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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)

Monday, March 29, 2021  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC  
STORAGE TECHNICAL SERVICES - 6TH FLOOR  
1700 MACCORKLE AVE. SE.  
CHARLESTON, WV 25314

Re: Permit approval for 7230  
47-039-01585-00-00

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: 7230  
Farm Name: JARRETT RESERVATION  
U.S. WELL NUMBER: 47-039-01585-00-00  
Vertical Plugging  
Date Issued: 3/29/2021

Promoting a healthy environment.

04/02/2021

## 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.

1) Date 12/24, 2020  
2) Operator's  
Well No. Coco B 7230  
3) API Well No. 47-039 - 01585

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 X ) Deep X/ Shallow \_\_\_

5) Location: Elevation 776 Watershed Pinch Creek a tributary of the Elk River  
District Elk County Kanawha Quadrangle Blue Creek

6) Well Operator Columbia Gas Transmission LLC 7) Designated Agent James Amos  
Address 1700 MacCorkle SE Address 48 Columbia Gas Road  
Charleston, WV 25325 Sandyville, WV 25275

8) Oil and Gas Inspector to be notified Name Terry Urban  
Address PO Box 1207  
Clendenin, WV 25045  
9) Plugging Contractor Name Contractor Services Inc.  
Address 929 Charleston Road  
Spencer, WV 25276

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

Refer to enclosed:

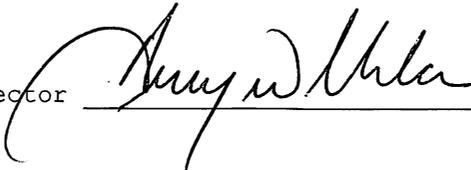
- 1) Well job plan.
- 2) Prior to P&A wellbore schematic.
- 3) Proposed P&A wellbore schematic.

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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 12-29-20

Objective: Plug and Abandon LAST PROFILE UPDATE:

TITLE: Plug and Abandon WORK TYPE: WR

FIELD: Coco B WELL: 7230

STATE: WV SHL (Lat/ Long) API:

DIST: BHL (Lat/Long) CNTY:

EXISTING TUBULAR CONFIGURATION	OD (inches)	WEIGHT (PPF)	GRADE	THREAD	DEPTH (ft)		FORMATION:
					TOP	BOTTOM	
Conductor							Oriskany
Surface							See below.
Intermediate1							
Intermediate2							
Production							
Tubing							
Perforations							
Perforations							
Perforations							
Wellhead							

ELEVATIONS	
PAY:	TMG:
TD:	KB-RF:
PBTD:	GL:
KB-GL:	

D.H. EQUIPMENT TYPE DEPTH (ft)

PACKER INFO: Upper		
Lower		
NIPPLE PROFILE INFO: Upper		
Lower		
SSSV INFO:		

CEMENT INFO TOC (ft)


MISC INFORMATION

**REFER TO WELL SUMMARY REPORT and WELLBORE DIAGRAM**

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PROPOSED YEAR: 2020 ERCB PERMIT REQD: YES \_\_\_ NO \_\_\_X\_\_\_ (Internal) PDS Required: YES \_\_\_ NO \_\_\_

PREPARED BY: Jim Amos DT. APPLIED: ISSUED: REVIEWED BY: APPROVED: 

PREP DATE: 12/21/2020 James Amos Principal Engineer Signed by: 83aa62d7-b683-404d-8328-f042f2e33502



<b>WELL JOB PLAN</b>		<b>Well Engineering &amp; Technology</b>		PAGE 3	DATE JOB PREPARED: 12/21/2020
Objective: Plug and Abandon				LAST PROFILE UPDATE:	
TITLE: Plug and Abandon	WELL: 7230			WORK TYPE: WR	
FIELD: Coco B	SHL (Lat/Long): 0 0			API: 0	
STAT: WV	BHL (Lat/Long): 0 0			CNTY: 0	
TWP: 0	PROCEDURE				

**\*\*Note: All cement used will be Class A, slurry weight 15.6ppg, slurry yield 1.18 cuft/sk. All spacers will be 6% Bentonite gel\*\***

- 1 Obtain State plugging permit, FERC authorization, 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 environmental inspector prior to beginning work.
- 5 Notify State O&G inspector prior to beginning work.
- 6 Disconnect well line.
- 7 Install ECD's per EM&CP.
- 8 Prepare access road and well site.
- 9 Lock SSSV in open position. Consult with Bill Erbes if needed.
- 10 Document casing and annular pressures.
- 11 Blow down all annuli, replace fittings as needed, and leave annuli open to atmosphere for monitoring.
- 12 Load 3x7, 7x8, and 8x10 annuli with kill fluid. Load all remaining annuli with FW.
- 13 Bullhead kill well with viscosified fluid. Spearhead 10 bbl LCM ahead.
- 14 Dig around base of wellhead to uncover casing tops and remove cement if present.
- 15 MIRU service rig.
- 16 Remove wellhead equipment down to top of tubing spool.
- 17 Screw in 3-1/2" nipple with full port valve into top of hanger.
- 18 Strip over and NU 7-1/16" Cameron 5K BOPE (blind/shear + pipe + annular). Need kill and choke outlets below blind/shear.
- 19 Function and pressure test BOPE to low (250 psig) and high (2500 psig).
- 20 Unseat hanger, disengage from bottom packer, and circulate well until good kill density fluid at surface.
- 21 Pull tubing.
- 22 RIH with 2-3/8" DP workstring, engage packer, unseat, and POOH.
- 23 Obtain CBL. Provide digital copy to WET engineer and consult to verify next steps.
- 24 RIH with 2-3/8" workstring with cut-lip shoe and wash to TD.
- 25 Install balanced cement plug from TD to 4000'.
- 26 PU above cement top, reverse circulate to clean tubulars, pull 10 joints, close pipe rams, and WOC.
- 27 WOC minimum 8 hours. RIH and tag cement. If cement top is deeper than 4700' then spot a second balanced cmt plug.
- 28 Install 7" CIDBP above cement plug.
- 29 Top off 7" with kill fluid and perform 500 psig pressure test to verify integrity of BP.
- 30 Consult with WET engineer to determine if second CBL required (to see cement quality at surface).
- 31 RIH with work string and install balanced cement plug from retainer to 1800', pick up above cement top, clean tubulars, and WOC.
- 32 After minimum 4 hours WOC, tag cement. If cement top is less than 100' above 8-5/8" csg shoe install second cement plug.
- 33 TOOH.

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**If CBL indicates good sealing cement below 8-5/8" csg shoe (1968') proceed to Step 40. If CBL does not indicate sealing cement bond then proceed to Step 70. Consult with WET engineer to confirm procedure.**

- 40 Top off all annuli again.
- 41 ND BOPE and all wellhead components.
- 42 Weld pulling nipple on to 7" casing.
- 43 If there are no threads on 8-5/8" casing then weld on pulling nipple. Cap with swage and valve (for well control).
- 44 Install pulling nipples on 10-3/4" and 13-3/8" casings.
- 45 Drive 10 to 20 feet of 16" casing till solid.
- 46 Wireline free-pt 7" casing and consult with WET engineer. This may provide evidence if 8-5/8" csg is cemented. Cut/pull all 7" casing that is free.
- 47 Wireline free-pt 8-5/8" casing and consult with WET engineer. Depending on depth of free-pt may cut/pull 8-5/8" casing.
- 48 Attempt to pull all 10-3/4" and 13-3/8" casing. If can't pull perform manual free points (consult with WET engineer for procedure).
- 49 Weld 1/2" steel plate from 8-5/8" to top of 16" casing. Install 2" outlet and plumb to returns tank and flowback tank using manifold. This will serve as diverter if needed.
- 50 NU 11" spool (with kill/choke outlets) and 11" annular, on top of 8-5/8" casing.  
\* Braidenhead, bullhead, and/or suicide squeeze attempts to be performed, depending on CBL data and casings pulled.
- 51 Perforate thru both 7" and 8-5/8" casings at 1900-02' with 4 SPF phased 90 degree. Consult with perf company on charge needed.
- 52 Perform injection/circulation test.

*Jim Amos*  
12-29-20

PREPARED BY: Jim Amos	REVIEWED BY:	APPROVED:
PREP DATE: 12/21/2020		

<b>WELL JOB PLAN</b>		<b>Well Engineering &amp; Technology</b>		PAGE 4	DATE JOB PREPARED: 12/21/2020
Objective: Plug and Abandon				LAST PROFILE UPDATE:	
TITLE: Plug and Abandon		WELL: 7230		WORK TYPE: WR	
FIELD: Coco B	SHL (Lat/Long): 0 0		API: 0		
STAT: WV	BHL (Lat/Long): 0 0		CNTY: 0		
TWP: 0	PROCEDURE CONTINUED				

53A If circulation established; circulate 6% gel to surface to condition hole. Consult with WET engineer on cementing procedure.

- > RIH with sliding-sleeve cement retainer and set above perms.
- > Confirm circulation.
- > Disengage/engage to function test retainer.
- > Cement to surface.
- > Consult with WET engineer to determine if CBL to be obtained.

53B If injection established; consult with WET engineer on squeeze procedure.

- > RIH with sliding-sleeve cement retainer and set above perms.
- > Confirm injection.
- > Disengage from retainer.
- > Spot cement to bottom of work string.
- > Engage retainer and squeeze cement. Max injection pressure 1500 psig.
- > Consult with WET engineer to determine if CBL to be obtained.

53C If circulation/injection not established; Perforate at 1600-02'. Repeat process above.

- 54 Repeat process above as needed, perforating at following intervals;
- 1300 - 02'
  - 800 - 02'
  - 400 - 02'

\* Note that during steps above cement plugs must be installed across all perf zones, casing shoes, and O/G/W zones.

- 55 Finish cementing to surface and grout all annuli as deep as possible.
- 56 RDMO service rig.
- 57 Erect monument per state regulations. Reclaim location and lease road.
- 58 P&A complete.

**If CBL doesn't indicate good sealing cement below 8-5/8" csg shoe (1968') proceed to Step 70. Consult with WET engineer to confirm procedure.**

\* Remainder of procedure assumes that 7" csg is cemented at/near surface. If not consult with WET engineer.  
\* Braidenhead, bullhead, and/or suicide squeeze attempts to be performed, depending on CBL data and casings pulled.

70 Perforate thru both 7" and 8-5/8" casings at 1900-02' with 4 SPF phased 90 degree. Consult with perf company on charge needed.

71 Perform injection/circulation test.

72A If circulation established; circulate 6% gel to surface to condition hole. Consult with WET engineer on cementing procedure.

- > RIH with sliding-sleeve cement retainer and set above perms.
- > Confirm circulation.
- > Disengage/engage to function test retainer.
- > Cement to surface.
- > Consult with WET engineer to determine if CBL to be obtained.

72B If injection established; consult with WET engineer on squeeze procedure.

- > RIH with sliding-sleeve cement retainer and set above perms.
- > Confirm injection.
- > Disengage from retainer.
- > Spot cement to bottom of work string.
- > Engage retainer and squeeze cement. Max injection pressure 1500 psig.
- > Consult with WET engineer to determine if CBL to be obtained.

72C If circulation/injection not established; Perforate at 1600-02'. Repeat process above.

- 73 Repeat process above as needed, perforating at following intervals;
- 1300 - 02'
  - 800 - 02'
  - 400 - 02'

\* Note that during steps above cement plugs must be installed across all perf zones, casing shoes, and O/G/W zones.

- 74 Drive 10 to 20 ft of 16" casing.
- 75 For remaining work, BOPE must be utilized when working inside 10-3/4" casing. Consult with WET engineer.
- 76 Pull all free casing.
- 77 Cement to surface and grout all annuli as deep as possible.
- 78 RDMO service rig.
- 79 Erect monument per state regulations. Reclaim location and lease road.
- 80 P&A complete.

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*[Handwritten Signature]*  
12-29-20

PREP DATE: #####

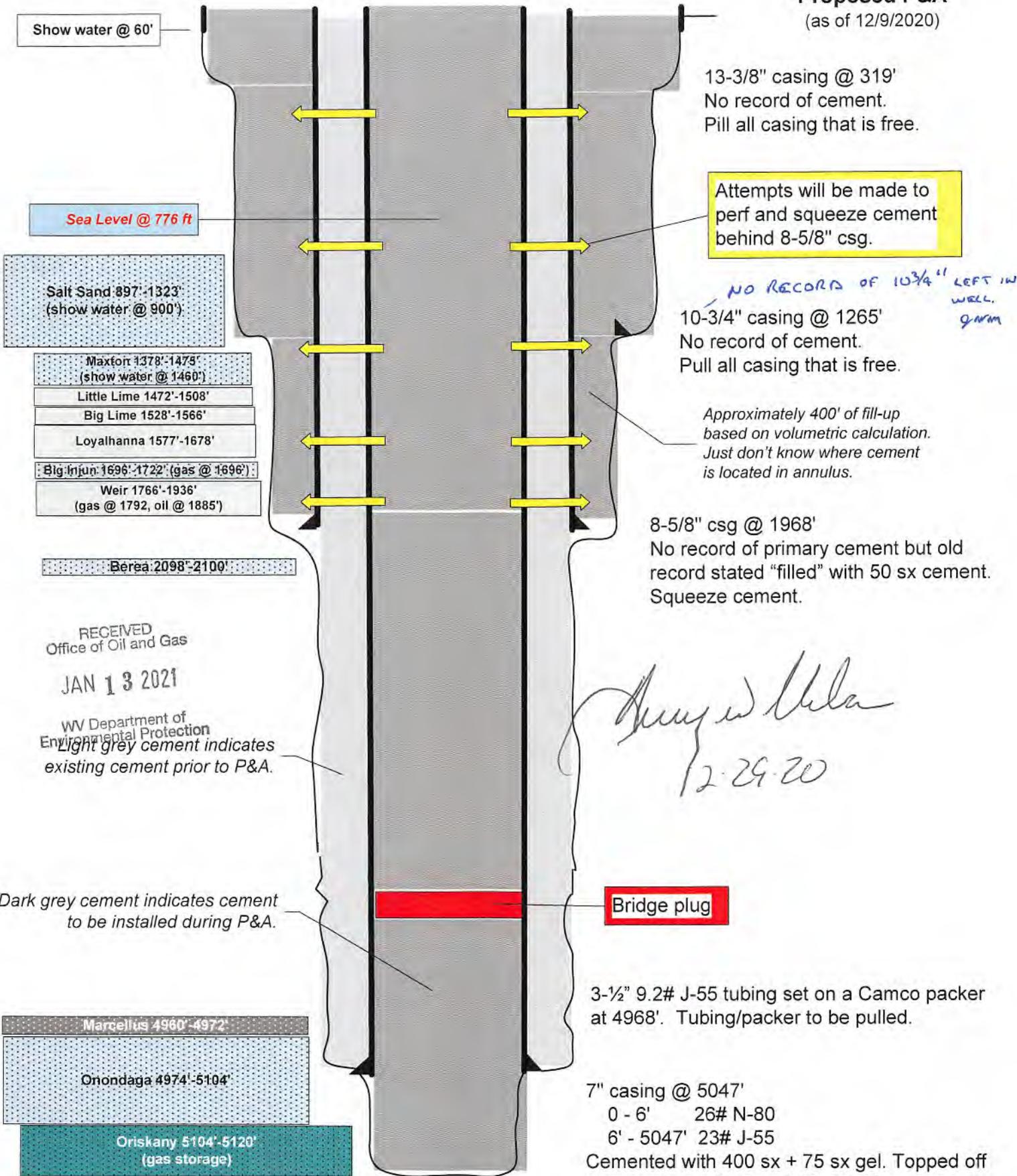
~ not to scale ~

4703901585P

# COCO B 7230

## Proposed P&A

(as of 12/9/2020)



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Light grey cement indicates  
existing cement prior to P&A.

Dark grey cement indicates cement  
to be installed during P&A.

Bridge plug

3-1/2" 9.2# J-55 tubing set on a Camco packer  
at 4968'. Tubing/packer to be pulled.

7" casing @ 5047'

0 - 6' 26# N-80

6' - 5047' 23# J-55

Cemented with 400 sx + 75 sx gel. Topped off  
from surface with an additional 57 sx cement.  
Therefore likely cemented to surface.

TD 5120'

04/02/2021

*Handwritten signature and date:*  
12-29-20

~ not to scale ~

### COCO B 7230

Prior to P&A  
(as of 10/20/2020)

SCSSSV as integral part of tubing from 62 to 82 ft

Show water @ 60'

Sea Level @ 776 ft

13-3/8" casing @ 319'  
No record of cement.

Salt Sand 897'-1323'  
(show water @ 900')

*No record of 10 3/4" left in well 2/10/20*

10-3/4" casing @ 1265'  
No record of cement. Gelled to surface with 15 sx.

Maxfort 1378'-1475'  
(show water @ 1460')

Little Lime 1472'-1508'

Big Lime 1528'-1566'

Loyalhanna 1577'-1678'

*Approximately 400' of fill-up based on volumetric calculation. Just don't know where cement is located in annulus.*

Big Injun 1696'-1722' (gas @ 1696')

Weir 1766'-1936'  
(gas @ 1792, oil @ 1885')

8-5/8" csg @ 1968'  
No record of primary cement but old record stated "filled" with 50 sx cement.

Berea 2098'-2100'

*[Signature]*  
12-29-20

No CBL ran to-date

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3-1/2" 9.2# J-55 tubing set on a Camco packer at 4968'

Marcellus 4960'-4972'

7" casing @ 5047'  
0 - 6' 26# N-80  
6' - 5047' 23# J-55

Onondaga 4974'-5104'

Cemented with 400 sx + 75 sx gel. Topped off from surface with an additional 57 sx cement. Therefore likely cemented to surface.

Oriskany 5104'-5120'  
(gas storage)

0036

08-18



4703901585P

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 18

*Glendwin*

WELL RECORD

Permit No. KAN-1585

Oil or Gas Well Gas  
(circle)

Company UNITED FUEL GAS COMPANY  
 Address P. O. Box 1273, Charleston 25, W. Va.  
 Farm Jarrett Reservation Acres 851.5  
 Location (waters) Potato Creek  
 Well No. 1230 Elev. 773.28  
 District Elk County Kanawha  
 The surface of tract is owned in fee by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Mineral rights are owned by Jarrett Reservation  
 Address \_\_\_\_\_  
 Drilling commenced 7-11-52  
 Drilling completed 11-12-52  
 Date Shot Not shot From \_\_\_\_\_ To \_\_\_\_\_  
 With \_\_\_\_\_  
 Open Flow 10ths Water in \_\_\_\_\_ Inch  
92 10ths Merc. in 7" \_\_\_\_\_ Inch  
 Volume 4,094.200 Cu. Ft.  
 Rock Pressure 1375 lbs. 12 hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water 60 feet \_\_\_\_\_ feet  
 Salt water 900 feet \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
18			Kind of Packer
18 <u>2/8"</u>		307'	
10	<u>Pulled</u>	1368'	Size of
8 <u>5/8"</u>		1951'	
7"		5015'	Depth set
5 3/16			
3			Perf. top
2		5120'	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
Soil			0	10			
Clay			10	50			
Sand			50	105			
Slate			105	120			
Sand			120	150			
Slate			150	180			
Sand			180	235			
Slate			235	265			
Sand			265	285			
Slate			285	300			
Sand			300	310			
Slate			310	315			
Sand			315	425			
Slate & Lime			425	455			
Sand			455	485			
Slate			485	525			
Sand			525	565	Water 60'		
Slate			565	600			
Sand			600	635	Hole full water 900'		
Slate			635	645			
Sand			645	695	Water 1460' 2-10" bailer in 12 hours		
Slate			695	710			
Sand			710	785	Gas 1696' in Injun		
Slate			785	830			
Salt Sand			830	1335	Gas 1792'		
Slate & Lime			1335	1344			
Red Rock			1344	1355	Gas & Oil 1385'		
Slate			1355	1365			
Lime			1365	1372	Gas 5109-5118' 92/10 W 7" 23# 4,094 H		
Slate			1372	1378			
Maxon Sand			1378	1475			
Slate			1475	1477	NOT SHOT		
Lime			1477	1480			
Slate			1480	1490			
Little Lime			1490	1515	FINAL OPEN FLOW - 4,094 H - Criskany		
Slate			1515	1518	12 Hr. R.P. 1375#		
Lime			1518	1521			
Slate			1521	1525			
Big Lime			1525	1693	Shut in 11-12-52 in 2" tubing.		



(Over)

04/02/2021

APPROVED  
By: *J.R. Chinn*  
Owner: UNITED FUEL GAS COMPANY

Date: January 9, 1953

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Slate			1693	1693			
Injun Sand			1696	1722			
Slate			1722	1722			
Sand			1728	1735			
Red Injun Sand			1735	1750			
Slate			1750	1755			
Sand			1755	1775			
Slate & Shells			1775	1880			
Melt Sand			1880	1945			
Slate			1945	1950			
Limo			1950	1957			
Slate & Shells			1957	3410			
Brown Shale			3410	3450			
Slate			3450	3820			
Brown Shale			3820	3940			
Slate & Shells			3940	4550			
Brown Shale			4550	4600			
Slate			4600	4660			
Brown Shale			4660	4885			
Slate			4885	4935			
Brown Shale			4935	4983			
Coniferous Lime			4983	5104			
Ordinary Sand			5104	5120			
Total depth			5120				

4703901585F

04/02/2021

Dallas Oil & Gas Company  
COMPANY

SERIAL WELL NO. 7230

LEASE NO. 49393

MAP SQUARE 73-63

RECORD OF WELL NO. on the	CASING AND TUBING				TEST BEFORE SHOT
	SIZE	WEIGHT	USED IN DRILLING	LEFT IN WELL	
<u>Marrett Reservation</u> farm of <u>351.5</u> Acres					<u>2</u> /10 of Water in <u>7' 23"</u> inch
in <u>1st</u> District	<u>13</u>	<u>48</u>	<u>334'</u>	<u>319'</u>	/10 of Merc. in _____ inch
<u>Amelia</u> County	<u>10</u>	<u>40.5</u>	<u>1265'</u>	<u>1265'</u>	Volume <u>4,094</u> Cu. ft.
State of: <u>West Virginia</u>	<u>8</u>	<u>24</u>	<u>2163'</u>	<u>1968'</u>	TEST AFTER SHOT
Field: <u>Clendenin</u>	<u>7</u>	<u>23</u>	<u>5311'</u>	<u>5047'</u>	/10 of Water in _____ inch
Rig Commenced <u>194</u>	<u>2 3/8"</u>	<u>4.6</u>	<u>5222'</u>	<u>5127'</u>	/10 of Merc. in _____ inch
Rig Completed <u>194</u>	<u>2</u>				Volume _____ Cu. ft.
Drilling Commenced <u>July 11, 1952</u> <u>194</u>					Hours After Shot _____
Drilling Completed <u>Nov. 12, 1952</u> <u>194</u>					Rock Pressure <u>12-12. 1575</u>
Drilling to cost _____ per foot					Date Shot _____
Contractor is: <u>Summer &amp; Lining</u>					Size of Torpedo _____
Address: <u>Clendenin, W. Va.</u>					Oil Flowed _____ bbls. 1st 24 hrs.
					Oil Pumped _____ bbls. 1st 24 hrs.
Driller's Name <u>Francis Gill</u>					
<u>Thomas Clark</u>					
Elevation: <u>773.23</u>					

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Top Soil	0	10		ster at 60 feet
Clay	10	50		ster at hole full 900 = 10
Sand	50	105		
Slate	105	120		
Sand	120	150		
Slate	150	180		
Sand	180	235		
Slate	235	265		
Sand	265	285		
Slate	285	300		
Sand	300	310		13 3/8 in. and 307'
Slate	310	315		
Sand	315	415		
Slate & Lias	415	475		
Sand	475	485		
Slate	485	525		
Sand	525	565		

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WV Department of  
Environmental Protection

04/02/2021

SERIAL WELL NO. 7230

LEASE NO. 49098

MAP SQUARE 7J-6J

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Sand	525	565		
Slate	565	600		
Sand	600	635		
Slate	635	645		
Sand	645	695		
Slate	695	710		
Sand	710	785		
Slate	785	830		
Salt Sand	830	1335		
Slate & Lime	1335	1344		
Red Rock	1344	1356		
Slate	1356	1365		
Line	1365	1372		10 3/4 OD 40.50/ 8 HD Casing Run 1368' Cable Meas.
Slate	1372	1378		
Maxon Sand	1378	1475		
Slate	1475	1477		
Line	1477	1480		
Slate	1480	1490		
Little Line	1490	1515		Water 1460 2/10 bailer in 14 hrs.
Line	1515	1521		
Slate	1521	1525		
Big Line	1525	1693		
Slate	1693	1696		Top of Gas at 1696 Engine Sand
Injun Sand	1696	1722		
Slate	1722	1728		
Sand	1728	1735		
Red Injun	1735	1750		
Slate	1750	1755		Gas at 1792
Sand	1755	1775		
Slate & Shells	1775	1880		
Wear Sand	1880	1945		Gas & Oil 1885 Wier
Slate	1945	1950		
Line	1950	1957		
Slate & Shells	1957	3410		
Brown Shale	3410	3450		
Slate	3450	3820		

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WV Department of  
Environmental Protection



4703901585P

WW-4A  
Revised 6-07

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Environmental Protection

1) Date: 12/24/2020  
2) Operator's Well Number  
Coco B 7230  
3) API Well No.: 47 - 039 - 01585

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:	5) (a) Coal Operator
(a) Name Patrick A. and Delores H. Taylor	Name Not operated.
Address 128 Pinewood Road	Address
Elkview, WV 25071	
(b) Name	(b) Coal Owner(s) with Declaration
Address	Name
	Address
(c) Name	Name
Address	Address
6) Inspector Terry Urban	(c) Coal Lessee with Declaration
Address PO Box 1207	Name
Clendenin, WV 25045	Address
Telephone 304.549.5915	

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: James Amos *[Signature]* 12/29/20  
 Its: Team Leader - Well Engineering and Technology  
 Address 48 Columbia Gas Road  
 Sandyville, WV 25275  
 Telephone 304.373.2412



Subscribed and sworn before me this 29th day of December, 2020  
*[Signature]* Notary Public  
 My Commission Expires June 19, 2022

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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

04/02/2021

4703901585P

Columbia Gas Transmission, LLC

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



December 24, 2020

Patrick and Delores Taylor  
128 Pinewood Road  
Elkview, WV 25071

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 7230 (API 47-039-01585).

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,

A handwritten signature in black ink that reads "Jim Amos".

Jim Amos  
Team Leader  
Well Engineering & Technology  
Columbia Gas Transmission, LLC

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WV Department of  
Environmental Protection

4703901585P

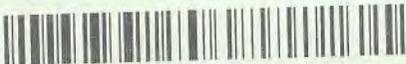


**SENDER: COMPLETE THIS SECTION**

- 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:

PATRICK & DELORES TAYLOR  
128 PINWOOD RD  
ELKVIEW, WV 25071



9590 9402 3688 7335 3538 02

2. Article Number (Transfer from carrier label)  
7017 0660 0001 0359 5637

Restricted Delivery

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X Patrick A. Taylor

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

1/8/21

D. Is delivery address different from item 1?  Yes

If YES, enter delivery address below:  No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

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Office of Oil and Gas

JAN 13 REC'D

WV Department of  
Environmental Protection

04/02/2021

**SURFACE OWNER WAIVER**

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WV Department of  
Environmental Protection

Operator's Well  
Number

Coco B 7230

**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

**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

Date  
04/02/2021

WW-4B

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JAN 13 2021

WV Department of  
Environmental Protection

API No. 47-039-01585P  
Farm Name \_\_\_\_\_  
Well No. Coco B 7230

**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 \_\_\_\_\_

04/02/2021

4703901585F

WW-9  
(5/16)

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WV Department of  
Environmental Protection

API Number 47 - 039 - 01585  
Operator's Well No. \_\_\_\_\_

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 a tributary of the Elk River Quadrangle Blue Creek

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  TW

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)
- Underground Injection ( UIC Permit Number 34-119-28776-, 34-167-23862 )
- 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: no

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A

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

Additives to be used in drilling medium? \_\_\_\_\_

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

-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 James E. Amos 12/29/20

Company Official (Typed Name) James E. Amos

Company Official Title Team Leader, Well Engineering & Technology

Subscribed and sworn before me this 29th day of December, 2020

[Signature]

Notary Public

My commission expires June 19, 2022



04/02/2021

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

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Seed Mixtures

**Temporary**

**Permanent**

Seed Type	lbs/acre
Annual Rye	40

Seed Type	lbs/acre
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: \_\_\_\_\_

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

Title: \_\_\_\_\_

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

12-29-20

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 a tributary of the Elk River Quad: Blue Creek  
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 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 equipment will be 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 - 0.33 miles. Rippling Waters Campground (WV9918017) - 13.3 miles.

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

N/A

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. Construction equipment will be inspected daily for leaks or spills.

Signature: *Jim Elm*

Date: 12/29/20

# WV DEP Reclamation Plan - Site Detail

Coco B well 7230 (API 039-01585)

- 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

4703901585P

Coco B - 07230

0.6 acres

PIT  
50' x 10' x 4' deep

Limit of Proposed Disturbance  
on existing well site

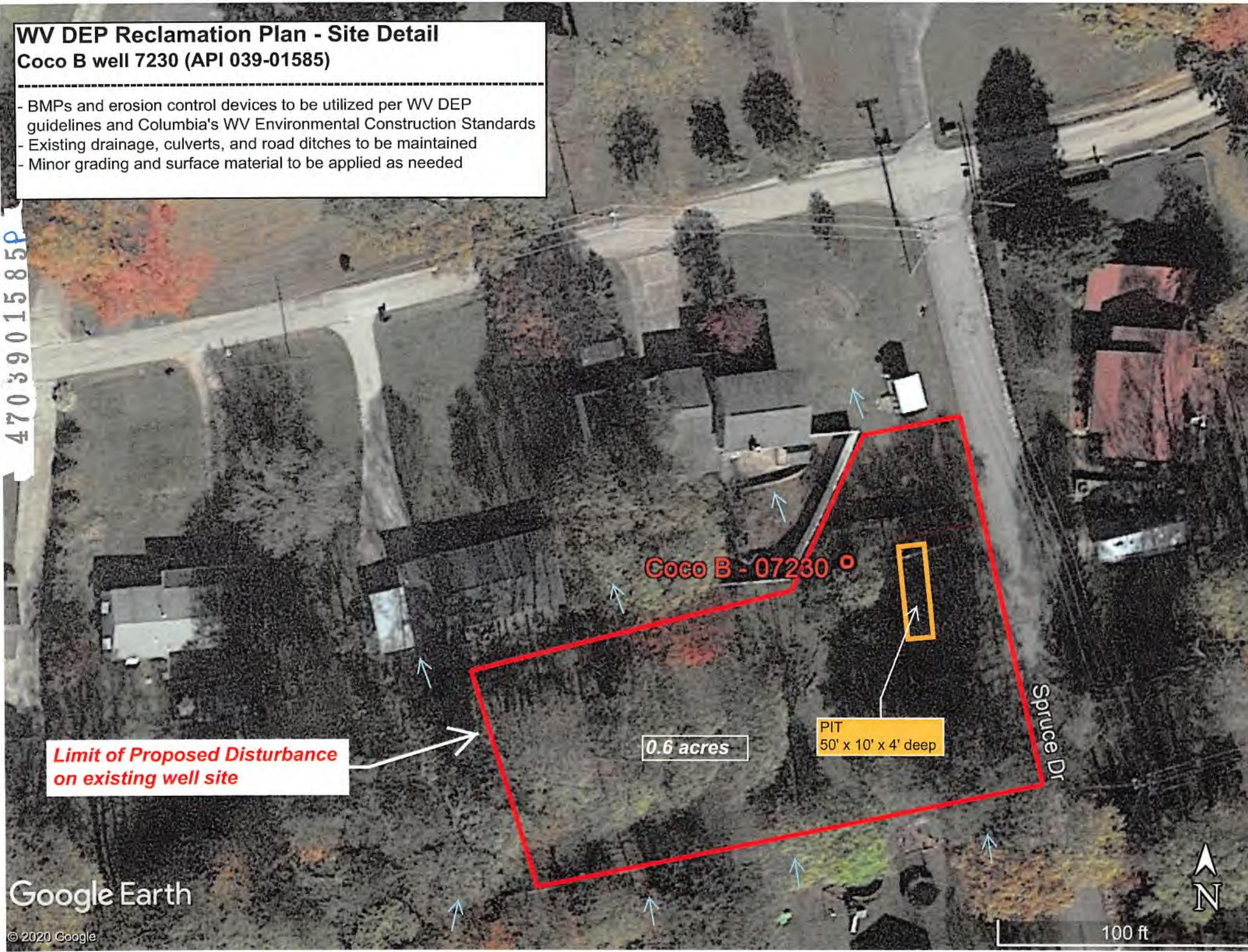
Spruce Dr

Google Earth

© 2020 Google



100 ft



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WV Department of  
Environmental Protection

**WV DEP Reclamation Plan - Site Detail**  
**Coco B well 7230 (API 039-01585)**

- 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**

0.6 acres

Coco B - 07230

Spruce Dr

Google Earth

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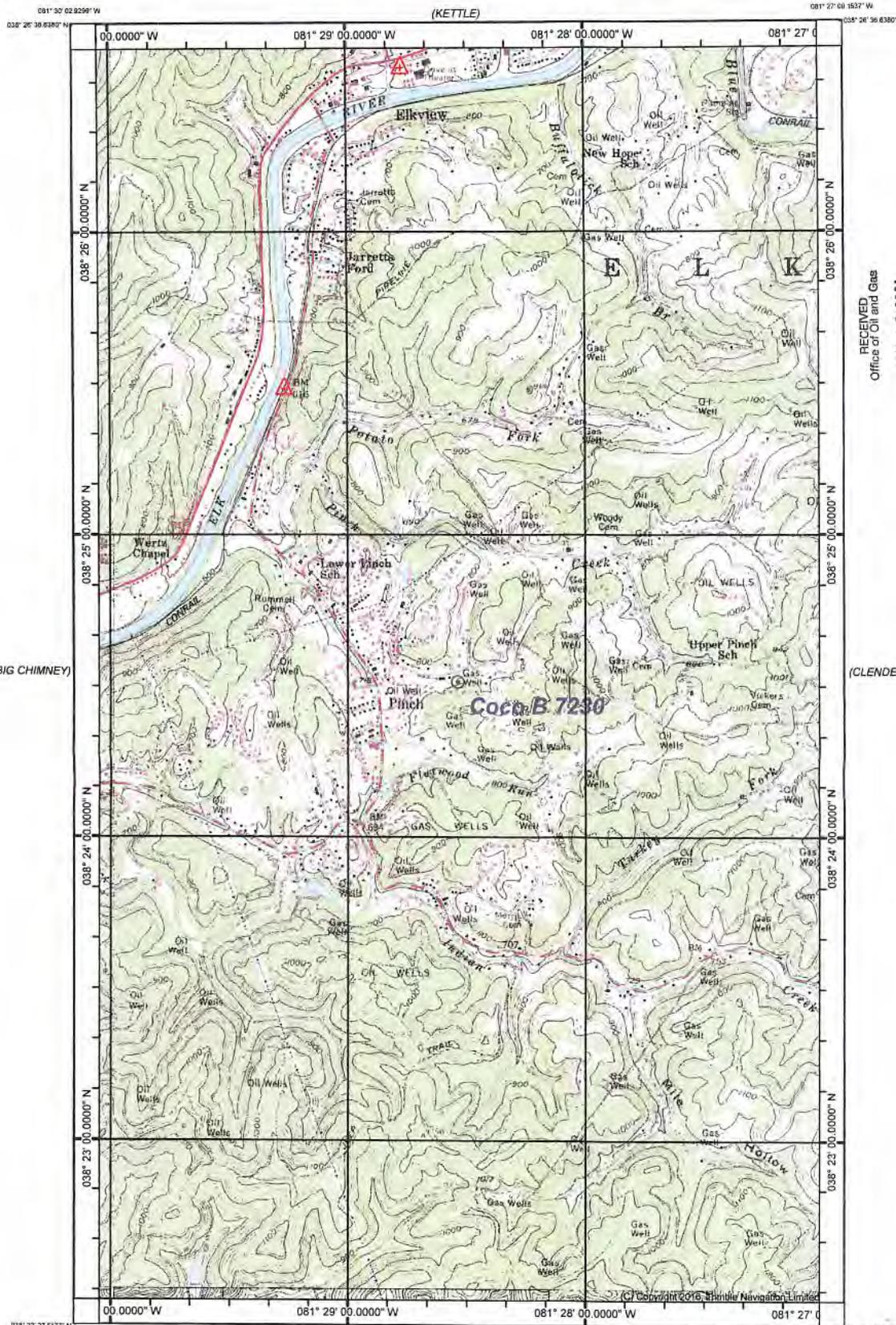
100 ft



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WV Department of  
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(CHARLESTON EAST)

(MAMMOTH)

Produced by Trimble Terrain Navigator Pro  
Topography based on USGS 1:24,000 Maps  
North American 1983 Datum (NAD83)

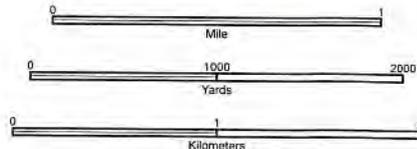
To place on the predicted North American 1927 move the  
projection lines 11M N and 14M E

Declination



GN 0.29° W  
MN 7.87° W

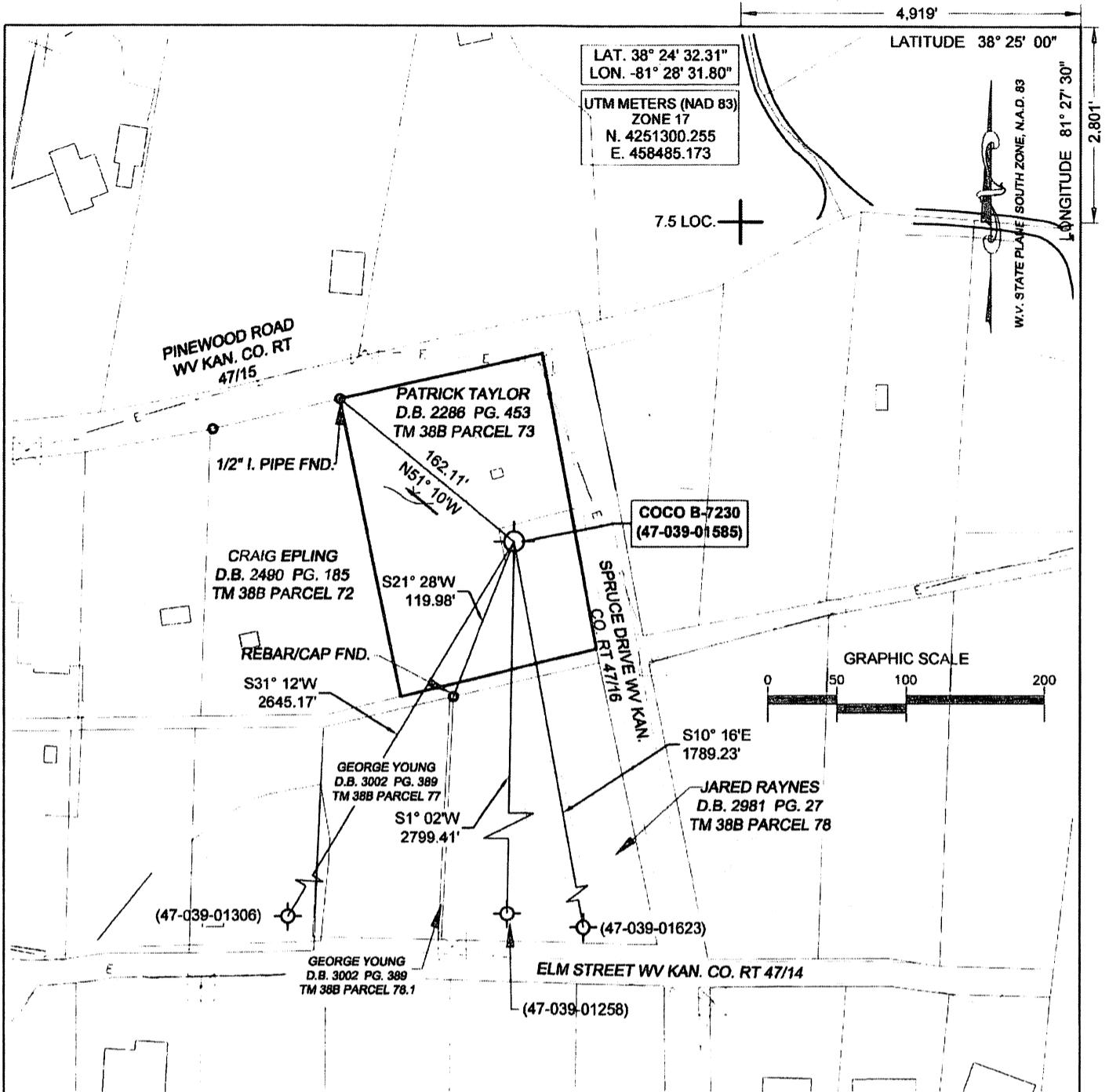
(QUICK)  
SCALE 1:24000



CONTOUR INTERVAL 20 FT

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

04/02/2021

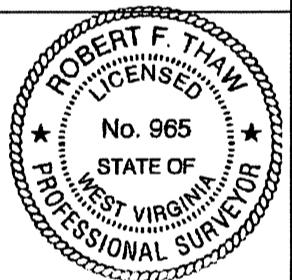


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No. 2001-3079-001-009  
 DRAWING No. 2001-3079-001-009  
 SCALE 1"=100'  
 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) R. Thaw  
**ROBERT F. THAW PS #965**



FORM IV-6 (8-78)

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



DATE OCTOBER 22 2020  
 OPERATOR'S WELL No. 7230  
 API WELL No.

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  STATE 47 COUNTY 039 PERMIT 01585

(IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 776.42' WATER SHED PINCH CREEK A TRIBUTARY OF THE ELK RIVER  
 DISTRICT ELK COUNTY KANAWHA  
 QUADRANGLE BLUE CREEK, WV

SURFACE OWNER PATRICK A. AND DELORES H. TAYLOR ACREAGE 0.72 ACRE  
 OIL & GAS ROYALTY OWNER MATT AMOS, ET AL

LEASE ACREAGE 937 LEASE NO. 1049098-000

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE   
 STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION   
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 04/02/2021  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG

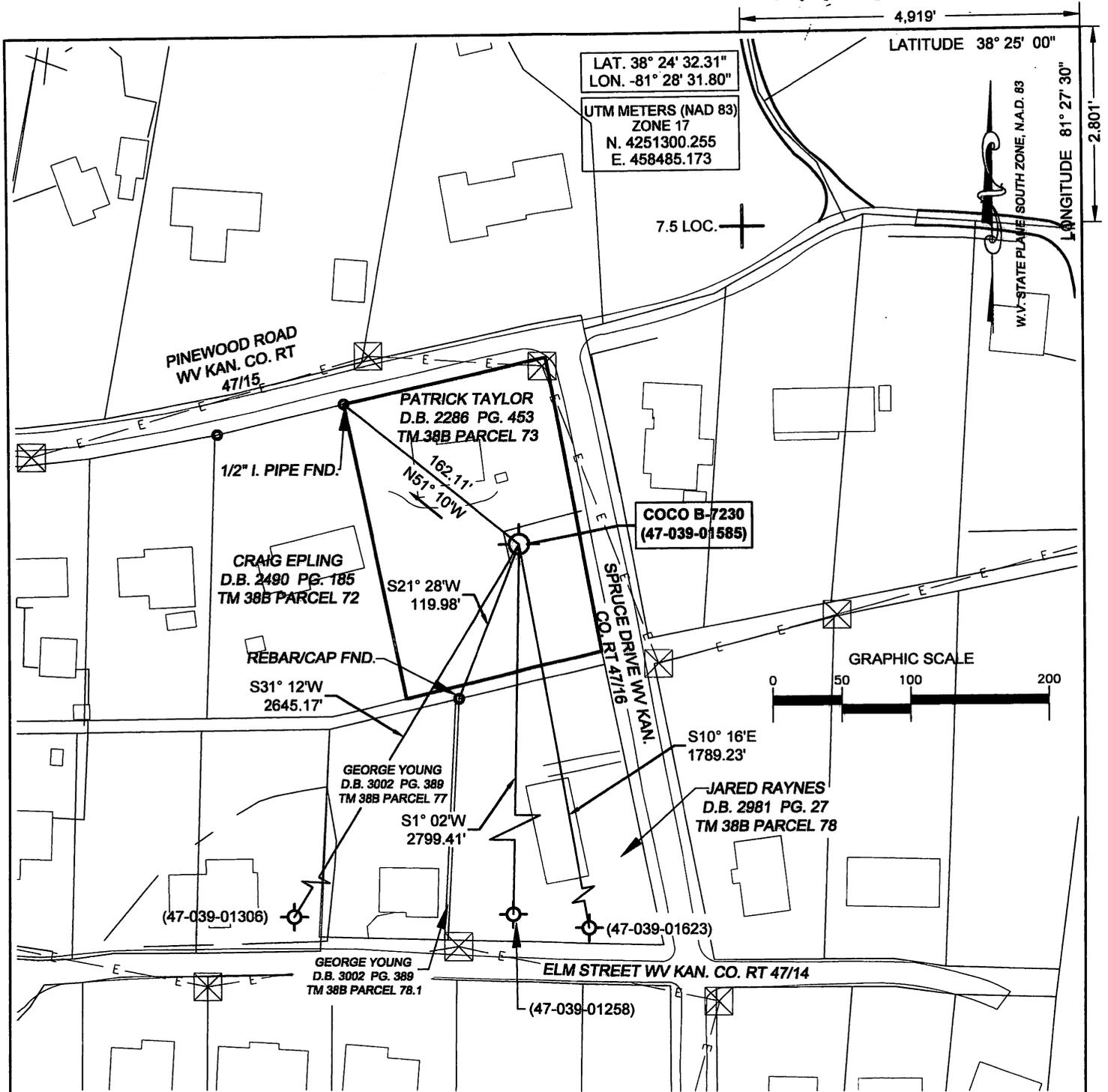
TARGET FORMATION ORISKANY ESTIMATED DEPTH 5120

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

DESIGNATED AGENT JAMES AMOS  
 ADDRESS 48 COLUMBIA GAS ROAD SANDYVILLE, WV 25275

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 JAN 13 2021  
 Environmental Protection  
 WV Department of Environmental Protection

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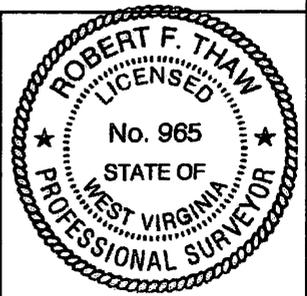


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No. 2001-3079-001-009  
 DRAWING No. 2001-3079-001-009  
 SCALE 1"=100'  
 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) R.F. Thaw  
**ROBERT F. THAW PS #965**



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



DATE OCTOBER 22 2020  
 OPERATOR'S WELL No. 7230  
 API WELL No.

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  STATE 47 COUNTY 039 PERMIT 01585P  
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 776.42' WATER SHED PINCH CREEK A TRIBUTARY OF THE ELK RIVER  
 DISTRICT ELK COUNTY KANAWHA  
 QUADRANGLE BLUE CREEK, WV

SURFACE OWNER PATRICK A. AND DELORES H. TAYLOR ACREAGE 0.72 ACRE  
 OIL & GAS ROYALTY OWNER MATT AMOS, ET AL  
 LEASE ACREAGE 937 LEASE NO. 1049098-000

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE  STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 04/02/2021  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG

TARGET FORMATION ORISKANY ESTIMATED DEPTH 5120  
 WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT JAMES AMOS  
 ADDRESS PO BOX 1273, CHARLESTON, WV 25325-1273 ADDRESS 48 COLUMBIA GAS ROAD SANDYVILLE, WV 25275

FORM IV-6 (8-78)

Columbia Gas Transmission, LLC  
1700 MacCorkle Ave., SE, Charleston, WV, USA 25314



January 12, 2021

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 7075 (039-01258)  
Coco B 7078 (039-01306)  
Coco B 7101 (039-01341)  
Coco B 7228 (039-01623)  
Coco B 7230 (039-01585)  
Coco C 7326 (039-01603)

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

Columbia Gas Transmission  
48 Columbia Gas Rd  
Sandyville, WV 25275  
Attn: Jim Amos

If you have questions, feel free to call.

Regards,

Jim Amos  
Team Leader  
Well Engineering & Technology  
Columbia Gas Transmission, LLC  
Off: 304-373-2412  
Mob: 304-483-0073  
james\_amos@tcenergy.com

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JAN 13 2021

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[www.tcenergy.com](http://www.tcenergy.com)

04/02/2021