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:	7-12-2013	
API #:	47-1706112	

Farm name	e: Robert Brannon, et al	Operator Well	No.: 513171		
LOCATIO	ON: Elevation: 1240	Quadrangle:	Oxford	1	d
	District: Southwest	Country Dode	dridge WAY	Receiv	eu
	Latitude: 9,727 Feet South of 39 Deg.	12 Min	30 Sec		
	Longitude 2,141 Feet West of 80 Deg.	47 Min.	.30 Sec.	JUL 31	2013
				JUL 3 1	3 Mg
<u>_c</u>	ompany: EQT Production Company			18 RO to come	nd Gas
A	ddress: EQT Plaza, Suite 1700	Casing & Tubing	Used in drilling W	Debt quewaypuu Tett quewaypuu	ecement fill up Cu. Ft.
·	5 Liberty Avenue, Pittsburgh, PA 15222	20	40	40	45
A	gent: Cecil Ray	13 3/8	665	665	696
In	spector: David Scrange	9 5/8	3,056	3,056	1,275
D	ate Permit Issued: 7-31-2-12	5 1/2	11,552	11,552	1,735
D	ate Well Work Commenced: 8-30-12			-	
D	ate Well Work Completed: 4-13-13				
v	erbal Plugging: N/A				
D	ate Permission granted on: N/A				·
	Rotary Cable Rig V				
	Total Vertical Depth (ft): 6,657				
	Total Measured Depth (ft): 11,557				
l l	Fresh Water Depth (ft.): 28, 220, 202, 212, 224, 227,	250, 259, 355,	465, 575		
S	Salt Water Depth (ft.): 1,458				
Is	coal being mined in area (N/Y)? N				
	oal Depths (ft.): No show of coal				
V	oid(s) encountered (N/Y) Depth(s) N				
OPFN F	TOW DATA (If more than two producing formatic		1 4 4 4 4 4 1 - 1 - 4		
Prod	LOW DATA (If more than two producing formatio ducing formation Marcellus Pay z	ns piease includ one depth (ft) ^{6,}		a on separate she	eet)
	Initial open flowMCF/d Oil: Initial open flo	• ` '—			
	nal open flow 12,144 MCF/d Final open flow				
Ti	me of open flow between initial and final tests	Hours			
Statio	c rock Pressure 1,735 psig (surface pressure) aft	er 96.5 Hours	s		
Seco	nd producing formationPay zon	e depth (ft)			
	Initial open flowMCF/d Oil: Initial open flo		<u>√d</u>		
Fi	nal open flow MCF/d Final open flow	Bbl	/d		

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.

Time of open flow between initial and final tests_

_____psig (surface pressure) after ___

Static rock Pressure_

ignature

7-12-2013

09/27/2013

Were core samples taken? YesNoX	Were cu	ttings caught during dr	rilling? Yes_X_No
Were Electrical, Mechanical or Geophysical logs recorded	d on this well? If you	es, please list Gyro, C	Open Hole, & MWD-gamma
NOTE: IN THE AREA BELOW PUT THE FOUND FOR STIMULATING, PHYSICAL CONTAILED GEOLOGICAL RECORD OF THE COAL ENCOUNTERED BY THE WELLBORE FROM	CHANGE, ETC. 2). TOPS AND BOT	THE WELL LOG Y TOMS OF ALL FO	WHICH IS A SYSTEMATIC
Perforated Intervals, Fracturing, or Stimulating:			
See Attachment			
Plug Back Details Including Plug Type and Depth(s): Cla	ass A Cement Plug	Top Depth @ 5,51	8' and bottom depth at 5,628'
Formations Encountered: T Surface:	Top Depth	1	Bottom Depth
Sand/Shale / 0 / 1729 / 1729 Maxton / 1729 /	/ 1894 / 165 B	ig Lime / 1894 / 1	947 / 53
Keener / 1947 / 3259 / 1312 Warren / 3259 /	3309 / 50 Spe	eechley / 3309 / 38	837 / 528
Balltown A / 3837 / 4197 / 360 Bradford / 419	97 / 4859 / 662 -	- Riley / 4859 / 51	03 / 244
Alexander / 5103 / 6227 / 1124 Rhinestreet /	6227 / 6252 / 2	5 Sonyea / 6252	2 / 6399 / 147
Middlesex / 6399 / 6452 / 53 Genesee / 6452	2 / 6521 / 69 G	Seneseo / 6521 / 6	5564 / 43
Tully / 6564 / 6583 / 19 Hamilton / 6583 / 659	95 / 12 Marcel	lus / 6595 / 6657 /	62

			513171	513171 - Perforations			
Zone/Stage	Date	Top Plug Depth (ftKB)	Bottom Plug Depth (ftKB)	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Shots/ft	Number of Shots
1	4/7/2013 2:45	11,390.00	NA	11,404.00	11,496.00	4	32
2	4/7/2013 6:54	11,240.00	11,382.00	11,254.00	11,376.00	4	40
3	4/7/2013 10:58	11,090.00	11,240.00	11,104.00	11,226.00	4 .	40
4	4/7/2013 14:39	10,940.00	11,090.00	10,954.00	11,076.00	4	40
UT.	4/7/2013 18:10	10,790.00	10,940.00	10,804.00	10,926.00	4	40
6	4/7/2013 21:35	10,640.00	00.097,01	10,654.00	10,776.00	4	40
7	4/8/2013 1:05	10,490.00	10,640.00	10,504.00	10,626.00	4	40
œ	4/8/2013 4:40	10,340.00	10,490.00	10,354.00	10,476.00	4	40
9	4/8/2013 12:26	10,190.00	10,340.00	10,200.00	10,326.00	4	40
10	4/8/2013 16:45	10,040.00	10,190.00	10,054.00	10,176.00	4	40
11	4/8/2013 21:45	9,890.00	10,040.00	9,904.00	10,026.00	4	40
12	4/9/2013 12:09	9,740.00	9,890.00	9,754.00	9,876.00	4	40
13	4/9/2013 15:37	9,590.00	9,740.00	9,604.00	9,726.00	4	40
14	4/9/2013 19:00	9,440.00	9,590.00	9,454.00	9,576.00	4	40
15	4/9/2013 22:45	9,290.00	9,440.00	9,304.00	9,426.00	4	40
16	4/10/2013 2:20	9,140.00	9,290.00	9,154.00	9,276.00	4	40
17	4/10/2013 5:40	8,990.00	9,140.00	9,004.00	9,126.00	4	40
18	4/10/2013 9:35	8,840.00	8,990.00	8,854.00	8,976.00	4	40
19	4/10/2013 13:39	8,690.00	8,840.00	8,704.00	8,826.00	4	40
20	4/10/2013 17:17	8,540.00	8,690.00	8,554.00	8,676.00	4	40
21	4/10/2013 21:55	8,390.00	8,540.00	8,404.00	8,526.00	4	40
22	4/11/2013 2:50	8,240.00	8,390.00	8,254.00	8,376.00	4	40
23	4/11/2013 7:15	8,090.00	8,240.00	8,104.00	8,226.00	4	40
24	4/11/2013 15:03	7,940.00	8,090.00	7,954.00	8,076.00	4	40
25	4/11/2013 20:38	7,790.00	7,940.00	7,804.00	7,926.00	4	40
26	4/12/2013 1:30	7,640.00	7,790.00	7,654.00	7,776.00	4	40
27	4/12/2013 4:40	7,490.00	7,640.00	7,504.00	7,626.00	4	40
28	4/12/2013 13:47	7,340.00	7,490.00	7,354.00	7,476.00	4	40
29	4/12/2013 16:32	7,190.00	7,340.00	7,204.00	7,326.00	4	40
30	4/12/2013 21:07	7,040.00	7,190.00	7,054.00	7,176.00	4	40
2	4/13/2013 0:10	NA	7,040.00	6,904.00	7,026.00	4	40

E1130 L19 Lh

				51	513171 - Stimulated Stages					
Zone/Stage	P Break (psi)	Avg Treat Pressure (psi)	Avg rate (bbl/min)	ISIP (psi)	Frac Gradient (psi/ft)	15 Min. SIP (psi)	Voi Water Pump	Start Date	End Date	Proppant (lb)
1	6,270.00	8,254.00	91.7	4,319.00	1.08	2,592.00	6910	4/7/2013 3:53	4/7/2013 5:19	201.481
2	6,205.00	8,131.00	99.1	3,997.00	1.03	2,531.00	5377	4/7/2013 8:18	4/7/2013 9:34	197.914
ω	5,652.00	8,079.00	99.4	4,718.00	1.14	2,834.00	5361	4/7/2013 11:58	4/7/2013 13:13	199.399
4	5,609.00	7,806.00	99.4	4,567.00	1.12	2,814.00	5365	4/7/2013 15:33	4/7/2013 16:49	203.611
5	5,950.00	7,445.00	100.2	4,815.00	1.16	2,790.00	5222	4/7/2013 19:09	4/7/2013 20:22	202.937
6	6,590.00	7,470.00	100.3	4,660.00	1.13	2,856.00	5265	4/7/2013 22:38	4/7/2013 23:52	200,002
7	6,174.00	7,688.00	100.4	4,442.00	1.1	2,870.00	5214	4/8/2013 2:17	4/8/2013 3:28	200,056
68	6,320.00	8,444.00	73.8	3,702.00	0.99	2,834.00	5522	4/8/2013 9:00	4/8/2013 10:34	181,489
9	5,559.00	8,035.00	99.5	5,352.00	1.24	2,921.00	5165	4/8/2013 14:14	4/8/2013 15:28	198,582
10	5,458.00	7,739.00	99.7	4,529.00	1.11	2,953.00	5731	4/8/2013 17:59	4/8/2013 20:36	200.016
11	5,251.00	7,951.00	99.9	4,901.00	1.17	2,776.00	5243	4/9/2013 9:36	4/9/2013 10:50	200,000
12	6,081.00	7,833.00	100.1	4,898.00	1.17	2,971.00	5167	4/9/2013 13:07	4/9/2013 14:20	200.241
13	5,875.00	7,534.00	99.9	5,214.00	1.22	3,054.00	5180	4/9/2013 16:28	4/9/2013 17:44	199,318
14	5,902.00	7,494.00	100.4	4,992.00	1.17	2,860.00	5090	4/9/2013 20:24	4/9/2013 21:34	199,258
15	6,606.00	7,190.00	100.4	4,383.00	1.09	2,805.00	5158	4/10/2013 0:01	4/10/2013 1:12	201,441
16	5,529.00	7,687.00	100.4	4,913.00	1.17	2,934.00	5145	4/10/2013 3:24	4/10/2013 4:34	200,002
17	5,853.00	7,630.00	98.7	5,329.00	1.23	3,178.00	5229	4/10/2013 7:09	4/10/2013 8:23	199,690
18	6,438.00	6,965.00	91.3	5,058.00	1.19	3,008.00	5118	4/10/2013 11:10	4/10/2013 12:24	200,318
19	6,289.00	6,772.00	91.5	5,238.00	1.22	2,929.00	5172	4/10/2013 14:52	4/10/2013 16:07	201,944
20	5,830.00	7,171.00	98.8	4,607.00	1.13	2,705.00	5140	4/10/2013 19:30	4/10/2013 20:40	200,688
21	5,672.00	7,038.00	100	5,041.00	1.19	2,961.00	5022	4/11/2013 0:35	4/11/2013 1:44	200,004
22	5,291.00	7,497.00	100.3	5,162.00	1.21	2,923.00	5000	4/11/2013 4:59	4/11/2013 6:09	198,977
23	5,894.00	7,138.00	100.3	5,168.00	1.21	3,092.00	5089	4/11/2013 12:48	4/11/2013 13:58	201,059
24	6,095.00	7,092.00	100.6	4,929.00	1.17	3,143.00	5080	4/11/2013 18:07	4/11/2013 19:15	201,299
25	6,640.00	7,487.00	100.3	4,851.00	1.16	3,279.00	4847	4/11/2013 23:22	4/11/2013 0:28	197,998
26	6,713.00	7,945.00	92.8	5,070.00	1.19	3,748.00	5241	4/12/2013 2:27	4/12/2013 3:42	199,047
27	6,349.00	7,021.00	100.3	5,066.00	1.19	3,639.00	5080	4/12/2013 11:35	4/12/2013 12:43	202,154
28	6,456.00	6,958.00	100.3	5,072.00	1.2	3,325.00	5080	4/12/2013 14:26	4/12/2013 15:33	201,845
29	5,465.00	6,926.00	100.5	4,460.00	1.1	3,020.00	5026	4/12/2013 18:34	4/12/2013 19:40	198,619
30	6,091.00	7,621.00	100.1	4,936.00	1.18	3,243.00	4763	4/12/2013 22:03	4/12/2013 23:07	200,357
31	6,197.00	7,500.00	99.7	4,932.00	1.18	2,998.00	4984	4/13/2013 1:14	4/13/2013 2:21	198 029