

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: 6-18-2013
API #: 47-1706113

Farm name: Robert Brannon, Et Al Operator Well No.: 513173

LOCATION: Elevation: 1,220 Quadrangle: Oxford

District: Southwest County: Doddridge, WV
Latitude: 9.742 Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 2.140 Feet West of 80 Deg. 47 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	45
Agent: Cecil Ray	13 3/8	669	669	624
Inspector: David Scrange	9 5/8	3,060	3,060	1,235
Date Permit Issued: 7/13/2012	5 1/2	12,634	12,634	2,355
Date Well Work Commenced: 8/30/2012				
Date Well Work Completed: 3/25/2013				
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): 6,666				
Total Measured Depth (ft): 13,269				
Fresh Water Depth (ft.): 13,203,215,227,230,253,262,358,468,578				
Salt Water Depth (ft.): 1,458				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): No show of coal				
Void(s) encountered (N/Y) Depth(s) N				

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

Producing formation Marcellus Pay zone depth (ft) 6,595

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

Final open flow 12,336 MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure 1,470 psig (surface pressure) after 90 Hours

Second producing formation N/A 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.

Mike Potts
Signature

6/19/2013
Date

08/09/2013

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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 Gyro, CBL, and Gamma

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):

Pumped solid cement plug from 6,400' to 6,200'

Formations Encountered:	Top Depth	Bottom Depth
Surface:		
Sand/Shale / 0 / 1729 / 1729 -- Maxton / 1729 / 1894 / 165 -- Big Lime / 1894 / 1947 / 53 --		
Keener / 1947 / 3259 / 1312 -- Warren / 3259 / 3309 / 50 -- Speechley / 3309 / 3838 / 529 --		
Balltown / 3838 / 4197 / 359 -- Bradford / 4197 / 4859 / 662 -- Riley / 4859 / 5103 / 244 --		
Alexander / 5103 / 6088 / 985 -- Rhinestreet Upper / 6088 / 6227 / 139 -- Rhinestreet / 6227 / 6252 / 25 --		
Sonyea / 6252 / 6399 / 147 -- Middlesex / 6399 / 6452 / 53 -- Genessee / 6452 / 6521 / 69 --		
Geneseo / 6521 / 6564 / 43 -- Tully / 6564 / 6583 / 19 -- Hamilton / 6583 / 6595 / 12 --		
Marcellus / 6595 / 6666 / 71		

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Well # 513173

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EQT	WR-35	Completion	Attachment	Well	Treatment	Summary
Stage	Formation	Frac Type				
1	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/16/2013	12500 - 12592		5,050.00	8,389.00	5 Min: 2405	
					10 Min: 2111	
					15 Min: 1961	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
80.54	9,106.00	3,535.00	0.96			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
403,310.00	5,105.00		18.00			
Stage	Formation	Frac Type				
2	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/16/2013	12350 - 12472		5,306.00	8,699.00	5 Min: 3176	
					10 Min: 2673	
					15 Min: 2405	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
62.00	9,156.00	4,445.00	1:1			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
1,784.00	2,767.50		750.00			
Stage	Formation	Frac Type				
3	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/17/2013	12200 - 12322		0.00	8,410.00	5 Min: 2893	
					10 Min: 2465	
					15 Min: 2257	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
88.40	9,080.00	4,102.00	1.05			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
396,722.00	9,751.00		1,000.00			

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Stage	Formation	Frac Type			
4	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
3/17/2013	12050 - 12172		5,695.00	8,274.00	5 Min: 2902
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 2548
86.50	8,797.00	4,601.00	1.12		15 Min: 2390
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
201,994.00	5,866.00		750.00		
Stage	Formation	Frac Type			
5	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
3/17/2013	11900 - 12022		5,837.00	8,326.00	5 Min: 3139
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 2651
87.00	8,872.00	4,561.00	1.12		15 Min: 2417
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
201,104.00	5,597.00		750.00		
Stage	Formation	Frac Type			
6	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
3/17/2013	11750 - 11872		5,637.00	8,378.00	5 Min: 3504
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 2963
95.96	8,710.00	4,865.00	1.16		15 Min: 2700
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
200,685.00	5,600.00		750.00		

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Stage	Formation	Frac Type				
7	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/17/2013	11600 - 11722		7,306.00	8,364.00	5 Min: 3327	
					10 Min: 2762	
					15 Min: 2506	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
87.00	9,134.00	4,806.00	1.15			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
201,897.00	5,256.00		750.00			
Stage	Formation	Frac Type				
8	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/18/2013	11450 - 11572		6,499.00	8,363.00	5 Min: 0	
					10 Min: 0	
					15 Min: 0	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
84.90	9,808.00	7,979.00	1.63			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
201,374.00	5,136.00		750.00			
Stage	Formation	Frac Type				
9	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/18/2013	11300 - 11422		5,443.00	8,330.00	5 Min: 3743	
					10 Min: 3145	
					15 Min: 2800	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
95.60	8,668.00	5,305.00	1.23			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
202,507.00	5,665.00		750.00			

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Stage	Formation	Frac Type			
10	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
3/18/2013	11150 - 11272		6,276.00	8,418.00	5 Min: 4158
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 3500
87.30	8,927.00	5,668.00	1.28		15 Min: 3142
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
199,202.00	5,444.00		750.00		
Stage	Formation	Frac Type			
11	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
3/19/2013	11000 - 11122		6,202.00	8,438.00	5 Min: 3146
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 2720
94.00	8,960.00	4,271.00	1.07		15 Min: 2528
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
197,072.00	5,319.00		750.00		
Stage	Formation	Frac Type			
12	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
3/19/2013	10850 - 10972		5,466.00	7,969.00	5 Min: 3088
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 2661
99.30	8,260.00	4,907.00	1.17		15 Min: 2510
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
204,294.00	5,709.00		750.00		

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Stage	Formation	Frac Type			
13	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
3/19/2013	10700 - 10882		5,701.00	8,210.00	5 Min: 3936
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 3382
99.00	9,046.00	5,079.00	1.2		15 Min: 3049
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
200,959.00	5,343.00		750.00		
Stage	Formation	Frac Type			
14	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
3/19/2013	10670 - 10672		5,421.00	7,952.00	5 Min: 3225
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 2791
100.00	8,345.00	5,322.00	1.23		15 Min: 2618
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
201,135.00	5,627.00		750.00		
Stage	Formation	Frac Type			
15	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
3/20/2013	10400 - 10502		5,745.00	8,234.00	5 Min: 0
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 0
99.99	9,775.00	0.00	0		15 Min: 0
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
198,417.00	5,326.00		750.00		

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Stage	Formation	Frac Type				
16	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/20/2013	10250 - 10372		5,214.00	8,055.00	5 Min: 3045	
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 2674	
100.20	8,451.00	5,023.00	1.19		15 Min: 2546	
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
200,287.00	5,191.00		750.00			
Stage	Formation	Frac Type				
17	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/20/2013	10100 - 10222		5,998.00	8,179.00	5 Min: 3411	
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 3010	
96.80	8,410.00	4,784.00	1.15		15 Min: 2805	
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
198,572.00	5,431.00		750.00			
Stage	Formation	Frac Type				
18	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/21/2013	9950 - 10072		5,113.00	7,823.00	5 Min: 2961	
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 2561	
100.30	8,326.00	4,900.00	1.17		15 Min: 2419	
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
200,612.00	5,295.00		750.00			

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Stage	Formation	Frac Type			
19	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
3/21/2013	9800 - 9936		5,677.00	8,015.00	5 Min: 3329
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 2799
100.10	8,853.00	4,648.00	1.13		15 Min: 2601
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
207,380.00	5,295.00		750.00		
Stage	Formation	Frac Type			
20	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
3/21/2013	9650 - 9772		5,503.00	8,218.00	5 Min: 3051
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 2615
97.70	8,534.00	4,748.00	1.15		15 Min: 2440
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
187,298.00	5,067.00		750.00		
Stage	Formation	Frac Type			
21	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
3/21/2013	9500 - 9622		5,293.00	8,034.00	5 Min: 3553
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 3026
100.20	8,564.00	5,184.00	1.21		15 Min: 0
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
201,774.00	5,118.00		750.00		

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Stage	Formation	Frac Type				
22	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/21/2013	9350 - 9472		5,308.00	7,949.00	5 Min: 3839	
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 3281	
100.10	8,745.00	5,260.00	1.22		15 Min: 0	
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
196,538.00	5,171.00		750.00			
Stage	Formation	Frac Type				
23	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/22/2013	9200 - 9322		4,974.00	8,121.00	5 Min: 3759	
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 3109	
94.80	9,167.00	5,375.00	1.24		15 Min:	
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
182,204.00	5,070.00		750.00			
Stage	Formation	Frac Type				
24	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/22/2013	9050 - 9172		5,040.00	7,805.00	5 Min: 0	
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 0	
100.00	9,061.00	0.00	0		15 Min:	
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
199,341.00	4,823.00		750.00			

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Stage	Formation	Frac Type				
25	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/23/2013	8900 - 9022		5,501.00	7,832.00	5 Min: 2920	
					10 Min: 2567	
					15 Min:	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
97.80	8,345.00	5,133.00	1.2			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
201,090.00	5,373.00		750.00			
Stage	Formation	Frac Type				
26	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/23/2013	8750 - 8872		5,071.00	7,836.00	5 Min: 2858	
					10 Min: 2517	
					15 Min:	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
97.70	8,123.00	4,532.00	1.11			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
201,012.00	5,046.00		750.00			
Stage	Formation	Frac Type				
27	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/23/2013	8600 - 8722		5,153.00	7,539.00	5 Min: 3785	
					10 Min: 3240	
					15 Min:	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
97.40	8,328.00	5,229.00	1.22			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
197,618.00	5,032.00		750.00			

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Stage	Formation	Frac Type				
28	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/23/2013	8450 - 8572		4,941.00	7,391.00	5 Min: 3615	
					10 Min: 3033	
					15 Min:	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
99.40	7,981.00	5,042.00	1.19			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
199,406.00	4,932.00		750.00			
Stage	Formation	Frac Type				
29	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/23/2013	8300 - 8422		5,079.00	7,462.00	5 Min: 0	
					10 Min: 0	
					15 Min:	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
98.30	9,623.00	0.00	0			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
196,840.00	4,944.00		750.00			
Stage	Formation	Frac Type				
30	MARCELLUS	Slickwater				
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail	
3/24/2013	8150 - 8272		5,104.00	7,084.00	5 Min: 3559	
					10 Min: 3064	
					15 Min:	
Avg Rate	Max Press PSI	ISIP	Frac Gradient			
97.40	7,401.00	5,196.00	1.22			
Sand Proppant	Water-bbl	SCF N2	Acid-Gal			
204,457.00	5,125.00		750.00			

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Stage	Formation	Frac Type			
31	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
3/24/2013	8000 - 8122		5,353.00	7,160.00	5 Min: 3159
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 2807
97.70	7,901.00	4,868.00	1.17		15 Min:
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
196,083.00	4,852.00		750.00		
Stage	Formation	Frac Type			
32	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
3/24/2013	7850 - 7972		5,265.00	7,349.00	5 Min: 0
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 0
97.50	9,590.00	0.00	0		15 Min:
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
197,865.00	4,688.00		750.00		
Stage	Formation	Frac Type			
33	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
3/25/2013	7700 - 7822		5,435.00	7,315.00	5 Min: 3598
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 3021
100.00	7,832.00	5,434.00	1.25		15 Min:
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
198,422.00	5,115.00		750.00		

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Stage	Formation	Frac Type			
34	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
3/25/2013	7550 - 7672		5,419.00	7,351.00	5 Min: 3368
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 2873
99.70	7,998.00	5,405.00	1.25		15 Min:
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
198,671.00	5,054.00		750.00		
Stage	Formation	Frac Type			
35	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
3/25/2013	7400 - 7522		5,682.00	7,031.00	5 Min: 3718
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 3105
99.50	7,636.00	5,289.00	1.23		15 Min:
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
198,153.00	5,057.00		750.00		
Stage	Formation	Frac Type			
2.1	MARCELLUS	Slickwater			
Date	From / To	# of perfs	BD Press	ATP Psi	SIP Detail
3/16/2013	12350 - 12472		0.00	8,461.00	5 Min: 3419
Avg Rate	Max Press PSI	ISIP	Frac Gradient		10 Min: 2915
68.70	9,078.00	4,396.00	1.09		15 Min: 2611
Sand Proppant	Water-bbl	SCF N2	Acid-Gal		
973.00	2,467.00		1,000.00		

Received

JUN 27 2013

WV Dept. of Environmental Protection
Office of Oil and Gas

08/09/2013