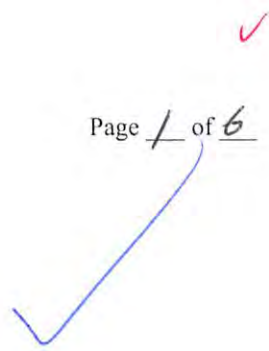


State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work



API 47-021-05755 County Gilmer District DeKalb  
Quad Burnt House Pad Name \_\_\_\_\_ Field/Pool Name Racket Newberne  
Farm name Rodney & Gregory Hill Well Number 13174  
Operator (as registered with the OOG) Dominion Transmission, Inc  
Address 445 W. Main St City Clarksburg State WV Zip 26301

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4317553.20 Easting 508163.01  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing \_\_\_\_\_ Easting \_\_\_\_\_

Elevation (ft) 1107.37' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s)  
\_\_\_\_\_  
\_\_\_\_\_

Date permit issued 4-18-13 Date drilling commenced 9-20-13 Date drilling ceased 10-3-13  
Date completion activities began 10-15-13 Date completion activities ceased 10-23-13  
Verbal plugging (Y/N) \_\_\_\_\_ Date permission granted \_\_\_\_\_ Granted by \_\_\_\_\_

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

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Office of Oil & Gas

DEC 18 2013

Freshwater depth(s) ft 58' Open mine(s) (Y/N) depths None  
Salt water depth(s) ft None Void(s) encountered (Y/N) depths None  
Coal depth(s) ft 839' Cavern(s) encountered (Y/N) depths None  
Is coal being mined in area (Y/N) N

WV Department of  
Environmental Protection

Reviewed by: \_\_\_\_\_

02/28/2014

API 47- 021 - 05755 Farm name Rodney & Gregory Hill Well number 13174

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	16"	13-3/8"	37'	N	48#, A-500		Sanded in
Surface	12-1/4"	9-5/8"	836'	N	36#, J-55		Yes
Coal							
Intermediate 1	8-3/4"	7"	2496'	N	20#, J-55		Yes
Intermediate 2							
Intermediate 3							
Production	6-1/4"	4-1/2"	5145'	N	10.5#, M-65		N
Tubing							
Packer type and depth set							

Comment Details Surface job circulated 20 bbls of cement to surface. Intermediate job circulated 27 bbls to surface. Production job not designed to bring cement to surface (cement top @ approximately 2000').

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Class A	300	15.6	1.20	360	CTS	8
Coal							
Intermediate 1	Class A	325	15.4	1.23	399	CTS	12
Intermediate 2		140	15.9	1.15	161		
Intermediate 3							
Production	Poz	260	13.5	1.53	397	2000	264
Tubing							

Drillers TD (ft) 5175 Loggers TD (ft) 5174  
 Deepest formation penetrated Siltstone immediately below Alexander Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) \_\_\_\_\_

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No  Conventional  Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_  
See attached sheet.

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

API 47- 021 - 05755 Farm name Rodney & Gregory Hill Well number 13174

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	10-14-13	4949'	5104'	25	Alexander
2	10-15-13	4695'	4702'	20	Benson
3	10-15-13	3602'	4017'	20	Balltown
4	10-15-13	3200'	3230'	20	Speechley
5	10-15-13	2522'	2530'	20	Warren

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	10-15-13	24.0	3423	3593	3317	22738	186	487618 scf
2	10-15-13	27.0	2954	3183	2560	21062	158	390150 scf
3	10-15-13	27.0	2208	2320	1692	22016	207	233604 scf
4	10-15-13	27.0	1925	2123	1730	16721	199	208623 scf
5	10-15-13	27.0	2115	2115	1425	25319	226	215671 scf

Please insert additional pages as applicable.

API 47- 021 - 05755 Farm name Rodney & Gregory Hill Well number 13148

PRODUCING FORMATION(S) DEPTHS  
Comingled: 2522' - 5104' TVD 2522' - 5104' MD  
(Alexander, Benson, Balltown, Speechley,  
Warren). See included frac/perf  
information and formation log.

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 550 psi Bottom Hole Not measured psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 949 mcfpd Oil  bpd NGL  bpd Water  bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION TOP DEPTH IN FT BOTTOM DEPTH IN FT TOP DEPTH IN FT BOTTOM DEPTH IN FT DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H<sub>2</sub>S, ETC)

LITHOLOGY/ FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	0		0		
See Attached Sheet					

Please insert additional pages as applicable.

Drilling Contractor Nexus Drilling, Inc.  
Address P.O. Box 903 City Jane Lew State WV Zip 26378

Logging Company Weatherford International, Ltd.  
Address 121 Hillpointe Drive, Suite 300 City Canonsburg State PA Zip 15317

Cementing Company Nabors Completion and Production Services Company  
Address 1650 Hackers Creek Road City Jane Lew State WV Zip 26378

Stimulating Company Baker Hughes  
Address 837 Philippi Pike City Cirksburg State WV Zip 26301

Please insert additional pages as applicable.

Completed by Jason Bach Telephone 304.669.4850  
Signature [Signature] Title Technical Specialist III Date 12-17-13

Submission of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

Centralizer Placement

47-041-05755

13174

Casing String

Centralizer Placement ( Jt#)

9 5/8"

2;3;6;10;13;15;18

7"

1-10 ; 14;18;22;26;30;34;38

4 1/2

3;4;5;9;10;25;26;42;43;44;45;58;60;61

**Formation Description  
Dominion Transmission  
Well # 13174**

<b>Formation</b>	<b>Top</b>	<b>Bottom</b>	<b>Show</b>
Fill	0	18	
Sand & Shale	18	328	Damp @ 58'
Shale & Red Rock	612	772	
Sand	772	839	
Coal	839	841	
Shale & Siltstone	841	1182	
Salt Sands	1182	1436	
Sand & Shale	1436	1740	
Maxton	1580	1674	
Sand & Shale	1674	1824	
Little Lime	1824	1840	
Shale	1840	1866	
Big Lime	1866	1940	
Big Injun	1940	1998	
Shale	1998	2134	
Weir	2148	2226	
Shale	2226	2326	Gas Check @ 2290 : No Show
Berea	2326	2334	
Shale	2334	2525	Gas Check @ 2386 : No Show
Gordon	2525	2531	
Shales & Siltstones	2531	3200	Gas Check @ 2610 : No Show
Speechley	3200	3252	
Siltstones & Shales	3252	3600	
Balltowns	3600	3984	Gas Check @ 3844 : No Show
Shales & Siltstones	3984	4694	
Benson	4694	4703	
Shales	4703	4818	
Alexander	4818	4994	
Shales	4994	5179	
Td	5179		