

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

API 47-033-01594 County Harrison District Union
Quad West Milford Pad Name BW-8151 Field/Pool Name Kennedy
Farm name ASH, C.C. Well Number BW-8151

Operator (as registered with the OOG) EASTERN GAS TRANSMISSION AND STORAGE, INC. (FORMERLY DOMINION ENERGY TRANSMISSION, INC.)
Address 925 White Oaks Blvd. 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 4333712.31 Easting 543808.49
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1147' 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)
GEL WATER, BENTONITE GEL, BRINE, FRESHWATER

Date permit issued 9/17/2019 Date drilling commenced N/A Date drilling ceased N/A
Date completion activities began 10/07/2019 Date completion activities ceased 12/20/2019
Verbal plugging (Y/N) N/A Date permission granted 9/17/2019 Granted by JAMES A. MARTIN

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

Freshwater depth(s) ft N/A Open mine(s) (Y/N) depths N
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N
Coal depth(s) ft 102'-110' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

09/24/2021

API 47-033 - 01594 Farm name ASH, C.C. Well number BW-8151

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							
Surface		13-3/4"	170'		N/A		
Coal							
Intermediate 1		7"	2249'		K-55 20#/FT		
Intermediate 2							
Intermediate 3							
Production		4-1/2"	1956'		J-55 10.5#/FT		
Tubing							
Packer type and depth set							

Comment Details BASED ON HISTORICAL WELL RECORDS. PULLED 4786' 2-3/8" TUBING FROM WELL. UPDATED 4-1/2" PRODUCTION TO PLUG BACK DEPTH.

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	N/A	300				N/A	
Coal							
Intermediate 1	N/A	1000				SURFACE	
Intermediate 2							
Intermediate 3							
Production	CLASS A	218	15.2	1.28	279	584'	24
Tubing							

Drillers TD (ft) 5025' Loggers TD (ft) 4939'
 Deepest formation penetrated ALEXANDER Plug back to (ft) 1956'
 Plug back procedure REFER TO ATTACHED PLUG BACK DESCRIPTION SHEET.

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 N/A

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 _____

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>GANTZ</u>	<u>1934'-1942'</u> TVD	<u>1934'-1942'</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 22 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas _____ Oil _____ NGL _____ Water _____ GAS MEASURED BY
 0 mcfpd bpd bpd bpd 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 ₂ S, ETC)
	0		0		
PITTSBURGH COAL	102'	110'			
BIG DUNKARD SAND	487'	580'			
FIRST SALT SAND	840'	910'			
MAXON SAND	1575'	1602'			
GANTZ	1934'	1942'			GAS

Please insert additional pages as applicable.

Drilling Contractor KEY ENERGY SERVICES
 Address 138 SEWER PLANT ROAD City BUCKHANNON State WV Zip 26201

Logging Company BAKER HUGHES
 Address 180 CHILDERS RUN ROAD City BUCKHANNON State WV Zip 26201

Cementing Company BOSS SERVICES
 Address 4300 BERLIN ROAD City WESTON State WV Zip 26452

Stimulating Company NINE ENERGY
 Address 2163 STATE ROUTE 821 City WHIPPLE State OH Zip 45788

Please insert additional pages as applicable.

Completed by JOHN LOVE Telephone 681-842-3311
 Signature  Title DIRECTOR OF STORAGE Date 09/02/2021

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

09/24/2021

Well 47-033-01594 plugged back with the following materials, over the following intervals:

<u>Material or Zone of Interest</u>	<u>Bottom</u>	<u>Top</u>
Tagged TD inside 4-1/2" casing		4818'
Class A cement (62 sx)	4818'	4025'
6% bentonite gel	4025'	4016'
Class A cement (76 sx)	4016'	3025'
6% bentonite gel	3025'	2832'
Class A cement (67 sx)	2832'	1980'
Cast Iron Bridge Plug		1990'
Cement Retainer		1957'
TD inside 4-1/2" casing after plug back		1956'
****4-1/2" squeeze perforations:	1971' – 1975' (4 spf)	
	1960' – 1964' (4spf)	