

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

API 47 - 039 - 01582-00-00 County Kanawha District Elk
Quad Blue Creek, WV Pad Name _____ Field/Pool Name Coco A
Farm name Davis, Lawrence & Martha Well Number 7199
Operator (as registered with the OOG) Columbia Gas Transmission, LLC
Address 1700 MacCorkle Ave. S.E., P.O. Box 1273 City Charleston State WV Zip 25325

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4249726.777 Easting 462964.464
Landing Point of Curve Northing N/A Easting N/A
Bottom Hole Northing Not measured (vertical wellbore) Easting Not measured (vertical wellbore)

Elevation (ft) 873.3' 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) _____

RECEIVED
Office of Oil and Gas

JUL 26 2021

Date permit issued 3/29/2021 Date drilling commenced WV N/A Date drilling ceased N/A
Date completion activities began 5/17/2021 Date completion activities ceased 7/2/2021
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 200', as reported by Driller. Open mine(s) (Y/N) depths _____ N
Salt water depth(s) ft 795', 818', 835', 1211'-1220', 1491'-1499', as reported by Driller. Void(s) encountered (Y/N) depths _____ N
Coal depth(s) ft _____ N/A Cavern(s) encountered (Y/N) depths _____ N
Is coal being mined in area (Y/N) _____ N

Reviewed by:

J. Urban
08/06/2021

API 47-039 - 01582-00-00 Farm name Davis, Lawrence & Martha Well number 7199

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		13-3/8"	570'		54		N
Coal							
Intermediate 1		8-5/8"	1455'		24		N
Intermediate 2		7"	1846'		23		N
Intermediate 3							
Production		5-1/2"	5084'		15.5		N
Tubing							
Packer type and depth set							

Comment Details The 2-3/8" tubing was pulled during workover operations.

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							
Coal							
Intermediate 1		25 sx.					
Intermediate 2		185 sx.					
Intermediate 3							
Production		No record of cement volume.				4582'	
Tubing							

Drillers TD (ft) 5129' Loggers TD (ft) 5129'
 Deepest formation penetrated Oriskany Plug back to (ft) _____
 Plug back procedure _____

RECEIVED
Office of Oil and Gas

Kick off depth (ft) _____

JUL 26 2021

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

WV Department of Environmental Protection

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

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 _____

08/06/2021

API 47- 039 - 01582-00-00 Farm name Davis, Lawrence & Martha Well number 7199

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)

Please insert additional pages as applicable.

RECEIVED
Office of Oil and Gas

STIMULATION INFORMATION PER STAGE

JUL 26 2021

Complete a separate record for each stimulation stage.

WV Department of
Environmental Protection

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
	6/29/21							20% HCl
	6/30/21		1580				190 bbls	36 bbls HCl

Please insert additional pages as applicable.

08/06/2021

API 47- 039 - 01582-00-00 Farm name Davis, Lawrence & Martha Well number 7199

PRODUCING FORMATION(S)

DEPTHS

Oriskany 5107'-5129' TVD 5107'-5129' MD

RECEIVED
Office of Oil and Gas

JUL 26 2021

WV Department of
Environmental Protection

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1433 psi Bottom Hole _____ psi DURATION OF TEST 0.75 hrs

OPEN FLOW Gas 34243 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 ₂ S, ETC)
-------------------------	--------------------------------	------------------------------	--------------------------	-----------------------------	--

	0		0		

Please insert additional pages as applicable.

Drilling Contractor _____
Address _____ City _____ State _____ Zip _____

Logging Company Baker Atlas
Address 180 Childers Run Road City Buckhannon State WV Zip 26201

Cementing Company _____
Address _____ City _____ State _____ Zip _____

Stimulating Company Key Energy
Address Weatherford Boulevard City Buckhannon State WV Zip 26201

Please insert additional pages as applicable.

Completed by Brad Nelson Telephone 724-250-0610
Signature Brad Nelson Title Storage Engineer Date 7/23/2021