

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

API # 4701705927

Deviated survey is attached

**Farm Name** I. L. Morris  
**Location Elevation** 1140  
**District** Unknown  
 Latitude 6650 Degree 39 Minutes 12 Seconds 30  
 Longitude 7380 West Degree 80 Minutes 47 Seconds 30

**Well Number** 512497  
**QUAD** Oxford  
**County** Doddridge, WV  
 WV

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

**Longitude** 39.18996  
**Latitude** -80.81763

**Agent** Cecil Ray  
**Inspector** David Scrange  
**Permit Issued** 11/6/2009

Casing & Tubing Size	Used In Drilling	Left in Well	Cement Cubic FT
20	42.00	42.00	
13 3/8	1106.00	1,106.00	952.00
9 5/8	2993.00	2,993.00	1,151.41
5 1/2	11710.00	11,710.00	1,651.67

**Well Work Commenced** 6/8/2010  
**Well Work Completed** 5/8/2011  
**Verbal Plugging**

plug BACK cement : 167 SX plugcem  
 plug BACK depth : 5450'

**Rotary Rig** X Rotary Rig  
**Total Depth** 11,715.00  
 TVD : 6538'

Type	From
Coal	1,308.00 ft. - 1,315.00 ft.

**Type** Fresh Water 470.00  
**From**

**Producing Formation** marcellus

**RECEIVED**  
 Office of Oil & Gas

JUN 10 2011

WV Department of  
 Environmental Protection

**Gas: Initial Open Flow** not applicable

**Final Open Flow** 10,989 mcf/d

**Static Rock Pressure** 1525 psi

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

For EQT Production Company  
 By MW Burtis  
 Date 6/6/2011

12/02/2011

Formation record

Gas Tests

Formation Name	Top	Bottom	Thickness
Sand	0.00	60.00	60.00
Sandstone	60.00	318.00	258.00
Shale	318.00	380.00	59.00
Sandstone	380.00	440.00	60.00
Red Rock	440.00	455.00	15.00
Sandstone and Shale	455.00	615.00	160.00
Red Rock	615.00	621.00	6.00
Sand and Shale	621.00	760.00	139.00
Red Rock	760.00	780.00	20.00
Shale	780.00	900.00	120.00
Red Rock	900.00	922.00	22.00
Shale	922.00	1,012.00	90.00
Sand and Shale	1,012.00	1,308.00	296.00
Coal	1,308.00	1,315.00	7.00
Sand and Shale	1,315.00	1,679.00	364.00
MAXTON	1,679.71	1,858.64	178.93
BIG LIME	1,858.64	1,919.81	61.17
KEENER	1,919.81	1,951.16	31.35
BIG INJUN	1,951.16	2,154.56	203.40
WEIR	2,154.56	2,348.78	194.22
BEREA	2,348.78	2,360.25	11.47
GANTZ	2,360.25	2,429.07	68.82
50F	2,429.07	2,564.60	135.53
30F	2,564.60	2,617.54	52.94
GORDON	2,617.54	2,720.36	102.82
4TH	2,720.36	2,854.73	134.37
5TH	2,854.73	2,896.98	42.25
BAYARD	2,896.98	3,209.78	312.80
WARREN	3,209.78	3,284.71	74.93
SPEECHLEY	3,284.71	3,817.68	532.97
BALLTOWN A	3,817.68	3,959.14	141.46
BALLTOWN B	3,959.14	4,154.89	195.75
BRADFORD	4,154.89	4,398.81	243.92
RILEY	4,398.81	4,819.37	420.56
BENSON	4,819.37	5,064.83	245.46
ALEXANDER	5,064.83	6,189.63	1,124.80
SONYEA	6,189.63	6,337.98	148.35
MIDDLESEX	6,337.98	6,389.22	51.24
GENESSEE	6,389.22	6,464.92	75.70
GENESE0	6,464.92	6,503.91	38.99
TULLY	6,503.91	6,523.79	19.88
HAMILTON	6,523.79	6,532.21	8.42
MARCELLUS BLK SHALE	6,532.21	6,546.73	14.52
PURCELL	6,546.73	6,569.94	23.21
CHERRY VALLEY	6,569.94	6,590.50	20.56

Depth	Gas	Comments
0.00	0	not Reported

were core samples taken? no

were cuttings caught during drilling?  
yes

were electrical, mechanical, or  
geophysical logs run? no

Formations are from a nearby  
offset well. They are not direct  
measurements from a well log.

**EQT WR-35    Completion    Attachment    Well    Treatment    Summary**

Stage	Formation	Frac Type				
1	MARCELLUS	Slickwater				
<b>Date</b>	<b>From / To</b>	<b># of perfs</b>	<b>BD Press</b>	<b>ATP Psi</b>	<b>SIP Detail</b>	
3/2/2011	11455 - 11697		6,422.00	7,963.00	5 Min: 2170	
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>			
90.00	8,627.00	3,016.00	0.89	10 Min: 1990		
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>	15 Min: 1897		
105,780.00	10,046.00		2,000			

Stage	Formation	Frac Type				
2	MARCELLUS	Slickwater				
<b>Date</b>	<b>From / To</b>	<b># of perfs</b>	<b>BD Press</b>	<b>ATP Psi</b>	<b>SIP Detail</b>	
3/3/2011	11155 - 11397		5,857.00	7,828.00	5 Min: 2950	
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>			
90.00	8,920.00	3,932.00	1.03	10 Min: 2555		
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>	15 Min: 2395		
103,922.00	13,280.00		2,000			

Stage	Formation	Frac Type				
3	MARCELLUS	Slickwater				
<b>Date</b>	<b>From / To</b>	<b># of perfs</b>	<b>BD Press</b>	<b>ATP Psi</b>	<b>SIP Detail</b>	
3/3/2011	10855 - 11097		6,063.00	8,089.00	5 Min: 2387	
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>			
89.00	8,470.00	3,347.00	0.94	10 Min: 2191		
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>	15 Min: 2056		
104,307.00	10,204.00		2,000			

EQT WR-35	Completion	Attachment	Well	Treatment	Summary
<b>Stage</b>	<b>Formation</b>	<b>Frac Type</b>			
4	MARCELLUS	Slickwater			
<b>Date</b>	<b>From / To</b>	<b># of perfs</b>	<b>BD Press</b>	<b>ATP Psi</b>	<b>SIP Detail</b>
3/3/2011	10555 - 10797		5,631.00	8,164.00	5 Min: 2455
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>		10 Min: 2284
90.00	8,668.00	3,750.00	1		15 Min: 2177
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>		
107,270.00	10,242.00		2,000		
<b>Stage</b>	<b>Formation</b>	<b>Frac Type</b>			
5	MARCELLUS	Slickwater			
<b>Date</b>	<b>From / To</b>	<b># of perfs</b>	<b>BD Press</b>	<b>ATP Psi</b>	<b>SIP Detail</b>
3/5/2011	10255 - 10497		6,211.00	8,316.00	5 Min: 2454
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>		10 Min: 2183
100.00	8,480.00	3,840.00	1.01		15 Min: 2058
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>		
109,962.00	11,115.00		3,000		
<b>Stage</b>	<b>Formation</b>	<b>Frac Type</b>			
6	MARCELLUS	Slickwater			
<b>Date</b>	<b>From / To</b>	<b># of perfs</b>	<b>BD Press</b>	<b>ATP Psi</b>	<b>SIP Detail</b>
3/5/2011	9955 - 10197		5,948.00	7,277.00	5 Min: 2428
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>		10 Min: 2257
86.00	7,869.00	3,052.00	0.89		15 Min: 2152
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>		
105,806.00	10,147.00		2,000		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary
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Stage	Formation	Frac Type				
7	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/5/2011	9655 - 9897		5,231.00	7,359.00	5 Min: 2560	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
96.00	8,480.00	3,828.00	1.01	10 Min: 2400		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal	15 Min: 2279		
406,980.00	10,798.00		2,000			

Stage	Formation	Frac Type				
8	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/6/2011	9355 - 9597		5,050.00	7,250.00	5 Min: 2654	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
96.00	8,505.00	3,399.00	0.95	10 Min: 2580		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal	15 Min: 2515		
104,727.00	11,409.00		2,000			

Stage	Formation	Frac Type				
9	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/6/2011	9055 - 9297		4,947.00	6,781.00	5 Min: 2853	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
94.00	7,623.00	3,220.00	0.92	10 Min: 2733		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal	15 Min: 2652		
105,093.00	10,576.00		2,000			

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	
3/6/2011	8755 - 8997		5,457.00	7,920.00	5 Min: 3150	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
91.00	9,117.00	4,650.00	1.14	10 Min: 2870		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal	15 Min: 2763		
106,204.00	14,407.00		2,000			

Stage	Formation	Frac Type				
11	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/7/2011	8455 - 8697		6,063.00	6,963.00	5 Min: 3114	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
97.00	7,310.00	3,728.00	1	10 Min: 2996		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal	15 Min: 2929		
110,338.00	10,975.00		2,000			

Stage	Formation	Frac Type				
12	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/7/2011	8155 - 8397		6,497.00	7,374.00	5 Min: 3261	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
102.00	8,801.00	3,737.00	1	10 Min: 3120		
Sand Proppant	Water-bbl	SCF N2	Acid-Gal	15 Min: 3037		
114,751.00	10,561.00		2,000			

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	
3/8/2011	7855 - 8097		5,281.00	7,703.00	5 Min: 3574	
					10 Min: 3131	
					15 Min: 2904	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
101.00	8,865.00	4,463.00	1.11			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
100,961.00	10,490.00		2,000			

Stage	Formation	Frac Type				
14	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/8/2011	7555 - 7797		5,734.00	7,028.00	5 Min: 2602	
					10 Min: 2392	
					15 Min: 2268	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
94.00	7,603.00	3,391.00	0.97			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
115,792.00	10,239.00		2,000			

Stage	Formation	Frac Type				
15	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/8/2011	7255 - 7497		5,881.00	7,325.00	5 Min: 2662	
					10 Min: 2458	
					15 Min: 2344	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
102.00	7,920.00	3,600.00	0.98			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
109,489.00	10,212.00		2,000			

EQT WR-35	Completion	Attachment	Well	Treatment	Summary
<b>Stage</b>	<b>Formation</b>	<b>Frac Type</b>			
16	MARCELLUS	Slickwater			
<b>Date</b>	<b>From / To</b>	<b># of perfs</b>	<b>BD Press</b>	<b>ATP Psi</b>	<b>SIP Detail</b>
3/9/2011	6955 - 7197		5,098.00	6,385.00	5 Min: 2643
<b>Avg Rate</b>	<b>Max Press PSI</b>	<b>ISIP</b>	<b>Frac Gradient</b>		10 Min: 2461
106.00	8,962.00	3,425.00	0.95		15 Min: 2372
<b>Sand Proppant</b>	<b>Water-bbl</b>	<b>SCF N2</b>	<b>Acid-Gal</b>		
111,847.00	10,003.00		2,000		