



west virginia department of environmental protection

Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Friday, March 17, 2023  
WELL WORK PERMIT  
Vertical / Re-Work

COLUMBIA GAS TRANSMISSION, LLC  
1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for 2097  
47-051-00483-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin  
Chief

Operator's Well Number: 2097  
Farm Name: CLARK, BLAIR  
U.S. WELL NUMBER: 47-051-00483-00-00  
Vertical Re-Work  
Date Issued: 3/17/2023

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4705100483W

## PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR § 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR § 4-19.1.c, if the operator is unable to sample and analyze any water well or spring within one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and cement does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
7. Well work activities shall not constitute a hazard to the safety of persons.
8. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACOE). Through this permit, you are hereby being advised to consult with the USACOE regarding this proposed activity.

03/17/2023



WW - 2B  
(Rev. 8/10)

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**WELL WORK PERMIT APPLICATION**

1) Well Operator: Columbia Gas Transmission, LLC 307032 Marshall Liberty Littleton, WV  
Operator ID County District Quadrangle

2) Operator's Well Number: Victory B 2097 3) Elevation: 1430'

4) Well Type: (a) Oil \_\_\_\_\_ or Gas X  
(b) If Gas: Production \_\_\_\_\_ / Underground Storage X  
Deep \_\_\_\_\_ / Shallow X

5) Proposed Target Formation(s): Maxton, Big Injun Proposed Target Depth: 2156'

6) Proposed Total Depth: 2468 Feet Formation at Proposed Total Depth: Big Injun

7) Approximate fresh water strata depths: 1148' (as reported by the Driller in 1917).

8) Approximate salt water depths: 2218'-2235' (as reported by the Driller during rework in 1945).

9) Approximate coal seam depths: 535'-540', 857'-865'; 1058'-1067'; 1148'-1157' (as reported by the Driller in 1917).

10) Approximate void depths,(coal, Karst, other): None reported by the Driller.

11) Does land contain coal seams tributary to active mine? Yes

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)  
Perform coiled tubing clean-out and acid wash. Add perforations. Fracture stimulate well.

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\*Casing listed below are existing. No plans to remove, alter, or install new casing/tubing.

**13) CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT Fill -up (Cu. Ft.)
	Size	Grade	Weight per ft	For Drilling	Left in Well	
Conductor						
Fresh Water	10-3/4"	H-40	32.75	285'	285'	N/A
Coal	8-5/8"	J-55	24	1588'	1588'	300 sx.
Intermediate	7"	N-80	23	2154'	2154'	350 sx.
Production	4-1/2"	K-55	10.5	2468'	2468'	280 sx.
Tubing						
Liners						

Packers: Kind: N/A  
Sizes: \_\_\_\_\_  
Depths Set \_\_\_\_\_

<b>WELL JOB PLAN</b>		<b>Well Engineering &amp; Technology</b>		PAGE 3	DATE JOB PREPARED: 6/28/2022
<b>Objective</b> Deliverability Restoration				LAST PROFILE UPDATE:	
<b>TITLE:</b> Re-perf + CTCO + Acid			<b>WORK TYPE:</b> 0		
<b>FIELD:</b> Victory B		<b>WELL:</b> 2097			
<b>STAT:</b> WV		<b>SHL (Lat/Long):</b> 0 0		<b>API:</b> 47-051-00483-00-00	
<b>TWP:</b> Liberty		<b>BHL (Lat/Long):</b> 0 0		<b>CNTY:</b> Marshall	

## JOB PLAN

**All freshwater based fluids to be treated with biocide and clay stabilizer.  
All acids to be treated with corrosion inhibitor and iron control.**

- 1 Obtain NRP clearances, pipeline crossing eval., etc.
- 2 Notify Reservoir Engineering & Geosciences (REG) of intent to take well out of service.
- 3 Obtain GWP and Well Review & Turnover form.
- 4 Prepare access road and well site. Install ECD's per EM&CP.
- 5 Service all wellhead valves.
- 6 Document initial casing and annular pressures.

*\*Steps 6 -10 need to be scheduled and performed back-to-back, so not to allow acid to neutralize and precipitate non-soluble by-products.*

- 7 MIRU pump equipment. Pump 500 gals 15% HCl followed by 20 bbls TFW.
- 8 MIRU wireline unit. Re-perforate per Geology recommendations. RDMO wireline unit.
- 9 Load wellbore with TFW and squeeze acid into formation.
- 10 MIRU CTU. RIH with jet nozzle and begin unloading fluid out of wellbore. Wash across perms with foamed TFW 3 times and dry wellbore.
- 11 Flow well to recover job fluid.
- 12 Obtain 45-min flowback test and report results to REG.
- 13 Reclaim road and location.
- 14 Commission well to place back in service.
- 15 Notify REG that well is ready for storage service.

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WV Department of  
Environmental Protection

<b>PREPARED BY:</b> Brad Nelson	<b>REVIEWED BY:</b>	<b>APPROVED:</b> <i>Strader Gower</i> 12/14/2022
<b>PREP DATE:</b> 6/28/2022		



**COLUMBIA GAS**

Transmission



4705100483w

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Division of  
Environmental Protection

AUG 03 93

Permitting  
Office of Oil & Gas

August 2, 1993

Mr. Jamie Stevens, Petroleum Engineering Technician  
State of West Virginia  
Department of Commerce, Labor & Environmental Resources  
Office of Oil & Gas  
10 McJunkin Road  
Nitro, WV 25143-2506

Dear Mr. Stevens:

Columbia Gas Transmission Corporation plans to perform a 8-well wellbore clean-out project at our Victory B Storage Field, Marshall County, WV, during the summer of 1993. The 8 wells which will be addressed are: well 1836 (API Permit #47-051-00390); well 4419 (47-051-00316); well 4649 (47-051-00416); well 4734 (47-051-00482); well 2097 (47-051-00483); well 4443 (47-051-00297); well 4711 (47-051-00444); and well 4777 (47-051-00485).

Over the past 30-40 years of operation, the open hole sections of the subject wells have filled up with formation caving and debris, resulting in significant loss of individual well deliverability. In order to restore well performance, Columbia plans to run coiled tubing into each well in order to circulate out the existing accumulation of debris. Columbia is of the opinion that this operation should be considered normal well maintenance and not subject to the definition of "well work" found in Chapter 22-1-1 (y) of the West Virginia Division of Oil & Gas Statutes which would require a well work permit. The wells are not being re-drilled, deepened, stimulated, pressured by injection of fluid, converted from one well type to another, plugged, re-plugged or being physically changed to allow fluid migration from one formation to another. Columbia is merely restoring the wells to their original condition by removing accumulated fill to the original total depth of each well.

Since fluid will be used and circulated into steel tanks at the surface during each well clean-out (and will have to be properly disposed of following completion of operations) Columbia is submitting a Blanket WW-9, "Construction and Reclamation Plan and Site Registration Application Form - General Permit for Oil and Gas Drilling Pit Waste Discharge" form for approval. All eight wells are identified on topographic maps (attached). The appropriate surface owners will be notified of any activity. Mr. Randal Mick, Marshall County state oil and gas inspector will also be kept apprised of Columbia's scheduling. All fluids collected in tanks will be hauled away and disposed of at approved waste water treatment facilities (probably Allegheny Liquid Systems, Pittsburgh, PA). Any incidental damage done to each well site by vehicular traffic will be properly reclaimed using recognized restoration techniques.

In addition to the (eight coil tubing cleanouts), Columbia Gas Transmission Corporation plans to re-perforate eight wells at our Victory B Storage Field,

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Marshall County, WV, during this summer. The eight wells which will be addressed are: well 2098 (API permit #47-051-00365); well 4603 (47-051-00405); well 4709 (47-051-00449); well 4648 (47-051-00420); well 4419 (47-051-00316); well 4679 (47-051-00446); well 4777 (47-051-00485); well 4783 (47-051-00492).

Over the past 30-40 years of operation, the existing perforated intervals have plugged up with compressor oil, sludge and other debris resulting in significant loss of individual well deliverability. In order to restore well performance, Columbia plans to re-perforate both wells over the existing perforated intervals. Columbia is of the opinion that this operation should be considered normal well maintenance and not subject to the definition of "well work" found in Chapter 22-1-1(y) of the West Virginia Division of Oil and Gas Statutes which would require a well work permit. The wells are not being re-drilled, deepened, stimulated, pressured by injection of fluid, converted from one well type to another, plugged, re-plugged or being physically changed to allow fluid migration from one formation to another. The eight wells are identified on topographic maps (attached). The appropriate surface owners will be notified of any activity. Mr. Randal Mick, Marshall County State Oil and Gas Inspector, will be kept apprised of Columbia's scheduling.

Should you have any questions concerning the attached information, do not hesitate to contact me at 304/357-4079.

Sincerely,



Ron J. Parenti  
Senior Storage Engineer

RJP/csp

#### Attachments

c: M. W. Lewis  
R. L. Coty  
T. D. Maddox  
Randal Mick  
R. A. Schoff  
Dan Sikorski  
R. C. Weidner



47051004 3W



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Quadrangle Littleton

Permit No. MARS-483-D

WELL RECORD

STORAGE  
Oil or Gas Well GAS  
(KIND)

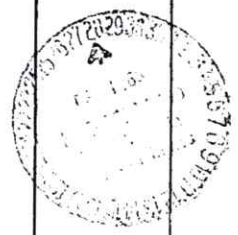
Company	<u>The Mfrs. Lt. and Ht. Co.</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address	<u>800 Union Trust Bldg., Pittsburgh 19, Pa.</u>	Size			
Farm	<u>Blair Clark</u> Acres <u>133</u>	10. 3/4"	<u>285'</u>	<u>285'</u>	
Location (waters)		8 5/8"	<u>1239'</u>	<u>1588'</u>	Kind of Packer
Well No.	<u>2097</u> Elev. <u>1475.0'</u>	8 7/8"	<u>2154'</u>	<u>2154'</u>	Size of
District	<u>Liberty</u> County <u>Marshall</u>	5 3/16"			Depth set
The surface of tract is owned in fee by	Address	8 1/2"	<u>2191'</u>	<u>2282'</u>	Perf. top
Mineral rights are owned by	Address	2			Perf. bottom
Drilling commenced	<u>November 26, 1962</u>	Liners Used			Perf. top
Drilling completed	<u>December 19, 1962</u>				Perf. bottom
Date Shot	<u>12/19/62</u> From <u>Maxton</u> To <u>Big Injun</u>				
With	<u>Pitot Tube</u>				
Open Flow	/10ths Water in _____ Inch				
22PSIG	/10ths Merc. in <u>4 1/2</u> Inch				
Volume	<u>13,170,000</u> Cu. Ft.				
Rock Pressure	<u>680</u> lbs. <u>24</u> hrs.				
Oil	_____ bbls., 1st 24 hrs.				
Fresh water	_____ feet				
Salt water	_____ feet				

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_

COAL WAS ENCOUNTERED AT 1156 FEET \_\_\_\_\_ INCHES  
 FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
 FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	THICKNESS	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Combined Log							
Pittsburgh Coal			1156	1165			
Murphy Sand			1258	1278			
Big Dunkard			1610	1695			
1st Salt			1824	1840			
3rd Salt			2035	2065			
Maxton Sand			2156	2188			
Big Lime			2246	2288			
Big Injun Sand			2292	2444			
7" Csg. set @				2154	Not Drilled	Through	
4 1/2" Liner from			2191	2284			
Total Depth				2444			

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(Over)

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COLUMBIA GAS SYSTEM - PITTSBURGH GROUP COMPANIES

WELL LOG SUMMARY

1 of 1 Sheets  
2097

WELL NO. 2097  
 FIELD: Cameron, West Virginia  
 FARM: T. A. Clark  
 COUNTY: Marshall

DEPTH OF FORMATION DEPTHS  
 Driller's Log  Service Company Log  Combination

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS (Water, Gas, Oil encountered-Open Flows-Back Pressure-etc.)
Combined Bog				
Pittsburgh Coal	1156'	1165'		
Murphy Sand	1258'	1278'		
Big Dunkard	1610'	1695'		
1st Salt	1824'	1840'		
3rd Salt	2035'	2065'		
Horton Sand	2156'	2188'		
Big Lime	2246'	2288'		
Big Injun Sand	2292'	2444'		Not Drilled Through.
7" Csg. sat. @		2154'		
4-1/2" Idner XXXXX from	2191'	2284'		
Total Depth		2444'		

Note:  
 Drilled 6-1/4" Hole under 10.5PPG Mud, from 2188' to 2343'. Drilled 6-1/8" Hole from 2343 to 2444' under 10.5PPG Mud.  
 Run 4-1/2" Idner on a 4-1/2" Formation Packer Shoe from 2284 to 2101' and cemented w/35 Bg. Cement, 44.5# per gal. good return of cement at surface. 4-1/2" Liner run on 3-1/2" Brill Pipe, set by Baker Oil Tools and cemented by Well Service Inc.. Packer Drilled out with 8000# using 3-3/4" Bit on 2-3/8" Upset Tubing.

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DATE



COLUMBIA GAS SYSTEMS - PITTSBURGH GROUP COMPANIES

WELL LOG SUMMARY

1 of 1 Sheets  
2097

COMPANY: **The Manufacturers Light & Heat Company**  
 DIV. FIELD: **4 Cameron, W. Va.**  
 WELL NO.: **2097**  
 LOCATION: **T. A. Clark**  
 ACRES: **133** LEASE NO.: **3957** DISTRICT: **Liberty** COUNTY: **Marshall** STATE: **W. Va.**  
 TOPO. MAP: **Quadrangle**

CONTRACTOR: **Lohmann & Johnson Oil Company, Inc.**  
 ADDRESS: **1917 Clark Building, Pittsburgh 22, Pennsylvania**  
 Drilled from **2188** Ft. to **2444** Ft.  
 Type of Rig: **Rotary Drilling Mach.**

COMMENCED (DATE): **11/26/62** Well No.: **2097** COMPLETED (DATE): **12/19/62** TOTAL DEPTH: **2444** FT. DATE PURCHASED: FOR WELL NO.

HOLE SIZE	BIT GAUGE (INCHES)	FROM-TO (FEET)	NO. OF SACKS	TYPE	WEIGHT #/GAL.	MANUFACTURER	TYPE	SETTING DEPTH
13"	13"	0 - 285'	(Not Cemented)	I-S	Unknown	Original	Well	285'
10-3/4"	10-3/4"	0 - 1239'	300	I-S	Unknown	Original	Well	1239'
8"	8"	0 - 2154'	350	I-S	Unknown	Original	Well	2154'
6-1/4"	6-1/4"	0 - 2343'	35	I-S	11.5	Baker	Formation	2343'
6-3/8"	6-3/8"	2343' - 2444'						2444'

TREATMENT	TYPE	SIZE AND/OR AMOUNT	ZONE TREATED	OPEN FLOW MCF/DAY	PERFORMED BY	DATE
(NONE)			From to	Before After		

DATE GAUGED	FORMATION	PAY ZONE	TYPE GAUGE (SPECIFY)	PRESSURE (SPECIFY UNITS)	SIZE (SPECIFY UNITS)	OPEN FLOW (M.C.F./DAY)
4/24/62	Maxton	From 2156 to 2180	Pitot	17.0"	4-1/2"	7,900 MCF 10 M
12/19/62	Maxton & Big Injun	From 2156 to 2444	Pitot	22 PSIG	4-1/2"	13,170 MCF 10 M

DATE TAKEN	FORMATION	MINUTE PRESSURE - PSIG						WELLHEAD PRESSURE - PSIG				
		1	3	5	10	20	30	24 HR.	48 HR.	72 HR.	MAX. PRESS.	TIME
4/24/62	Maxton	(None Taken)						120				
12/19/62	Maxton & Big Injun	(None Taken)						80				

DEPTH MEASUREMENT TAKEN FROM:  Derrick Floor  Ground Other (Specify) \_\_\_\_\_ DIST. TO GROUND: **0** ft. ELEVATION: **1175.0'**  
 LOGGED BY (COMPANY): **Schlumberger Well Survey Corp.** DATE LOGGED: **12 3 62**

REMARKS: **4-1/2" Liner from 2191' to 2284'. Cement Basket @ 2284'. Casing Centralizers at 2270', 2197'. Steel Shoe set at 2191'. run upside down.**

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Attach additional sheets and forward to Production Dept. Pittsburgh General Office  
 Verified by: **Andrew T. Dabson** DIVISION ENGINEER  
 Approved by: **Charles T. Cable** DIVISION SUPERINTENDENT

The Manufacturers Light and Heat Company  
Company

4705100483W  
2097

Division 1  
 Record of well No. 2097 on T. A. Clark Farm Acres  
Cameron Field Liberty District Marshall County W. Va. State  
 Rig Commenced 19 Completed 19  
 Drilling Commenced 10-25-54 19 Completed 12-23-54 19  
 Contractor Union Drilling Co. Address Washington, Pa.  
 Driller's Name Jack Adrian and Luther Cain

CASING AND TUBING RECORD

	Conductor	13"	10"	8 1/4"	7"	6 5/8"	6 3/16"	4"	3"		
Used in Drilr											
Left in well			287	1592	2175						

PACKER RECORD

SHOOTING RECORD

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH		Volume Before Cu. Ft.	Volume After Cu. Ft.
						Top	Bottom		

VOLUME AND PRESSURE

Date	Reading in inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN.					24 Hour R. P.	Max. R. P.	Hours	
						1	5	10	30	60				

TOTAL INITIAL OPEN FLOW Not sufficient gas to test CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Native Coal	535	510	5	All casing measured over threads. Original record shows 284' of 10" left in hole. None found in reconditioning. 287' of 10" new casing run on steel shoe which was set at 285'. Not cemented. 1239' of 8 5/8" new casing run in well and connected to 353' of original pipe by use of a steel die nipple. Run 500 bags cement between 8 and 10". Good return to surface. Mandrel Lead Plug set at 2216' Filled with Cement to 2188' Run 2175' of new 7" casing on a steel shoe which was set at 2155' 225 bags cement pumped between 7 and 8" casing No return. 125 bags cement 7 and 8" filled from surface.
Ferriferous Coal	857	865	8	
Mapletown Coal	1058	1067	9	
Pittsburgh Coal	1148	1157	2	
Maxton Sand	2155	2188	33	
Depth		2188		

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Examined above information and measurements and found to be correct by

Examined and Approved by

Union Drilling Company

Contractor

*[Signature]*

Field Superintendent

NOTE—The above blank must be filled out carefully by the contractor, with a complete and accurate record of the well, and accompany, when presented for payment of the bill for drilling. All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or water was found, the quantity of same, the quality of the sand, and thickness of pay.

03/17/2023



The Manufacturers Light & Heat Company (Cont'd)

Division # 4

Record of Well No. # 2097 on T.A. & G.A. Clark Farm Acres  
 Cameron Field Liberty District Marshall County W.Va. State

Rig Commenced 19 , Completed 19  
 Drilling Commenced 19 , Completed 19  
 Cost per Foot Contractor Address  
 Drillers' Names

BOILER			ENGINE				RIG			
H. P.	No.	Name of Maker	H. P.	No.	Name of Maker	New	Old	Height	Name of Builder	
CONDUCTOR AND CASING USED IN DRILLING										
Conductor	18 inch	10 inch	8 1/2 inch	6 1/2 inch	6 inch	5 1/2 inch	5 1/4 inch	5 inch	4 inch	
CONDUCTOR AND CASING LEFT IN WELL										
Conductor	18 inch	10 inch	8 1/2 inch	6 1/2 inch	6 inch	5 1/2 inch	5 1/4 inch	5 inch	4 inch	3 inch

OIL WELL				GAS WELL						
When Shot	Size of Torpedo	1st Day's Production	Tubing	Rods	Tanks	Size of Packer	Depth Set	Packed with	1st Minute Pressure	Rock Pressure
Initial Open Flow Production			Cubic Feet Per 24 Hours		Shut In Pressure		Cubic Feet Per 24 Hours			

FORMATION	Top			REMARKS
	Bottom	Thickness		
				July 15, 1917 all casing left in well. Well connecting up in 8 1/4" casing and turned into the 2" fuel line and utilized at 2 P.M.
				Jan. 16, 1920 - Completed the drilling deeper Well drilled deeper into Maxom Sand to depth of 2197 ft. Test: 9/10" mercury in 4" opening Shut in test in 4" - 60-75-82-85-87-110# 16 hrs.
				Well drilled deeper ( another record'
Aug. 6, 1945 to Jan. 8, 1946 This well cleaned out by Harry L. Jone and Dally J. Glover and drilled to a depth of 2235 Ft. as follows:				
Maxom Sand	2197	2201		
Slate	2201	2205		
Lime and Slate	2205	2218		
Sand	2218	2235		
Filled back with cement to		2216		
				Got 1 bailer water each 2 hrs. Total Depth. Test 58/10 water 1" or 59692 Cu Ft. Retubed with 4". Packer set 2045 1/2 ft.

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Examined above information and measurements and found to be correct by \_\_\_\_\_ Contractor \_\_\_\_\_ Superintendent of Co.  
 NOTE—The above blank must be filled out carefully by the contractor, with a complete and accurate record of the Well, and accompany, when presented for payment of the bill for drilling.  
 All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or Water was found, the quantity of same, the quality of the sand, and thickness of pay.  
 Make no memoranda of boiler and engine if owned by contractor.





4705100483W

Company **2097**

Division ..... 248 Fourth Ave., Pittsburgh, Penna.  
 Record of Well No. on Farm Acres  
 Field District Township County State  
 Rig Commenced 191 Completed 191  
 Drilling Commenced 191 Completed 191  
 Cost per foot Contractor Address  
 Drillers' Names

BOILER			ENGINE			RIG			
H. P.	No.	Name of Maker	H. P.	No.	Name of Maker	New	Old	Height	Name of Builder

CONDUCTOR AND CASING USED IN DRILLING									
Conductor	13 inch	10 inch	8 1/4 inch	8 inch	6 1/4 inch	6 inch	5 8-16 inch	5 inch	4 inch

CONDUCTOR AND CASING LEFT IN WELL										
Conductor	13 inch	10 inch	8 1/4 inch	8 inch	6 1/4 inch	6 inch	5 8-16 inch	5 inch	4 inch	3 inch

OIL WELL				GAS WELL							
When Shot	Size of Torpedo	1st Day's Production	Tubing	Rods	Tanks	Size of Packer	Depth Set	Packed with	1st Minute's Pressure	Rock Pressure	
FORMATION			Top	Bottom	Thickness	REMARKS					
			1820	1832	12						dark soft
			1832	1850	18						light soft
			1850	1860	10						light soft
			1860	1893	33						light soft
			1893	1963	70						dark soft
			1963	1988	25						light hard
			1988	1996	8						Little gas 2052
			1996	<del>2064</del>	<del>68</del>						big gas 2064
				2064							Well completed 2064

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 Office of Oil and Gas  
 JAN 06 2023  
 WV Department of  
 Environmental Protection

DATE OF  
 OFFICE  
 208-9  
 091 15 1917

Examined above information and measurements and found to be correct by  
*Budley and McWay* Contractor  
 Examined and approved by \_\_\_\_\_ Superintendent of Co.  
 NOTE - The above blank must be filled out carefully by the Contractor, with a complete and accurate record of the Well, and accompany, when presented for payment the bill for drilling.  
 All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or Water was found, the quantity of same, the quality of the sand, and thickness of pay.  
 Make no memoranda of boiler and engine if owned by contractor.

The Manufacturers Light & Heat Company

Division # 4  
 Record of Well No. # 2097 on T.A. & G.A. Clark Farm Acres  
 Cameron Field Liberty District Marshall County W. Va. State  
 Rig Commenced Apr. 3, 19 17 Completed Apr. 11, 19 17  
 Drilling Commenced June 22, 19 17 Completed July 14, 19 17  
 Cost per Foot \$ 1.85 Contractor John Craig Address  
 Drillers' Names G.B. Ehrhart, U.B. Simonas

BOILER			ENGINE				RIG			
H. P.	No.	Name of Maker	H. P.	No.	Name of Maker	New	Old	Height	Name of Builder	
CONDUCTOR AND CASING USED IN DRILLING										
Conductor	13 inch	10 inch	8 1/4 inch	6 1/2 inch	6 1/2 inch	5 3/4 inch	5 1/2 inch	5 inch	4 inch	
15	284	1604								
CONDUCTOR AND CASING LEFT IN WELL										
Conductor	13 inch	10 inch	8 1/4 inch	6 1/2 inch	6 1/2 inch	5 3/4 inch	5 1/2 inch	5 inch	4 inch	
	284	1604								
OIL WELL					GAS WELL					
When Shot	Size of Torpedo	1st Day's Production	Tubing	Rods	Tanks	Size of Packer	Depth Set	Packed with	1st Minute Pressure	Rock Pressure
Initial Open Flow Production			Cubic Feet Per 24 Hours			Shut In Pressure		Cubic Feet Per 24 Hours		
FORMATION			Top	Bottom	Thickness	REMARKS				
Native Coal			535	540						
Ferriferous Coal			857	865						
" Lime			875	1058						
Mapletown Coal			1058	1067						
Slate			1067	1077						
Lime			1077	1093						
Slate			1093	1138						
Lime			1138	1148						
Pittsburg Coal			1148	1157						
Lime and Slate			1157	1214						
Murphy Sand			1214	1277						
Red Rock			1277	1352						
Slate			1352	1370						
Slate			1370	1388						
Sand			1388	1486						
Red Cave			1486	1498						
Little Bunkard			1498	1518						
Slate			1518	1585						
Red Cave			1585	1610						
Slate and Shell			1610	1645						
Big Bunkard			1645	1647						
Slate and Shells			1645	1685						
Lime			1685	1750						
Lime and Slate			1685	1996						
Salt and Sand			1996							
Total Depth			2064			Little gas at 2052 Big Gas at 2064				

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Office of Oil and Gas

JAN 06 2023

WV Department of  
Environmental Protection

Examined above information and measurements and found to be correct by \_\_\_\_\_ Contractor \_\_\_\_\_ Superintendent of Co.  
 NOTE—The above blank must be filled out carefully by the contractor, with a complete and accurate record of the Well, and accompany, when presented for payment of the bill for drilling.  
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 Make no memoranda of boiler and engine if owned by contractor.





4705100483W

WW-2A  
(Rev. 6-14)

1.) Date: 11/28/2022  
2.) Operator's Well Number Victory B 2097  
State County Permit  
3.) API Well No.: 47-051-004830000

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:  
(a) Name James M. Horner  
Address 1048 Clark Hill Road  
New Martinsville, WV 26155  
(b) Name Teresa L. Horner  
Address 1048 Clark Hill Road  
New Martinsville, WV 26155  
(c) Name Delores A. Clark  
Address 1048 Clark Hill Road  
New Martinsville, WV 26155  
6) Inspector Strader Gower  
Address 2525 West Alexander Road  
Valley Grove, WV 26060  
Telephone (304) 993-6188  
5) (a) Coal Operator  
Name Marshall County Coal Resources, Inc.  
Address 46226 National Road  
St. Clairsville, OH 43950  
(b) Coal Owner(s) with Declaration  
Name Consol RCPC, LLC  
Address 1000 Consol Energy Drive  
Canonsburg, PA 15317  
(c) Coal Lessee with Declaration  
Name N/A  
Address \_\_\_\_\_

**TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:**

OR Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

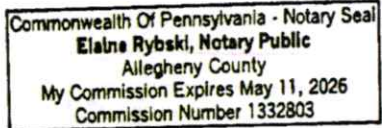
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties by:

- Personal Service (Affidavit attached)
- X         Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Well Operator Columbia Gas Transmission, LLC  
By: Brad Nelson *Brad Nelson* RECEIVED  
Its: Storage Engineer Office of Oil and Gas  
Address: 455 Racetrack Road JAN 06 2023  
Washington, PA 15301  
Telephone: 724-250-0610  
Email: brad\_nelson@tcenergy.com WV Department of  
Environmental Protection

Subscribed and sworn before me this 28 day of November, 2022

Elaine Rybski *Elaine Rybski* Notary Public  
My Commission Expires 5/11/2025  
Oil and Gas Privacy Notice Commonwealth of Pennsylvania  
County of Allegheny



4705100483W

**U.S. Postal Service™**  
**CERTIFIED MAIL® RECEIPT**  
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New Martinsville, WV 26155

**OFFICIAL USE**

Certified Mail Fee \$4.00

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$2.64

Total Postage and Fees \$9.89

Sent To  
 James M. Horner, Teresa L. Horner, Debra A. Clark  
 Street and Apt. No., or PO Box No.  
 1048 Clark Hill Road  
 City, State, ZIP+4®  
 New Martinsville, WV 26155

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 0410 0000 1303 1576

**Certified Mail service provides the following benefits:**

- A receipt (this portion of the Certified Mail label).
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- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service™ for a specified period.

**Important Reminders:**

- You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail® service.
- Certified Mail service is *not* available for international mail.
- Insurance coverage is *not* available for purchase with Certified Mail service. However, the purchase of Certified Mail service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
  - Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, *Domestic Return Receipt*; attach PS Form 3811 to your mailpiece;
  - Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
  - Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
  - Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).

**IMPORTANT: Save this receipt for your records.**

PS Form 3800, April 2015 (Reverse) PSN 7530-02-000-9047

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Office of Oil and Gas

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WV Department of  
Environmental Protection

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:  
 James M. Horner  
 Teresa L. Horner  
 Debra A. Clark  
 1048 Clark Hill Road  
 New Martinsville, WV 26155

2. Article Number (Transfer from service label)  
 7022 0410 0000 1303 1576

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 Agent  
 Addressee

B. Received by (Printed Name) C. Date of Delivery  
 Moncomby 12-17-22

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type  
 Adult Signature  Priority Mail Express®  
 Adult Signature Restricted Delivery  Registered Mail™  
 Certified Mail®  Registered Mail Restricted Delivery  
 Certified Mail Restricted Delivery  Signature Confirmation™  
 Collect on Delivery  Signature Confirmation™  
 Collect on Delivery Restricted Delivery  Restricted Delivery

USPS TRACKING#

9590 9402 6648 1060 3610 43

First-Class Mail  
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USPS  
Permit No. G-10

United States  
Postal Service

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Brad Nelson  
216 Cedarville Street  
Apt. 2  
Pittsburgh, PA 15224

03/17/2023

4705100483

**Columbia Gas Transmission, LLC**

1700 MacCorkle Ave., SE, Charleston, WV, USA 25325



December 14, 2022

James M. Horner  
Teresa L. Horner  
Delores A. Clark  
1048 Clark Hill Road  
New Martinsville, WV 26155

TC Energy (Columbia Gas Transmission, LLC) is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to clean out an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Victory B 2097 (API # 47-051-00483-00-00).

As part of the well permitting process, TC Energy (Columbia), the well operator, is required to provide a copy of all applicable permit application forms for your review and record retention.

If you have questions, feel free to call.

Regards,

A handwritten signature in blue ink 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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WV Department of  
Environmental Protection



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Canonsburg, PA 15317

**OFFICIAL USE**

Certified Mail Fee	\$4.00	0024 07 Postmark Here 12/15/2022 12/15/2022
Extra Services & Fees (check box, add fee as appropriate)	\$7.85	
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$9.55	
<b>Total Postage and Fees</b>	<b>\$16.80</b>	

Sent To  
**CONSOL RCPC, LLC**  
 Street and Apt. No., or PO Box No.  
**1000 Consol Energy Drive**  
 City, State, ZIP+4®  
**Canonsburg, PA 15317**

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for instructions

**Certified Mail service provides the following benefits:**

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for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.

- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).

■ To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail item at a Post Office™ for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mailpiece, apply appropriate postage, and deposit the mailpiece.

**IMPORTANT: Save this receipt for your records.**

PS Form 3800, April 2015 (Reverse) PSN 7530-02-000-9047

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 Office of Oil and Gas  
 JAN 06 2023  
 WV Department of  
 Environmental Protection

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>■ Complete items 1, 2, and 3.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul> <p>1. Article Addressed to:</p> <p><b>CONSOL RCPC, LLC</b>  <b>1000 Consol Energy Drive</b>  <b>Canonsburg, PA 15317</b></p> <p>9590 9402 6648 1060 3610 50</p> <p>2. Article Number (Transfer from service label)  <b>7022 0410 0000 1303 1569</b></p> <p>PS Form 3811, July 2020 PSN 7530-02-000-9053</p>	<p>A. Signature</p> <p><input checked="" type="checkbox"/> Agent  <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name)</p> <p>C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes      If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature  <input type="checkbox"/> Adult Signature Restricted Delivery  <input type="checkbox"/> Certified Mail®  <input type="checkbox"/> Certified Mail Restricted Delivery  <input type="checkbox"/> Collect on Delivery  <input type="checkbox"/> Collect on Delivery Restricted Delivery  <input type="checkbox"/> Insured Mail  <input type="checkbox"/> Registered Mail™  <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Signature Confirmation™ Restricted Delivery</p> <p>Priority Mail Express®      Registered Mail™      Registered Mail Restricted Delivery      Signature Confirmation™      Restricted Delivery</p> <p>Domestic Return Receipt</p>

USPS TRACKING #

PITTSBURGH PA 150

15 DEC 2022 PM 6

9590 9402 6648 1060 3610 50

United States Postal Service

\* Sender: Please print your name, address, and ZIP+4® in this box\*

**Brad Nelson**  
**216 Cedarville Street**  
**Apt. 2**  
**Pittsburgh, PA 15224**

First-Class Mail  
 Postage & Fees Paid  
 USPS  
 Permit No. G-10

03/17/2023

**Columbia Gas Transmission, LLC**

1700 MacCorkle Ave., SE, Charleston, WV, USA 25325



December 14, 2022

Consol RCPC, LLC  
 1000 Consol Energy Drive  
 Canonsburg, PA 15317

TC Energy (Columbia Gas Transmission, LLC), an underground natural gas storage operator, is planning to work over or abandon the following storage wells in Wetzel County, WV and Marshall County, WV. Records indicate that Consol RCPC, LLC owns the coal on subject properties.

- Victory A 3525 (API # 47-103-00153-00-00) – Stimulation
- Victory B 2097 (API # 47-051-00483-00-00) – Stimulation
- Victory B 2388 (API # 47-051-00394-00-00) – Plug and Abandon
- Victory B 2449 (API # 47-051-00164-00-00) – Plug and Abandon
- Victory B 4552 (API # 47-051-00361-00-00) – Plug and Abandon

To comply with WV DEP Code, TC Energy (Columbia) is required to provide the coal owner the following documents as notification and for processing.

- WV DEP form WW-2A (Notice and Application for a Well Work Permit) if Stimulation
- WV DEP form WW-2B (Well Work Permit Application) if Stimulation
- WV DEP form WW-4A (Notice of Application to Plug and Abandon a Well) – if P&A
- WV DEP form WW-4B (Application for a Permit to Plug and Abandon) – if P&A
- WV DEP form WW-7 (if P&A) or copy of survey plat (if Stimulation)
- WV DEP form WW-9 (Fluids/Cuttings Disposal & Reclamation Plan)

If you have questions, feel free to call.

Regards,

A handwritten signature in blue ink that appears to read "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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WV Department of  
 Environmental Protection





4705100483w

**Columbia Gas Transmission, LLC**

1700 MacCorkle Ave., SE, Charleston, WV, USA 25325



December 14, 2022

Marshall County Coal Resources, Inc.  
46226 National Road  
St. Clairsville, OH 43950

TC Energy (Columbia Gas Transmission, LLC), an underground natural gas storage operator, is planning to work over or abandon the following storage wells in Marshall County, WV. Records indicate that Marshall County Coal Resources, Inc. is coal operator and or lessee.

- **Victory B 2097** (API # 47-051-00483-00-00) – Stimulation
- Victory B 2388 (API # 47-051-00394-00-00) – Plug and Abandon
- Victory B 2449 (API # 47-051-00164-00-00) – Plug and Abandon
- Victory B 4552 (API # 47-051-00361-00-00) – Plug and Abandon

To comply with WV DEP Code, TC Energy (Columbia) is required to provide the coal owner the following documents as notification and for processing.

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- WV DEP form WW-9 (Fluids/Cuttings Disposal & Reclamation Plan)

If you have questions, feel free to call.

Regards,

A handwritten signature in blue ink 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





WW-2A1  
(Rev. 1/11)

Operator's Well Number Victory B 2097

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6, Section 8(d)  
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Ola M. Clark (widow)	Columbia Gas Transmission Corporation		DB 529/116
Mary D. Garrett (widow)	Columbia Gas Transmission Corporation		DB 529/130

**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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JAN 06 2023

WV Department of  
Environmental Protection

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:  
By: Its:

Columbia Gas Transmission, LLC

Brad Nelson *Brad Nelson*

Storage Engineer

03/17/2023

WW-9  
(5/16)

4705100483W

API Number 47 - 051 - 004830000  
Operator's Well No. Victory B 2097

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

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Office of Oil and Gas  
JAN 06 2023

Operator Name Columbia Gas Transmission, LLC OP Code 307032 WV Department of Environmental Protection  
Watershed (HUC 10) Fish Creek Quadrangle Littleton, WV

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No   
Will a pit be used? Yes  No

If so, please describe anticipated pit waste: \_\_\_\_\_

Will a synthetic liner be used in the pit? Yes  No  If so, what ml? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number 34-009-23821, 34-009-23823, 34-009-23824, 34-105-23619 )
- Reuse (at API Number \_\_\_\_\_)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Appalachian Water Services, Station W1 Ronco WTP, Masontown, PA - Permit 2608201)

Will closed loop system be used? If so, describe: Yes - steel piping connecting wellhead and tank(s).

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Fresh water

-If oil based, what type? Synthetic, petroleum, etc.

Additives to be used in drilling medium? NaCl, biocide, polymer, starch, calcium carbonate, surfactant (CTCO), HCl acid (stimulation)

Drill cuttings disposal method? Leave in pit, landfill, removed off site, etc. N/A

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) \_\_\_\_\_

-Landfill or offsite name/permit number? If needed: Rumpke Beech Hollow Landfill - Wellston, OH

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Brad Nelson*  
 Company Official (Typed Name) Brad Nelson  
 Company Official Title Storage Engineer

Commonwealth Of Pennsylvania - Notary Seal
Elaine Rybski, Notary Public
Allegheny County
My Commission Expires May 11, 2025
Commission Number 1332803

Subscribed and sworn before me this 28 day of November, 2022

*Elaine Rybski* Elaine Rybski Notary Public

My commission expires 5/11/2025 Commonwealth of Pennsylvania  
County of Allegheny

03/17/2023



Proposed Revegetation Treatment: Acres Disturbed <1.0 Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 7

Fertilizer type 10-10-10

Fertilizer amount 600 lbs/acre

Mulch 2 Tons/acre

**Seed Mixtures**

**Temporary**

**Permanent**

Seed Type lbs/acre

Seed Type lbs/acre

Annual Rye 40

Orchard Grass and/or Tall Fescue 29

Birdsfoot trefoil (empire) 9

Annual Rye 12

**For wetland areas: Annual Rye (40 lbs/acre) until indigenous plants re-establish cover.**

**Attach:**

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Shader Gower*

Comments: \_\_\_\_\_

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Title: Inspector Oil & Gas

Date: 12/14/2022

Field Reviewed? () Yes () No

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
GROUNDWATER PROTECTION PLAN

Operator Name: Columbia Gas Transmission, LLC  
Watershed (HUC 10): Fish Creek Quad: Littleton, WV  
Farm Name: CLARK, BLAIR

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

No fluids planned to be discharged.  
No fertilizer will be stored on site. Small quantities of fuel, oil, and lubrications will be stored on site, but located within secondary containment.  
Accidental release from well fluids and spills from construction equipment are the only sources of contaminate to groundwater.  
All accumulated fluids to be hauled off site to UIC disposal facility.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

All construction and well servicing equipment will be monitored and inspected daily for leaks. Fluid pumping well service equipment will have secondary containment under all leak paths. Spill kits will be on site.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Fish Creek is approximately 2500' to the N.  
The closest Well Head Protection Area is 5.6 mi. (WV3305202 - Hundred Littleton PSD).

4. Summarize all activities at your facility that are already regulated for groundwater protection.

N/A

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5. Discuss any existing groundwater quality data for your facility or an adjacent property.



N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

During routine tailgate meetings groundwater protection will be a topic of discussion.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

No fertilizer will be stored on site. Small quantities of fuel, oil, and lubrications will be stored on site, but located within secondary containment. Construction and well servicing equipment will be monitored and inspected daily for leaks or spills.

Signature: Strader Gower

Date: 12/14/2022

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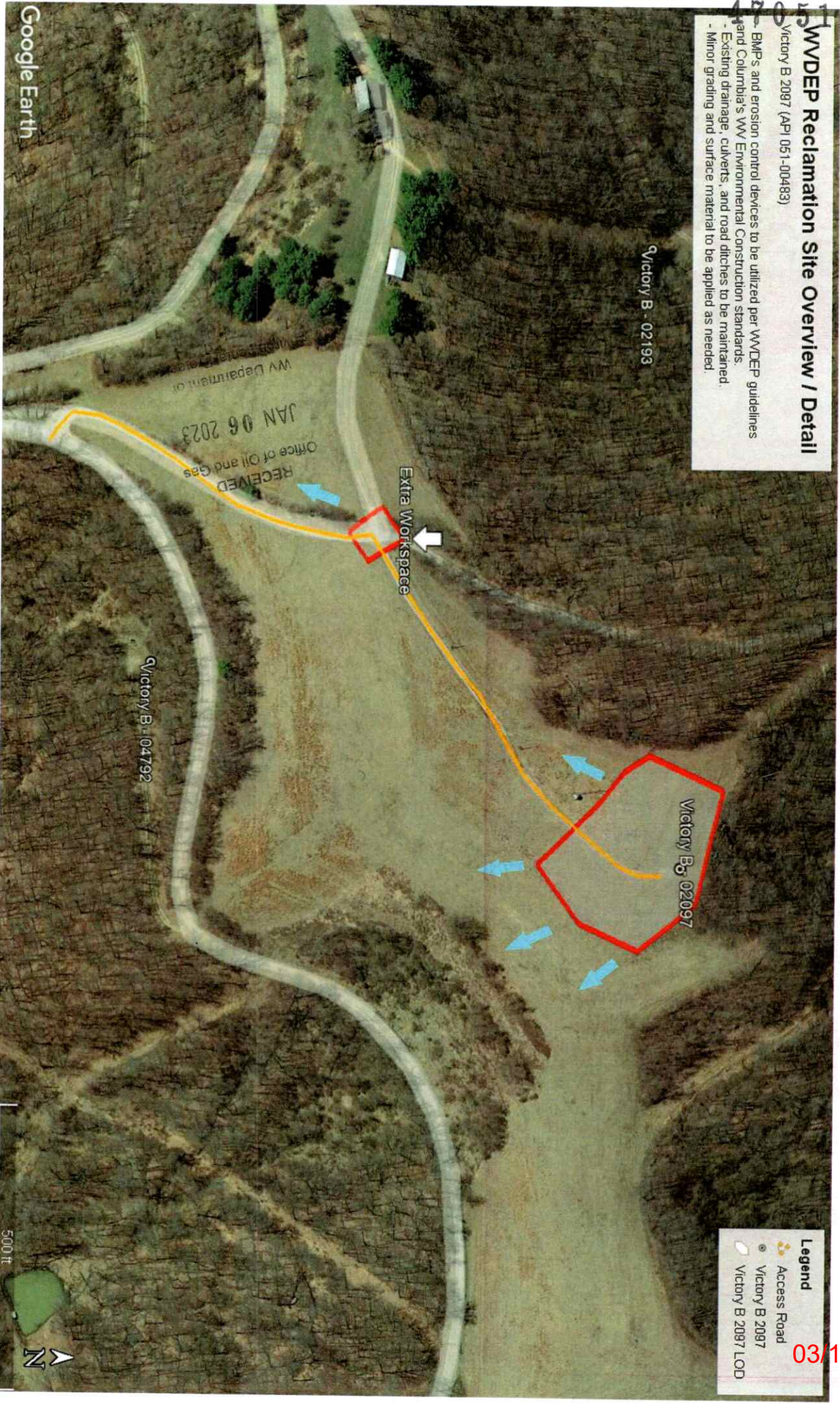
# WVDEP Reclamation Site Overview / Detail

Victory B 2087 (API 051-00483)

- BMPs and erosion control devices to be utilized per WVDEP guidelines and Columbia's WV Environmental Construction standards.
- Existing drainage, culverts, and road ditches to be maintained.
- Minor grading and surface material to be applied as needed.

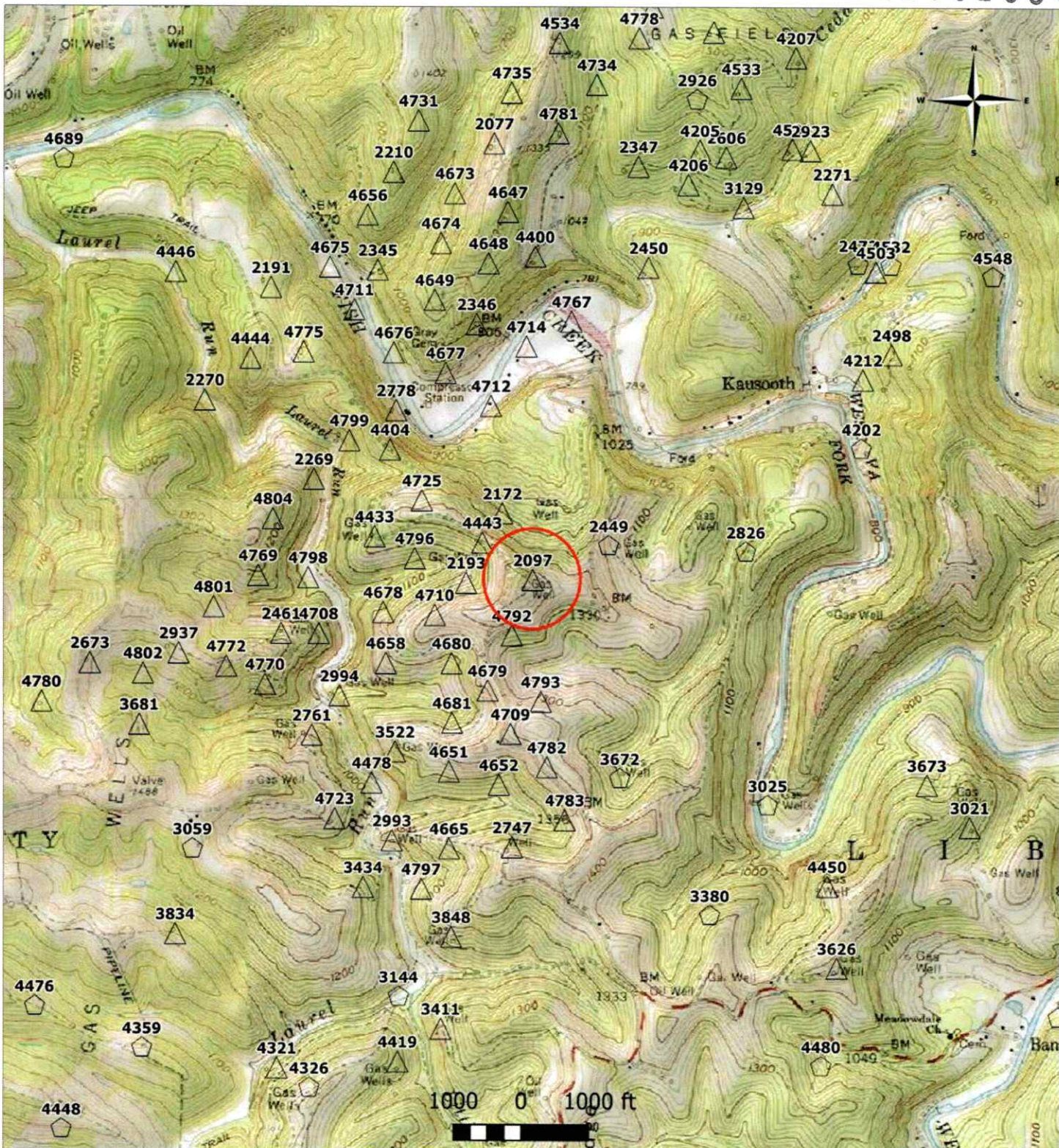
**Legend**

- Access Road
- Victory B 2087
- Victory B 2087 LOD



Google Earth





**Legend**

**Storage Well Classification**

- △ ACTIVE
- ⬠ OBSERVATION
- ◇ SPECIAL



Well of Interest



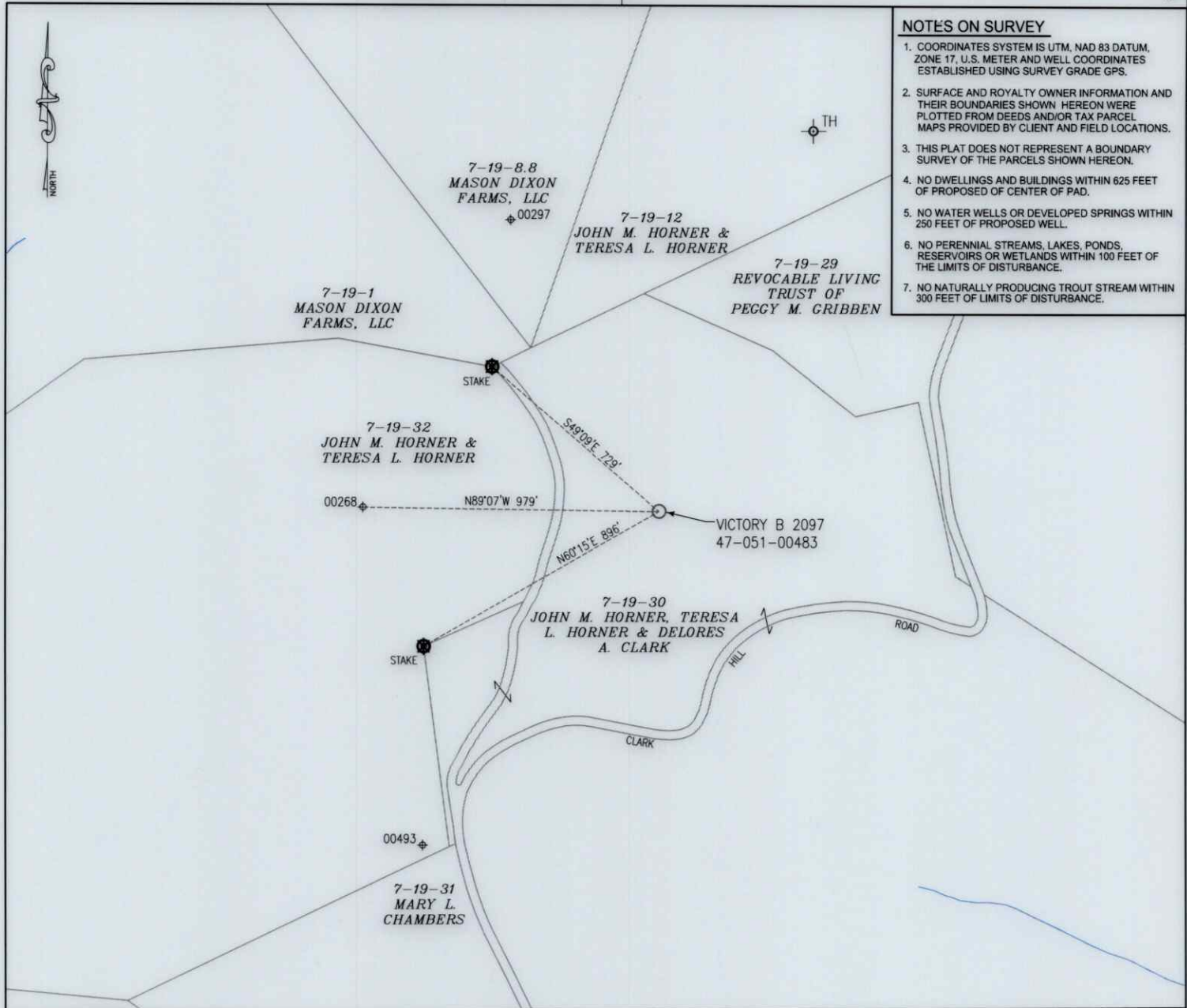
**Victory B Storage Field** JAN 06 2023  
**Storage Well 2097**  
**Marshall County, WV** WV Department of Environmental Protection

USGS Topo Map (Scale 2000 Ft/ In) to be included with Project Determination & Information Forms (PDIF)



**NOTES ON SURVEY**

- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. METER AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- 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.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- 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*



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



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'

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

03/17/2023



WW-2B1  
(5-12)

N/A

Well No. Victory B 2097

West Virginia Department of Environmental Protection  
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name \_\_\_\_\_  
Sampling Contractor \_\_\_\_\_

Well Operator Not applicable - existing underground natural gas storage well.  
Address \_\_\_\_\_

Telephone \_\_\_\_\_

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

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WV Department of  
Environmental Protection

03/17/2023



Kennedy, James P <james.p.kennedy@wv.gov>

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## Re-work permit issued 4705100483

1 message

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**Kennedy, James P** <james.p.kennedy@wv.gov>

Fri, Mar 17, 2023 at 12:10 PM

To: Brad Nelson <brad\_nelson@tcenergy.com>, ebuzzard@marshallcountywv.org, Strader C Gower <strader.c.gower@wv.gov>

To whom it may concern, a rework permit has been issued for 4705100483.

James Kennedy

WVDEP OOG

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 **4705100483.pdf**  
7402K

03/17/2023