

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

API # 4704105649
4704105649

*Deviation Survey
attached*

Farm Name Bott
Bott
Location Elevation 1510
1510
District Unknown
Unknown

Well Number 511458
511458
QUAD Roanoke
Roanoke
County Lewis, WV
WV

Latitude 2010 Degree 38 Minutes 55 Seconds 0
Longitude 8350 West Degree 80 Minutes 22 Seconds 30

Company EQT Plaza
Suite 1700
625 Liberty Avenue
Pittsburgh, Pa 15222

Longitude 38.91112
Latitude -80.40429

Agent	Casing & Tubing Size	Used In Drilling	Left in Well	Cement Cubic FT
Cecil Ray	24	66.00	66.00	
Cecil Ray	20	42.00	42.00	
Inspector Tim Bennett	13 3/8	1290.00	1,290.00	1,106.70
Inspector Tim Bennett	13 3/8	1308.00	1,308.00	1,136.00
Permit Issued 5/18/2010	13 3/8	1308.00	1,308.00	1,136.00
Permit Issued 5/18/2010	9 5/8	2583.00	2,583.00	1,016.60
Well Work Commenced 7/12/2010	9 5/8	5011.00	5,011.00	969.21
Well Work Commenced 11/16/2010	9 5/8	5011.00	5,011.00	969.21
Well Work Completed	9 5/8	5011.00	5,011.00	847.00
Well Work Completed	9 5/8	5011.00	5,011.00	847.00
Verbal Plugging	9 5/8	5011.00	5,011.00	
Verbal Plugging	9 5/8	5011.00	5,011.00	
Rotary Rig X Rotary Rig	5 1/2	11063.00	11,063.00	1,581.51
Total Depth 9,151.00				
TVD 7297'		1308.00	1,308.00	1,136.00

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Type From
Silt 6,330.00 ft. - ft.

Type From
Fresh Water 380.00

Producing Formation MARCELLUS

*This well did not have
a cement plug.*

Gas: Initial Open Flow N/A

Final Open Flow 2181 MCFD

Static Rock Pressure 255 PSI

01/27/2012

NOTE: On back of this form put the following

- 1) Details of Perforated intervals, fracturing or stimulating, physical change, etc.
- 2) The well log, a systematic detailed geological record of all formations including coal encountered in the well bore

By
Date

For EQT Production Company

Mike Butcher

10-26-2011

Formation record

Gas Tests

Depth	Gas	Comments
2,926.00	0	Odor
6,118.00	0	
7,320.00	0	No Show

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Formation Name	Top	Bottom	Thickness
SAND AND SHALE	0.00	1,824.00	1,824.00
Big Lime	1,824.63	1,970.92	146.29
BIG LIME	1,824.63	1,970.92	146.29
Big Injun	1,970.92	2,195.86	224.94
BIG INJUN	1,970.92	2,195.86	224.94
GANTZ	2,195.86	2,236.45	40.59
Gantz	2,195.86	2,236.45	40.59
50F	2,236.45	2,279.21	42.76
BEREA	2,279.21	2,314.96	35.75
Gordon	2,557.10	2,673.72	116.62
GORDON	2,557.10	2,673.72	116.62
5TH	2,809.72	3,027.37	217.65
Fifth sand	2,809.72	3,027.37	217.65
BAYARD	3,027.37	3,189.21	161.84
Speechley	3,189.21	3,283.28	94.07
SPEECHLEY	3,189.21	3,283.28	94.07
Balltown	3,283.28	3,837.56	554.28
BALLTOWN A	3,283.28	3,837.56	554.28
RILEY	3,837.56	4,029.17	191.61
Riley	3,837.56	4,029.17	191.61
Bradford	4,029.17	4,479.80	450.63
BRADFORD	4,029.17	4,479.80	450.63
Benson	4,479.80	4,931.88	452.08
BENSON	4,479.80	4,931.88	452.08
ALEXANDER	4,931.88	6,489.46	1,557.58
Alexander	4,931.88	6,489.46	1,557.58
Sonyea	6,489.46	6,757.59	268.13
SONYEA	6,489.46	6,757.59	268.13
MIDDLESEX	6,757.59	6,893.36	135.77
Middlesex	6,757.59	6,893.36	135.77
Genesee	6,893.36	7,054.03	160.67
GENESSEE	6,893.36	7,054.03	160.67
Geneseo	7,054.03	7,088.43	34.40
GENESE0	7,054.03	7,088.43	34.40
TULLY	7,088.43	7,109.43	21.00
Tully	7,088.43	7,109.43	21.00
Hamilton	7,109.43	7,190.58	81.15
HAMILTON	7,109.43	7,190.58	81.15
MARCELLUS	7,190.58	7,191.20	0.62
Marcellus	7,190.58	7,191.20	0.62
Purcell	7,202.37	7,249.23	46.86
PURCELL	7,202.37	7,249.23	46.86
Cherry Valley	7,249.23		
CHERRY VALLEY	7,249.23		

were core samples taken? yes

were cuttings caught during drilling? yes

were electrical, mechanical or geophysical logs taken? yes (geophysical)

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 THE DEPARTMENT OF
 ENVIRONMENTAL CONSERVATION

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 Psi	SIP Detail	
8/19/2011	10501 - 10743		8,774.00	7,949.00	5 Min: 3897	
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 3631	
85.00	9,063.00	4,497.00	1.05		15 Min: 3450	
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
402,490.00	8,756.00		2,000.00			

Stage	Formation	Frac Type				
2	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
8/19/2011	10501 - 10743		6,813.00	8,098.00	5 Min: 4594	
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 4015	
97.00	9,093.00	5,351.00	1.16		15 Min: 3837	
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
401,343.00	9,978.00		2,000.00			

Stage	Formation	Frac Type				
3A	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
8/20/2011	10199 - 10416		8,237.00	8,830.00	5 Min:	
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min:	
56.80	9,158.00	0.00	0		15 Min:	
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
9,214.00	4,866.00		2,000.00			

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EQT WR-35	Completion	Attachment	Well	Treatment	Summary
Stage	Formation	Frac Type			
3	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
8/20/2011	10201 - 10443		8,439.00	8,976.00	5 Min:
					10 Min:
					15 Min:
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
43.80	9,236.00	7,571.00	1.47		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
	2,189.00		2,000.00		

Stage	Formation	Frac Type			
3B	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
8/21/2011	10199 - 10473		7,690.00	8,575.00	5 Min: 4763
					10 Min: 4438
					15 Min: 4426
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
80.84	9,085.00	5,306.00	1.16		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
388,200.00	12,455.00		1,000.00		

Stage	Formation	Frac Type			
4	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
8/21/2011	9901 - 10143		8,123.00	8,109.00	5 Min: 4879
					10 Min: 4573
					15 Min: 4380
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
84.00	9,067.00	5,424.00	1.18		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
400,760.00	11,809.00		2,000.00		

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 GRUBBS & ASSOCIATES
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 10143-9901-3

EQT WR-35	Completion	Attachment	Well	Treatment	Summary
Stage	Formation	Frac Type			
5	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
8/22/2011	9601 - 9843		8,303.00	8,108.00	5 Min: 3941
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 3563
85.90	8,709.00	4,714.00	1.08		15 Min: 3314
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
399,408.00	9,718.00		2,000.00		

Stage	Formation	Frac Type			
6	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
8/22/2011	9301 - 9543		7,371.00	7,576.00	5 Min: 3729
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 3410
91.48	8,934.00	4,390.00	1.03		15 Min: 3238
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
401,508.00	10,419.00		2,000.00		

Stage	Formation	Frac Type			
7	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
8/22/2011	9001 - 9243		6,415.00	7,311.00	5 Min: 3872
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 3599
93.90	8,801.00	4,601.00	1.06		15 Min: 3429
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
401,579.00	10,027.00		2,000.00		

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EQT WR-35	Completion	Attachment	Well	Treatment	Summary
Stage	Formation	Frac Type			
8	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
8/22/2011	8701 - 8943		5,897.00	7,478.00	5 Min: 3973
					10 Min: 3666
					15 Min: 3468
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
99.40	8,839.00	4,768.00	1.09		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
400,649.00	10,285.00		2,000.00		

Stage	Formation	Frac Type			
9	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
8/23/2011	8401 - 8643		6,961.00	7,550.00	5 Min: 3507
					10 Min: 3229
					15 Min: 3035
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
99.80	8,834.00	4,424.00	1.04		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
399,659.00	10,281.00		2,000.00		

Stage	Formation	Frac Type			
10	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
8/23/2011	8101 - 8343		5,078.00	7,229.00	5 Min: 3674
					10 Min: 3385
					15 Min: 3230
Avg Rate	Max Press PSI	ISIP	Frac Gradient		
96.00	8,501.00	4,394.00	1.04		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
397,845.00	10,196.00		2,000.00		

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EQT WR-35	Completion	Attachment	Well	Treatment	Summary
Stage	Formation	Frac Type			
11	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
8/23/2011	7801 - 8043		6,587.00	7,458.00	5 Min: 3543
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 3142
98.00	8,789.00	4,507.00	1.05		15 Min: 2952
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
394,770.00	10,059.00		2,000.00		

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