

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 #: 47-103-02627

Farm name: West Virginia Division of Natural Resources Operator Well No.: WVDNR 1104

LOCATION: Elevation: 805' Quadrangle: Center Point

District: Grant County: Wetzel
Latitude: 39.50923 Feet South of 39 Deg. 30 Min. 33.24 Sec.
Longitude -80.63561 Feet West of 80 Deg. 38 Min. 88.22 Sec.

Company: Triad Hunter, LLC

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>P.O. Box 430</u> <u>Reno, Ohio 45773</u>				
Agent: <u>Kimberly Arnold</u>	<u>20"</u>	<u>44'</u>	<u>44'</u>	
Inspector: <u>David Scranage</u>	<u>13 3/8"</u>	<u>795.55'</u>	<u>795.55'</u>	<u>732 cu. ft.</u>
Date Permit Issued: <u>01/28/2011</u>	<u>9 5/8"</u>	<u>3116.19'</u>	<u>3116.19'</u>	<u>790.6 cu. ft.</u>
Date Well Work Commenced: <u>03/23/2011</u>	<u>5 1/2"</u>	<u>11792.68'</u>	<u>11792.68'</u>	<u>3257.28 cu. ft.</u>
Date Well Work Completed: <u>09/19/2011</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>6980'</u>				
Total Measured Depth (ft): <u>12663'</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 2874 MCF/d Oil: Initial open flow 0.5 Bbl/d
Final open flow 3941 MCF/d Final open flow 19.1 Bbl/d
Time of open flow between initial and final tests 168 Hours
Static rock Pressure 2463 psig (surface pressure) after 168 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.

Randy Ray
Signature

3-8-12
Date

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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 refer to attached perforation and fracture treatment report

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

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
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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'-6780' Devonian Shale
355'-380' sand	1600'-1655' sand		6780'-6804' Hamilton
380'-394' shale	1655'-1795' shale		6804'-6906' Tully
394'-395' coal	1795'-1810' Little Lime		6906' 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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WESTERN DISTRICT OF
PENNSYLVANIA

WVDNR 1104
Perf Spacing for 16 stages

Stage Length: 266'
 Num Clusters: 4 to 5
 Dist between Perfs: 67'
 Perf length: 3'
 Stages: 16
 Start Depth: 11875
 90 @: 8021'

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	Plug Depth	Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	FT	PSI	PSI	BPM	BPM	Fluid Vol	lbs
Stage 1	11875	11774'-11771'	11769'-11766'	11763'-11760'	11758'-11755'	11752'-11749'	157	8804	9450	58.5	63	4995	3400
Stage 2	11718	11687'-11684'	11620'-11617'	11553'-11550'	11486'-11483'		270	7477	7865	82.1	83	10089	427000
Stage 3	11448	11421'-11418'	11354'-11351'	11287'-11284'	11220'-11217'		262	7777	8196	87.5	83.7	10178	427000
Stage 4	11186	11155'-11152'	11088'-11085'	11021'-11018'	10954'-10951'		266	7882	8642	72.8	80.1	13121	427000
Stage 5	10920	10889'-10886'	10822'-10819'	10755'-10752'	10688'-10685'		266	7626	7923	81.2	83.5	10132	427000
Stage 6	10654	10623'-10620'	10556'-10553'	10489'-10486'	10422'-10419'		266	7222	7923	83.5	87	10320	427000
Stage 7	10388	10357'-10354'	10290'-10287'	10223'-10220'	10156'-10153'		266	7269	8051	82.5	85.4	10160	427000
Stage 8	10122	10108'-10105'	10024'-10021'	9957'-9954'	9880'-9877'		276	8305	8494	64.7	79.4	7487	2000
Stage 9	9846	9825'-9822'	9758'-9755'	9691'-9688'	9624'-9621'		256	7514	8114	86	88.55	10077	427000
Stage 10	9590	9559'-9556'	9492'-9489'	9425'-9422'	9358'-9355'		262	7689	7961	85.4	86.7	9933	427000
Stage 11	9328	9293'-9290'	9226'-9223'	9159'-9156'	9092'-9089'		270	8303	8959	80.4	83.4	11096	427000
Stage 12	9058	9027'-9024'	8960'-8957'	8893'-8890'	8826'-8823'		266	7525	8123	84.9	86.9	9567	427000
Stage 13	8792	8761'-8758'	8694'-8691'	8627'-8624'	8560'-8557'		269	7416	7912	85.6	86	9599	427000
Stage 14	8523	8495'-8492'	8428'-8425'	8361'-8358'	8294'-8291'		263	7704	8377	83.7	86.8	9585	427000
Stage 15	8260	8229'-8226'	8162'-8159'	8095'-8092'	8028'-8025'		272	7034	7207	86	87	9598	427000
Stage 16	7988	7963'-7960'	7896'-7893'	7829'-7826'	7762'-7759'		266	6930	7351	85.5	85.7	9782	427000