



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Monday, March 15, 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 7101
47-039-01341-00-00

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: 7101
Farm Name: TRIGAUX, KENNETH A. & J.
U.S. WELL NUMBER: 47-039-01341-00-00
Vertical Plugging
Date Issued: 3/15/2021

Promoting a healthy environment.

03/19/2021

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

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 7101
3) API Well No. 47-039 - 01341

RECEIVED
Office of Oil and Gas

JAN 13 2021

STATE OF WEST VIRGINIA
WV Department of Environmental Protection
OFFICE 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 692 feet Watershed Indian Creek
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.

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

03/19/2021

Objective: Plug and Abandon LAST PROFILE UPDATE:

TITLE: Plug and Abandon			WELL: 7101		WORK TYPE: WR	
FIELD: Coco B			SHL (Lat/ Long)		API:	
STATE: WV			BHL (Lat/Long)		CNTY:	
DIST:						
EXISTING TUBULAR CONFIGURATION	OD (inches)	WEIGHT (PPF)	GRADE	THREAD	DEPTH (ft)	
					TOP	BOTTOM
Conductor						
Surface						
Intermediate1						
Intermediate2						
Production						
Tubing						
Perforations						
Perforations						
Perforations						
Wellhead						

FORMATION: Oriskany
 DEPTH: See below.
 PAY:
 TD:
 PBTD:
 KB-GL:
 CSG DEPTH WELLBORE SCHEMATIC

4703901341P

D.H. EQUIPMENT	TYPE	DEPTH (ft)
PACKER INFO: Upper		
	Lower	
NIPPLE PROFILE INFO: Upper		
	Lower	
SSSV INFO:		
CEMENT INFO	TOC (ft)	

REFER TO WELL SUMMARY REPORT and WELLBORE DIAGRAM

RECEIVED
 Office of Oil and Gas
 JAN 13 2021
 WV Department of
 Environmental Protection

PROPOSED YEAR: 2020	ERCB PERMIT REQD: YES ___ NO <u>X</u>	(Internal) PDS Required: YES ___ NO ___
PREPARED BY: Jim Amos	DT. APPLIED: ISSUED:	APPROVED: 
PREP DATE: 12/21/2020	REVIEWED BY:	James Amos Principal Engineer Signed by: 83aa62d7-b683-404d-8328-f042f2e33502

Objective: Plug and Abandon

LAST PROFILE UPDATE:

TITLE: Plug and Abandon	WELL: 7101			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****

4703901341P

- 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 Dig down and verify that old/lower casing head is connected to 8-5/8" casing - if not consult with WET engineer for next steps to take.
 - 10 Document and report to WET engineer the casing and annular pressures.
 - 11 Blow down all annuli, replace fittings on both sides of old/lower casing head with 2" full port XXH, and leave annuli open to atmosphere for monitoring.
 - 12 Load/top 2x7 annulus with kill fluid.
 - 13 Kill well with viscosified fluid. Spearhead 10 bbls LCM pill ahead.
 - 14 Load 7x8 and 8x10 annuli with kill fluid. Load all remaining annuli with FW. Document volumes.
 - 15 Dig around base of wellhead to uncover casing tops and remove cement if present.
 - 16 MIRU service rig.
 - 17 Remove wellhead components down to tbg head.
 - 18 Screw in 2-3/8" nipple with full port valve into top of hanger.
 - 19 Strip over and NU 7-1/16" Cameron BOPE (blind/shear + pipe + annular). Will need kill/choke outlets below blind/shear rams.
 - 20 Function and pressure test BOPE to low (250 psig) and high (2500 psig).
 - 21 Unseat tubing/packer. Note that packer was set in tension with 12 Klbs over tubing string weight.
 - 22 Circulate kill weight fluid surface to surface - be prepared for gas in fluid returns.
 - 23 Pull tubing/packer **SLOWLY** to prevent swabbing - TRACK TRIP FILL-UP VOLUMES to monitor for gas influx / kick.
 - 24 TIH with 2-3/8" work string with cut-lip shoe and clean to TD.
 - 25 Spot balanced cement plug from TD to 4200'. *TD ≈ 507'*
 - 26 POOH to above cement, 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 4400' then spot a second balanced cmt plug.
 - 28 Wireline set CIBP above cement plug.
 - 29 Top off 7" with kill fluid and perform 500 psig pressure test to verify integrity of BP.
 - 30 Top off 7x8 and 8x10 annulus with kill fluid again.
 - 31 Plumb 7x8 and 8x10 annuli to flowback tank with variable choke.
 - 32 Perforate 7" csg above CIBP and attempt to circulate to surface or establish injection. Do not perforate deeper than 4490' - possible cement behind 7" csg.
- * Consult with WET engineer on results.
- 33A If circulation to surface established, consult with WET engineer for procedure:
- > Circulate kill weight fluid until good kill density fluid is returned.
 - > RIH with sliding-sleeve style cement retainer on work string
 - > Set retainer above perfs
 - > Establish circulation
 - > Squeeze cement behind 7" casing with pre-determined cement volume that occupies no more annular volume than that required to place top of cement at 1900'.
 - > Disengage from retainer, reverse circulate to clean tubulars, and TOH.
 - > WOC 24 hours.
 - > Obtain CBL
- 33B If no circulation to surface, but injection established, consult with WET engineer for procedure:
- > RIH with sliding-sleeve style cement retainer on work string
 - > Set retainer above perfs
 - > Establish injection
 - > Disengage from retainer and spot cement at bottom of work string
 - > Squeeze cement behind 7" casing with pre-determined cement volume that occupies no more than annular volume that required to place top of cement at 1900'.
 - > Disengage from retainer, reverse circulate to clean tubulars, and TOH.
 - > WOC 24 hours.
 - > Obtain CBL

Handwritten signature and date: 12-29-20

PREPARED BY: Jim Amos	REVIEWED BY:	APPROVED:
PREP DATE: #####		

RECEIVED
Office of Oil and Gas

JAN 13 2021

WV Department of
Environmental Protection

03/19/2021

WELL JOB PLAN

Objective: Plug and Abandon

LAST PROFILE UPDATE:

TITLE: Plug and Abandon		WORK TYPE: WR	
FIELD: Coco B	WELL: 7101		
STAT: WV	SHL (Lat/Long): 0 0	API: 0	
TWP: 0	BHL (Lat/Long): 0 0	CNTY: 0	

PROCEDURE CONTINUED

33C If no circulation or injection established, consult with WET engineer for procedure:

- > Spot 400' cement plug across squeeze perfs
- > PU and circulate to clean tubulars
- > Pull 10 joints
- > Close BOPs
- > WOC 4 hours
- > Tag cement top
- > TOOH.

4703901341 P

- 34 ND BOPE and remaining wellhead components.
- 35 Weld pulling nipple on 7" casing and dress top of 8-5/8" csg to accommodate BOPE.
- 36 Strip and NU 11" double ram (blind + pipe) and annular to 8-5/8" csg. Need kill/choke outlets below blind ram.
- 37 Function test and attempt to pressure test low (200 psig) and high (1000 psig).
- 38 Wireline freepoint and cut/pull all 7" csg that is free.
- 39 Change pipe rams to 2-3/8" and function test.
- 40 TIH with work string and spot balanced cement plug from retainer or top of last cement plug to either 300' above 7" csg stub or 50' below 8-5/8" csg shoe, whichever is shallowest.
- 41 POOH to above cement, reverse circulate to clean tubulars, pull 5 joints, close pipe rams, and WOC.
- 42 WOC minimum 4 hours. RIH and tag cement. If cement top is less than 100' from top of 7" csg stub then install second cement plug.
- 43 ND BOPE.
- 44 Weld pulling nipple on 8-5/8" casing and dress top of 10-3/4" csg to accommodate BOPE.
- 45 Strip 11" spool (w/ kill + choke outlets) and annular over stub and NU to 10-3/4" csg. Install 8-5/8" pipe rams.
- 46 Function test and attempt to pressure test low (200 psig) and high (500 psig).
- 47 Attempt to pull all 8-5/8" csg. If can't pull all then wireline freepoint and cut/pull all that is free.
- 48 TIH with work string and install balanced cement plug from top of last cement plug, to either 300' above 8-5/8" csg stub or 100' below 10-3/4" csg shoe, whichever is shallowest.
- 49 POOH to above cement, reverse circulate to clean tubulars, pull 5 joints, close annular, and WOC.
- 50 WOC minimum 4 hours, RIH and tag cement. If cement top is less than 100' from top of 8-5/8" csg stub then install second cement plug.
- 51 ND BOPE.
- 52 Weld pulling nipple on 10-3/4" csg.
- 53 Attempt to pull all 10-3/4" csg. If can't pull all then wireline freepoint and cut/pull all that is free.
- 54 TIH with work string and install balanced cement plug from top of last cement plug, to either 300' above 10-3/4" csg stub or 100' below 13-3/8" csg shoe, whichever is shallowest.
- 55 POOH to above cement, reverse circulate to clean tubulars, pull 5 joints, and WOC.
- 56 WOC minimum 4 hours. RIH and tag cement. If cement top is less than 100' from top of 10-3/4" csg stub then install second cement plug.
- 57 Weld pulling nipple on 13-3/8" csg.
- 58 Drive 10 - 20 ft of 16" conductor.
- 59 Attempt to pull all 13-3/8" csg. If can't pull all then wireline freepoint and cut/pull all that is free.
- 60 TIH with work string and install balanced cement plug from top of last cement plug to surface.
- 61 Top off wellbore and all annuli with cement.
- 62 RDMO service rig.
- 63 Erect monument per state regulations. Reclaim location and lease road.
- 64 P&A complete.

Aug W. [Signature]
12-29-20

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

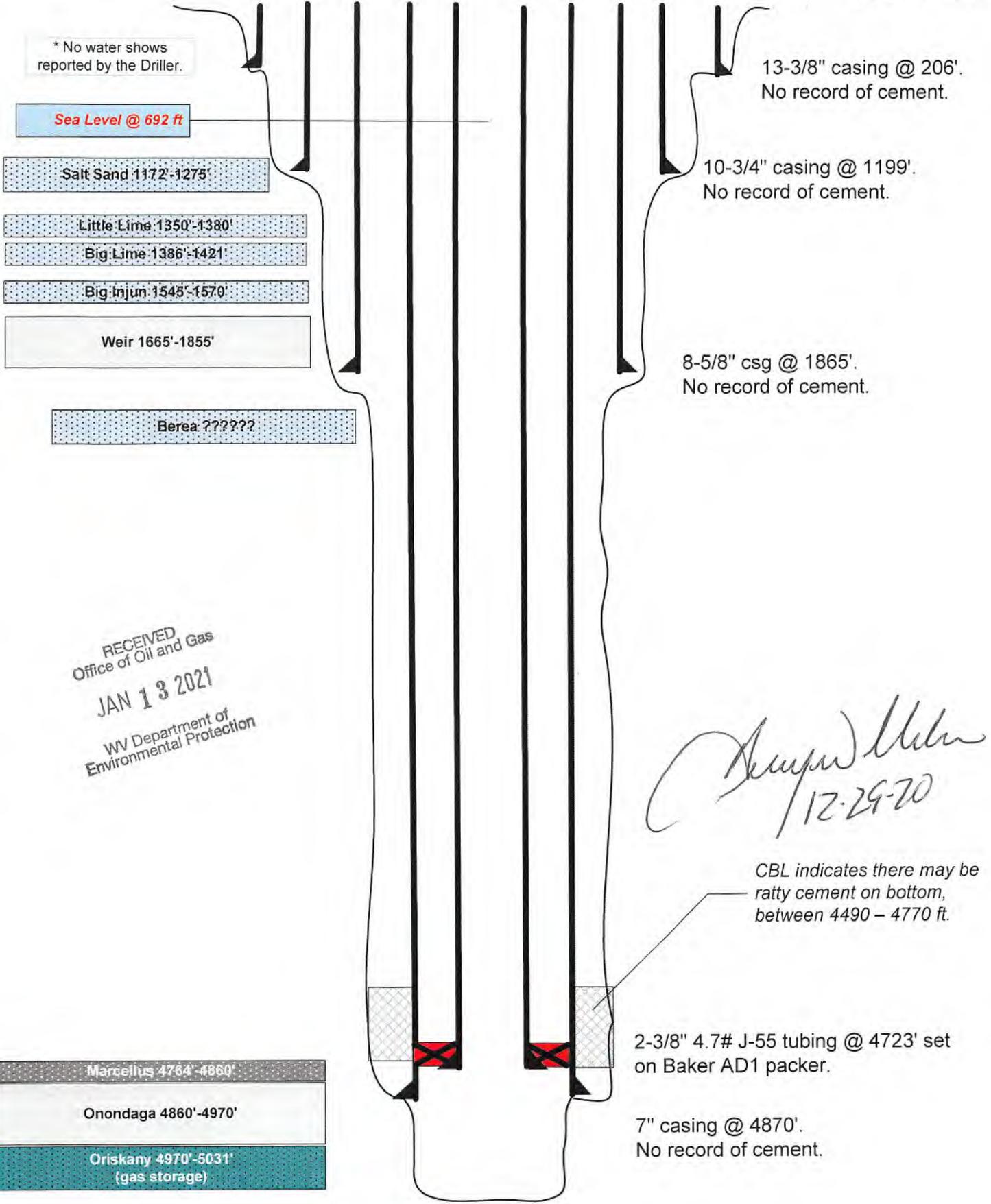
RECEIVED
Office of Oil and Gas
JAN 13 2021
WV Department of
Environmental Protection

03/19/2021

~ not to scale ~

4703901341^f COCO B 7101

Prior to P&A
(as of 10/15/2020)



RECEIVED
Office of Oil and Gas
JAN 13 2021
WV Department of
Environmental Protection

[Signature]
12-29-20

TD 5041'

03/19/2021

~ not to scale ~

4703901341P

COCO B 7101

Proposed P&A

(as of 12/9/2020)

* No water shows reported by the Driller.

Drive 10' of 16" casing and pull 13-3/8" casing

Sea Level @ 692 ft

10-3/4" casing @ 1199'.
No record of cement.
Pull all casing that is free.

Salt Sand 1172'-1275'

Little Lime 1350'-1380'

Big Lime 1386'-1421'

Big Injun 1545'-1570'

Weir 1665'-1855'

8-5/8" casing @ 1865'
No record of cement.
Pull all casing that is free.

Berea ??????

RECEIVED
Office of Oil and Gas
JAN 13 2021
WV Department of
Environmental Protection

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

Henry W. White
12-29-20

Cement retainer

An attempt will be made to perf and squeeze cement behind 7" csg. All remaining free pipe will be cut/pulled out of well.

CBL indicates there may be ratty cement on bottom, between 4490 - 4770 ft.

Bridge plug

2-3/8" 4.7# J-55 tubing @ 4723' set on Baker AD1 packer. Tubing/packer to be pulled.

Mariellus 4764'-4860'

Onondaga 4860'-4970'

Oriskany 4970'-5031'
(gas storage)

7" casing @ 4870'.
No record of cement.
Squeeze cement and pull remainder of casing that is free.

TD 5041'

03/19/2021

47039013416

Colo B-7101 - Observation Well

7/01

Note:
Purchased from G. C. Krebs
7-1-50(F-31020)
SERIAL WELL NO. 6612

UNITED FUEL GAS COMPANY
CONTRACT

LEASE NO.

MAP SQUARE

RECORD OF WELL NO. U-6612 on the		CASING AND TUBING				TEST BEFORE SHUT	
M. F. Matheny (area of 75 Acres		SIZE	WEIGHT	USED IN DRILLING	LEFT IN WELL	/10 of Water in	
in Elk	District	16"		(Pulled	16"	/10 of Merc. in	
Kanawha	County	13-3/8"			206'	Volume	
State of West Virginia		10"			1199'	TEST AFTER SHUT	
Field Clendenin		8"			1865'	/10 of Water in	
Rig Completed	19	7"			4870'	/10 of Water in	
Rig Completed May 6, 1947	19	2"			5015'	Volume 406,000	
Drilling Completed	19					Date After Shut	
Drilling to cost	per foot					Rock Pressure 1640	
Contractor is:						Date Shot	
Address:						Size of Torpedo	
						Oil Flowed	
						Oil Pumped	
Driller's Name						Well abandoned and	
						Plugged	
						1st Perf. Set	
						2nd Perf. Set	

RECEIVED
Office of Oil and Gas
JAN 13 2021

WV Department of
Environmental Protection

DRILLER'S RECORD

FORMATION	FEET	DEPTH	THICKNESS	REMARKS
Slate and Shells	0	60		
Sand	60	125		
Slate	125	136		
Slate	136	141		
Sand	141	160		
Coal	150	164		
Sand	164	177		
Slate	177	200		
Sand	200	220		
Slate	220	310		
Sand	310	330		
Slate	330	345		
Sand	345	420		
Slate	420	464		
Sand	464	480		
Slate	480	512		
Sand	512	558		

03/19/2021

7039013415

(Formerly G. C. Grebs F-21020)

SERIAL WELL NO. 6632

LEASE NO.

MAP SQUARE

RECEIVED
Office of Oil and Gas

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Slate	555	600		
Sandy Department of Environmental Protection	600	620		
Slate and Shells	620	625		
Salt Sand	625	749		
Lime	1173	1180		
Lime	1180	1222		
Sand	1222	1233		
Lime	1233	1250		
Slate	1250	1252		
Sand	1252	1262		
Slate	1262	1275		
Red Rock	1275	1280		
Slate	1280	1293		
Maxon Sand	1293	1350		
Little Lime	1350	1380		
Slate	1380	1386		
Big Lime	1386	1545		
Big Injun	1545	1579		
Slate and Shells	1579	1665		
Sand (Weir)	1665'	1855'		
Slate and Shells	1855	3340		
White Shale	3340	3543		
Brown Shale	3543	3840		
Slate and Shells	3840	3925		
White Slate	3925	4350		
Brown Shale	4350	4720		
White Slate	4720	4764		
Black Shale	4764	4860		
Corniferous Lime	4860	4965		
Oriskany	4970	5017		
Lime	5017	5025		
Sand	5025	5031		
Lime	5031	5043		
TOTAL DEPTH		5043		

Well originally drilled to 5041' and later filled back to 5017'

WW-4A
Revised 6-07

RECEIVED
Office of Oil and Gas

JAN 13 2021

WV Department of
Environmental Protection

1) Date: 12/24/2020
2) Operator's Well Number
Coco B 7101

3) API Well No.: 47 - 039 - 01341

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

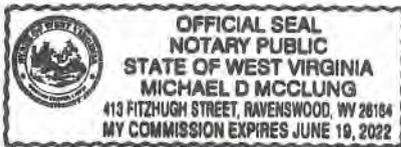
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>David M. and Sandra D. Frercks</u> ✓	Name <u>Not operated.</u>
Address <u>4 Lynn Lou Drive</u>	Address _____
<u>Elkview, WV 25071</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Terry Urban</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 1207</u>	Name _____
<u>Clendenin, WV 25045</u>	Address _____
Telephone <u>304.549.5915</u>	_____

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 *James Amos* 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
Michael D. McClung 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.

4703901341P

RECEIVED
Office of Oil and Gas
JAN 13 2021
WV Department of Environmental Protection



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> 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. 	A. Signature X	<input type="checkbox"/> Agent <input type="checkbox"/> Addressee
1. Article Addressed to: DAVID & SANDRA FRERCKS 4 LYNN LOU DRIVE ELKVIEW, WV 25071	B. Received by (Printed Name)	C. Date of Delivery
 9590 9402 3688 7335 3538 26	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
2. Article Number (Transfer from...) 7017 0660 0001 0359 5613	3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Registered Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery	
PS Form 3811, July 2015 PSN 7530-02-000-9053		Domestic Return Receipt

03/19/2021

4703901341P

SURFACE OWNER WAIVER

RECEIVED
Office of Oil and Gas

JAN 13 2021

WV Department of
Environmental Protection

Operator's Well
Number

Coco B 7101

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 57th 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
03/19/2021

4703901341P



Columbia Gas Transmission, LLC

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

December 24, 2020

David and Sandra Frercks
4 Lynn Lou Drive
Elkview, WV 25071

RECEIVED
Office of Oil and Gas

JAN 13 2021

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 7101 (API 47-039-01341).

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, appearing to read "Jim Amos".

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

WW-4B

API No. 47-039-01341 P
Farm Name _____
Well No. Coco B 7101

RECEIVED
Office of Oil and Gas
JAN 13 2021

N/A

WV Department of
Environmental Protection

**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 _____

4703901341P

WW-9
(5/16)

RECEIVED
Office of Oil and Gas
JAN 13 2021
WV Department of
Environmental Protection

API Number 47 - 039 .01341
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) Indian Creek 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 *tu*

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 34-119-28776-, 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, 20 20

MAD. McClung Notary Public

My commission expires June 19, 2022



Operator's Well No. _____

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

RECEIVED
Office of Oil and Gas

JAN 13 2021

WV Department of
Environmental Protection

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: _____

Comments: _____

Title: _____

Inspector Duff GAS

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): Indian Creek 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.

Indian Creek - 0.01 miles. Rippling Waters Campground (WV9918017) - 13.7 miles.

RECEIVED
Office of Oil and Gas
JAN 13 2021
WV Department of
Environmental Protection

RECEIVED
Office of Oil and Gas
JAN 13 2021

- 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.

RECEIVED
Office of Oil and Gas
JAN 13 2021
WV Department of
Environmental Protection

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: Jan Elm

Date: 12/29/20

WV DEP Reclamation Plan - Site Detail

Coco B well 7101 (API 039-01341)

- 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

PIT B
50' x 10' x 4' deep

Coco B - 07101

0.9 acres

PIT A
50' x 10' x 4' deep

Google Earth

© 2020 Google

Pit Location Map
47-051-00660P



200 ft

WV DEP Reclamation Plan - Site Detail
Coco B well 7101 (API 039-01341)

- 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**

Coco B - 07101

0.9 acres

Google Earth

© 2020 Google

200 ft



RECEIVED
Office of Oil and Gas
JAN 13 2021
WV Department of
Environmental Protection

4703901341P

WV DEP Reclamation Plan - Overview
Coco B well 7101 (API 039-01341)

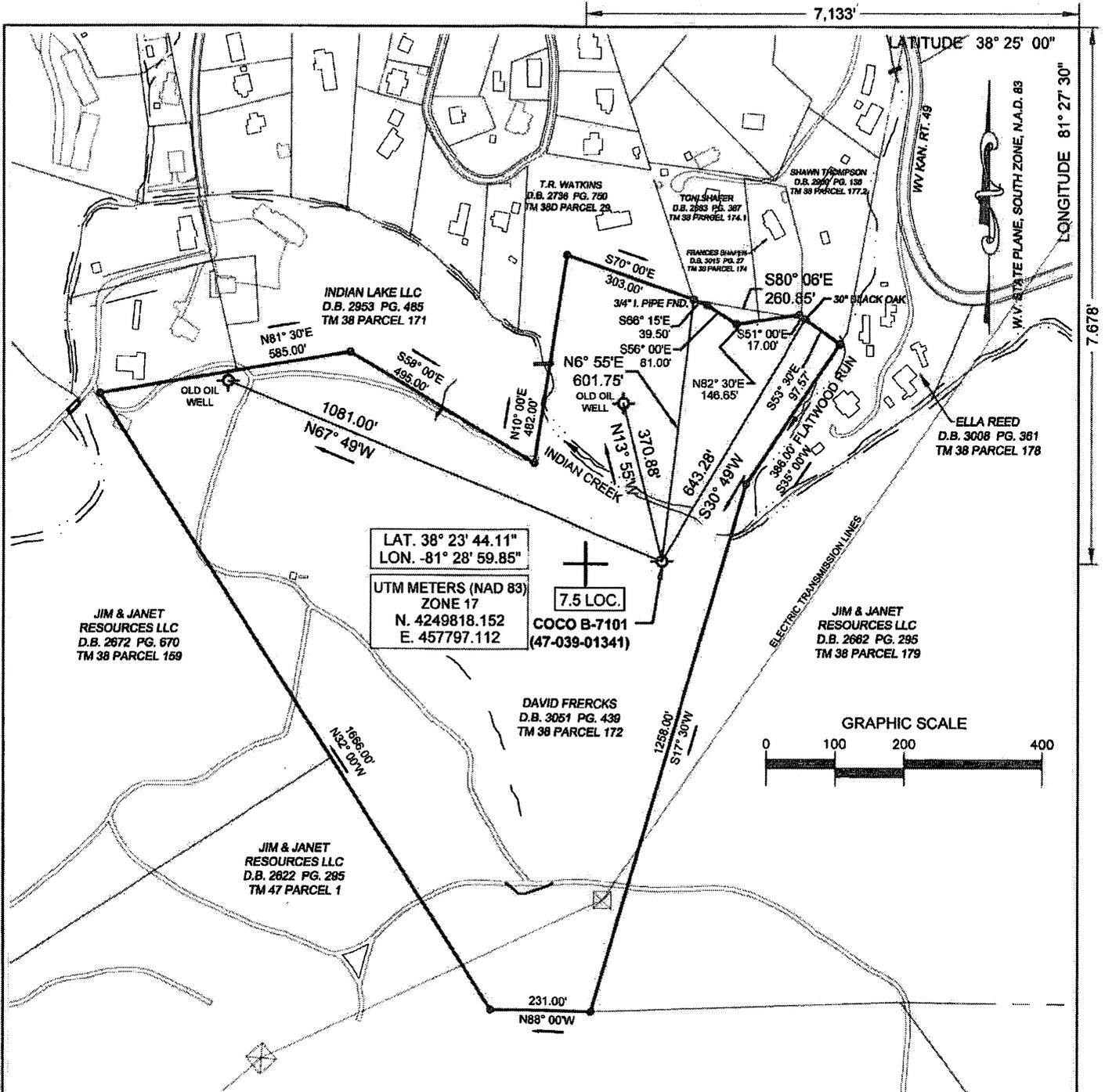
- BMPs and erosion control devices to be utilized per WV DEP guidelines and Columbia's WV Environmental Construction Standards
- Existing drainage, culverts, and road ditches to be maintained
- Minor grading and surface material to be applied as needed



RECEIVED
Office of Oil and Gas
JAN 13 2021
Department of Environmental Protection

RECEIVED
Office of Oil and Gas
JAN 13 2021
WV Department of Environmental Protection

4703901341P

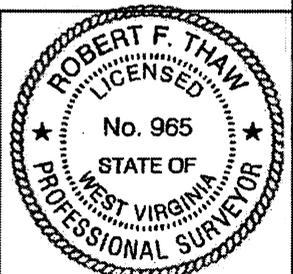


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No. 2001-3079-001-009
 DRAWING No. 2001-3079-001-009
 SCALE 1"=200'
 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. 7101
 API WELL No. 47 039 - 01341

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 691.75' WATER SHED INDIAN CREEK
 DISTRICT ELK COUNTY KANAWHA
 QUADRANGLE BLUE CREEK, WV

SURFACE OWNER DAVID M. AND SANDRA D. FRERCKS ACREAGE 33
 OIL & GAS ROYALTY OWNER GRACE J. MATHENY, WIDOW, ET AL
 LEASE ACREAGE 73 LEASE NO. 1048323-000

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE
 STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 03/19/2021
 PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION ORISKANY ESTIMATED DEPTH 5041
 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 (8-76)

RECEIVED
 Office of Oil and Gas

JAN 13 2021

WV Department of
 Environmental Protection

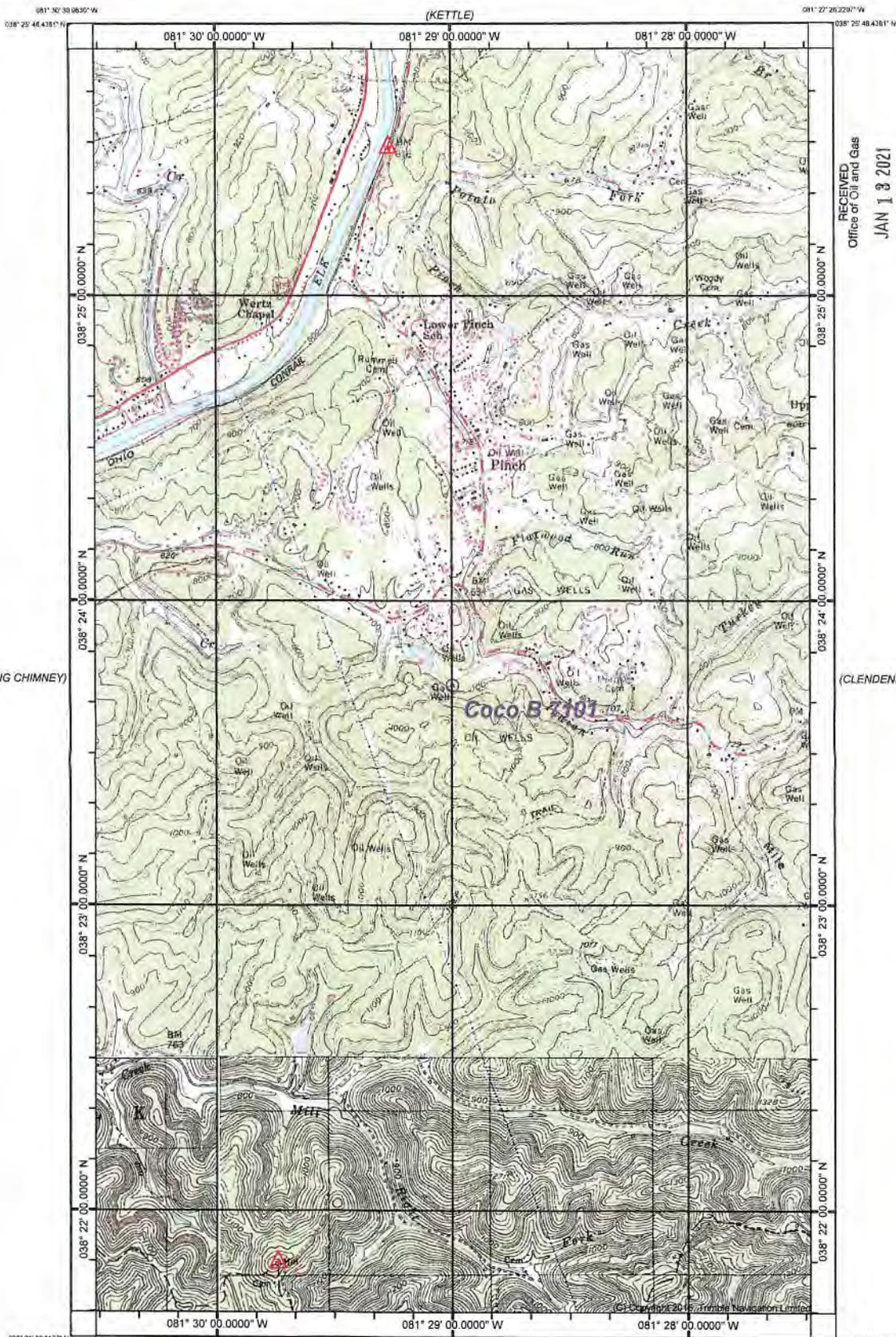
4703901341P

BLUE CREEK QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES

(ROMANCE)



(CLIO)



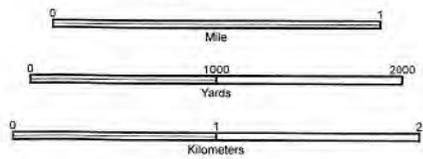
RECEIVED
Office of Oil and Gas
JAN 13 2021
WV Department of
Environmental Protection

(CHARLESTON EAST)

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



(QUICK)
SCALE 1:24000

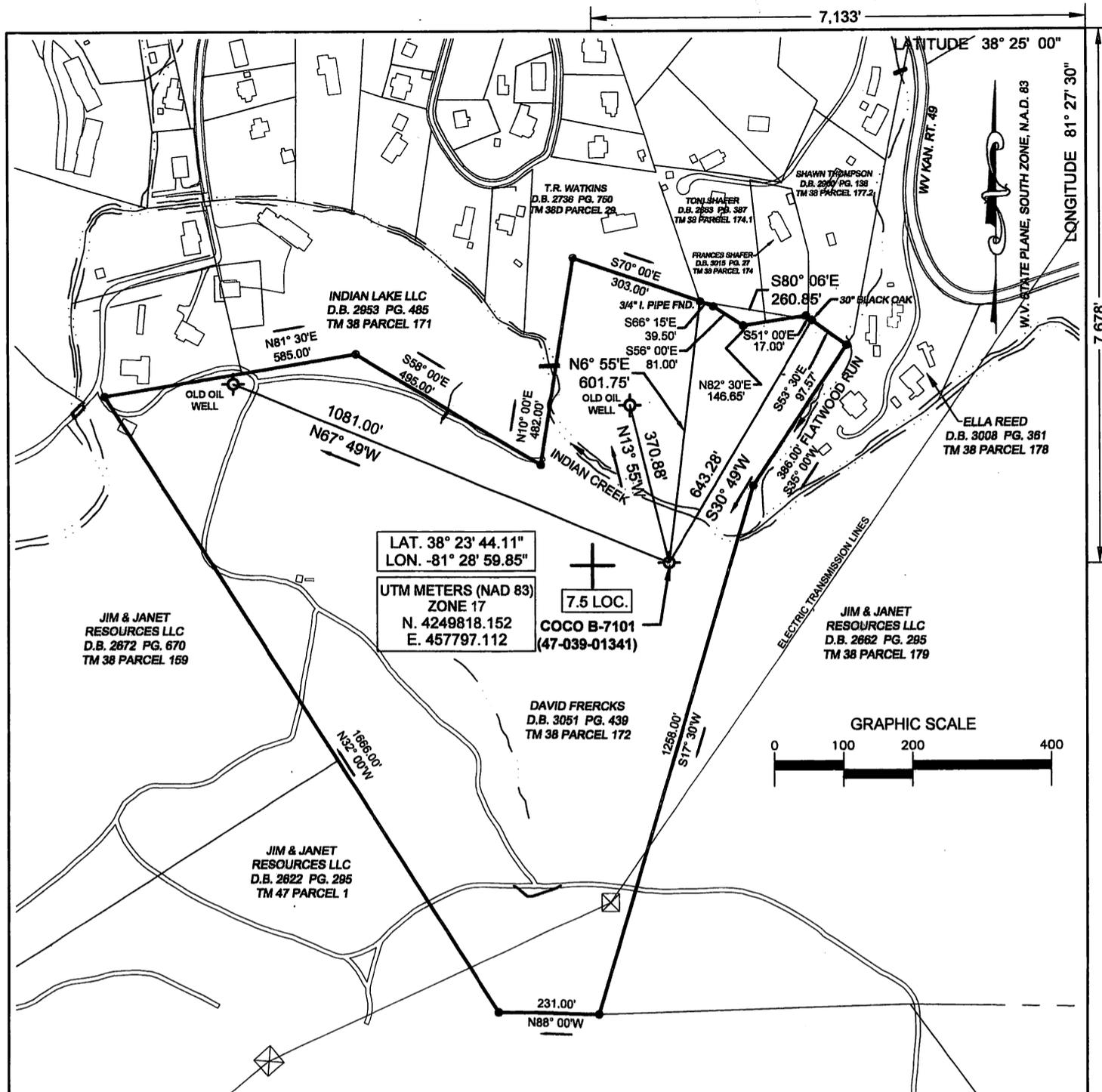


CONTOUR INTERVAL 20 FT

Printed Wed Dec 03, 2020

(MAMMOTH)

38081-D3-TM-024
BLUE CREEK, WV
JAN 1, 1977
03/19/2021

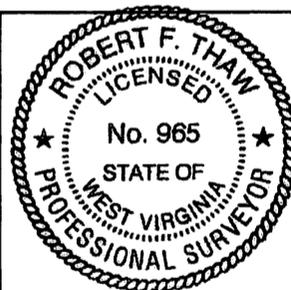


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No. 2001-3079-001-009
 DRAWING No. 2001-3079-001-009
 SCALE 1"=200'
 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. 7101
 API WELL No.

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL STATE 47 COUNTY 039 PERMIT 01341
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 691.75' WATER SHED INDIAN CREEK
 DISTRICT ELK COUNTY KANAWHA
 QUADRANGLE BLUE CREEK, WV

SURFACE OWNER DAVID M. AND SANDRA D. FRERCKS ACREAGE 33

OIL & GAS ROYALTY OWNER GRACE J. MATHENY, WIDOW, ET AL

LEASE ACREAGE 73 LEASE NO. 1048323-000

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 03/19/2021
 PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION ORISKANY ESTIMATED DEPTH 5041

WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT JAMES AMOS
 ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS 48 COLUMBIA GAS ROAD
25325-1273 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 57th Street, SE
Charleston, WV 25304-2345

4703901341

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

RECEIVED
Office of Oil and Gas
JAN 13 2021

Department of
Environmental Protection

RECEIVED
Office of Oil and Gas
JAN 13 2021
WV Department of
Environmental Protection

www.tcenergy.com