



---

west virginia department of environmental protection

---

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

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

Monday, March 29, 2021  
WELL WORK PERMIT  
Vertical / Re-Work

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

Re: Permit approval for COCO-A 12114  
47-039-03212-00-00

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

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

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



James A. Martin  
Chief

Operator's Well Number: COCO-A 12114  
Farm Name: BROWN, JAMES F. III  
U.S. WELL NUMBER: 47-039-03212-00-00  
Vertical Re-Work  
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

---

1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to [DEPOOGNotify@wv.gov](mailto:DEPOOGNotify@wv.gov) within 30 days of commencement of drilling.

CK# 38843 - \$2700<sup>00</sup>  
- 9900<sup>00</sup>

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

1) Well Operator: Columbia Gas Transmission, LLC 307032 Kanawha Elk Blue Creek, WV  
Operator ID County District Quadrangle

2) Operator's Well Number: Coco A 12114 3) Elevation: 700'

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

5) Proposed Target Formation(s): Oriskany Proposed Target Depth: 4970'

6) Proposed Total Depth: 5030' (existing) Feet Formation at Proposed Total Depth: Oriskany

7) Approximate fresh water strata depths: 90', as reported by driller.

8) Approximate salt water depths: None reported by the driller.

9) Approximate coal seam depths: 90-95', as reported by driller. RECEIVED  
Office of Oil and Gas

10) Approximate void depths, (coal, Karst, other): None. FEB 16 2021

11) Does land contain coal seams tributary to active mine? No. WV Department of  
Environmental Protection

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)

Kill, pull tbg, log, remedial cement 7" casing, install 4-1/2" production casing, new wellhead, perforate, stimulate.

EXISTING TD OF 5030' WILL NOT ACCOMODATE 5050' OF 4-1/2" CASING.  
WILL NEED TO DRILL DEEPER ≈ 5080'.  
*g/m* *2-11-21*

\*Existing Casing / Tubing, except for 4-1/2".

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE	INTERVALS	CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill-up (Cu. Ft.)
Conductor						
Fresh Water	13-3/8"	H-40	46	118'	118'	150 sx cmt
Coal						
Intermediate	9-5/8"	H-40	32	1720'	1720'	600 sx cmt
Intermed2	7"	N-80	23	4958'	4958'	200 sx cmt
Tubing	2-3/8"	J-55	4.6		4970'	none
Production	4-1/2"	J-55	11.6	5050'	5050'	120 sx cmt

Packers: Kind: None  
Sizes: 2-3/8" tubing to be removed during permitted rework. 4-1/2" casing to be installed.  
Depths Set \_\_\_\_\_

MAY 16 1979

Form OG-10



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

OIL & GAS DIVISION  
DEPT. OF MINES

Rotary   
Spudder ..  
Cable Tools   
Storage

Quadrangle Blue Creek  
Permit No. Kan-3212

WELL RECORD

Oil or Gas Well Gas

Company Columbia Gas Transmission Corporation  
Address P.O. Box 1273 Charleston, WV  
Farm Benjamin Brown Acres 787  
Location (waters) Blue Creek  
Well No. 12114 Elev. 703.14'  
District Elk County Kanawha  
The surface of tract is owned in fee by Goshorn Heirs  
Address \_\_\_\_\_  
Mineral rights are owned by Benjamin Brown, Trustee  
Address P.O. Box 2746 Chas, WV  
Drilling commenced September 9, 1978  
Drilling completed September 19, 1978  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
Wish \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8"	118.40	118.40	
10 9-5/8"	1720.25	1720.25	Size of _____
8 1/2"			
7 1/2"	4990.50	4990.50	Depth set _____
5 1/16"			
4 1/2"			
3"			Perf. top _____
2 3/8"		4948.35	Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

Open Flow /10ths Water in \_\_\_\_\_ Inch;  
/10ths Merc. in \_\_\_\_\_ Inch  
Volume \_\_\_\_\_ Cu. Ft.  
Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS) \_\_\_\_\_  
WELL FRACTURED (DETAILS) Hydraulic Frac. using 753 bbls. and 28,500 lbs. 20/40 Sand

Attach copy of cementing record.  
CASING CEMENTED 13-3/8" SIZE 118.4 No. Ft. 9-10-78 Date  
Amount of cement used (bags) 150 sbs. Neat  
Name of Service Co. Halliburton Services  
COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES

RESULT AFTER TREATMENT (Initial open flow or b.s.) 2.4 million @ 850 PSIG  
ROCK PRESSURE AFTER TREATMENT 850 PSIG HOURS \_\_\_\_\_  
Fresh Water \_\_\_\_\_ Feet Salt Water Salt Sand Feet 670 to 1040  
Producing Sand Oriskany Sand Depth 4970-5004

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth	Remarks
Sand	Black		0	80			
Coal			80	95			
Sand			95	100			
Shale			100	134			
Sand			134	180			
Shale			180	450			
Sand			450	670			
Salt Sand			670	1040			
Red Rock			1040	1150			
Maxon			1150	1175			
Shale			1175	1185			
LittleLima			1185	1220			
Shale-Pen. Cave			1220	1240			
Big Lime			1240	1424			
Injun Sand			1424	1452			
Wier Sand			1452	1690			
Shale			1690	4858			
Onadoga Lime			4858	4970			
Oriskany			4970	5004			

9-5/8" casing cemented on 9/14/78 with 500 sacks Pozimix and 600 sacks Neat Cement by Halliburton Services.  
4990.50 feet of 7" casing was cemented with 100 sacks Pozimix and 100 sacks Neat Cement on 9/17/78 by Halliburton Services.



WW-2B1  
(5-12)

Well No. Coco A 12114

N/A

West Virginia Department of Environmental Protection  
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

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

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

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

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

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

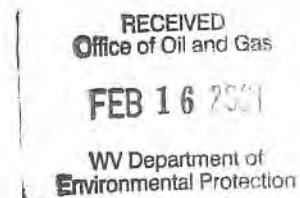
Certified Laboratory Name \_\_\_\_\_  
Sampling Contractor \_\_\_\_\_

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

Address \_\_\_\_\_

Telephone \_\_\_\_\_

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





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



February 1, 2021

Nancy Goshorn  
C/O James Brown IV Attorney  
PO Box 88  
Charleston, WV 25321

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to work on an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Coco A 12114 (API 47-039-03212).

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

RECEIVED  
Office of Oil and Gas

FEB 16 2021

WV Department of  
Environmental Protection

RECEIVED  
Office of Oil and Gas

FEB 16 2021

WV Department of  
Environmental Protection



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"><li>Complete items 1, 2, and 3.</li><li>Print your name and address on the reverse so that we can return the card to you.</li><li>Attach this card to the back of the mailpiece, or on the front if space permits.</li></ul>	<p>A. Signature <input checked="" type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p>
1. Article Addressed to: <b>NANCY GOSHORN c/o JAMES BROWN/N ATTORNEY PO BOX 88 CHARLESTON, WV 25321</b>	<p>B. Received by (Printed Name) C. Date of Delivery</p>
 9590 9402 3688 7335 3536 97	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> 
2. Article Number (Transfer from service label) 7016 0750 0000 9118 8418	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"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Priority 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

WW-2A Surface Waiver  
(4/16)

SURFACE OWNER WAIVER

County 039 Operator Columbia Gas Trans LLC  
Operator well number Coco A 12114

**INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A**

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (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

RECEIVED  
Office of Oil and Gas

FEB 16 2021

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 **FIFTEEN (15) 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.**

**List of Water Testing Laboratories.** The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

**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 Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through \_\_\_ including a work order on Form WW2-B, a survey plat, WW-9, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

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

FOR EXECUTION BY A CORPORATION, ETC.

\_\_\_\_\_  
Signature Date \_\_\_\_\_

Company Name Columbia Gas Transmission, LLC  
By Team Leader - Well Eng & Tech  
Its \_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_  
Print Name

James Amos  
\_\_\_\_\_  
Signature Date

04/02/2021

WW-2A Coal Waiver

\* coal not operated

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Kanawha  
Operator Columbia Gas Transmission, LLC

Operator's Well Number Coco A 12114

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by WV Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0499 extension 1654

WAIVER

The undersigned coal operator \_\_\_\_/ owner \_\_\_\_/ lessee \_\_\_\_/ of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. 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.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

\_\_\_\_\_  
Signature Date \_\_\_\_\_

Company Name \_\_\_\_\_  
By \_\_\_\_\_  
Its \_\_\_\_\_ Date \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

RECEIVED  
Office of Oil and Gas

FEB 16 2021

WV Department of  
Environmental Protection

REC'D  
2/25/21

47-039-03212W

Law Office of  
**JAMES F. BROWN, IV**  
300 Summers Street, Suite 900  
Post Office Box 88  
Charleston, West Virginia 25321

Telephone (304) 343-5501

Fax (304) 343-6695

February 3, 2021

James Amos  
Columbia Gas Transmission, LLC  
48 Columbia Gas Road  
Sandyville, WV 25275

RE: Notice of Work dated 02/01/2021  
on Well ID Coco A 12114, Goshorn, et al.

Dear Mr. Amos:

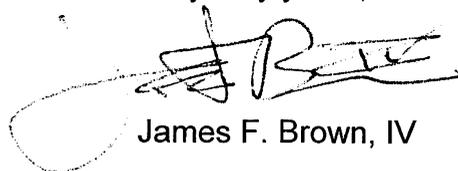
Thank you for mailing a Notice addressed to "Nancy Goshorn" c/o me, by certified mail. Please be advised that Nancy Goshorn is no longer an owner of the property. Upon her death, her interest was split between two individuals for whom I act as an agent. I also act as an agent for the other Goshorn, Kennedy, Carr, Brown and Rippetoe owners.

The address you used in this notice is correct for 7/12 of the owners. A 5/12 interest is handled by Branch Banking and Trust (now Truist Bank) with the address of 300 Summers Street, Third Floor, Charleston, West Virginia 25301. I enclosed a copy of the Multiple Owner List from the Kanawha County Assessor website to collaborate the above information. Please update your records.

Per the instructions in the notice, I am required to notify you and the Office of Oil and Gas as to the true owners. A copy of this letter is being sent to them for this purpose. Other than correcting the true owner's name, the persons I represent have no objection to the work proposed. There is no active coal mining on or near the property and no prospects for such are known.

362

Very truly yours,



James F. Brown, IV

RECEIVED  
Office of Oil and Gas

FEB 04 2021

WV Department of  
Environmental Protection

JFB,IV/dmc  
Enclosure  
cc: Chief, Office of Oil and Gas

04/02/2021

WW-2A1  
(Rev. 1/11)

Operator's Well Number Coco A 12114

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

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

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

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Hester N. Brown, widow	Columbia Gas Transmission, LLC	Lease No 1048180-000	Bk 123 / Pg 401
Fred W. Goshorn et al	Columbia Gas Transmission, LLC	Lease No 1048341-000	Bk 124 / Pg 386

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

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

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

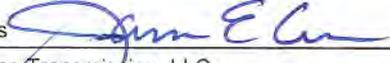
RECEIVED  
Office of Oil and Gas

**FEB 16 2021**

WV Department of  
Environmental Protection

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

Well Operator:  
By: Its:

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

04/02/2021

WW-9  
(5/16)

API Number 47 - 039 - 03212  
Operator's Well No. Coco A 12114

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

Operator Name Columbia Gas Transmission, LLC OP Code 307032  
Watershed (HUC 10) Blue 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  TU Will USE STEEL TANKS TO ACCOMMODATE DEEPENING 6 1/4" HOLE. J M M

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

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

Proposed Disposal Method For Treated Pit Wastes:

- \_\_\_\_\_ Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number 34-119-28776, 34-167-23862 )
- \_\_\_\_\_ Reuse (at API Number \_\_\_\_\_)
- \_\_\_\_\_ Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Appalachian Water Services, Masontown, PA (permit 2608201)

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

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A - No drilling planned.

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

Additives to be used in drilling medium? No drilling planned; fresh water, polymer, starch, LCM, surfactant, HCl acid, iron control (for clean-out and stimulation)

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A - No drilling planned.

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

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

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

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

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

Company Official Signature [Signature]  
Company Official (Typed Name) James Amos  
Company Official Title Team Leader - Well Engineering & Technology

RECEIVED  
Office of Oil and Gas  
FEB 16 2021  
WV Department of  
Environmental Protection

Subscribed and sworn before me this 1st day of February, 2021  
[Signature] Notary Public

My commission expires 6/19/22



Proposed Revegetation Treatment: Acres Disturbed 0.2 Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 7

Fertilizer type 10-10-10

Fertilizer amount 600 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Rye	40	Orchard Grass and/or Tall Fescue	29
Hay or Straw	6000	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: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: Inspector De. Gas

Date: 2-11-21

Field Reviewed? (  ) Yes (  ) No

RECEIVED  
Office of Oil and Gas  
FEB 16 2021  
WV Department of  
Environmental Protection

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): Blue Creek Quad: Blue Creek, WV  
Farm Name: Brown, James F. III

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.

Spills from construction equipment and well treatment fluids is the only source of contaminate to groundwater.

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

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

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

Blue Creek - 0.08 mi.  
15.8 mi. from WHPA Rippling Waters Campground (WV9918017)

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

N/A

RECEIVED  
Office of Oil and Gas  
FEB 16 2021  
WV Department of  
Environmental Protection

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

N/A

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

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

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

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

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

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

Signature: [Signature]

Date: 1/29/21

RECEIVED  
Office of Oil and Gas  
FEB 16 2021  
WV Department of  
Environmental Protection

04/02/2021

**WV DEP Reclamation Plan - Overview**

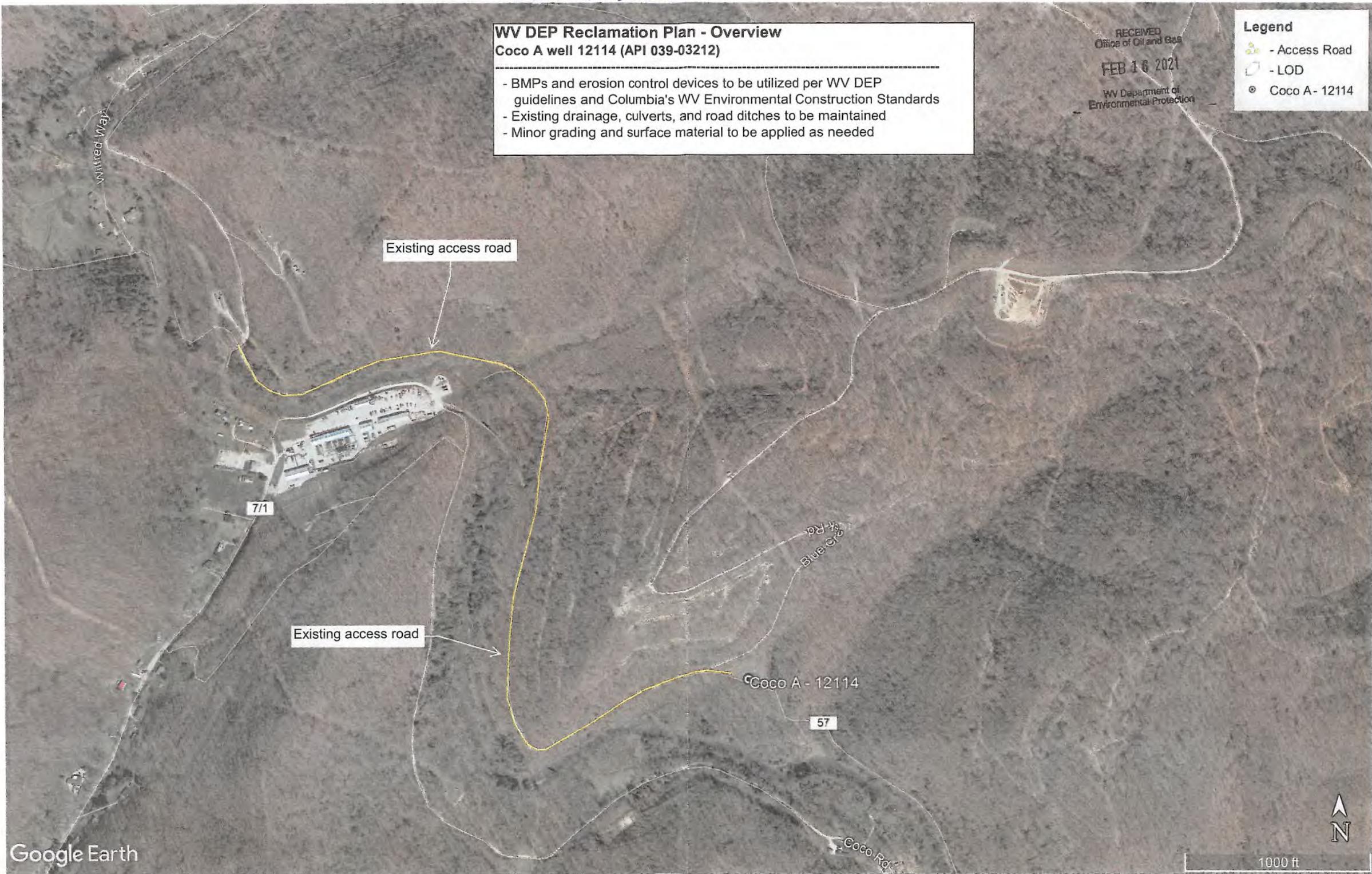
Coco A well 12114 (API 039-03212)

- 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  
FEB 16 2021  
WV Department of  
Environmental Protection

**Legend**

- Access Road
- LOD
- Coco A- 12114



A7-057-05212W

A7-057-05212W

**WV DEP Reclamation Plan - Site Detail**

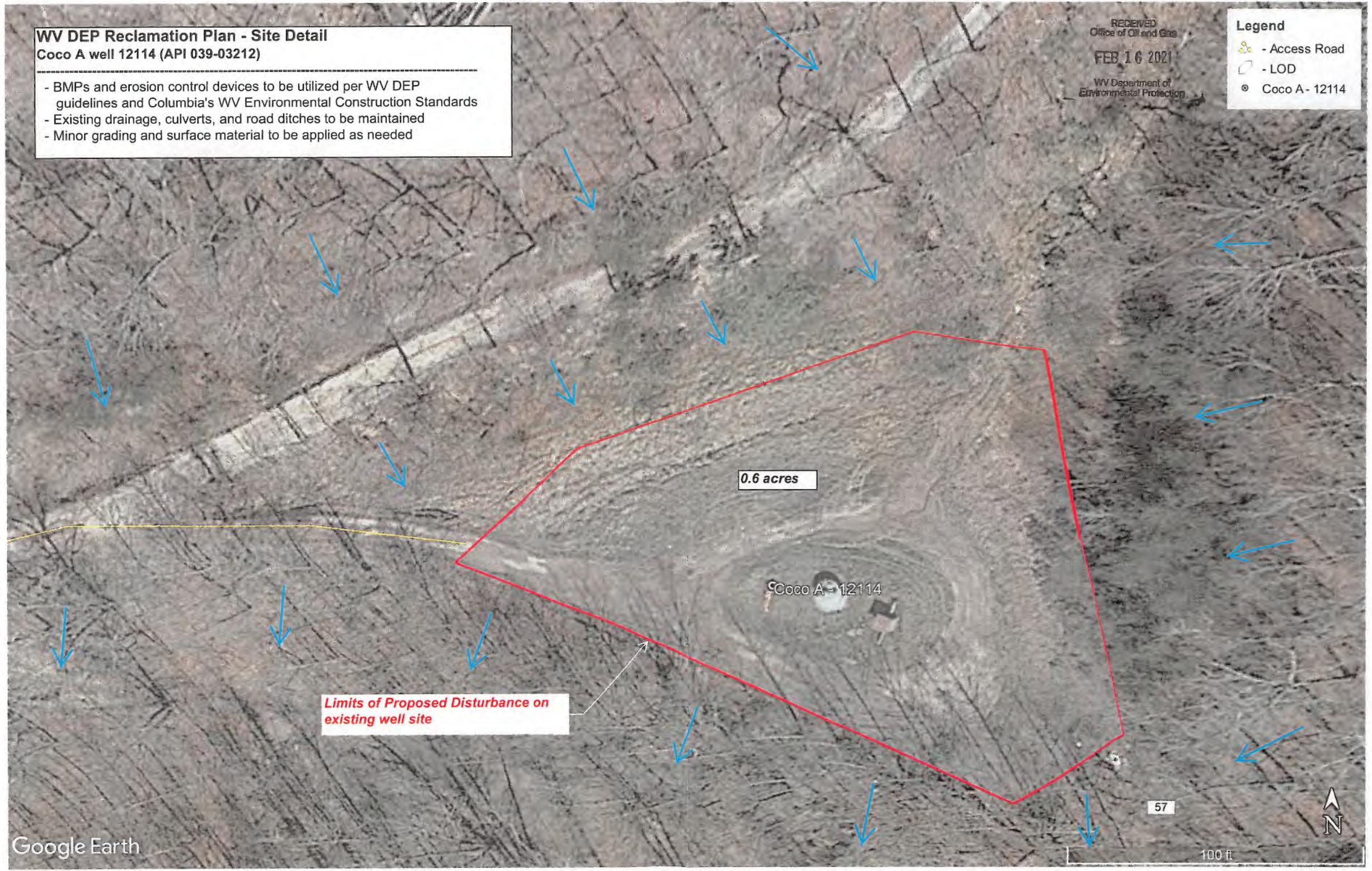
Coco A well 12114 (API 039-03212)

- 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  
FEB 16 2021  
WV Department of  
Environmental Protection

**Legend**

- Access Road
- LOD
- Coco A- 12114



**Limits of Proposed Disturbance on existing well site**

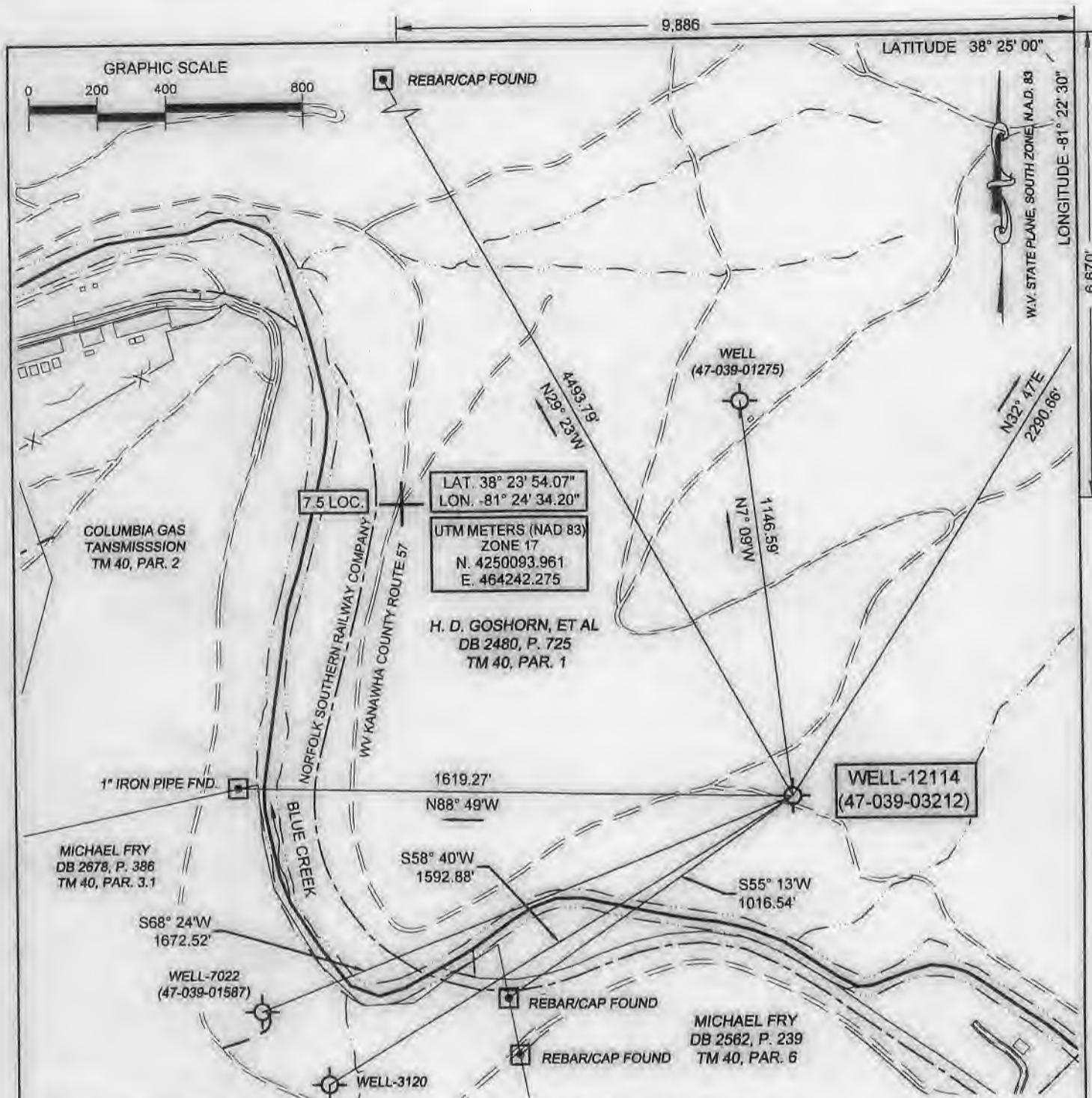
0.6 acres

Coco A - 12114

57



100 ft



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

FILE No. 2001-3079-001-003  
 DRAWING No. COCO A 12114  
 SCALE 1"=400'  
 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**



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



DATE DECEMBER 01, 2020  
 OPERATOR'S WELL No. 12114  
 API WELL No.

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  STATE 47 COUNTY 039 PERMIT 03212W  
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 699.5' WATER SHED BLUE CREEK  
 DISTRICT ELK COUNTY KANAWHA  
 QUADRANGLE BLUE CREEK, WV

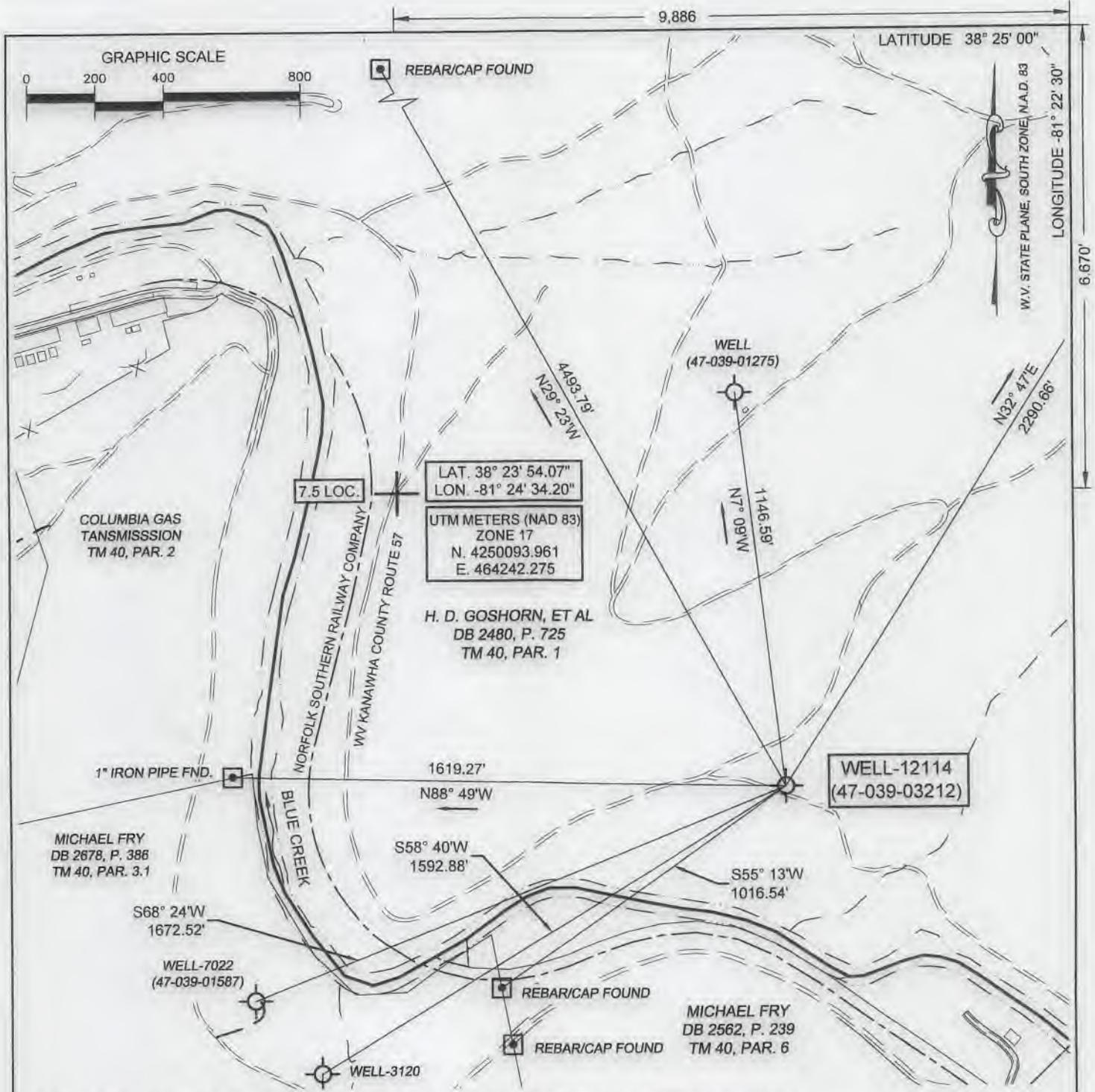
SURFACE OWNER H.D. GOSHORN ET AL ACREAGE 1161  
 OIL & GAS ROYALTY OWNER 1) HESTER N. BROWN, WIDOW, 2) FRED W. GOSHORN, ET AL  
 LEASE ACREAGE 1) 787, 2) 875 LEASE NO. 1048180-000 (787 AC.), 1048341-000 (875 AC.)

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

TARGET FORMATION ORISKANY ESTIMATED DEPTH 5030  
 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

04/02/2021

FORM IV-6 (8-78)



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

FILE No. 2001-3079-001-003  
 DRAWING No. COCO A 12114  
 SCALE 1"=400'  
 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**



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



DATE DECEMBER 01, 2020  
 OPERATOR'S WELL No. 12114  
 API WELL No.

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  STATE 47 COUNTY 039 PERMIT 03212W  
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 699.5' WATER SHED BLUE CREEK  
 DISTRICT ELK COUNTY KANAWHA  
 QUADRANGLE BLUE CREEK, WV

SURFACE OWNER H.D. GOSHORN ET.AL. ACREAGE 1161  
 OIL & GAS ROYALTY OWNER 1) HESTER N. BROWN, WIDOW, 2) FRED W. GOSHORN, ET AL

LEASE ACREAGE 1) 787, 2) 875 LEASE NO. 1048180-000 (787 AC.), 1048341-000 (875 AC.)

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

TARGET FORMATION ORISKANY ESTIMATED DEPTH 5030  
 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)

M 21230 - 03212 W

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

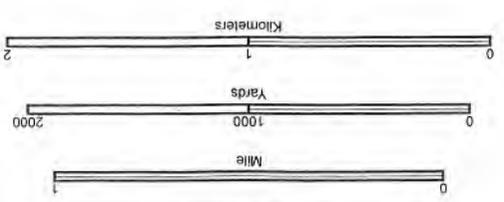
WV Department of  
Environmental Protection

RECEIVED  
FEB 16 2021  
Office of Oil and Gas

(MAMMOTH)

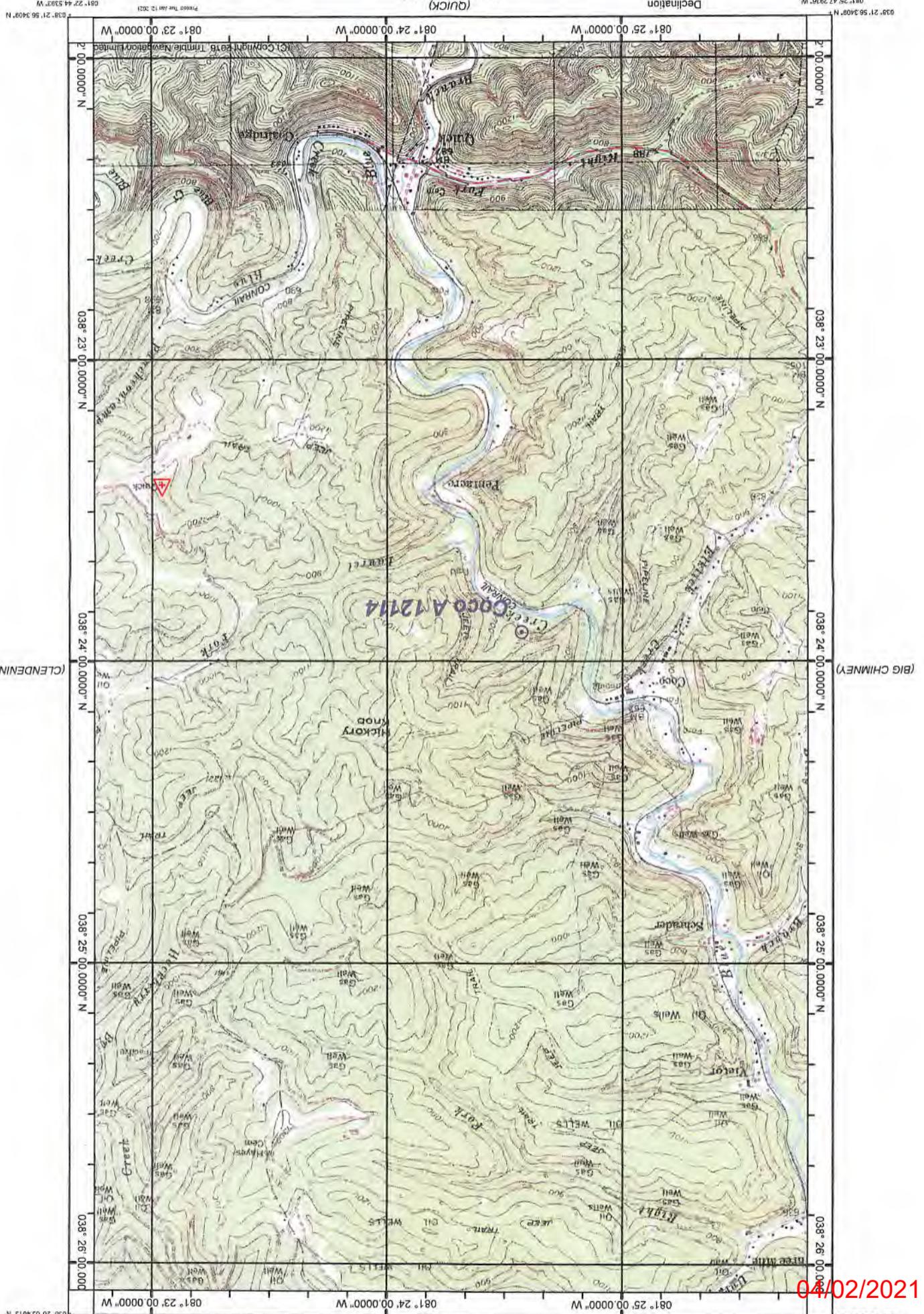
081° 27' 44.5393" W  
038° 21' 56.3409" N

CONTOUR INTERVAL 20 FT



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

(CHARLESTON EAST)



04/20/2021

BLUE CREEK QUADRANGLE  
WEST VIRGINIA  
TOPOGRAPHIC SERIES



M 21230 - 03212 W