

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: March 8, 2012
API #: 47-103-02626

Farm name: West Virginia Division of Natural Resources Operator Well No.: WVDNR 1103

LOCATION: Elevation: 805' Quadrangle: Center Point

District: Grant County: Wetzel
Latitude: 39.500833 Feet South of 39 Deg. 30 Min. 33.41 Sec.
Longitude -80.617922 Feet West of 80 Deg. 38 Min. 88.21 Sec.

Company: Triad Hunter, LLC

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
P.O. Box 430 Reno, Ohio 45773				
Agent: <u>Kimberly Arnold</u>	20"	44'	44'	
Inspector: <u>David Scranage</u>	13 3/8"	795.55'	795.55'	732 cu. ft.
Date Permit Issued: <u>01/28/2011</u>	9 5/8"	3117.5'	3117.5'	790.6 cu. ft.
Date Well Work Commenced: <u>03/21/2011</u>	5 1/2"	12288.38'	12288.38'	2772 cu. ft.
Date Well Work Completed: <u>09/18/2011</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>7023'</u>				
Total Measured Depth (ft): <u>12335'</u>				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>225'-340', 380'-394', 590'-598'</u>				
Void(s) encountered (N/Y) Depth(s) <u>None</u>				

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

Producing formation Marcellus Shale Pay zone depth (ft) 7023'

Gas: Initial open flow 2350 MCF/d Oil: Initial open flow 7 Bbl/d

Final open flow 5765 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 112 Hours

Static rock Pressure 2799 psig (surface pressure) after 112 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

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WV GEOLOGICAL SURVEY
MORGANTHAU, WV

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.

[Handwritten Signature]

Signature

3-8-12

Date

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 refer to attached perforation and fracture treatment report

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

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

0'-35' sand	520'-580' shale	2465'-2470' Berea
35'-50' shale	580'-590' sand	2470'-2650' shale
50'-65' sand	590'-598' shale	2650'-2710' Gordon
65'-185' shale	598'-601' coal	2710'-2805' shale
185'-225' sand	601'-700' shale	2805'-2815' Fourth Sd
225'-340' shale	700'-760' sand	2815'-2900' Shale
340'-343' coal	760'-960' shale	2900'-2905' Fifth Sd
343'-355' shale	960'-1600' sand and shale	2905'-6782' Devonian Shale
355'-380' sand	1600'-1655' sand	6782'-6806' Hamilton
380'-394' shale	1655'-1795' shale	6806'-6908' Tully
394'-395' coal	1795'-1810' Little Lime	6908' Marcellus
395'-415' shale	1810'-1835' Pencil Cave	
415'-430' sand	1835'-1885' Big Lime	
430'-460' shale	1885'-2085' Big Injun	
460'-520' sand	2085'-2465' shale	

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WV GEOLOGICAL SURVEY
 MORGANTOWN, WV

WVDNR 1103

Perf Spacing for 16 stages

Stage Length: 307
 Num Clusters: 4 o 5
 Dist between Perfs: 77'
 Perf length: 3'
 Stages: 16
 Start Depth: 12280
 90 @: 7479'

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WV GEOLOGICAL SURVEY
 MORRISTOWN, WV

		Plug Depth	Interval 1	Interval2	Interval 3	Interval 4	Interval 5	FT	PSI	PSI	BPM	BPM	bbls	lbs
Stage								Stage Length	Avg Treating Pressure	Max Pressure	Avg Rate	Max Rate	Fluid Vol	Total Sand
Stage	1	12280	12260'-12257'	12198'-12195'	12136'-12133'	12074'-12071'	12013'-12010'	325	7420	7956	84.5	85.2	10067	427200
Stage	2	11955	11936'-11933'	11859'-11856'	11782'-11779'	11705'-11702'		295	7388	7604	85.4	86.8	10210	427000
Stage	3	11660	11629'-11626'	11552'-11549'	11475'-11472'	11398'-11395'		301	7268	7844	85	86.8	10106	427000
Stage	4	11359	11322'-11319'	11245'-11242'	11168'-11165'	11091'-11088'		307	6817	7782	86.2	87.6	10089	427000
Stage	5	11052	11015'-11012'	10938'-10935'	10861'-10858'	10784'-10781'		307	6872	7691	85.4	87.5	10154	427000
Stage	6	10745	10708'-10705'	10631'-10628'	10544'-10551'	10477'-10474'		307	7020	7880	84.3	85.5	10171	427000
Stage	7	10438	10401'-10398'	10324'-10321'	10247'-10244'	10170'-10167'		307	6938	7386	83.8	85.8	10106	427000
Stage	8	10131	10094'-10091'	10017'-10014'	9940'-9937'	9863'-9860'		307	7050	7429	86.4	87.7	10124	427000
Stage	9	9824	9787'-9784'	9710'-9707'	9633'-9630'	9556'-9553'		307	6953	7331	83.5	86.8	9924	427000
Stage	10	9517	9480'-9477'	9403'-9400'	9326'-9323'	9249'-9246'		307	7224	7412	85.2	86.3	10133	427000
Stage	11	9210	9173'-9170'	9096'-9093'	9019'-9016'	8942'-8939'		307	7267	7549	84.3	87.2	9528	427000
Stage	12	8903	8866'-8863'	8789'-8786'	8712'-8709'	8635'-8632'		307	7039	7459	84.4	85.7	9583	427000
Stage	13	8596	8559'-8556'	8482'-8479'	8405'-8402'	8328'-8325'		304	7299	7990	83.2	86.5	9597	427000
Stage	14	8292	8252'-8249'	8175'-8172'	8098'-8095'	8021'-8018'		310	7013		83.1		9654	427000
Stage	15	7982	7945'-7942'	7858'-7855'	7791'-7788'	7714'-7711'		315	7162	7467	81.8	84.3	9638	427000
Stage	16	7667	7638'-7635'	7561'-7558'	7484'-7481'	7407'-7404'		310	6888	7173	83.9	86.1	9893	427000