et al Operator Well No.: 513057

LOCATION: Elevation: 1,191' Quadrangle: Rosemont

District: Flemington County: Taylor, WV
Latitude: 15.130 Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 7.880 Feet West of 80 Deg. 07 Min. 30 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	80
Agent: Cecil Ray	13 3/8	1,070	1,070	1,005
Inspector: Bryan Harris	9 5/8	2,842	2,842	1,098
Date Permit Issued: 8/23/2011	5 1/2	11,350	11,350	1,323
Date Well Work Commenced: 6/9/2011				
Date Well Work Completed: 11/10/2011				
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 7,644' TVD (Plugged back to 6,061' TVD)	*Note: Well was side tracked	TVD (ft): 7,690'	*Well was drilled down dip.	
Total Measured Depth (ft): 11,351'				
Fresh Water Depth (ft.): 55', 330'				
Salt Water Depth (ft.): No visible show.				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 330', 524', 605'				
Void(s) encountered (N/Y) Depth(s) No				

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

Producing formation Marcellus Pay zone depth (ft) 7,502-7,690

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow 2,978 MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure 2,921 psig (surface pressure) after 794 Hours

Second producing formation No second 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

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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

3/11/2013
Date

06/21/2013

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes X No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes, Gyro and MWD Gamma Logs

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): 1)Pumped solid cement plug from 8192,'MD to 7,898'MD.
2)Pumped solid cement plug from 6,479'MD to 6,069'MD.

Formations Encountered:	Top Depth	/	Bottom Depth
Surface:			
Sand/Shale	0 / 330	/	330 -- Coal / 330 / 337 / 7 -- Red Rock / 337 / 524 / 187 --
Coal	524 / 530 / 6	--	Sand/Shale / 530 / 605 / 75 -- Coal / 605 / 610 / 5 -- Sand/Shale / 610 / 1,120 / 510
Sandstone	1,120 / 1,320 / 200	--	Big Lime / 1,320 / 1,424 / 104 -- Big Injun / 1,424 / 1,577 / 152
Weir Sand	1,577 / 1,810 / 232	--	Gantz / 1,810 / 1,879 / 69 -- Fifty Foot / 1,879 / 1,949 / 70
Thirty Foot	1,949 / 2,008 / 58	--	Gordon / 2,008 / 2,128 / 119 -- -Fourth Sand / 2,128 / 2,343 / 215
Fifth Sand	2,343 / 2,371 / 27	--	Bayard / 2,371 / 2,783 / 411 -- B-5 / 2,783 / 3,001 / 218
Speechley	3,001 / 3,332 / 331	--	Bradford / 3,332 / 3,522 / 189 -- Balltown B / 3,522 / 3,717 / 194 -- Riley / 3,717 / 4,346 / 628
Benson	4,346 / 4,704 / 358	--	Elk / 4,704 / 6,572 / 1,868 -- Sonyea / 6,572 / 6,901 / 328
Middlesex	6,901 / 7,157 / 255	--	Genesee / 7,157 / 7,296 / 139 -- Geneseo / 7,296 / 7,316 / 20
Tully	7,316 / 7,369 / 53	--	Hamilton / 7,369 / 7,502 / 132 -- Marcellus / 7,502 / 7,680 / 178
Onondaga	7,680 / 7,690 / 10	--	

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EQT WR-35 Completion Attachment Well 513057 Treatment Summary

Stage 1	Formation MARCELLUS	Frac Type Slickwater				
Date 11/7/2011	From / To 11088 - 11330	# of perfs	BD Press 6,395.00	ATP Psi 8,444.00	SIP Detail 5 Min: 3703 10 Min: 3486 15 Min: 3359	
Avg Rate 86.60	Max Press PSI 9,070.00	ISIP 5,112.00	Frac Gradient 1.1			
Sand Proppant 356,570.00	Water-bbl 11,128.00	SCF N2	Acid-Gal 2,000.00			

Stage 2	Formation MARCELLUS	Frac Type Slickwater				
Date 11/7/2011	From / To 10788 - 11030	# of perfs	BD Press 6,562.00	ATP Psi 7,704.00	SIP Detail 5 Min: 4949 10 Min: 4700 15 Min: 4515	
Avg Rate 100.10	Max Press PSI 8,277.00	ISIP 5,634.00	Frac Gradient 1.17			
Sand Proppant 396,452.00	Water-bbl 10,050.00	SCF N2	Acid-Gal 2,000.00			

Stage 3	Formation MARCELLUS	Frac Type Slickwater				
Date 11/8/2011	From / To 10488 - 10730	# of perfs	BD Press 6,802.00	ATP Psi 7,413.00	SIP Detail 5 Min: 5164 10 Min: 4914 15 Min: 4724	
Avg Rate 95.30	Max Press PSI 8,926.00	ISIP 5,497.00	Frac Gradient 1.15			
Sand Proppant 405,046.00	Water-bbl 10,232.00	SCF N2	Acid-Gal 2,000.00			

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Stage 4	Formation MARCELLUS	Frac Type Slickwater			
Date 11/8/2011	From / To 10188 - 10430	# of perfs	BD Press 7,118.00	ATP Psi 7,653.00	SIP Detail 5 Min: 5219 10 Min: 4964 15 Min: 4802
Avg Rate 99.40	Max Press PSI 8,268.00	ISIP 5,733.00	Frac Gradient 1.18		
Sand Proppant 404,055.00	Water-bbl 9,912.00	SCF N2	Acid-Gal 2,000.00		

Stage 5	Formation MARCELLUS	Frac Type Slickwater			
Date 11/8/2011	From / To 9880 - 10128	# of perfs	BD Press 6,764.00	ATP Psi 7,755.00	SIP Detail 5 Min: 5320 10 Min: 5068 15 Min: 4906
Avg Rate 97.20	Max Press PSI 8,536.00	ISIP 5,886.00	Frac Gradient 1.2		
Sand Proppant 397,877.00	Water-bbl 11,184.00	SCF N2	Acid-Gal 2,000.00		

Stage 6	Formation MARCELLUS	Frac Type Slickwater			
Date 11/9/2011	From / To 9588 - 9830	# of perfs	BD Press 6,564.00	ATP Psi 7,439.00	SIP Detail 5 Min: 5194 10 Min: 5021 15 Min: 4886
Avg Rate 99.40	Max Press PSI 8,335.00	ISIP 5,606.00	Frac Gradient 1.17		
Sand Proppant 404,098.00	Water-bbl 10,036.00	SCF N2	Acid-Gal 2,000.00		

Stage 7	Formation MARCELLUS	Frac Type Slickwater			
Date 11/9/2011	From / To 9288 - 9530	# of perfs	BD Press 7,021.00	ATP Psi 7,452.00	SIP Detail 5 Min: 4242 10 Min: 4060 15 Min: 4024
Avg Rate 100.10	Max Press PSI 8,393.00	ISIP 4,643.00	Frac Gradient 1.04		
Sand Proppant 378,112.00	Water-bbl 9,748.00	SCF N2	Acid-Gal 2,000.00		

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Stage 8	Formation MARCELLUS	Frac Type Slickwater			
Date 11/9/2011	From / To 8988 - 9238	# of perfs	BD Press 6,767.00	ATP Psi 7,480.00	SIP Detail 5 Min: 4790 10 Min: 4499 15 Min: 4338
Avg Rate 99.90	Max Press PSI 7,732.00	ISIP 5,626.00	Frac Gradient 1.17		
Sand Proppant 405,455.00	Water-bbl 9,959.00	SCF N2	Acid-Gal 2,000.00		

Stage 9	Formation MARCELLUS	Frac Type Slickwater			
Date 11/9/2011	From / To #Error	# of perfs	BD Press 6,452.00	ATP Psi 7,434.00	SIP Detail 5 Min: 5157 10 Min: 4879 15 Min: 4702
Avg Rate 100.10	Max Press PSI 8,228.00	ISIP 5,453.00	Frac Gradient 1.15		
Sand Proppant 409,067.00	Water-bbl 9,997.00	SCF N2	Acid-Gal 2,000.00		

Stage 10	Formation MARCELLUS	Frac Type Slickwater			
Date 11/10/2011	From / To 8388 - 8630	# of perfs	BD Press 6,573.00	ATP Psi 7,112.00	SIP Detail 5 Min: 4934 10 Min: 4564 15 Min: 4315
Avg Rate 99.80	Max Press PSI 8,984.00	ISIP 5,588.00	Frac Gradient 1.17		
Sand Proppant 404,575.00	Water-bbl 10,889.00	SCF N2	Acid-Gal 2,000.00		

Stage 11	Formation MARCELLUS	Frac Type Slickwater			
Date 11/10/2011	From / To 8088 - 8330	# of perfs	BD Press 7,369.00	ATP Psi 7,801.00	SIP Detail 5 Min: 4729 10 Min: 4452 15 Min: 4281
Avg Rate 98.30	Max Press PSI 8,739.00	ISIP 5,540.00	Frac Gradient 1.16		
Sand Proppant 404,888.00	Water-bbl 9,579.00	SCF N2	Acid-Gal 2,000.00		

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