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west virginia department of environmental protection

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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)

Tuesday, May 9, 2023

WELL WORK PLUGGING PERMIT  
Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC  
1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for 7097  
47-039-01259-00-00

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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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: 7097  
Farm Name: JARRETT, W. S.  
U.S. WELL NUMBER: 47-039-01259-00-00  
Vertical Plugging  
Date Issued: 5/9/2023

## 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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. 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.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. 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.

1) Date 04.03, 2023  
 2) Operator's  
 Well No. Coco B 7097  
 3) API Well No. 47-039 - 01259

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil  / Gas  / Liquid injection  / Waste disposal  /  
 (If "Gas, Production  or Underground storage  ) Deep  / Shallow

5) Location: Elevation 831.8 Watershed Pinch Creek  
 District Elk County Kanawha Quadrangle Blue Creek, WV

6) Well Operator Columbia Gas Transmission LLC 7) Designated Agent Maria Medvedeva  
 Address 1700 MacCorklle SE Address 1700 MacCorklle SE  
Charleston, WV 25314 Charleston, WV 25314

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
 Name Terry Urban Name Next Lvl Energy, LLC  
 Address P.O. Box 1207 Address 736 W Ingomar Rd, Units 268  
Clendenin, WV 25045 Ingomar, PA 15127-6613

10) Work Order: The work order for the manner of plugging this well is as follows:

Refer to enclosed:

- 1) Well job plan.
- 2) Prior to P&A wellbore schematic.
- 3) Proposed P&A wellbore schematic.

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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector  Date 4-5-23

05/11/2023

<b>WELL JOB PLAN</b>		<b>STS Well Engineering &amp; Technology</b>		PAGE 1	DATE JOB PREPARED: 7/14/2022		
<b>Objective: Plug and Abandon</b>				LAST PROFILE UPDATE:			
TITLE: Plug and Abandon				WORK TYPE: MOD			
FIELD: Coco B		WELL ID: 7097		LEASE #: 49098			
STATE: WV		SHL (Lat/ Long) 38.406578 -81.478243		API: 47-039-01259-0000			
DIST/TWP: Elk		BHL (Lat/Long) 38.406578 -81.478243		CNTY: Kanawha			
<b>EXISTING TUBULAR CONFIGURATION</b>		<b>OD (inches)</b>	<b>WEIGHT (PPF)</b>	<b>DEPTH (ft)</b>			
				<b>GRADE</b>	<b>THREAD</b>		
				<b>TOP</b>	<b>BOTTOM</b>		
Conductor							
Surface		7	20	0	1602		
Intermediate on Midget		5 1/2	17	0	5072		
Packer							
Production		3 1/2	9.2	0	5230		
FORMATION: refer to MISC INFORMATION section				WELLLINE #: X52BW7097			
PAY: 5230				ELEVATIONS			
TD: 5230				TMG:			
PBTD:				KB-RF:			
KB-GL:				GL: 831			
CSG				DEPTH			
				WELLBORE SCHEMATIC			
* Type A3 Camco SSSV ran 5130' & Camco type G slip stop, may have removed in 2000' or pushed to bttm				Refer to "Wellbore Diagram" tab			
* 3" x 5" x 32' Combination wall and anchor packer							
Perforations No record of perforations							
Wellhead API 3k, 3-1/2" flowstring x 5-1/2" support string, 3-1/2" 8rd upset connection							
<b>D.H. EQUIPMENT</b>		<b>TYPE</b>				<b>DEPTH (ft)</b>	
PACKER INFO: Upper							
Lower							
NIPPLE PROFILE INFO: Upper							
Lower							
SSSV INFO:							
<b>CEMENT INFO</b>				<b>Calc TOC (ft)</b>			
7		No record		-			
5 1/2		Ran 48 bags Aquagel and 5 bales Fibertex, circulation around the 7" hole		-			
3 1/2		Cemented with 206 sacks		835			
Based on 2018 RAL interpretation there is good cement from 5190' - 5180', 5119' - 4440', then partial to 3190', partial 2930' - 2250', partial 1746' - 1440' and good cement 1106' - 884' (top logged interval).							
<b>MISC INFORMATION</b>							
REFER TO WELL SUMMARY RPT, WELLBORE DIAGRAM, ELOG, ETC. (see spreadsheet tabs below)							
<b>Kill Fluid Calculation</b> <span style="float: right;">* Note that kill fluid calculation tabs are hidden</span>							
Maximum calculated bottom-hole pressure (for reference only):		2074	psig	* input			
Maximum storage field surface pressure (MAOP):		1800	psig	* input			
Well TD:		5230	ft TVD	* input			
Top of storage zone:		5138	ft TVD	* input			
Calculated maximum BH pressure at top of zone:		2056	psig	* output Kill Fluid (TOZ)			
Kill fluid density at top of zone @: 200		8.45	ppg	* output Kill Fluid (TOZ)			
Proposed depth of BP (N/A):		5138	ft TVD	* input			
Calculated maximum BH pressure at depth of BP:		2056	psig	* output Kill Fluid (BP)			
Kill fluid density at depth of BP @: 200		8.45	ppg	* output Kill Fluid (BP)			
Required minimum kill fluid density (Oriskany):		8.5	ppg	* greater of the two			
Current AOF:		32,343 MCF/D					
Top historical AOF:		35,854 MCF/D					
Last MVRT:		06/28/18 Baker HRVRT showed external metal loss, max depth among all metal loss features of 37% at 4721'. Max depth survey 5107.7'.					
CBL:		06/28/18 ran a RAL, stuck at 5127', max reached 5221'. If SSSV wasn't removed in 2000 as per well notes, it may have fallen to bottom. Good cmt 5190' - 5180', 5119' - 4440', partial to 3190', partial 2930' - 2250', partial 1746' - 1440', good 1106' - 884' (top logged). Calc TOC 835'.					
PROPOSED YEAR: 2023		ERCB PERMIT REQD: YES ___ NO ___ X ___		(Internal) PDS Required: YES ___ NO ___			
PREPARED BY: Maria Medvedeva		DT. APPLIED: ISSUED:		APPROVED: Brent Criser			
REVIEWED BY: James Amos		PREP DATE: 7/14/2022					

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<b>WELL JOB PLAN</b>		<b>STS Well Engineering &amp; Technology</b>		PAGE 2	DATE JOB PREPARED: 7/1/2022
Objective: Plug and Abandon				LAST PROFILE UPDATE:	
TITLE: Plug and Abandon			WORK TYPE: MOD		
FIELD: Coco B	WELL: 7097				
STAT: WV	SHL (Lat/Long):	38.406578 -81.478243	API: 47-039-01259-0000		
TWP: Elk	BHL (Lat/Long):	38.406578 -81.478243	CNTY: Kanawha		

**PROCEDURE**

**- NOTE: Cement used will be Class A, slurry weight 15.6ppg, slurry yield 1.18 cuft/sk or Class L, slurry weight 15.6ppg, slurry yield 1.14 cuft/sk, as per the approved WVDEP Variance Order No.2022-13. All spacers will be 6% Bentonite gel.**  
**- Camco SSSV installed in 1989 in 3-1/2" at 5130', inconclusive records to suggest it was either removed or slid down wellbore.**  
**- Historic shallow depth obstructions (39' and 100'). 2018 RAL tool became stuck at 5127 with max reached depth of 5221'. Gyro Survey tools RIH to max 5180' in 2021.**

- 1 Obtain State well work permit, EM&CP, pipeline crossing evaluation, call before you dig, etc. Prepare site specific SPCC.
- 2 Notify landowner.
- 3 Obtain General Work Permit and Wellsite Review & Turnover Form from Operations.
- 4 Notify Reservoir Engineering & Geosciences (REG) of intent to take well out of service.
- 5 Notify environmental inspector prior to beginning work. If required, notify State/Federal regulatory agencies prior to beginning work.
- 6 Disconnect well line.
- 7 Prepare access road and well site. Install ECD's per EM&CP.
- 8 Service all wellhead valves.
- 9 Document and report to WE&T the initial casing and annular pressures.
- 10 Blow down all annuli, replace fittings as needed, and leave annuli open to atmosphere for monitoring.
- 11 Kill well with viscosified fluid. Spearhead 10 bbl LCM pill ahead.
- 12 Load / top 3-1/2" x 5-1/2", 5-1/2" x 7" annuli with kill fluid. Fill remaining annuli with FW. Document volumes. Monitor well to ensure fluid level is static.
- 13 Dig around base of wellhead to uncover casing tops and remove cement if present.
- 14 If annular barrier is not present, fabricate 5x7 annular surface barrier with two 2" annular outlets.
- 15 Plumb both the 3x5 and 5x7 annuli to FB tanks.
- 16 MIRU service rig.
- 17 Stack a second 3-1/8" 5K gate valve on top of the flow cross and NU 3-1/8" manual BOPE (pipe + pipe).
- 18 Function and pressure test BOPE to low (250 psig) and high (2500 psig).
- 19 Obtain 3-1/2" CBL from 1000' to surface. Keep hole full. Provide digital copy to WE&T engineer.  
*Note: 2018 RAL top logged interval is 884', calculated volumetric TOC is anticipated at 835'.*
- 20 TIH with 2-1/16" CS Hydril workstring with cut-lipshoe and attempt to wash / cleanout to TD. Do not over-torque drill string.  
*Note: a Camco SSSV was installed in 1989 at 5130'. There is no record it was removed, except a database note stating it was removed in 2000'.  
An observation that might support that the SSSV was removed is loggers TD of 5221' on a 2018 CBL.*
- 21 Pump balanced cement plug from TD to 5050'.
- 22 POOH to above cement, reverse circulate to clean tubulars, pull 10 joints, close pipe rams, and WOC minimum 8 hrs.
- 23 RIH and tag cement. If cement top has fallen, spot a second balanced cement plug.
- 24 Install 3-1/2" CIDBP as close as feasible above cement plug.
- 25 Top off 3-1/2" with kill fluid and perform 500 psig pressure test to verify integrity of BP.
- 26 Perforate through both the 3" and 5" casings above BP. Attempt to establish circulation or injection. Consult with WE&T engineer to confirm procedure.  
*Note: Marcellus / Brown Shales are exposed behind 5-1/2" csg. Native, or possibly storage gas, is likely present behind 5-1/2" csg. closely monitor well for any kick signs.*
- 27A If circulation to surface established:
  - > Circulate kill weight fluid until good kill density fluid is returned.
  - > RIH with sliding-sleeve style cement retainer on work string.
  - > Set retainer above perms.
  - > Establish circulation.
  - > Squeeze cement behind 5-1/2" casing with pre-determined cement volume that occupies no more annular volume than that required to place top of cement at depth of cement top behind the 3-1/2" tbg.
  - > Disengage from retainer, reverse circulate to clean, and TOO. H.
  - > WOC and obtain CBL.
  - > Consult with WET engineer on results and next procedural steps.
- 27B If no circulation to surface but injection established:
  - > RIH with sliding-sleeve style cement retainer on work string.
  - > Set retainer above perms.
  - > Squeeze cement behind 5-1/2" casing with pre-determined cement volume that occupies no more annular volume than that required to place top of cement at depth of cement top behind the 3-1/2" tbg.
  - > Disengage from retainer, reverse circulate to clean, and TOO. H.
  - > WOC and obtain CBL.
  - > Consult with WET engineer on results and next procedural steps.
- 27C If circulation / injection is not established:
  - > Perforate ~300' higher, perform circulation/injection test, and repeat Steps 27A / 27B / 27C. Repeat if necessary until reaching depth of cement top behind the 3-1/2" tbg.

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Environmental Protection

PREPARED BY: Maria Medvedeva	REVIEWED BY: James Amos	APPROVED: Brent Criser
PREP DATE: 7/14/2022		

*Handwritten signature and date: 4-5-23*

<b>WELL JOB PLAN</b>		<b>STS Well Engineering &amp; Technology</b>		PAGE 3	DATE JOB PREPARED: 7/1/2022
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DIST/TWP: Elk	BHL (Lat/Long): 38.406578 -81.478243		CNTY: Kanawha		

**PROCEDURE (continued)**



28 Install balanced cement plug from PBTD to depth of cement top behind the 3-1/2" tbg.

**Note that if a verifiable annular cement barrier was NOT installed behind the 5-1/2" csg below the 7" casing shoe in Step 27 above, annular well control may be compromised. Monitor annuli closely for potential flow.**

29 Perforate with Baker with sufficient charges to penetrate the 3-1/2", 5-1/2", and 7" casings at ~1500'.

30 Perform injection test. If circulation to surface behind 7" csg is established, install retainer above perms and cement to surface. If no circulation but injection established, install retainer and squeeze cement. If neither circulation or injection established, re-perforate ~500' shallower and repeat. Do not perforate / squeeze above depth of cement top behind the 3-1/2" tbg. Also note that all perforations must be covered with cement plug.

31 Release all annular pressure.

32 Top off all annuli with fluid.

**\* Note that the following Steps assume there's no pressure inside the 3-1/2" tbg and that there's no annular pressure on either the 3-1/2" x 5-1/2" or 5-1/2" x 7" annuli. If pressure exists then consult with WET engineer to discuss need to NU BOPs on the 5-1/2" csg.**

32 ND BOPE and wellhead components. Prep 3-1/2" and 5-1/2" csgs for pulling. Prep 7" csg to accommodate choke spool and 7" annular BOP.

33 Wireline freepoint and cut / pull all free 3-1/2" tubing that is free.

34 Wireline freepoint and cut / pull all free 5-1/2" casing that is free.

35 If 7" csg wasn't squeeze cemented to surface in Steps 29 - 30, perforate 7" above tbg/csg stubs and attempt to squeeze cement to surface. If unsuccessful re-perforate shallower in ~200' intervals and repeat. Note that all perms must be covered with a cement plug

36 Install cement plugs from PBTD to surface.

37 ND BOPE.

38 Grout all annuli as deep as possible.

39 RDMO service rig.

40 Erect monument per state regulations. Reclaim location and lease road.

41 P&A complete.

42 Notify REG / WE&T that well is back in-service.

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PREPARED BY: Maria Medvedeva	REVIEWED BY: James Amos	APPROVED: Brent Criser
PREP DATE: 7/14/2022		

*James Amos*  
4-5-23

4703901259P

Well No. 7097 Permit No. 47-039-01259

Budget No. 303 Work Order No. 1697

Farm WS Jarrett #3 Lease No. 79098

Division Southwest Region Acres 851.5

County Kanawha State WV

Township/District EIK

Sect-Lot  
Map Sq. 70-63 Map No. \_\_\_\_\_

Quad. 15'  7 1/2'

Latitude \_\_\_\_\_ ft. S of \_\_\_\_\_ N

Longitude \_\_\_\_\_ ft. W of \_\_\_\_\_ E

On waters of \_\_\_\_\_

Coal Owner \_\_\_\_\_

Coal Operator \_\_\_\_\_

Surface Owner \_\_\_\_\_

New Lease  Old Lease

Location Made by \_\_\_\_\_ Date \_\_\_\_\_

Notebook \_\_\_\_\_ Page \_\_\_\_\_

Elevation \_\_\_\_\_ Indicate Method \_\_\_\_\_

Field Coco B Prod  Stg

Classification Active

1

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~ not to scale ~

**COCO B 7097**

**Prior to P&A**

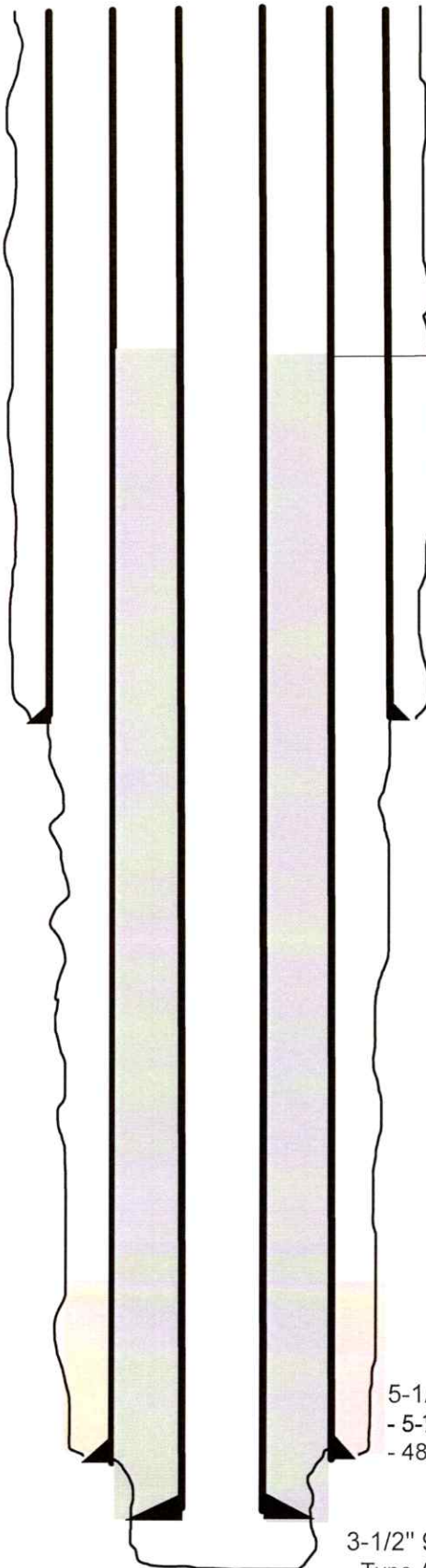
(as of 07/06/2022)

Sea Level @ 831 ft

\* No fresh water shows reported by driller

Salt Sand 998' - 1373'
Maxon Sand 1475' - 1518'
Little Lime 1521' - 1558'
Big Lime 1582' - 1622'
Loyalhanna 1625' - 1731'
Injun Sand 1760' - 1775'
Weir SS 1820' - 1987' Black oil 1890 - 1892' Green oil 1922 - 1990'
Berea SS 2100'-2102'

Brown Shale 3265' - 3360'
Slate and Shells 3360' - 3385'
Lime 3385' - 3695'
Brown Shale 3695' - 3716'
Lime 3716' - 3780'
Slate and Shells 3780' - 4594'
Brown Shale 4594' - 5034'
Possible Marcellus 5006' - 5022'
Onodaga Lime 5034' - 5138'
Oriskany 5138'-5200' (gas storage)
Lime 5200' - 5207'
Sand 5207' - 5228'
Lime 5228' - 5230'



Calculated TOC 835'  
Per 06.28.18 RAL - good cement from 5190' - 5180', 5119' - 4440', then partial to 3190', partial 2930' - 2250', partial 1746' - 1440', good 1106' - 884' (top logged interval).

7" 20# csg @ 1602'  
No record of cement

Light grey fill indicates originally placed cement

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5-1/2" 17# casing @ 5072'  
- 5-1/2" x 7" Midget packer set 5045' SLM  
- 48 bags Aquagel and 5 bales Fibertex

3-1/2" 9.2# casing @ 5195'  
- Type A3 Camco SSSV and Camco type G slip stop ran 5130', maybe removed in 2000' or pushed to bttm  
- 3" x 5" x 32' Combination wall and anchor packer  
- Cemented with 206 sx.

TD 5230'

05/11/2023



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~ not to scale ~

# COCO B 7097

## Proposed P&A

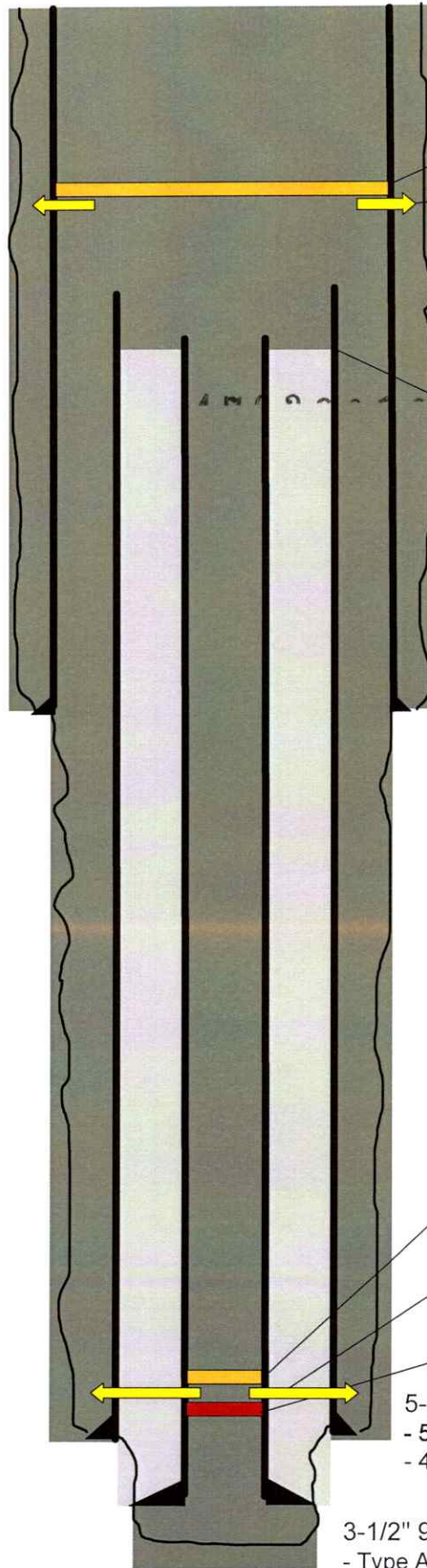
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Berea SS 2100'-2102'

Brown Shale 3265' - 3360'
Slate and Shells 3360' - 3385'
Lime 3385' - 3695'
Brown Shale 3695' - 3716'
Lime 3716' - 3780'
Slate and Shells 3780' - 4594'
Brown Shale 4594' - 5034'
Possible Marcellus 5006' - 5022'
Onodaga Lime 5034' - 5138'
Oriskany 5138'-5200' (gas storage)
Lime 5200' - 5207'
Sand 5207' - 5228'
Lime 5228' - 5230'



Cement Retainer

Perf and squeeze cement behind 7"

Calculated TOC 835'

Per 06.28.18 RAL - good cement from 5190' - 5180', 5119' - 4440', then partial to 3190', partial 2930' - 2250', partial 1746' - 1440', good 1106' - 884' (top logged interval).

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7" 20# csg @ 1602' WV Department of Environmental Protection  
No record of cement

Light grey fill indicates originally placed cement

Dark grey fill indicates cement placed during the P&A

Cement Retainer

Perf and squeeze cement behind 5-1/2", in ~300-500' segments if well dictates

Bridge plug at 5050'

5-1/2" 17# casing @ 5072'  
- 5-1/2" x 7" Midget packer set 5045' SLM  
- 48 bags Aquagel and 5 bales Fibertex

3-1/2" 9.2# casing @ 5195'  
- Type A3 Camco SSSV and Camco type G slip stop ran 5130', maybe removed in 2000' or pushed to btm  
- 3" x 5" x 32' Combination wall and anchor packer  
- Cemented with 206 sx.

TD 5230'

05/11/2023

4708901259P

Contractor \_\_\_\_\_  
 Address \_\_\_\_\_  
 Telephone \_\_\_\_\_  
 Contractor's Representative \_\_\_\_\_  
 Address \_\_\_\_\_  
 Telephone \_\_\_\_\_  
 Company Representative WH Foraker  
 Address PO Box 1273 Charleston WV 25325  
 Telephone (304) 357-3034

Road Started \_\_\_\_\_ 19 \_\_\_\_\_  
 Drilling Started 9/26 19 89  
 Drilling Completed 11/10 19 89  
 Well Shut In \_\_\_\_\_ 19 \_\_\_\_\_  
 Drill Deeper Started \_\_\_\_\_ 19 \_\_\_\_\_  
 Drill Deeper Completed \_\_\_\_\_ 19 \_\_\_\_\_  
 Plugging Started \_\_\_\_\_ 19 \_\_\_\_\_  
 Plugging Completed \_\_\_\_\_ 19 \_\_\_\_\_

WELL PROGNOSIS

WELL NO. 7097 ELEV. \_\_\_\_\_  
 ESTIMATED TOTAL DEPTH \_\_\_\_\_ FEET  
 TARGET FORMATION \_\_\_\_\_

ESTIMATED CASING			
SIZE (O.D.)	GRADE	WT.	SETTING DEPTH
7	<del>20</del>	20#	1612
5 1/2		17#	5072
3 1/2		9.2#	5334
ESTIMATE FORMATIONS TOPS			
TOP	BTM.	FORMATION INCL. COAL, WATER OIL AND GAS	
3695	3716	Brown Shale	
3716	3780	Lime	
3780	4594	slate & shells	
4594	5034	Brown Shale	
5034	5138	Corniferous	
5138	5200	Oriskany	
5200	5207	Lime	
5207	5228	sand	
5228	5230	lime	
SAVE SAMPLES TO		FROM	
		SAMPLE INSTRUCTIONS	
LOGS TO BE RUN:			
SPECIAL TEST, MUD PROGRAM, ETC.			

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WATER WELL INFORMATION

Was a Water Well Drilled?  Yes  No

Total Depth \_\_\_\_\_ Ft.

Hole Diameter \_\_\_\_\_ In.

Size of Pipe run in Well \_\_\_\_\_ In.

Was Water Well Abandoned upon Completion of Gas Well?  Yes  No

Distance Water Well from Gas Well \_\_\_\_\_ Ft.

N  
 W . E Estimate direction  
 of Water Well (X)  
 as to Gas Well (•)  
 S

REMARKS

[1989 Construction Install Safety Valve]  
 [9/26/89] Rigged up Willis Slickline  
 Tested lubricator to 2,000 psig. Ran in  
 hole w/ blind box to 5020'. Rigged up &  
 ran lower tubing stop to 5000' & set  
 in place.  
 [9/27] Ran & set Camco safety valve  
 @ 5,000'. Ran & set upper slip lock on  
 safety valve. Tested safety valve by  
 flowing to atmosphere.  
 [9/28] Re-connected line fittings.

REMARKS

[9/29] Well complete.  
 [10/4] Tested safety valve. Prepar-  
 ing to pull & reset.  
 [10/5] Waiting for slickline unit.  
 [10/11] Rigged up Willis Slickline Service.  
 Pressure tested lubricator to 2000 psig.  
 [10/12] Ran in w/ retrieving tool on  
 slickline. Retrieved tubing stop -  
 tubing stop slips were broken. Fish-  
 ing for pieces w/ magnet.  
 [10/13] Fishing for slips w/ magnet.  
 [10/16] Fishing for safety valve w/  
 retrieving tool.  
 [10/17] Pulling 5-3 safety valve w/  
 retrieving. Working valve in hole to  
 wear out packing rubber.  
 [10/18] Retrieved 5-3 safety valve w/  
 packing rubber, wire & tubing stop, slip  
 pieces inside. Retrieved 2nd tubing stop  
 @ 5010', slips were broken off preparing  
 to fish for pieces.

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WV Department of  
Environmental Protection

05/11/2023



REMARKS

[10/19] Ran in hole to 5010' w/ magnet to fish pieces of slips. Ran in hole w/ impression block, slips fell out of tubing into open hole section.

[10/20] Waiting for safety valve repairs.

[11/6] Moved in & rigged up Willis Slick line service. Pressure tested/lubricated to 2000 psig.

[11/7] Installed tubing stops & Camco safety valve in 3 1/2" tubing @ 5130'.

[11/8] Tested safety valve.

[11/9] " " "

[11/10] Finished testing safety valve, well complete.

REMARKS

RECEIVED  
Office of Oil and Gas

APR 14 2023

WV Department of  
Environmental Protection



4703901259P

**WORK ORDER**

PROJECT NO. 9578 BUDGET NO. 595 WORK ORDER NO. 9578  
 DATE October 17, 1951 DATE ISSUED 10-30 1951

COMPANY United Fuel Gas Company DEPT. (For Storage) Production DISTRICT Glendon  
 PROPOSED WORK Recondition Well X-52-7097 and Install Miscellaneous Material.

KNOWN AS Well X-52-B-7097- Additions. NO. \_\_\_\_\_ ORIGINAL INSTALLATION DATE \_\_\_\_\_  
 PURPOSE AND NECESSITY To clean out well, and install heavier equipment, due to well being purchased for storage in Pool X-52B.

LOCATION Well X-52-7097 W. B. Jarrett Farm  
 IN Wilk Rural Kanawha West Virginia

RELATED PROJECT WORK ORDER NO. 9580 FOR Well X-52-7097 - Exchange of Material  
 APPROVED BY J. A. Sasso APPROVED BY Ira Good

MATERIAL TO BE INSTALLED	UNIT PRICE	QTY	ESTIMATE		ACTUAL		VARIATION
			QUANTITY	AMOUNT	QUANTITY	AMOUNT	
Ord. Plug Valve		2	-	-	1	8.10	8.10
Steel Tubing	.72	3"	5345'	3,848.00	5334'	3,850.35	2.35
Casing Head Hinderliter		7"x5"	1	80.00	1	80.76	.76
Comb. Wall & Anchor Packer		3"x5"	1	173.00	1	169.50	(3.50)
Welded Tee		3"x3"x1/2"	1	49.00	1	48.70	(.30)
Gate Valve Kerotest		3"	1	175.00	1	175.50	.50
Anchor Clamps	3.30	3"	1	3.00	1	3.30	.30
Ord. Plug Valve #2349 Comp.		4"	1	420.00	1	413.18	(6.82)
Tarnbuckles	11.00	1 1/2"x1 1/2"	2	22.00	2	21.66	(.34)
Eye Bolts	2.77	1"x1 1/2"	2	6.00	2	5.54	(.46)
Fittings				30.00		56.41	26.41
Casing Coupling		6-5/8"			1	79.85	79.85
<b>TOTAL MATERIAL</b>				<b>4,806.00</b>		<b>4,861.88</b>	<b>55.88</b>
<b>INSTALLATION &amp; OTHER COST</b>							
Direct Labor				2,100.00		2,250.00	150.00
Schlumberger Services				815.00		815.39	.39
Use of Auto and Hauling				1,200.00		1,402.76	202.76
Tools, Supplies and Miscellaneous Expense				300.00		321.20	21.20
Cement, Aquagel & Services				700.00		666.50	(33.50)
Interest				28.00		103.50	75.50
Pick Up Casing & Change Head-Bower & Welch				-		230.00	230.00
Stores Expense & Freight				389.00		376.77	(12.23)
Labor Benefits Overheads				403.00		430.49	27.49
Administrative Overheads				59.00		61.91	2.91
<b>TOTAL INSTALLATION &amp; OTHER COST</b>				<b>5,994.00</b>		<b>6,658.52</b>	<b>664.52</b>
<b>TOTAL ESTIMATE</b>				<b>10,800.00</b>		<b>11,520.40</b>	<b>720.40</b>

INDICATE NORTH \_\_\_\_\_ SKETCH \_\_\_\_\_ INVENTORY MAP NO. F-119  
 (CORRECT TO ACTUAL) Map Square 70-63

Note: Move in Bucyrus Erie Spudder and String of Cleaning Out Tools, Pull 2" Tubing, Clean Out Well, Re-Run String of 3" Tubing on Wall & Anchor Packer, Cement Wall between 3" & 5" Casing to top of Hole, Shut in Well, and report results.

*84- new well head*

2-595-9578

MAPPED BY \_\_\_\_\_ MAP NO. \_\_\_\_\_ QUANTITY MAPPED \_\_\_\_\_ DATE \_\_\_\_\_





4703901259P

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION  
DRILLED DEEPER  
WELL RECORD

Permit No. KAN-1259-D

Oil or Gas Well GAS  
(KIND)

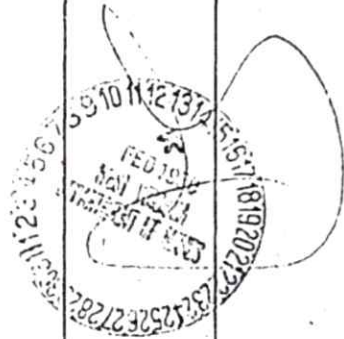
*Abundant*

Company Columbian Carbon Company  
Address Box 873, Charleston 23, W. Va.  
Farm (Jarrett Reservation) Acres 89 1/4  
Location (waters) Pinch Creek  
Well No. 3 - G-869 Elev. 835.9' DF  
District Elk County Kanawha  
The surface of tract is owned in fee by J.H. McClintic, Rec.  
Chas. Nat'l Bldg. Address Chas. 1, W. Va.  
Mineral rights are owned by same  
Address \_\_\_\_\_  
Drilling commenced 12-22-49  
Drilling completed 1-11-50  
Date Shot 1-12-50 From 5138' To 5193' SLM  
With 367# Atlas 80% Gelatin  
Open Flow 5 1/10ths Water in 2 Inch  
/10ths Merc. in \_\_\_\_\_ Inch  
Volume 310,000 Cu. Ft.  
Rock Pressure 100 lbs. 24 hrs.  
Oil \_\_\_\_\_ bbis., 1st 24 hrs.  
Fresh water \_\_\_\_\_ feet  
Salt water \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			
10			Size of
8 1/4			
8 1/8			Depth set
6 3/16			
3			Perf. top
2 3/8" 1 1/2"	5202' 6"	5202' 6"	Perf. bottom
Liners Used			Perf. top
3 1/2"	82' 2"	82' 2"	Perf. bottom

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
no additional casing run  
COAL WAS ENCOUNTERED AT none FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Old Total Depth (Oriskany)			5138' SLM	5153'			
Driller Deeper							
Oriskany			5153'	5200'			
Lime			5200'	5207'			
Sand			5207'	5228'			
Lime			5228'	5230'			
		TOTAL DEPTH	-----	5230'	Drilled deeper pays:		
					5175-77'	80/10 W. 2"	877M
					5183-85'	80/10 W. 2"	877M
					5200-02'	62/10 W. 2"	832M



05/11/2023





4703901259P

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

*Ulen...*

WELL RECORD

Permit No. KAN-1259-D

Oil or Gas Well GAS

Company Columbian Carbon Company  
Address Box 873, Charleston 23, W. Va.  
Farm W.S. Jarrett (Jarrett Reserv.) Acres 89 1/4  
Location (waters) Pinch Creek  
Well No. 3 (08-069) Elev. 835.9 DF  
District Slk County Kanawha  
The surface of tract is owned in fee by J.H. McClintic, Rec.  
Chas. Nat'l Bldg. Address Charleston, W. Va.  
Mineral rights are owned by same  
Address \_\_\_\_\_  
Drilling deeper commenced 1-23-16  
Drilling deeper completed 3-23-16  
Date Shot not shot From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
100 /10ths Merc. in 7" 22' Inch  
Volume 15,911,000 Cu. Ft.  
Rock Pressure 1770 lbs. 48 hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer <u>Midget</u>
16			<u>Bottom hole</u>
13			Size of <u>5 1/2"</u>
10			Depth set <u>5015' SLM</u>
8 1/4			Perf. top _____
5 1/2" <u>15" 17" 5072' 8" 5072' 8"</u>			Perf. bottom _____
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
see below  
COAL WAS ENCOUNTERED AT none FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
	OLD DEPTH			2001			
	<u>DRILLED DEEPER</u>						
Slate & Shells			2001	3232			
Lime			3232	3265			
Brown Shale			3265	3360			
Slate & Shells			3360	3385			
Lime			3385	3695			
Brown Shale			3695	3716			
Lime			3716	3780			
Slate & Shells			3780	4119			
Slate & Shells			4119	4594			
Brown Shale			4594	5034 SLM			
Corniferous Lime			5034 SLM	5138 SLM			
Oriskany Sand			5138 SLM	5153'			
				DRILLED DEEPER TOTAL DEPTH - - -	5153'	OAS PAYS:	5112' 2/10 W. 1" 14,900 cu.ft
							5153' 100/10 W. 7" 22' 15,911,000 cu.ft

CEMENT RECORD

3-2-16 5 1/2" casing. Ran 48 bags Aquapel and 5 bales Fibertex. Circulated around 7" hole. Columbian Carbon Company



*Handwritten signature*

05/11/2023

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

4703901259P

WELL RECORD

Permit No. Kan-1259 *Original Drilling* Oil or Gas Well Oil  
(KOD)

Company Columbian Carbon Company  
Address P. O. 873, Charleston 23, W. Va.  
Farm Wm. S. Jarrett Acres 89 1/2  
Location (waters) Pinch Creek  
Well No. 3 (97-860) Elev. 870'  
District Elk County Kanawha  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_  
Drilling commenced \_\_\_\_\_  
Drilling completed 6-18-21  
Date Shot 6-21-21 From \_\_\_\_\_ To \_\_\_\_\_  
With 130 minrts  
Open Flow /10ths Water in \_\_\_\_\_ Inch  
/10ths Merc. in \_\_\_\_\_ Inch  
Volume \_\_\_\_\_ Cu. Ft.  
Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
Oil 5 bbls., 1st 24 hrs.  
Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10			Size of
8 1/2			
6 1/2	1612	1612	Depth set
5 3/16			
3			Perf. top
2	2021	2021	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Big Lime			1600	1760			
Big Injun			1760	1775	Black Oil	1890-1892'	
Woir			1815	1990	Green Oil	1922-1990'	
Total depth				2001'			



05/11/2023



4703901259P  
7097



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL RECORD

Permit No. \_\_\_\_\_ Oil or Gas Well Oil  
(KIND)

Company Empire Petroleum Co  
(Part interest)  
Address \_\_\_\_\_  
Farm A. S. Jarratt Acres \_\_\_\_\_  
Location (waters) \_\_\_\_\_  
Well No. 1 Elev. \_\_\_\_\_  
District 11 County Appahe  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_  
Drilling commenced \_\_\_\_\_  
Drilling completed 6-18-21  
Date Shot 6-21-21 From \_\_\_\_\_ To \_\_\_\_\_  
With 100 quarts  
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume \_\_\_\_\_ Cu. Ft.  
Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
Oil after 209.5 bbls. \_\_\_\_\_ bbls. at 24 hrs.  
Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
16			Kind of Packer _____
13			Size of _____
10			Depth set _____
8 1/2	1412'	1412'	Perf. top _____
6 1/2			Perf. bottom _____
5 3/16			Perf. top _____
3			Perf. bottom _____
2			

Liners Used \_\_\_\_\_  
CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
1 Hr. Blue			1600	1700			
2 Hr. Blue			1760	1775			
3 Hr.			1845	1850			
4 Hr. Blue			1860	1870			
5 Hr. Blue			1880	1890			
6 Hr. Blue			1900	1910			
7 Hr. Blue			1920	1930			
8 Hr. Blue			1940	1950			
9 Hr. Blue			1960	1970			
10 Hr. Blue			1980	1990			
11 Hr. Blue			2000	2010			
12 Hr. Blue			2020	2030			
13 Hr. Blue			2040	2050			
14 Hr. Blue			2060	2070			
15 Hr. Blue			2080	2090			
16 Hr. Blue			2100	2110			
17 Hr. Blue			2120	2130			
18 Hr. Blue			2140	2150			
19 Hr. Blue			2160	2170			
20 Hr. Blue			2180	2190			
21 Hr. Blue			2200	2210			
22 Hr. Blue			2220	2230			
23 Hr. Blue			2240	2250			
24 Hr. Blue			2260	2270			
25 Hr. Blue			2280	2290			
26 Hr. Blue			2300	2310			
27 Hr. Blue			2320	2330			
28 Hr. Blue			2340	2350			
29 Hr. Blue			2360	2370			
30 Hr. Blue			2380	2390			
31 Hr. Blue			2400	2410			
32 Hr. Blue			2420	2430			
33 Hr. Blue			2440	2450			
34 Hr. Blue			2460	2470			
35 Hr. Blue			2480	2490			
36 Hr. Blue			2500	2510			
37 Hr. Blue			2520	2530			
38 Hr. Blue			2540	2550			
39 Hr. Blue			2560	2570			
40 Hr. Blue			2580	2590			
41 Hr. Blue			2600	2610			
42 Hr. Blue			2620	2630			
43 Hr. Blue			2640	2650			
44 Hr. Blue			2660	2670			
45 Hr. Blue			2680	2690			
46 Hr. Blue			2700	2710			
47 Hr. Blue			2720	2730			
48 Hr. Blue			2740	2750			
49 Hr. Blue			2760	2770			
50 Hr. Blue			2780	2790			
51 Hr. Blue			2800	2810			
52 Hr. Blue			2820	2830			
53 Hr. Blue			2840	2850			
54 Hr. Blue			2860	2870			
55 Hr. Blue			2880	2890			
56 Hr. Blue			2900	2910			
57 Hr. Blue			2920	2930			
58 Hr. Blue			2940	2950			
59 Hr. Blue			2960	2970			
60 Hr. Blue			2980	2990			
61 Hr. Blue			3000	3010			
62 Hr. Blue			3020	3030			
63 Hr. Blue			3040	3050			
64 Hr. Blue			3060	3070			
65 Hr. Blue			3080	3090			
66 Hr. Blue			3100	3110			
67 Hr. Blue			3120	3130			
68 Hr. Blue			3140	3150			
69 Hr. Blue			3160	3170			
70 Hr. Blue			3180	3190			
71 Hr. Blue			3200	3210			
72 Hr. Blue			3220	3230			
73 Hr. Blue			3240	3250			
74 Hr. Blue			3260	3270			
75 Hr. Blue			3280	3290			
76 Hr. Blue			3300	3310			
77 Hr. Blue			3320	3330			
78 Hr. Blue			3340	3350			
79 Hr. Blue			3360	3370			
80 Hr. Blue			3380	3390			
81 Hr. Blue			3400	3410			
82 Hr. Blue			3420	3430			
83 Hr. Blue			3440	3450			
84 Hr. Blue			3460	3470			
85 Hr. Blue			3480	3490			
86 Hr. Blue			3500	3510			
87 Hr. Blue			3520	3530			
88 Hr. Blue			3540	3550			
89 Hr. Blue			3560	3570			
90 Hr. Blue			3580	3590			
91 Hr. Blue			3600	3610			
92 Hr. Blue			3620	3630			
93 Hr. Blue			3640	3650			
94 Hr. Blue			3660	3670			
95 Hr. Blue			3680	3690			
96 Hr. Blue			3700	3710			
97 Hr. Blue			3720	3730			
98 Hr. Blue			3740	3750			
99 Hr. Blue			3760	3770			
100 Hr. Blue			3780	3790			

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Office of Oil and Gas  
APR 14 2023  
WV Department of  
Environmental Protection

(Over)

0000 1000

05/11/2023



4703901259

PH 43066 10000

WW-4A  
Revised 6-07

1) Date: 04.03.2023  
2) Operator's Well Number  
Coco B 7097  
3) API Well No.: 47 - 039 - 01259

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served: (a) Name Gary W. and Evelyn J. Carter, Address 303 Ila St, Elkview, WV 25071. 5) (a) Coal Operator Name Not operated, Address. (b) Coal Owner(s) with Declaration Name, Address. (c) Coal Lessee with Declaration Name, Address. 6) Inspector Terry Urban, Address P.O. Box 1207, Clendenin, WV 25045, Telephone 304-549-5915.

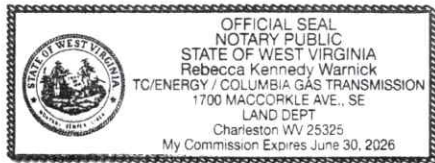
RECEIVED  
Office of Oil and Gas  
APR 14 2023  
WV Department of  
Environmental Protection

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
(2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator Columbia Gas Transmission
By: Maria Medvedeva
Its: Senior Wells Engineer - Well Engineering and Technology
Address 1700 MacCorkle Ave SE, Charleston, WV 25314
Telephone 304-410-4313

Handwritten signature of Maria Medvedeva

Subscribed and sworn before me this 3rd day of April, 2023
Notary Public
My Commission Expires 6/30/26

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at deprivacyoffier@wv.gov.

05/11/2023

4703901259P

**Columbia Gas Transmission, LLC**

1700 MacCorkle Ave., SE, Charleston, WV, USA 25314



April 3, 2023

Gary W. and Evelyn J. Carter  
303 Ila St  
Elkview, WV 25071

RECEIVED  
Office of Oil and Gas

APR 14 2023

WV Department of  
Environmental Protection

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to plug and abandon an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Coco B 7097 (API 47-039-01259).

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

Regards,

Maria Medvedeva  
Senior Wells Engineer  
Well Engineering & Technology  
Columbia Gas Transmission, LLC

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only**

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Elkview, WV 25071

Certified Mail Fee	\$4.15
Extra Services & Fees (check box, add fee as appropriate)	\$3.35
<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	\$9.65
<b>Total Postage and Fees</b>	<b>\$17.15</b>

Sent To: Gary & Evelyn Carter  
Street and Apt. No., or PO Box No.:  
City, State, ZIP+4®: CB 7097

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

**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:  
Gary & Evelyn Carter  
303 Ila St.  
Elkview, WV 25071

2. Article Number (Transfer from certificate of mailing)  
7022 2410 0002 6396 2969

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

A. Signature  
 Signature  
 Agent  
 Addressee

B. Received by (Printed Name)  
 C. Date of Delivery

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

7022 2410 0002 6396 2969



**SURFACE OWNER WAIVER**

4703901259P

Operator's Well  
Number

Coco B 7097

**INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A**

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

**WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

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WV Department of  
Environmental Protection

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

**If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.**

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON  
ETC.

FOR EXECUTION BY A CORPORATION,

_____	Date _____	Name _____
Signature		By _____
		Its _____
		Date _____

Signature

05/11/2023

4703901259P

WW-4B

API No. 47-039-01259  
Farm Name \_\_\_\_\_  
Well No. Coco B 7097

Coal not operated

**INSTRUCTIONS TO COAL OPERATORS  
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

**WAIVER**

The undersigned coal operator \_\_\_\_/ owner \_\_\_\_/ lessee \_\_\_\_/ of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Its \_\_\_\_\_

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05/11/2023



4703901259P

WW-9  
(5/16)

API Number 47 - 039 - 01259  
Operator's Well No. Coco B 7097

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

Operator Name Columbia Gas Transmission OP Code 307032

Watershed (HUC 10) Pinch Creek Quadrangle Blue Creek, 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  16

If so, please describe anticipated pit waste: fresh water, brine, cement returns, bentonite gel

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? 20

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Undergound Injection ( UIC Permit Number 34-167-23862 )
- Reuse (at API Number \_\_\_\_\_)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Mud Master 64054; Reserve Environmental Services (WMGR123SW005)  
Appalachian Water Services (WMGR123SW001))

Will closed loop system be used? If so, describe: No

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A **RECEIVED**  
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-If oil based, what type? Synthetic, petroleum, etc.

Additives to be used in drilling medium? N/A **APR 14 2023**

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A **WV Department of Environmental Protection**

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

-Landfill or offsite name/permit number? \_\_\_\_\_

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 *Maria Medvedeva*

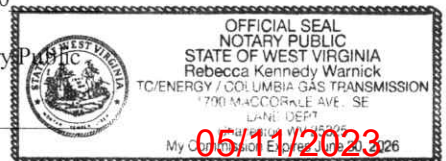
Company Official (Typed Name) Maria Medvedeva

Company Official Title Senior Wells Engineer - Well Engineering and Technology

Subscribed and sworn before me this 3<sup>rd</sup> day of April, 20 23

*Robert West* Notary Public

My commission expires 6/30/26



Proposed Revegetation Treatment: Acres Disturbed <1.0 Prevegetation pH 6 - 7

Lime 2 Tons/acre or to correct to pH 7 - 8

Fertilizer type 10-10-10

Fertilizer amount 600 lbs/acre

Mulch hay or straw @ 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: [Signature]

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

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Environmental Protection

Title: Inspector O&EGAS Date: 4-5-23

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): Pinch Creek Quad: Blue Creek, WV  
Farm Name: \_\_\_\_\_

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 contaminants 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. 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.

Flatwood Run is at a distance of 0.16 miles S.  
  
The Trail Kitchen (WV9908037) is the closest Well Head Protection Area at a distance of 11.7 miles E from discharge area.

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.

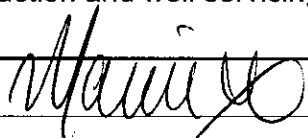
During routine tailgate meetings, groundwater protection will be a topic of discussion.

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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 lubricants 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 contaminants to groundwater.

All construction and well servicing equipment will be monitored and inspected daily for leaks or spills.

Signature: 

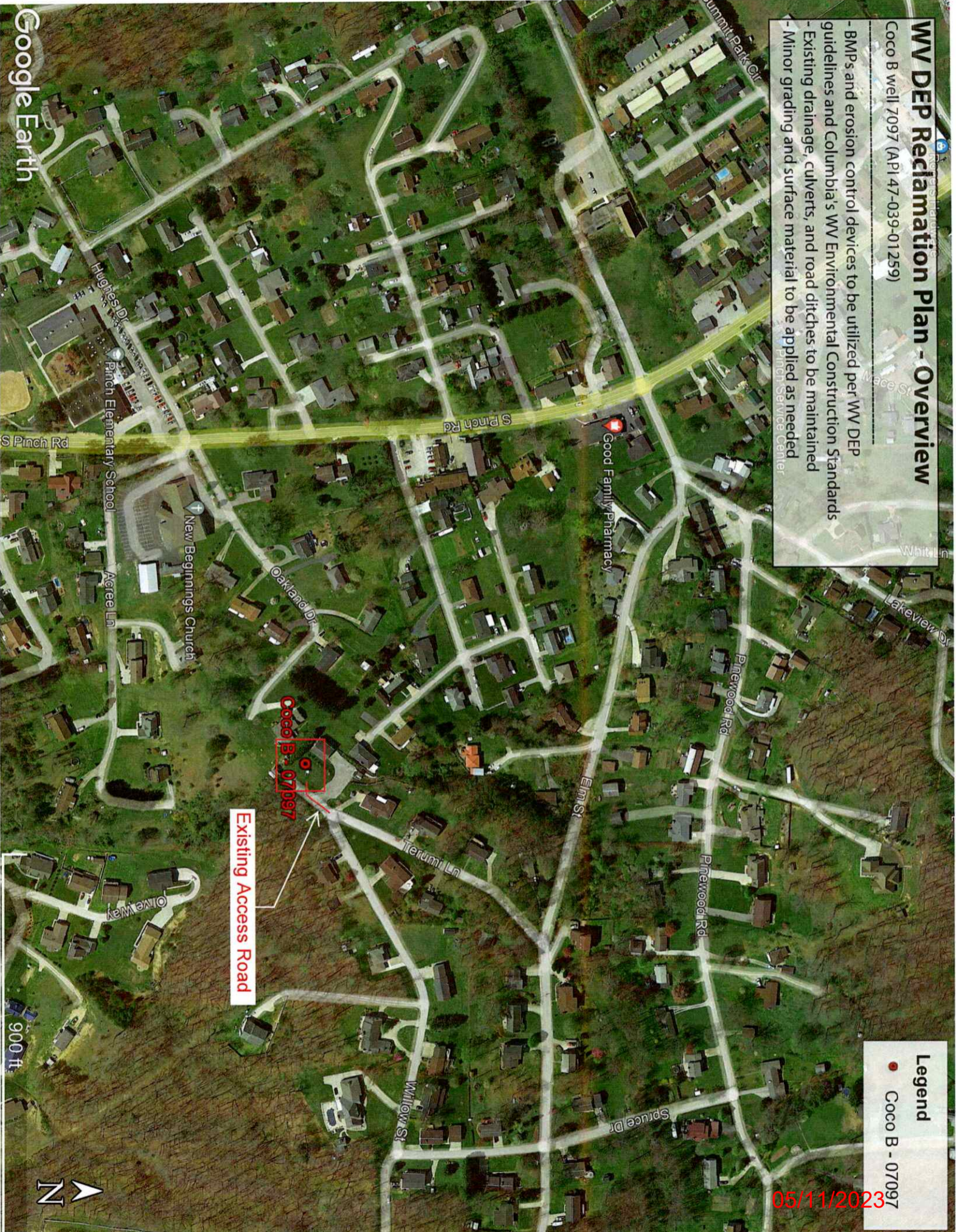
Date: 04.03.2023



# WV DEP Reclamation Plan - Overview

Coco B well 7097 (API 47-039-01259)

- BMPs and erosion control devices to be utilized per WV DEP 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

● Coco B - 07097

05/11/2023

Google Earth

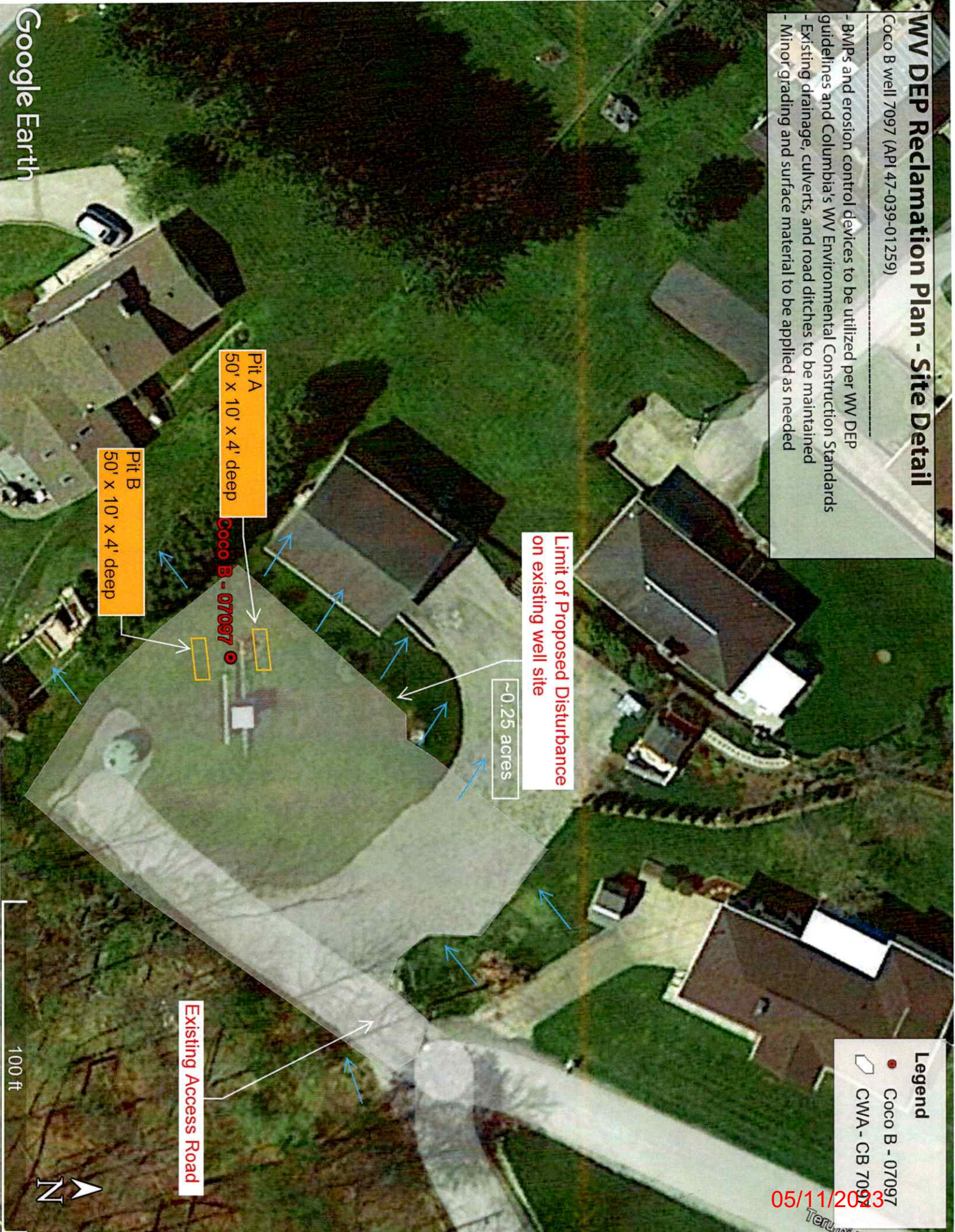
900 ft



### WV DEP Reclamation Plan - Site Detail

Coco B well 7097 (API 47-039-01259)

- BMPs and erosion control devices to be utilized per WV DEP 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



Limit of Proposed Disturbance on existing well site

~0.25 acres

Pit A  
50' x 10' x 4' deep

Pit B  
50' x 10' x 4' deep

Coco B - 07097

Existing Access Road

**Legend**

- Coco B - 07097
- CWA - CB 7097

05/11/2023





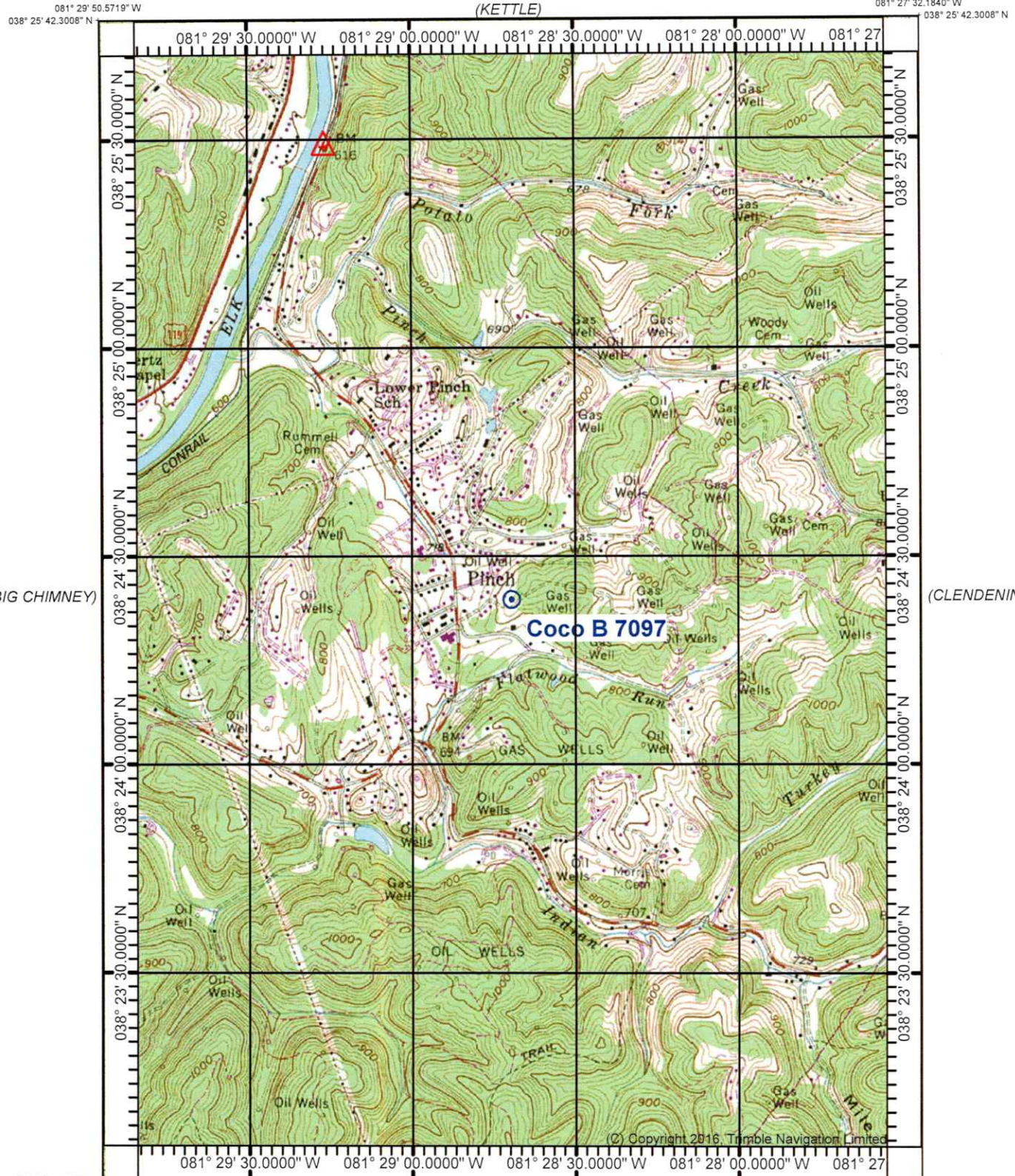
4703901259P

(ROMANCE)



BLUE CREEK QUADRANGLE  
WEST VIRGINIA  
TOPOGRAPHIC SERIES

(CLIO)



(BIG CHIMNEY)

(CLEDENIN)

(CHARLESTON EAST)

(MAMMOTH)

Produced by Trimble Terrain Navigator Pro  
Topography based on USGS 1:24,000  
Maps

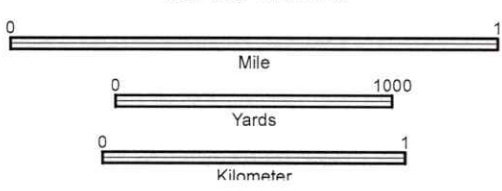
North American 1983 Datum (NAD83)

To place on the predicted North American  
1927 move the projection lines 11M N and  
14M E

Declination



(QUICK)  
SCALE 1:24000



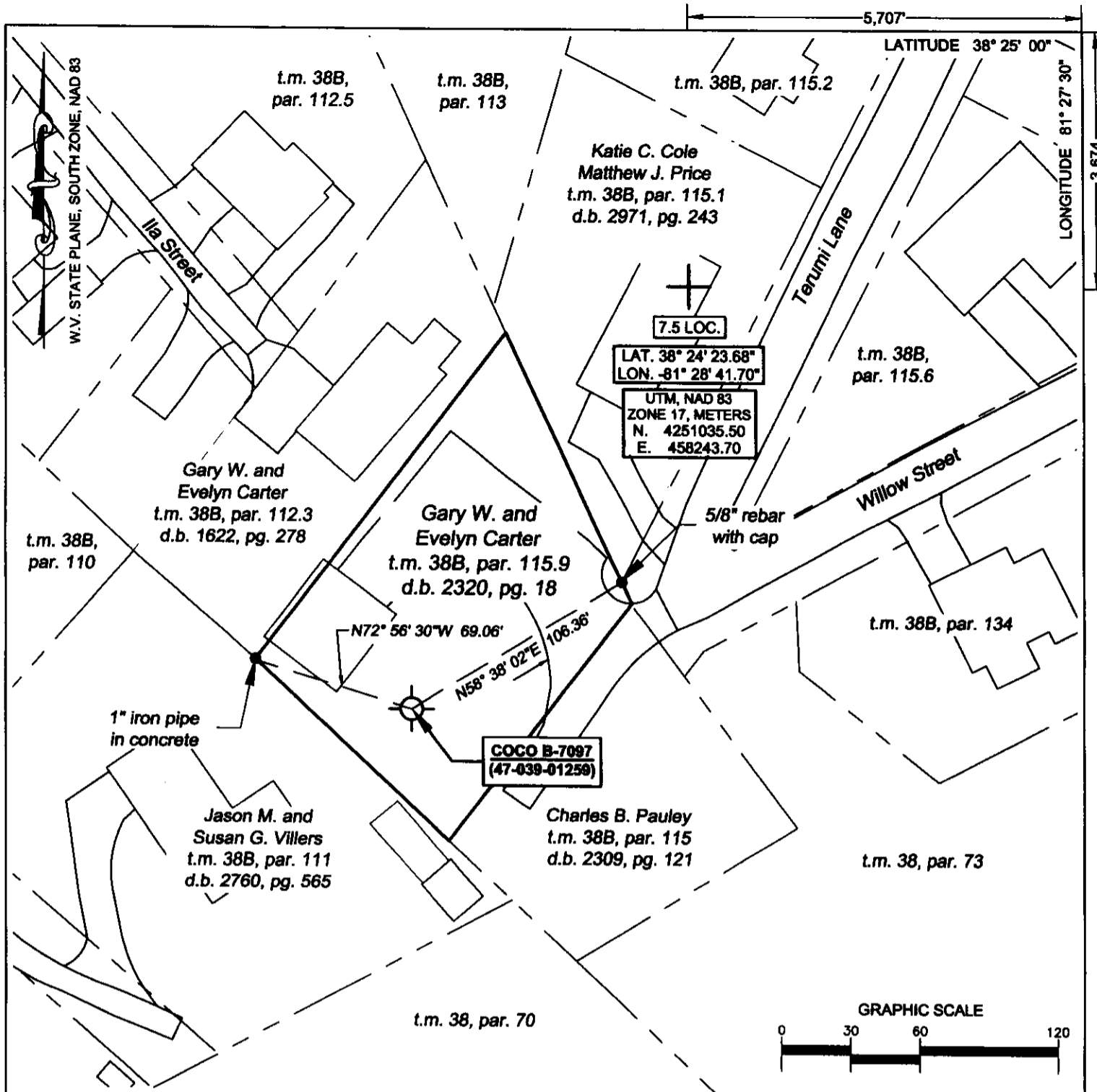
CONTOUR INTERVAL 20 FT

Printed: Thu May 05, 2022

38081-D3-TM-024  
BLUE CREEK, WV  
JAN 1, 1977

05/11/2023



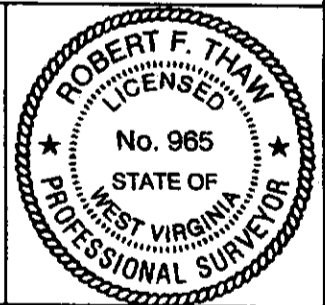


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No. 2001-3079-001-009  
 DRAWING No. 2001-3079-001-009  
 SCALE 1"=60'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION TRIMBLE R10  
GPS UNIT

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 DIVISION OF ENVIRONMENTAL PROTECTION.

(SIGNED) [Signature]  
**ROBERT F. THAW PS #965**



STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 NITRO, WV



DATE MAY 05 2022  
 OPERATOR'S WELL No. 7097  
 API WELL No.

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  47 039 - 01259  
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 831.8' WATER SHED PINCH CREEK  
 DISTRICT ELK COUNTY KANAWHA  
 QUADRANGLE BLUE CREEK, WV

SURFACE OWNER GARY W. AND EVELYN CARTER ACREAGE 0.41 ACRES

OIL & GAS ROYALTY OWNER MATT AMOS, ET AL, GEORGE C. ACREE, ET AL

LEASE ACREAGE 852 ACRES LEASE NO. 10049098-000 05/11/2023

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE   
 STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION   
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG

TARGET FORMATION ORISKANY ESTIMATED DEPTH 5230

WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC  
 ADDRESS PO BOX 1273, CHARLESTON, WV  
25325-1273

DESIGNATED AGENT MARIA MEDVEDEVA  
 ADDRESS 1700 MACCORKLE AVENUE, SE  
CHARLESTON, WV 25314

FORM IV-6 (8-78)

4703901259P

**Columbia Gas Transmission, LLC**

1700 MacCorkle Ave., SE, Charleston, WV, USA 25314



April 13, 2023

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

Enclosed are well plugging permit applications for the following Columbia Gas Transmission existing storage wells:

Coco B 7060 (API 47-039-01332)  
Coco B 7097 (API 47-039-01259)

Please email to address below, and return hardcopies of permit to:

Columbia Gas Transmission  
1700 MacCorkle Ave SE  
Charleston, WV 25314  
Attn: Maria Medvedeva

If you have questions, feel free to call.

Regards,

A handwritten signature in black ink, appearing to read "Maria Medvedeva", written in a cursive style.

Maria Medvedeva  
Senior Wells Engineer  
Well Engineering & Technology  
Columbia Gas Transmission, LLC  
Mob: 304-410-4313  
maria\_medvedeva@tcenergy.com

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WV Department of  
Environmental Protection





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

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## plugging permit issued 4703901259

1 message

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

Tue, May 9, 2023 at 3:30 PM

To: Terry W Urban <terry.w.urban@wv.gov>, maria\_medvedeva@tcenergy.com, sallierobinson@kanawha.us

To whom it may concern, a plugging permit has been issued for 4703901259.


James Kennedy

WVDEP OOG

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### 2 attachments

 **4703901259.pdf**  
5877K

 **ir-8 4703901259.pdf**  
120K

05/11/2023