



**west virginia** department of environmental protection

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

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

April 21, 2015

**WELL WORK PERMIT**

**Re-Work**

This permit, API Well Number: 47-3901496, issued to COLUMBIA GAS TRANSMISSION, LLC, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: 7330

Farm Name: COPENHAVER, CHLOE J.

**API Well Number: 47-3901496**

**Permit Type: Re-Work**

Date Issued: 04/21/2015

**Promoting a healthy environment.**

**04/24/2015**

## PERMIT CONDITIONS

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

### CONDITIONS

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1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring 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 on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

3901496 W

WW - 2B  
(Rev. 8/10)

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

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

2) Operator's Well Number: Coco C 7330 (existing well) 3) Elevation: 735

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: 5145

6) Proposed Total Depth: 5225 (existing) Feet Formation at Proposed Total Depth: Helderberg

7) Approximate fresh water strata depths: 75', 230' (as reported by driller in 1949)

8) Approximate salt water depths: 925' (as reported by driller in 1949)

9) Approximate coal seam depths: none reported by driller in 1949

10) Approximate void depths,(coal, Karst, other): none reported by driller in 1949

11) Does land contain coal seams tributary to active mine? no

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)  
Pull tubing, sub-surface safety valve, and both packers. Obtain pipe inspection log. Install new wellhead. Perform acid treatment.

\* Casing and tubing listed below are existing.

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE	INTERVALS	CEMENT
	Size	Grade	Weight per ft			
Conductor						
Fresh Water	10.75		32.75	384	384	no record of cement
Coal	8.625		28	1530	1530	100 sx
Intermediate	7.0		22	5052	5052	242 sx
Production	5.5	K-55	17	5142	5142	88 sx
Tubing	2.875	J-55	6.5		116	
Liners						

Received

Packers: Kind: (2) Baker MAR 4 2015  
Sizes: 2.875" x 5.5"  
Depths Set 116' & 5088'

*AW Miller*  
*2-11-15*

*K-55 + -55*

(U-6483) 7330

Chloe J. Copenhaver  
 United Fuel Gas Company  
 Elk District, Kanawha County, W. Va.  
 Map Square 70-65  
 Commenced Drilling - 12-15-48  
 Completed Drilling - 3-25-49  
 Elevation - 740.78

Size	CASING Weight	Point
10-3/4"	32.75#	34'
8-5/8"	28#	1530
7"	22#	5052'

CONTRACTOR: Mays & Harper  
 DRILLERS: C. E. Caste  
 Day Seyoc  
 Bert Litton

Soil	0	12
Sand	12	40
Blue Mud	40	80
Lime	80	95
Sand	95	180
Slate	180	190
Sand	190	230
Slate	230	242
Lime	242	290
Slate	290	315
Lime	315	325
Blue mud	325	355
Gray Lime	355	475
Slate	475	510
Slate & shells	510	690
Sand	690	720
Lime shells	720	765
Black Slate	765	775
Black Lime	775	790
Slate	790	800
Lime	800	815
Slate	815	832
Salt Sand	832	1312
Slate	1312	1314
Broken Sand	1314	1321
Red Rock	1321	1330
Gray Lime	1330	1400
Black Lime	1400	1415
Mixed Sand	1415	1435
Slate & shells	1435	1457
Black Lime	1457	1480
Big Lime	1480	1650
Broken Sand	1650	1680
Slate	1680	1690
Injun Sand	1690	1725
Sl & Shs.	1725	1755
Weir Sand	1755	1785
Slate & Shs.	1785	1900
Broken Sand	1900	2000
Lime shells	2000	2100
Slate & shells	2100	2190
Berea Shells	2190	2200
Slate & shells	2200	2450
White Slate	2450	2700
Broken Sand	2700	2710
Slate & shells	2710	3790

Dark Slate	3790	4010
White Slate	4010	4540
Brown Shale	4540	4880
White Slate	4880	4925
Brown Shale	4925	4980
Black Shale	4980	5028
Corniferous Lime	5028	5145
Oriskany	5145	5175
Total Depth	5175'	

Water: 75'  
 Hole full water 230'  
 Show gas & oil 775'  
 Gas 832-836  
 Hole full water 925'

Show gas 1700-1710  
 " " 1755-1760  
 " " 1835-1850  
 Gas show 4500-4700'

Oriskany gas 5156-5175, 25,000 M

WELL NOT SHOT  
 OPEN FLOW - 25,000 M - Oriskany  
 48 Hr. R.P. 1650'

Shut in 4-4-49 in 2" Tubing

Temperature 119°

Received

Permit No. Kan-1496

MAR 4 2015

Office of Oil and Gas  
 WV Dept. of Environmental Protection

7330

39 01496W

DM-25

Coco C 7330

United Fuel Gas Company  
COMPANY

SERIAL WELL NO. 6483 LEASE NO. 7425 MAP SQUARE 70-65

RECORD OF WELL NO. 19 on the	CASING AND TUBING				TEST BEFORE SHOT
Chloe J. Copenhaver farm of 97 Acres in Elk District Kanawha County	SIZE	WEIGHT	USED IN DRILLING	LEFT IN WELL	/10 of Water in ..... inch /10 of Merc. in ..... inch Volume <u>25,000,000</u> Cu. ft.
State of: <u>West Virginia</u>	<u>10 3/4"</u>	<u>32.75</u>	<u>387' 4"</u>	<u>384' 4"</u>	TEST AFTER SHOT
Field: <u>Clendenin</u>	<u>8 5/8"</u>	<u>28#</u>	<u>1530' 10"</u>	<u>1530' 10"</u>	/10 of Water in ..... inch /10 of Merc. in ..... inch Volume ..... Cu. ft.
Rig Commenced <u>12/2/48</u> 194	<u>2"</u>	<u>4#</u>	<u>5139' 4"</u>	<u>5139' 4"</u>	Hours After Shot
Rig Completed <u>12/8/48</u> 194					Rock Pressure <u>1650 #</u>
Drilling Commenced <u>12/15/48</u> 194					Date Shot <u>Not shot</u>
Drilling Completed <u>3/25/49</u> 194					Size of Torpedo .....
Drilling to cost per foot					Oil Flowed ..... bbls. 1st 24 hrs.
Contractor is: <u>Mays &amp; Harper</u>					Oil Pumped ..... bbls. 1st 24 hrs.
Address: <u>Kenna, W. Va.</u>					Well abandoned and
Driller's Name <u>O.E. Caste</u>					Plugged ..... 194
<u>Dan Soyce</u>					
<u>Bert Litton</u>					
Elevation: <u>741</u>					

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Soil	0	12		
Sand	12	40		
Blue Mud	40	80		Water 75'
Lime	80	95		
Sand	95	180		
Slate	180	190		
Sand	190	230		Hole full water
Slate	230	242		
Lime	242	290		
Slate	290	315		
Lime	315	325		
Blue Mud	325	355		
Gray Lime	355	475		
Slate	475	510		
Slate & Shells	510	690		
Sand	690	720		
Lime Shells	720	765		

RECEIVED  
JUN 30 1949  
DIVISION SUPT.

Received

MAR 4 2015

Office of Oil and Gas  
WV Dept. of Environmental Protection

Em

04/24/2015

3901496W

SERIAL WELL NO. 6483

LEASE NO. 7425

MAP SQUARE 70-65

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Black Slate	765	775		Show of gas & Oil
Black Lime	775	790		
Slate	790	800		
Lime	800	815		
Slate	815	832		
Salt Sand	832	1322		Gas 832' to 836' Water 925' Hole full
Slate	1312	1314		
Broken Sand	1314	1321		
Red Rock	1321	1330		
Gray Lime	1330	1400		
Black Lime	1400	1415		
Maroon Sand	1415	1435		
Slate Shells	1435	1457		
Black Lime	1457	1480		
Big Lime	1480	1650		
Broken Sand	1650	1680		
Slate	1680	1690		
Big Injun	1690	1725		Gas 1700' to 1710'
Slate Shells	1725	1755		
Wair Sand	1755	1785		Gas 1755' to 1760'
Slate Shells	1785	1900		Gas 1835' to 1850'
Broken Sand	1900	2000		
Lime Shells	2000	2100		
Slate Shells	2100	2190		
Berea Grit	2190	2200		
Slate Shells	2200	2450		
<del>XXXXXXXXXX</del> White Slate	2450	2700		
Broken Sand	2700	2710		
Slate Shells	2710	3790		
Dark Slate	3790	4040		
White Slate	4040	4540		
Brown Shale	4540	4880		Gas 4500' to 4700'
<del>XXXXXXXXXX</del> White Slate	4880	4925		
Brown Shale	4925	4980		
Black Shale	4980	5028		Temperature at 5150' 120 F.
Concretionary Lime	5028	5145		Steel line top concretionary 502'
Crisp Sand	5145	5175		Gas 5156' to 5175' test. 25,000,000
Total Depth				

Received

MAR 4 2015

Office of Oil and Gas  
WV Dept. of Environmental Protection

04/24/2015







3901496W

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County Kanawha

Operator  
Operator well number

Columbia Gas Transmission, LLC  
Coco C 7330

**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

**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 a 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, 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.

*Arnold W. ...*  
Signature

Date 3-4-15

Company Name \_\_\_\_\_

By \_\_\_\_\_

Date \_\_\_\_\_

Arnold W. ...

Print Name

Received

MAR 4 2015

Signature

Date

39014966

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</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"/> <i>Teresa Wade</i>      <input type="checkbox"/> Agent  <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name)      C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes          If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p>MR. ARNOLD &amp; TERESA WADE          627 ELK ESTATE          ELKVIEW, WV          25071</p>	<p>3. Service Type  <input checked="" type="checkbox"/> Certified Mail®    <input type="checkbox"/> Priority Mail Express™  <input type="checkbox"/> Registered            <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail        <input type="checkbox"/> Collect on Delivery</p> <p>4. Restricted Delivery? (Extra Fee)      <input type="checkbox"/> Yes</p>
<p>2. Article Number          (Transfer from service label)</p>	<p>7014 0510 0002 2386 8986</p>
<p>PS Form 3811, July 2013      Domestic Return Receipt</p>	

986 8986 2386 0002 0510 7014

U.S. Postal Service™ <b>CERTIFIED MAIL™ RECEIPT</b> (Domestic Mail Only; No Insurance Coverage Provided)		
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>		
ELKVIEW WV 25071		
	<b>OFFICIAL USE</b>	
Postage	\$ 1.61	0500
Certified Fee	\$ 3.30	06
Return Receipt Fee (Endorsement Required)	\$ 2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.61</b>	02/18/2015
Sent To <i>MR. ARNOLD &amp; TERESA WADE</i>		
Street, Apt. No.; or PO Box No. <i>627 ELK ESTATE</i>		
City, State, ZIP+4® <i>ELKVIEW, WV 25071</i>		
PS Form 3800, August 2006		See Reverse for Instructions

04/24/2015

**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
Chloe Copenhaver, et ux	Columbia Gas Transmission, LLC	Storage Lease 7425	136 / 495

**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

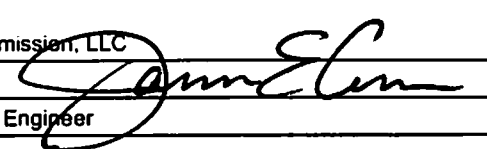
MAR 4 2015

Office of Oil and Gas  
WV Dept. of Environmental Protection

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

Well Operator:  
By: Its:

Columbia Gas Transmission, LLC  
 James E. Amos  
 Senior Well Services Engineer



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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Columbia Gas Transmission, LLC OP Code 307032

Watershed One Mile Fork of Blue Creek of Elk River Quadrangle Blue Creek

Elevation 735 County Kanawha District Elk

Description of anticipated Pit Waste: no earthen pit to be utilized

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes \_\_\_\_\_ No X *TU*

Will a synthetic liner be used in the pit? NA *TU* If so, what mil.?

- Proposed Disposal Method For Treated Pit Wastes: *2-11-15*
- Land Application
  - Underground Injection ( UIC Permit Number 34-105-2-3619, 34-009-03761, 34-121-2459 )
  - Reuse (at API Number \_\_\_\_\_ )
  - Off Site Disposal (Supply form WW-9 for disposal location)
  - Other (Explain Pinegrove Landfill - Amanda, OH)

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. freshwater based completion fluid

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

Additives to be used? biocide, polymer, starch

Will closed loop system be used ? yes

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. not anticipated

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

-Landfill or offsite name/permit number? Pinegrove Landfill - Amanda, OH

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, 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.

Received

Company Official Signature *James E. Amos*

Company Official (Typed Name) James E. Amos

Company Official Title Senior Well Services Engineer

MAR 4 2015

Office of Oil and Gas  
WV Dept. of Environmental Protection

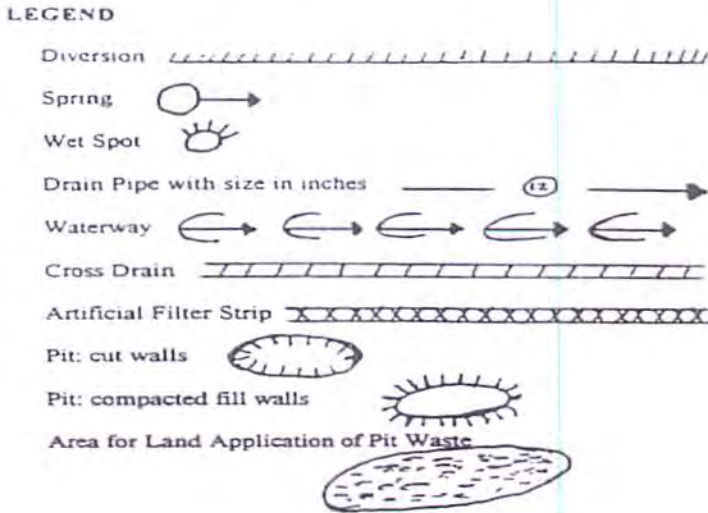
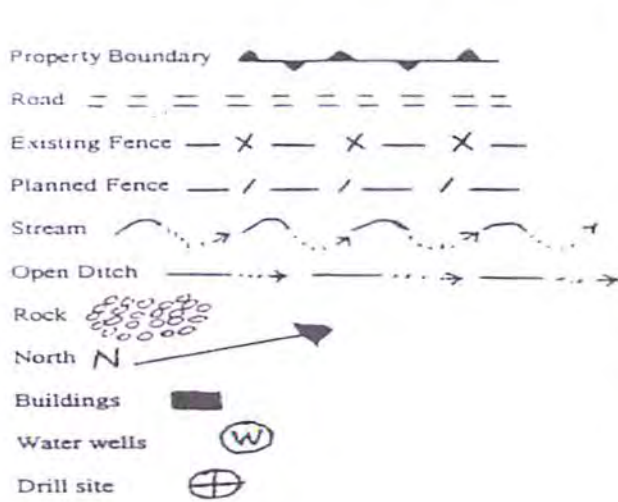
Subscribed and sworn before me this 10<sup>th</sup> day of February, 20 15

*Mary Marie Clendenin*

My commission expires 3/22/2015

Notary Public





Proposed Revegetation Treatment: Acres Disturbed < 0.5 Prevegetation pH 6

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre	Seed Type	Area II	lbs/acre
Orchard Grass		20	Orchard Grass		20
Ledino Clover		10	Ledino Clover		10
Annual Rye		20	Annual Rye		20

Attach: Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

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Plan Approved by: [Signature]

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

Office of Oil and Gas  
WV Dept. of Environmental Protection

Title: Field Inspector

Date: 2-11-15

Field Reviewed?  Yes  No

# WV DEP Reclamation Plan - Overview

## Coco C 7330 Rework

- Existing road surface and culverts to be maintained
- BMPs to be utilized per WV DEP guidelines



**Directions**  
I-79 to Exit 9 (Elkview). South on Rt 43. Left (north) on US 119. 1.4 miles turn right on Blue Creek Rd (Rt 57). 0.7 miles turn right into Elk Estates. 0.2 miles well on left next to road.

Google earth



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WV Dept. of Environmental Protection

M/F 4 2015

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# WV DEP Reclamation Plan - Site Detail

## Coco C 7330 Rework

- Elk Estate road to be clear of debris, mud, etc.
- existing access surface material to be maintained
- BMPs to be utilized per WV DEP guidelines



Google earth



WV Dept. of Environmental Protection  
Office of Oil and Gas

MAR 4 2015

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3901496w

9,740'

LATITUDE 38°27'30"

LONGITUDE 81°25'00"

UTM METERS (NAD83)  
N-4255013.16  
E-460682.56

LAT.=38°26'33.13"  
LONG.=81°27'01.95"

7.5 L.O.C.

S 78°12'31" W  
93.95' (TIE)

REBAR

WELL ROAD

WELL #7330

S 40°1'22" E  
253.66' (TIE)

S 71°6'54" E  
212.68' (TIE)

IRON PIPE

DOUGLAS & VIRGINIA ASHLEY  
DEED BOOK 2258, PAGE 440  
TAX MAP 24C PARCEL 47.1

V.P. & M.A. ROSE  
DEED BOOK 1789 PAGE 147  
TAX MAP 24C PARCEL 1.4

DOUGLAS & VIRGINIA ASHLEY  
DEED BOOK 1868 PAGE 718  
TAX MAP 24C PARCEL 46 & 51

REBAR

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

FILE No 14-100-030  
DRAWING No. 14-100-030  
SCALE 1"=100'  
MINIMUM DEGREE OF ACCURACY 1:200  
PROVEN SOURCE OF ELEVATION TRIMBLE PRO XH 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) *Richard J. Prine*  
RICHARD J. PRINE PS #851



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



DATE JANUARY 21 20 15  
OPERATOR'S WELL No. 7330  
API WELL No.

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS") PRODUCTION \_\_\_ STORAGE X DEEP \_\_\_ SHALLOW \_\_\_  
LOCATION: ELEVATION 735 WATER SHED ONE MILE FORK OF BLUE CREEK OF ELK RIVER  
DISTRICT ELK COUNTY KANAWHA  
QUADRANGLE BLUE CREEK

SURFACE OWNER ARNOLD, III & TERESA WADE ACREAGE 1.42  
OIL & GAS ROYALTY OWNER CHLOE COPENHAVER, ET UX LEASE ACREAGE 97  
LEASE No. 7425

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ACID TREATMENT

04/24/2015

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION ORISKANY ESTIMATED DEPTH 5225  
WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT PAUL AMICK  
ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS P.O. BOX 1273, CHARLESTON W.V.  
25325-1273 25325-1273

FORM IV-6 (8-78)



WW-2B1

Well No. Coco C 7330

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 2000 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 2000 feet of the proposed site please indicate such.

Received

MAR 4 2015

### WV State Application for Permit Checkoff

\* ORIGINAL FOR WV DEP -  
OFFICE OF OIL & GAS

Well Coco C 7330

CK# 05115948  
550<sup>00</sup>

- 1. Survey plat
- 2. Surface owner name & address
- 3. Site Reclamation Plan
- 4. Emergency Evacuation Plan  N/A
- 5. Topo map
- 6. Copy of State Completion Report included  → OLD WELL RECORDS
- 7. Application package prepared
- 8. Approved by State Inspector
- 9. Signed & notarized
- 10. Water Well Testing Reqr'mts  → N/A - EXISTING WELL
  - Only required if drilling new well
- 11. Surface Owner Waiver 
  - Provide copy of entire permit application to surface owner
- 12. Coal Operator Waiver  → N/A - COAL NOT OPERATED
  - Only required if coal is currently mined/operated
- 13. Sent to the State with Fee 
  - Ensure mylar copy of survey plat included
  - Include certified mail receipt if Surface Owner Waiver mailed
  - Keep copy of entire package as backup

Received

(fee estimated @ \$ \_\_\_\_\_)  
MAR 4 2015