

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

API 47-051-00483-00-00 County Marshall District Liberty  
Quad Littleton, WV Pad Name \_\_\_\_\_ Field/Pool Name Victory B  
Farm name Clark, Blair Well Number 2097  
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 4399705.188 Easting 533423.652  
Landing Point of Curve Northing N/A Easting N/A  
Bottom Hole Northing Not measured (vertical wellbore) Easting Not measured (vertical wellbore)

Elevation (ft) 1430' 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 3/17/2023 Date drilling commenced N/A Date drilling ceased N/A  
Date completion activities began 9/22/2023 Date completion activities ceased 9/26/2023  
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 1148' (as reported by the Driller in 1917). Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 2218'-2235' (as reported by the Driller during rework in 1945). Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 535'-540', 857'-865', 1058'-1067', 1148'-1157' (as reported by the Driller in 1917). Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) Y

Reviewed by:

~~01/19/2024~~

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
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API 47 - 051 - 00483-00-00 County Marshall District Liberty  
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Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s) \_\_\_\_\_

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Is coal being mined in area (Y/N) \_\_\_\_\_ Y

**APPROVED**

Reviewed by:  
GA  
01/19/2024  
1/2/2024

API 47-051 - 00483-00-00

Farm name Clark, Blair

Well number 2097

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		10-3/4"	285'		32.75		N/A
Coal		8-5/8"	1588'		24		Y
Intermediate 1		7"	2154'		23		N
Intermediate 2							
Intermediate 3							
Production		4-1/2"	2468'		10.5		Y
Tubing							
Packer type and depth set							

Comment Details Casing was not altered during workover operations.

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		N/A					
Coal		300 sx.					
Intermediate 1		350 sx.					
Intermediate 2							
Intermediate 3							
Production		280 sx.					
Tubing							

Drillers TD (ft) 2468'

Loggers TD (ft) 2468'

Deepest formation penetrated Big Injun

Plug back to (ft) \_\_\_\_\_

Plug back procedure \_\_\_\_\_

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Kick off depth (ft) \_\_\_\_\_

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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 \_\_\_\_\_

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 \_\_\_\_\_

01/19/2024



API 47-051-00483-00-00 Farm name Clark, Blair Well number 2097

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Maxton	2155'-2188'	TVD MD
Big Injun	2292'-2468'	2292'-2468'

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 738 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 0.75 hrs.

OPEN FLOW Gas 10766 mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		

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Please insert additional pages as applicable.

Drilling Contractor \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Logging Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Cementing Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Stimulating Company Gladiator Energy  
Address 146 Painter-Koser Road City Smithton State PA Zip 15479

Please insert additional pages as applicable.

Completed by Brad Nelson Telephone 724-250-0610  
Signature *Brad Nelson* Title Storage Engineer Date 10/20/2023

Columbia Gas Transmission, LLC  
1700 MacCorkle Ave., SE, Charleston, WV, USA 25325



October 20, 2023

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

Enclosed are completed WR-34 Discharge Monitoring Report and WR-35 Well Operator's Report of Well Work forms for the following permitted wells:

Victory A well 3525	API 103-00116	Stimulate	Form WR-35
Victory B well 2097	API 051-00483	Stimulate	Form WR-34, Form WR-35
Victory B well 2449	API 051-00164	P&A	Form WR-34

If you have questions, feel free to call.

Regards,

A handwritten signature in cursive script that reads "Brad Nelson".

Brad Nelson  
Storage Engineer  
TC Energy (Columbia Gas Transmission, LLC)  
brad\_nelson@tcenergy.com  
off: 724-223-2753  
cell: 724-250-0610

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Office of Oil and Gas

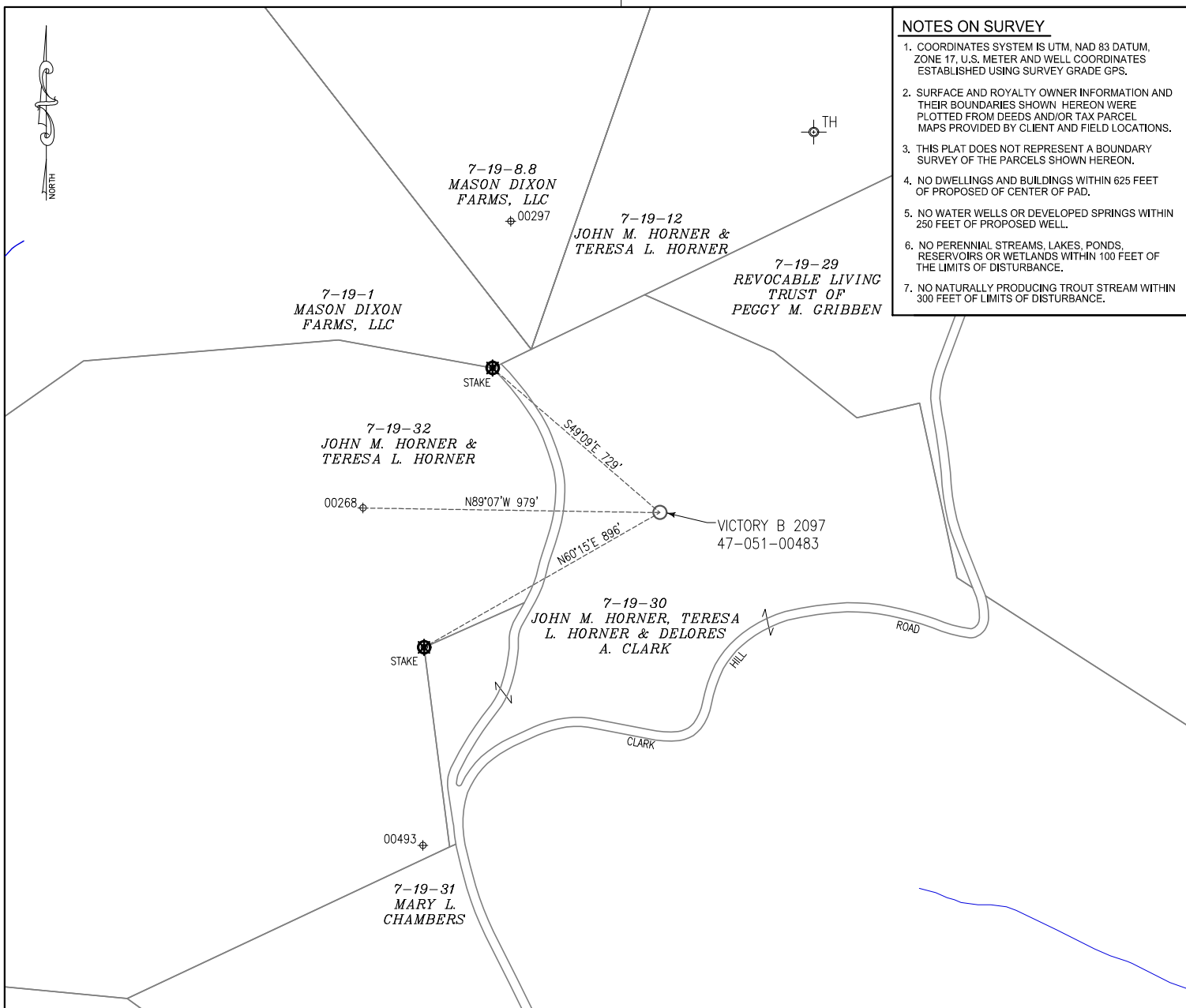
OCT 23 2023

WV Department of  
Environmental Protection



**NOTES ON SURVEY**

1. COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. METER AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED OF CENTER OF PAD.
5. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
6. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
7. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.



**LEGEND**

- Active Well Location
- Plugged Well Location
- Proposed Gas Well
- Surface Tract Lines
- Creek or Drain
- Reference Line

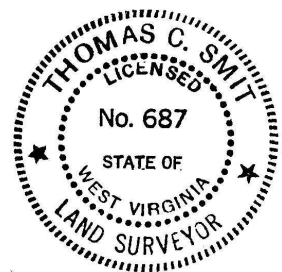
**Victory B 2097 Coordinates:**  
 NAD 83 N: 455,975.853      E: 1,656,433.078  
 NAD 83 Lat: 39.746596      Long: -80.609876  
 NAD 83 UTM N: 4,399705.188      E: 533,423.652

( ) Denotes Location of Well on United States Topographic Maps



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

*Thomas C. Smit*  
 THOMAS C. SMIT, LLC



SEAL

FILE NO: \_\_\_\_\_  
 DRAWING NO: \_\_\_\_\_  
 SCALE: 1" = 500'  
 MINIMUM DEGREE OF ACCURACY: 1:2500  
 PROVEN SOURCE OF ELEVATION: NGS CORS Station

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 OIL AND GAS DIVISION



DATE: December 05 20 22  
 OPERATORS WELL NO: 2097  
 API WELL NO  
 47 - 051 - 00483  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION ELEVATION: 1430' WATERSHED: Fish Creek QUADRANGLE: Littleton  
 DISTRICT: Liberty COUNTY: Marshall  
 SURFACE OWNER: John M. Horner, Teresa L. Horner, and Delores A. Clark ACREAGE: 119.83 ±  
 ROYALTY OWNER: Charles L. Ackerman; Charlotte A. Ackerman, et al. LEASE NO: 3003957-000 ACREAGE: 132 ±  
 PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Re-Perforate  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Maxton, Big Injun ESTIMATED DEPTH: 2468'

01/19/2024

WELL OPERATOR: Columbia Gas Transmission, LLC DESIGNATED AGENT: Brad Nelson  
 ADDRESS: 1700 MacCorkle Ave. ADDRESS: 455 Racetrack Road  
 Charleston, WV 25325-1272 Washington, PA 15301