

Dominion Transmission, Inc.  
925 White Oaks Boulevard, Bridgeport, WV 26330  
dom.com



November 14, 2016

**By U.S. Mail, Certified Delivery**

7196 9008 9115 5858 8059

WV DEP  
Office of Oil & Gas  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304-2345

To the Office of Oil and Gas,

Dominion Transmission, Inc. (DTI) has completed the rework of well # AW-230 (API #: 47-041-02755). All completions operations have been completed, and the well site has been reclaimed.

Enclosed is a completed and signed copy of the Well Record Completion Report (WR-35 Rev. 8/23/13) for well # AW-230. If you should have any further questions or comments, please contact me by means of the information listed below.

Sincerely,

*Christopher D. Barclay*

Christopher D. Barclay, EI  
(M) 304.476.2156  
(E) christopher.d.barclay@dom.com

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Office of Oil and Gas  
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NOV 16 2016  
WV Department of  
Environmental Protection  
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Environmental Protection

AX  
RBDMS 04/14/2017

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

API 47-041-02755 County Lewis District Freeman's Creek  
Quad Vadis 7.5' Pad Name N/A Field/Pool Name Fink  
Farm name Starcher, U. F. Well Number (AW-230)  
Operator (as registered with the OOG) Dominion Transmission, Inc.  
Address 925 White Oaks Boulevard City Bridgeport State WV Zip 26330

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

Elevation (ft) 1198.2' 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 mud with bentonite

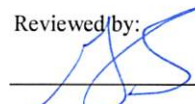
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Date permit issued 06/02/2015 Date drilling commenced N/A Date drilling ceased N/A  
Date completion activities began 06/28/2016 Date completion activities ceased 10/18/2016  
Verbal plugging (Y/N) N Date permission granted N/A

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

Freshwater depth(s) ft \_\_\_\_\_ Open mine(s) (Y/N) depths N  
Salt water depth(s) ft \_\_\_\_\_ Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 648'-653' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:   
04/14/2017

API 47-041 - 02755 Farm name Starcher, U. F. Well number (AW-230)

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	N/A	10-3/4"	148'	N/A	N/A	N/A	N/A
Surface	N/A	8-5/8"	1140'	N/A	N/A	N/A	N/A
Coal							
Intermediate 1	8-1/4"	7"	2194'	N/A	20# K-55	N/A	N/A
Intermediate 2							
Intermediate 3							
Production	6-1/4"	5-1/2"	2289'	N/A	17# K-55	N/A	Y
Tubing	4-5/8"	3-1/2"	2241'	New	9.2# J-55	N/A	Y
Packer type and depth set		Baker Hughes Frac Point Packer (2238') w/cementing sleeve (2234')					

Comment Details Milled window in 5-1/2" from 1938' to 1954' and perforated 7" over same interval w/10 shots. 5-1/2" was bond logged.

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							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing	80% Class A/20% WellLock Resin	115	15.5	1.179	169	0	72

Drillers TD (ft) 2536' Loggers TD (ft) \_\_\_\_\_

Deepest formation penetrated Gantz Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) N/A

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 RECEIVED

3-1/2" centralizers set on joints 2, 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57, 60, 63, 66, 69

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WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS Shot w/30 quarts of nitroglycerin on 8/11/1928

WV Department of Environmental Protection

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS Open from 2289' to 2536'  
(originally drilled to 2840', but plugged back to 2536' in 1943)

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED N/A



API 47- 041 - 02755 Farm name Starcher, U. F. Well number (AW-230)

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Gantz</u>	<u>2488-2516</u>	<u>TVD</u>	<u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface \_\_\_\_\_ psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST \_\_\_\_\_ hrs

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

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	0		0		
Pittsburgh Coal	648	653			
Big Dunkard Sand	1135	1145			
Gas Sand	1450	1475			
First Salt Sand	1532	1547			
Second Salt Sand	1683	1725			
Third Salt Sand	1845	1919			
Maxon Sand	1943	1993			
Little Lime	2067	2089			
Big Lime	2100	2158			
Gantz Sand	2488	2516			

Please insert additional pages as applicable.

Drilling Contractor Key Energy Services (service rig)  
Address 1301 McKinney St City Houston State TX Zip 77010

Logging Company Baker Hughes  
Address 17021 Aldine Westfield City Houston State TX Zip 77073

Cementing Company Halliburton  
Address 3000 N. Sam Houston Pkwy E. City Houston State TX Zip 77032

Stimulating Company N/A  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Please insert additional pages as applicable.

Completed by Christopher Barclay Telephone (304) 476-2156  
Signature Christopher S. Barclay Title Engineer II Date 11/14/2016

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