

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

API 47-033-05736 County Harrison District Grant
Quad Mount Clare Pad Name _____ Field/Pool Name Lost Creek
Farm name Rudy L. McWhorter Well Number 13151
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 4326254.2196 Easting 567354.2993
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1355.08 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 3-21-13 Date drilling commenced 5-17-13 Date drilling ceased 6-3-13
Date completion activities began 6-24-13 Date completion activities ceased 7-3-13
Verbal plugging (Y/N) _____ Date permission granted _____

RECEIVED
Office of Oil & Gas
DEC 18 2013

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

Freshwater depth(s) ft 76' Open mine (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 - 05736 Farm name Rudy L. McWhorter Well number 13151

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"	40'	N	65#, H-40		Sanded in
Surface	14-3/4"	10-3/4"	794'	N	40.5#, J-55		Yes
Coal							
Intermediate 1	9-7/8"	7"	2089'	N	20#, J-55		Yes
Intermediate 2							
Intermediate 3							
Production	6-1/4"	4-1/2 "	4660'	N	10.5#, M-65		N
Tubing							
Packer type and depth set							

Comment Details Surface job circulated 16 bbls of cement to surface. Intermediate job circulated 36 bbls to surface. Production job not designed to bring cement to surface (cement top @ approximately 1765').

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	650	15.6	1.20	780	CTS	8
Coal							
Intermediate 1	Class A	550	15.4	1.23	676	CTS	24
Intermediate 2		140	15.9	1.15	161		
Intermediate 3							
Production	Poz	270	13.5	1.53	413	1765	504
Tubing							

Drillers TD (ft) 4700' Loggers TD (ft) 4693'
 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', 127', 212', 293', 632', 674', 717'
7" centralizers: 45', 90', 135', 180', 225', 270', 316', 361', 405', 450', 495', 540', 631', 765', 900', 1035', 1169', 1258', 1345', 1747', 1835', 1879', 2015'
4-1/2" centralizers: 132', 176', 220', 293', 837', 881', 1234', 1278', 1322', 1674', 1718', 2070', 2114', 2687', 2731', 2776', 2820'

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 _____

Formation Description
Dominion Transmission
Well # 13143

Formation	Top	Bottom	Show
Fill	0	21	
Sand	21	84	Hole damp @ 76'
Red rock	84	102	
Sand/shale	102	195	
Sand	195	270	
Sand/shale	270	378	
Red rock/shale	378	391	
Sand/shale	391	838	
Sand	838	882	
Sand/shale	882	986	
Sand	986	997	
Sand/shale	997	1500	
Little Lime	1500	1519	
Shale	1519	1544	
Big Lime	1544	1672	
Big Injun	1672	1724	
Sand/shale	1724	1881	
Red rock/shale	1881	1900	
Sand/shale	1900	1940	
Gantz	1940	1985	
Sand/shale	1985	2465	
Fifth Sand	2465	2485	
Siltstone/shale	2485	2522	Gas check @ 2509': Odor
Bayard	2522	2555	
Siltstone/shale	2555	3003	
Speechley	3003	3015	Gas check @ 3018': Odor
Siltstone/shale	3015	3260	
Balltown	3260	3382	
Siltstone/shale	3382	4518	Gas check @ 3520': Nothing
Benson	4518	4533	Gas check @ 4311': Odor
Siltstone	4533	TD	Gas check @ TD: Odor