

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 #: 47-95-02036

Farm name: Anne Spencer Operator Well No.: 1115

LOCATION: Elevation: 703' Quadrangle: Paden City

District: Ellsworth County: Tyler  
Latitude: 14.711 Feet South of 39 Deg. 30 Min. 04.59 Sec.  
Longitude 9.119 Feet West of 80 Deg. 54 Min. 28.37 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"	443'	443'	420 cu. ft.
Date Permit Issued: 6/21/2011	9 5/8"	2010'	2010'	833 cu. ft.
Date Well Work Commenced: 1/31/12	5 1/2"	10965'	10881'	4646.5 cu. ft.
Date Well Work Completed: 04/03/12	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): 5966'				
Total Measured Depth (ft): 10930'				
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 1708 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 3394 MCF/d Final open flow 103.68 Bbl/d  
Time of open flow between initial and final tests 359 Hours  
Static rock Pressure 720 psig (surface pressure) after 255 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	

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**Spencer #1115**  
**Perf Spacing for 16 Stages**

Stage Length: 245'  
 Number of Clusters: 4 to 5  
 Dist. Between Perfs: 59  
 Perf Length: 3'  
 Stages: 16  
 Start Depth: 10930'  
 90 @: 6998'

							FT	PSI	PSI	BPM	BPM	bbls	lbs
	Plug Depth	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	Stage Length	Avg Treating Pressure	Max Pressure	Avg Rate	Max Rate	Fluid Volume	Total Sand
Stage 1	10930	10810'-10807'	10768'-10765'	10720'-10717'	10672'-10669'	10624'-10621'	339	7302	8354	82.5	83.2	8390	427200
Stage 2	10591	10563'-10560'	10501'-10498'	10439'-10436'	10377'-10374'		245	7491	9033	82	83.1	7585	363800
Stage 3	10346	10318'-10315'	10256'-10253'	10194'-10191'	10132'-10129'		245	6979	8531	82	83.4	8235	421700
Stage 4	10101	10073'-10070'	10011'-10008'	9949'-9946'	9887'-9884'		245	8306	9101	56.6	80.8	6001	12000
Stage 5	9856	9828'-9825'	9766'-9763'	9704'-9701'	9642'-9639'		245	6691	7760	82.4	84.1	8522	427000
Stage 6	9611	9583'-9580'	9521'-9518'	9459'-9456'	9397'-9394'		245	7150	7858	84.2	84.4	8769	424400
Stage 7	9366	9338'-9335'	9276'-9273'	9214'-9211'	9152'-9149'		245	6681	8367	83.1	84.1	8278	427200
Stage 8	9121	9039'-9090'	9031'-9028'	8969'-8966'	8907'-8904'		245	6750	8257	82.1	82.4	8428	427200
Stage 9	8876	8848'-8845'	8786'-8783'	8724'-8721'	8662'-8659'		245	7180	7778	82.2	83.1	8362	427200
Stage 10	8631	8603'-8600'	8541'-8538'	8479'-8476'	8417'-8414'		256	8480	9111	61.8	82.3	5050	5000
Stage 11	8375	8358'-8355'	8296'-8293'	8234'-8231'	8172'-8169'		227	6891	8647	82.7	84.2	10322	427000
Stage 12	8148	8113'-8110'	8047'-8044'	7989'-7986'	7917'-7920'		252	8650	N/A	39.5	N/A	5027	N/A
Stage 13	7896	7868'-7865'	7806'-7803'	7744'-7741'	7682'-7679'		245	7406	8218	77.3	82	9702	427200
Stage 14	7651	7623'-7620'	7561'-7558'	7499'-7496'	7437'-7434'		245	6772	8272	76.2	76.2	8190	427200
Stage 15	7406	7378'-7375'	7316'-7313'	7254'-7251'	7191'-7189'		245	7298	8188	78.6	81.5	9305	352600
Stage 16	7161	7133'-7130'	7071'-7068'	7009'-7006'	6747'-6944'		245	7001	8542	78.7	79.1	10140	521600

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