

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

API 47 - 033 - 05611 County Harrison District Grant
Quad West Milford Pad Name _____ Field/Pool Name Kennedy
Farm name Ricky Nutter Well Number 13143
Operator (as registered with the OOG) Dominion Transmission, Inc
Address 445 W. Main St City Clarksburg State WV Zip 26301

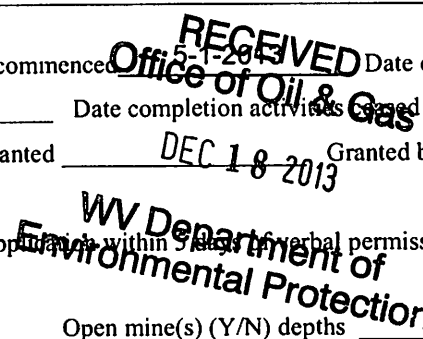
As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4333945.67 Easting 550151.82
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1181.94 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)
Fresh water based drilling mud, composed of water, sodium chloride, starch, xanthan gum, sodium bicarbonate, caustic soda, soda ash, and biocide.

Date permit issued 5-23-12 Date drilling commenced 5-1-2013 Date drilling ceased 5-14-2013
Date completion activities began 5-21-13 Date completion activities ceased 5-28-2013
Verbal plugging (Y/N) _____ Date permission granted _____ Granted by _____



Please note: Operator is required to submit a plugging application within 90 days of verbal permission to plug

Freshwater depth(s) ft 50', 107' Open mine(s) (Y/N) depths None
Salt water depth(s) ft None Void(s) encountered (Y/N) depths None
Coal depth(s) ft None Cavern(s) encountered (Y/N) depths None
Is coal being mined in area (Y/N) N

Reviewed by: _____

02/28/2014

API 47-033 - 05611 Farm name Ricky Nutter Well number 13143

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	17-1/2"	16"	38'	N	65#, H-40		Sanded in
Surface	14-3/4"	10-3/4"	792'	N	40.5#, J-55		Yes
Coal							
Intermediate 1	9-7/8"	7"	1890'	N	20#, J-55		Yes
Intermediate 2							
Intermediate 3							
Production	6-1/4"	4-1/2"	4480'	N	10.5#, M-65		N
Tubing							
Packer type and depth set							

Comment Details Surface job circulated 14 bbls of cement to surface. Intermediate job circulated 30 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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Class A	670	15.6	1.20	804	CTS	8
Coal							
Intermediate 1	Class A	500	15.4	1.23	615	CTS	24
Intermediate 2		130	15.9	1.15	149		
Intermediate 3							
Production	Poz	250	13.5	1.53	382	1845	144
Tubing							

Drillers TD (ft) 4510 Loggers TD (ft) 4502
 Deepest formation penetrated Siltstone immediately below Benson 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 _____

10-3/4" centralizers: 42', 166', 251', 377', 500', 622', 751'
 7" centralizers: 127', 299', 471', 643', 772', 901', 1030', 1159', 1288', 1417', 1460', 1503', 1546', 1589', 1632', 1675', 1718', 1761', 1804', 1847'
 4-1/2" centralizers: 1902', 1946', 1990', 2436', 2480', 3053', 3097', 3318', 3362', 3803', 3847', 4292', 4337', 4381'

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- 033 - 05611 Farm name Ricky Nutter Well number 13148

PRODUCING FORMATION(S) **DEPTHS**
 Comingled: 2333' - 4342' TVD 2333' - 4342' MD
 (Benson, Riley, Balltown, Speechley,
 Bayard). 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 700 psi Bottom Hole Not measured psi DURATION OF TEST 24 hrs

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

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	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 Halliburton
 Address 1628 Jackson's Mill Road City Jane Lew State WV Zip 26378

Please insert additional pages as applicable.

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

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

Formation Description
Dominion Transmission
Well # 13143

Formation	Top	Bottom	Show
Fill	0	20	
Sand & Shale	20	212	Hole damp @ 50'
Shale & Red Rock	212	330	1 " Stream @ 107
Sand & Shale	330	690	
Sands	690	810	
Shale	810	880	
Salt Sands	880	1135	
Shale	1135	1324	
Little Lime	1324	1340	
Shale	1340	1376	
Big Lime	1376	1440	
Big Injun	1440	1544	
Shale	1544	1770	
Gantz	1764	1784	
Shale	1784	1860	
Thirty Foot	1860	1922	
Shale	1922	1952	
Gordons	1952	2030	
Shale	2030	2064	
Fourth Sand	2064	2154	
Sand & Shale	2154	2280	
5th Sand	2280	2290	
Shale	2290	2346	Gas Check @ 2319 Ordor
Bayard	2346	2357	
Shale	2357	2706	
Speechley	2706	2766	
Shale & Siltstone	2766	2978	
Balltowns	2978	3222	Gas Check @ 3111 103 Mcf
Shale & Siltstone	3222	3720	Gas Check @ 3584 60 Mcf
Riley	3720	3726	
Shale	3726	4330	Gas Check @ 4057 103 Mcf
Benson	4330	4343	
Siltstone	4343	TD	
TD	4510		