

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

API 47-075-00009-00-00 County Pocahontas District Greenbank
Quad Sinks of Gandy Pad Name _____ Field/Pool Name Glady
Farm name US Dept. of Interior Well Number 7455
Operator (as registered with the OOG) Columbia Gas Transmission, LLC
Address 1700 MacCorkle Avenue SE City Charleston State WV Zip 25314

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4283362.39 Easting 608468.56
Landing Point of Curve Northing N/A Easting N/A
Bottom Hole Northing Not measured (vertical wellbore) Easting Not measured (vertical wellbore)

Elevation (ft) 3284.6 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 6/13/2018 Date drilling commenced N/A Date drilling ceased N/A
Date completion activities began 10/23/2018 Date completion activities ceased 10/25/2018
Verbal plugging (Y/N) N/A Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft 73' (reported by driller in 1958) Open mine(s) (Y/N) depths N
Salt water depth(s) ft None reported by driller in 1958 Void(s) encountered (Y/N) depths None reported by driller in 1958
Coal depth(s) ft None reported by driller in 1958 Cavern(s) encountered (Y/N) depths None reported by driller in 1958
Is coal being mined in area (Y/N) N

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Reviewed
Danny Mullins

Reviewed by: _____

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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		13-3/8"	33'	Used	48 lbs./ft.		No record
Surface		10-3/4"	1035'	Used	40.5 lbs./ft.		Y
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production		7"	5895'	Used	23 lbs./ft.		Y
Tubing							
Packer type and depth set							

Comment Details _____

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		250 sx.					
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production		225 sx.			485 cu. ft.		
Tubing							

Drillers TD (ft) 5941' Loggers TD (ft) 5941'
 Deepest formation penetrated Helderberg 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 _____

5 centralizers ran on the 7" production string.

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS Open hole from 5895'-5941'.

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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