

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: January 9, 2013
API #: 47-95-02034

Farm name: Anne Spencer Operator Well No.: 1113

LOCATION: Elevation: 703' Quadrangle: Paden City

District: Ellsworth County: Tyler
Latitude: 14.711 Feet South of 39 Deg. 30 Min. 04.59 Sec.
Longitude 9.089 Feet West of 80 Deg. 54 Min. 25.99 Sec.

Company:

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Triad Hunter, LLC P.O. Box 430, Reno, Ohio 45773				
Agent: Kimberly Arnold	20"	40'	40'	
Inspector: Joe Taylor	13 3/8"	442'	440'	408 cu. ft.
Date Permit Issued: 6/21/2011	9 5/8"	2009'	2009'	796 cu. ft.
Date Well Work Commenced: 12/9/11	5 1/2"	10566'	10539'	3399 cu. ft.
Date Well Work Completed: 11/15/12	2 3/8"			
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6029'				
Total Measured Depth (ft): 10566'				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.):				
Void(s) encountered (N/Y) Depth(s) None				

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

Producing formation Marcellus Shale Pay zone depth (ft) 6030
Gas: Initial open flow 850 MCF/d Oil: Initial open flow 2.19 Bbl/d
Final open flow 4092 MCF/d Final open flow 9.00 Bbl/d
Time of open flow between initial and final tests 359 Hours
Static rock Pressure 720 psig (surface pressure) after 354 Hours

Second producing 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

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

1/9/2013
Date

03/15/2013

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Were core samples taken? Yes _____ No

Were cuttings caught during drilling? Yes No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list _____

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:

Please see attached sheet.

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth
Surface:

0'- 376' shale	2012'-2107' Weir	6014'-6068' Marcellus
376'- 426' siltstone and shale	2107'-2132' shale and siltstone	6068'-TD Onondaga
426'- 886' shale and siltstone	2132'-2136' Berea	
886'-923' sandstone	2136'-2609' shale and siltstone	
923'-960' shale, trace siltstone	2609'-2626' Fifth Sand	
960'-1092' 1st Salt Sand	2626'-3141' shale trace siltstone	
1092'-1146' shale	3141'-3189' 1st Warren	
1146'-1183' 2nd Salt Sand	3189'-4504' shale silstone	
1183'-1394' shale and siltstone	4504'-4540' Riley	
1394'-1428' 3rd Salt Sand	4540'-4650' Base of Huron Shale	
1428'-1552' shale and siltstone	4650'-5284' Angola	
1552'-1644' Greenbrier Lime	5384'-5716' Java	
1644'-1650' shale	5716'-5883' Middlesex	
1650'-1821' Big Injun	5883'-5990' Geneseo	
1821'-2012' shale, trace siltstone	5990'-6014' Tully Lime	

03/15/2013

Spencer #1113

Perf Spacing for 27 Stages

Stage Length: 150'
 Number of Clusters: 3
 Dist. Between Perfs: 47'
 Perf Length: 3'
 Stages: 27
 Start Depth: 10460'
 90 @: 6057'

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	Plug Depth	Interval 1	Interval 2	Interval 3	Interval 4	Stage Length	Avg Treating Pressure	Max Pressure	Avg Rate	Max Rate	Fluid Volume	Total Sand
Stage 1	10460	10445'-10442'	10420'-10417'	10395'-10392'	10369'-10366'	116	7380	9000	78.4	79	7186	214500
Stage 2	10344	10320'-10217'	10270'-10267'	10220'-10217'		150	7245	8281	63.5	66	8383	266000
Stage 3	10194	10170'-10697'	10120'-10117'	10070'-10067'		150	7057	8203	66	73.4	8262	266000
Stage 4	10044	10020'-10017'	9970'-9967'	9920'-9917'		155	6368	7764	72	81	6155	266000
Stage 5	9889	9870'-9867'	9820'-9817'	9770'-9767'		145	6586	7065	76	81	5748	266000
Stage 6	9744	9720'-9717'	9670'-9667'	9620'-9617'		150	6450	7704	76	81	5941	266000
Stage 7	9594	9570'-9567'	9520'-9517'	9470'-9467'		121	6635	7102	79	87	5833	266000
Stage 8	9473	9420'-9417'	9370'-9367'	9320'-9317'		179	6708	7383	78	82	6139	265500
Stage 9	9294	9270'-9267'	9220'-9217'	9170'-9167'		150	7446	8927	55	57	2000	3500
Stage 10	9144	9120'-9117'	9070'-9067'	9020'-9017'		200	6950	7402	76	81	5968	266000
Stage 11	8944	8970'-8967'	8920'-8917'	8870'-8867'		105	6994	7523	74	80	5979	266000
Stage 12	8839	8820'-8817'	8770'-8767'	8720'-8717'		190	6732	7263	70	82	5862	266000
Stage 13	8649	8670'-8667'	8620'-8617'	8570'-8567'		105	6578	6879	72	79	5960	266000
Stage 14	8544	8520'-8517'	8470'-8467'	8420'-8417'		150	6824	7273	73	78	5776	266000
Stage 15	8394	8370'-8367'	8320'-8317'	8240'-8267'		150	6354	7063	77	81	5801	266000
Stage 16	8244	8220'-8217'	8170'-8167'	8120'-8117'		150	6713	7354	75	80	6005	266000
Stage 17	8094	8070'-8067'	8020'-8017'	7970'-7967'		150	6563	7271	73	81	5711	266000
Stage 18	7944	7920'-7917'	7870'-7867'	7820'-7817'		150	6331	6632	77	80	5723	266000
Stage 19	7794	7770'-7767'	7720'-7717'	7670'-7667'		150	6530	8026	69	77	5442	242500
Stage 20	7644	7620'-7617'	7570'-7567'	7520'-7517'		153	6253	7131	66.5	76	5643	266000
Stage 21	7491	7470'-7467'	7420'-7417'	7370'-7367'		247	6352	6998	72	77	6295	266000
Stage 22	7244	7320'-7317'	7270'-7267'	7220'-7217'		50	6551	7636	68	77	5806	266000
Stage 23	7194	7170'-7167'	7120'-7117'	7070'-7067'		155	6401	6829	73	80	5769	266000
Stage 24	7039	7020'-7017'	6970'-6967'	6920'-6917'		145	6359	6961	73	80	5748	266000
Stage 25	6894	6870'-6867'	6820'-6817'	6770'-6767'		122	6065	6383	75	80	5724	266000
Stage 26	6772	6720'-6717'	6670'-6667'	6620'-6617'		178	6199	7079	75	81	5810	266000
Stage 27	6594	6570'-6567'	6520'-6517'	6470'-6467'		150	6785	7996	37	40	2612	3000