

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: 2013-01-16
API #: 47-103-02876 Amended

Farm name: John W. & Florence E. Kilcoyna Operator Well No.: 513475

LOCATION: Elevation: 857' Quadrangle: Big Run

District: Grant County: Wetzel, WV
Latitude: 8292 Feet South of 39 Deg. 35 Min. 00 Sec.
Longitude 6310 Feet West of 80 Deg. 32 Min. 00 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	42	42	113.52
Agent: Cecil Ray	16	299	299	354
Inspector: David Scranage	13 3/8	843	843	309.4
Date Permit Issued: 2011-04-21	9 5/8	3,074.9	3,074.9	1,424.85
Date Well Work Commenced: 2012-01-23	5 1/2	11,471	11,471	1,587.2
Date Well Work Completed: 2012-06-28				
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.): 7,070'				
Total Measured Depth (ft.): 11,471				
Fresh Water Depth (ft.): 220				
Salt Water Depth (ft.): 1505				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 594				
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) 7,012
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 8,123 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 2,720 psig (surface pressure) after _____ Hours

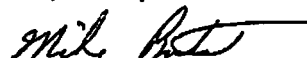
Second producing formation No second formation. Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

RECEIVED
Office of Oil and Gas

FEB 24 2015

WV Department of
Environmental Protection

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

2013-01-16
Date

103.02676

EQT WR-35	Completion	Attachment	Well	Treatment	Summary
Stage	Formation	Frac Type			
1	MARCELLUS	Stickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
4/28/2012	11210 - 11452		6,039.00	8,622.00	5 Min: 4333
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4160
74.90	9,222.00	4,858.00	1.12		15 Min: 4013
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
355,781.00	10,631.00		2,000.00		
Stage	Formation	Frac Type			
2	MARCELLUS	Stickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
4/28/2012	10910 - 11151		6,731.00	8,419.00	5 Min: 4161
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4025
81.70	9,027.00	4,670.00	1.09		15 Min: 3956
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
374,853.00	9,083.00		750.00		
Stage	Formation	Frac Type			
3	MARCELLUS	Stickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
4/28/2012	10610 - 10852		7,231.00	8,469.00	5 Min: 4686
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4490
95.39	8,829.00	5,141.00	1.16		15 Min: 4350
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
397,869.00	8,791.00		750.00		

RECEIVED
Office of Oil and Gas

FEB 24 2015

WV Department of
Environmental Protection

103-02676

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
4/29/2012	10310 - 10552		7,097.00	8,562.00	5 Min: 5616
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 5312
93.40	8,848.00	6,142.00	1.3		15 Min: 5097
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
398,979.00	8,742.00		750.00		
Stage	Formation	Frac Type			
5	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
4/29/2012	10010 - 10252		6,380.00	8,171.00	5 Min: 5119
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4900
95.50	8,610.00	5,411.00	1.2		15 Min: 4748
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
399,426.00	9,241.00		750.00		
Stage	Formation	Frac Type			
6	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
4/29/2012	9710 - 9952		6,717.00	7,896.00	5 Min: 4811
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4637
96.70	8,205.00	5,214.00	1.17		15 Min: 4496
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
399,849.00	9,166.00		750.00		

RECEIVED
Office of Oil and Gas

FEB 24 2015

WV Department of
Environmental Protection

103-02676

EQT WR-35	Completion	Attachment	Well	Treatment	Summary
Stage	Formation	Frac Type			
7	MARCELLUS	Slickwater			
Date	From / To	# of perms	BD Press	ATP Psi	SIP Detail
4/29/2012	9410 - 9652		7,041.00	8,255.00	5 Min: 4674
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4484
100.20	9,199.00	5,210.00	1.17		15 Min: 4351
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
405,060.00	8,794.00		750.00		
Stage	Formation	Frac Type			
8	MARCELLUS	Slickwater			
Date	From / To	# of perms	BD Press	ATP Psi	SIP Detail
4/29/2012	9110 - 9352		6,552.00	8,717.00	5 Min: 5201
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4935
98.50	8,951.00	6,013.00	1.29		15 Min: 4913
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
397,846.00	8,170.00		750.00		
Stage	Formation	Frac Type			
9	MARCELLUS	Slickwater			
Date	From / To	# of perms	BD Press	ATP Psi	SIP Detail
4/30/2012	8810 - 9052		6,860.00	8,238.00	5 Min: 4980
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4630
94.90	8,970.00	5,465.00	1.21		15 Min: 4469
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
384,344.00	9,732.00		750.00		

RECEIVED
Office of Oil and Gas

FEB 24 2015

WV Department of
Environmental Protection

103.02676

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
4/30/2012	8510 - 8752		6,412.00	7,868.00	5 Min: 4739
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4522
99.60	8,351.00	5,036.00	1.15		15 Min: 4355
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
390,135.00	8,862.00		750.00		
Stage	Formation	Frac Type			
11	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
4/30/2012	8210 - 8452		7,009.00	7,692.00	5 Min: 4399
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4231
99.90	8,120.00	4,970.00	1.14		15 Min: 4110
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
399,596.00	8,410.00		750.00		
Stage	Formation	Frac Type			
12	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
5/1/2012	7910 - 8152		7,418.00	8,087.00	5 Min: 5349
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 5057
98.80	8,810.00	6,109.00	1.3		15 Min: 4863
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
403,765.00	8,202.00		750.00		

RECEIVED
Office of Oil and Gas

FEB 24 2015

WV Department of
Environmental Protection

103-02676

EQT WR-35	Completion	Attachment	Well	Treatment	Summary
Stage	Formation	Frac Type			
13	MARCELLUS	Stickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
5/1/2012	7610 - 7852		6,419.00	7,955.00	5 Min: 4131
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4090
89.70	9,132.00	4,576.00	1.08		15 Min: 3971
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
397,669.00	9,150.00		750.00		

RECEIVED
Office of Oil and Gas

FEB 24 2015

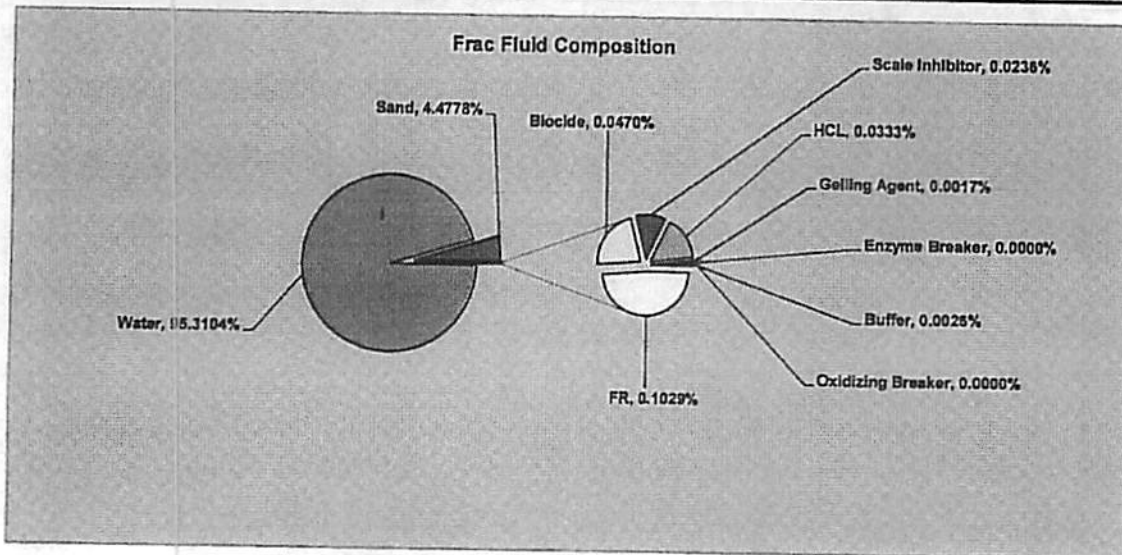
WV Department of
Environmental Protection

103-02676



Well Number: 513475

Product Name	Common Description	Purpose	Use and Dilution	Actual Volume	Overall %
Water	Carrier Fluid	Creates fracture network in shale and carry sand to the formation	Approximately 400,000 gallons per stage	4,954,507 gal	95.3104%
Sand	Sand	Enable fractures to remain open and allow gas to escape into the wellbore	Approximately 400,000 pounds per stage	232,770 gal	4.4778%
FR	Friction Reducer	Reduces friction between pipe and fluid	Diluted at one gallon per 1,000 gallons of water	5,350 gal	0.1029%
Biocide	Antimicrobial Agent	Eliminates bacteria in water sources	Diluted at one-half gallon per 1,000 gallons of water	2,442 gal	0.0470%
Scale Inhibitor	Scale Inhibitor	Prevents scale deposits	Diluted at one-quarter gallon per 1,000 gallons of water	1,225 gal	0.0236%
HCL	Acid	Dissolves cement and minerals in the perforations (non-diluted)	Up to 250 gallons per stage (non-diluted chemicals)	1,733 gal	0.0333%
Gelling Agent	Viscosifier	Creates viscosity to ensure sand is transported into the fractures	Diluted at twenty pounds per 1,000 gallons of water	90 gal	0.0017%
Oxidizing Breaker	Breaker	Reduces viscosity to the fluid	Diluted at one-half pound per 1,000 gallons of water	2 gal	0.0000%
Enzyme Breaker	Breaker	Reduces viscosity of the fluid	Not used	0 gal	0.0000%
Buffer	Buffer Agent	Adjusts pH of the fluid	Diluted to one-tenth gallon per 1,000 gallons of water, used as needed	134 gal	0.0026%



RECEIVED
Office of Oil and Gas

FEB 24 2015

WV Department of
Environmental Protection