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

January 29, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4105700, issued to DOMINION TRANSMISSION INC, 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.

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. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 3008
Farm Name: HITT, DAVID NEIL & MARY JO
API Well Number: 47-4105700
Permit Type: Plugging
Date Issued: 01/29/2016

Promoting a healthy environment.

4105700P

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.

4105700P

WW-4B
Rev. 2/01

1) Date December 14, 2015
2) Operator's Well No. 3008
3) API Well No. 47- 041 - 30133

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

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

5) Location: Elevation 1061.9' Watershed Smoke Camp Run of Right Fork of Freeman's Creek
District Freeman's Creek County Lewis Quadrangle Camden, WV 7.5'

6) Well Operator Dominion Transmission, Inc.
Address 925 White Oaks Boulevard
Bridgeport, WV 26330

7) Designated Agent John M. Love
Address 925 White Oaks Boulevard
Bridgeport, WV 26330

8) Oil and Gas Inspector to be notified
Name Barry Stollings
Address 28 Conifer Drive
Bridgeport, WV 26330

9) Plugging Contractor
Name Key Energy Services
Address Hall Road
Buckhannon, WV 26201

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

Set conductor at a depth below offset creek level and grout into place, as necessary. Clean out well to below Pittsburgh coal seam depth (262'). Set surface casing and cement surface casing. Clean out wellbore to below the Gantz. Plug the well, from as near the deepest cleaned out depth, to surface, with Class A cement blends. Make attempts to reach TD 2597'

RECEIVED
Office of Oil and Gas
JAN 11 2016
WV Department of
Environmental Protection

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

Work order approved by inspector Barry Stollings Date 12-22-15

4105700P

3008

2016

Redrill and Plug & Abandon

1. File for and receive all necessary regulatory permits.
2. Build road and location for plugging rig. Build and line earth pit, if an earth pit is necessary.
3. Set 16" conductor with excavator (attempt to get below creek level) and grout with cement slurry.
4. Dig in steel cellar. Line cellar bottom with dry bentonite gel and cement slurry.
5. MIRU service rig and auxiliary equipment.
6. N/U XO flange and/or air bowl/flow nipple.
7. Clean out the existing wellbore to approximately 300' with a bentonite gel mud system. Hole size required is 14-3/4".
8. Run 10-3/4" casing and attempt to cement to surface w/ Class A cement blend(s).
9. WOC a minimum of 8 hours.
10. N/U XO flange, 11", 5M double rams and/or annular preventer. Pressure test the well control equipment to maximum anticipated surface pressure, based on current storage field pressure.
11. Clean out wellbore to below the Gantz storage horizon, using a gel or polymer fluid system.
12. Open hole logging will depend on hole stability and wellbore conditions. At a minimum, a caliper log is desired.
13. TIH with drill string, open ended, to as near the deepest achieved depth as possible.
14. Plug the well with Class A cement blend(s), in ±500' lifts, to surface.
15. Top off the well with Portland cement.
16. RDMO service rig and auxiliary equipment.
17. Erect well monument as prescribed by state law.
18. Reclaim location.
19. File all necessary paperwork with regulatory agencies.

All attempts to get to 2597' TD will be made
12-22-15 Barry Stillinger

4105 700P

0-1

WEST VIRGINIA DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Permit No. Lew-133-A

Oil or Gas Well OIL (Kind)

Company SOUTH PENN OIL COMPANY
Address 411 Seventh Ave., Pittsburgh, Pa.
Farm C. A. Straley Acres 50
Location (waters) Smoke Camp Freemans Creek
Well No. 2 Elev. 1061.70
District Freemans Creek County Lewis
The surface of tract is owned in fee by Lee Woofter
Freemansburg, W.Va.
Mineral rights are owned by Peter A. Straley et al
(Braxton Co.) Address Copen, W.Va.
Drilling commenced July 28, 1913
Drilling completed Sept. 9, 1913
Date shot 1-3-22 Depth of shot -
Open Flow /10ths Water in See Record Inch
/10ths Merc. in - Inch
Volume - Cu. Ft.
Rock Pressure - lbs. - hrs.
Oil - bbls., 1st 24 hrs.
Fresh water - feet - feet
Salt water 1155 feet - feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer -
13			-
10	270 (Pulled)		Size of -
8¼	1176 (Pulled)		-
6 5/8	1810		Depth set -
5 3/16	2360		-
3			Perf. top -
2	2424		Perf. bottom -
Liners Used			Perf. top -
			Perf. bottom -

CASING CEMENTED - SIZE - No. FT. - Date

COAL WAS ENCOUNTERED AT 258 FEET 48 INCHES
- FEET - INCHES - FEET - INCHES
- FEET - INCHES - FEET - INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth Found	Remarks
Pittsburgh Coal			258	262			
Big Dunkard Sand			825	850			
Gas Sand			910	945			
1st Salt Sand			950	1025			
2nd Salt Sand			1035	1110			
3rd Salt Sand			1150	1490			
					Water	1155	
					Oil-Very Light showing 1155		
Maxon Sand			1640	1650			
Little Lime			1670	1685			
Pencil Cave			1685	1733			
Big Lime			1733	1789			
					Gas	1788	8/10W.2"
Big Injun			1789	1920			
Gantz Sand			2069	2084			
Fifty Foot Sand			2240	2276			
Thirty Foot Sand			2300	2310			
Gordon Stray			2339	2363			
Gordon Sand			2372	2398			
					Gas	2375	
					Gas	2397	10/10W.5-3/16"
Total Depth				2400			

(Work Order data from field shows Total Depth to be 2597).

This well apparently completed as a gas well and later developed into an oil well.

1-2345678910111213141516171819202122

(Over)

Form OG-8

4105700P

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELL

Permit No.....

The Gauley Company
COAL OPERATOR OR OWNER

B. & O. Bldg., Baltimore, Md.
ADDRESS

COAL OPERATOR OR OWNER

ADDRESS

Lee Woofter,
LEASE OR PROPERTY OWNER

Freemansburg, W. Va.
ADDRESS

SOUTH PENN OIL COMPANY,
NAME OF WELL OPERATOR

411 Seventh Avenue,
Pittsburgh, Pa.
COMPLETE ADDRESS

June 6, 19 38.
WELL AND LOCATION

Freemans Creek District

Lewis County

Well No. 2

C. A. Straley Farm

AFFIDAVIT TO BE MADE IN TRIPLICATE, ONE COPY TO BE MAILED BY REGISTERED MAIL TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) TO BE MAILED TO EACH COAL OPERATOR ABOVE NAMED AT THEIR RESPECTIVE ADDRESSES.

AFFIDAVIT

STATE OF WEST VIRGINIA,
COUNTY OF Harrison } ss:

J. F. Black ~~and~~

being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by South Penn Oil Company, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 6th day of April, 19 38, and that the well was plugged and filled in the following manner:

Manner in which sand was plugged:
Total Depth 2597'. Filled with non-porous material to 2363'. Cut and Pulled 2224' - 5-3/16" casing. Set wood plug 2224' - 2221'. Set cement plug 2221'-2211',-sealing Fifth, Gordon, Gordon Stray and Fifty Foot Sands. Set bridge 1950',-30' below Big Injun Sand. Cut and pulled 977' 6-5/8" casing. Filled with non-porous material to 1769',-20' above Big Injun Sand. Set wood plug 1769' - 1766'. Set cement plug 1766' - 1756',- sealing Big Injun Sand. Set bridge at 1680',-30' below Maxon Sand. Filled with non-porous material to 1620',- 20' above Maxon Sand. Set wood plug 1620' - 1617'. Set cement plug 1617' - 1607',- sealing Maxon Sand. Set bridge 1520',- 30' below Salt Sand. ~~Manner in which coal was plugged:~~
Filled with non-porous material to 930',- 20' above 1st Salt Sand. Set wood plug 930' - 927'. Set cement plug 927' - 917',- sealing Salt Sands. Filled with non-porous material to 805',- 20' above Big Dunkard Sand. Set wood plug 805' - 802'. Set cement plug 802' - 792',- sealing Big Dunkard Sand. Set bridge 302',- 40' below Pittsburgh Coal. Set vent pipe 302' to surface. Set Morning Glory Packer 292' - 30' below Pittsburgh Coal. Cement vent pipe 292' to 238',- 20' above Pittsburgh Coal. Filled with non-porous material to surface.

Description of monument 2" pipe 8' above ground. 2" Tee, 2 - 2" Ells pointing downward. 2' cement cone around vent pipe, 2 ' above ground.

(THE ABOVE DESCRIPTION MUST BE IN DETAIL AND IN ACCORDANCE WITH THE PROVISIONS OF SECTION 10, ARTICLE 4, CHAPTER 22 OF THE CODE)

and that the work of plugging and filling said well was completed on the 9th day of May, 19 38.

And further deponents saith not.

J. F. Black

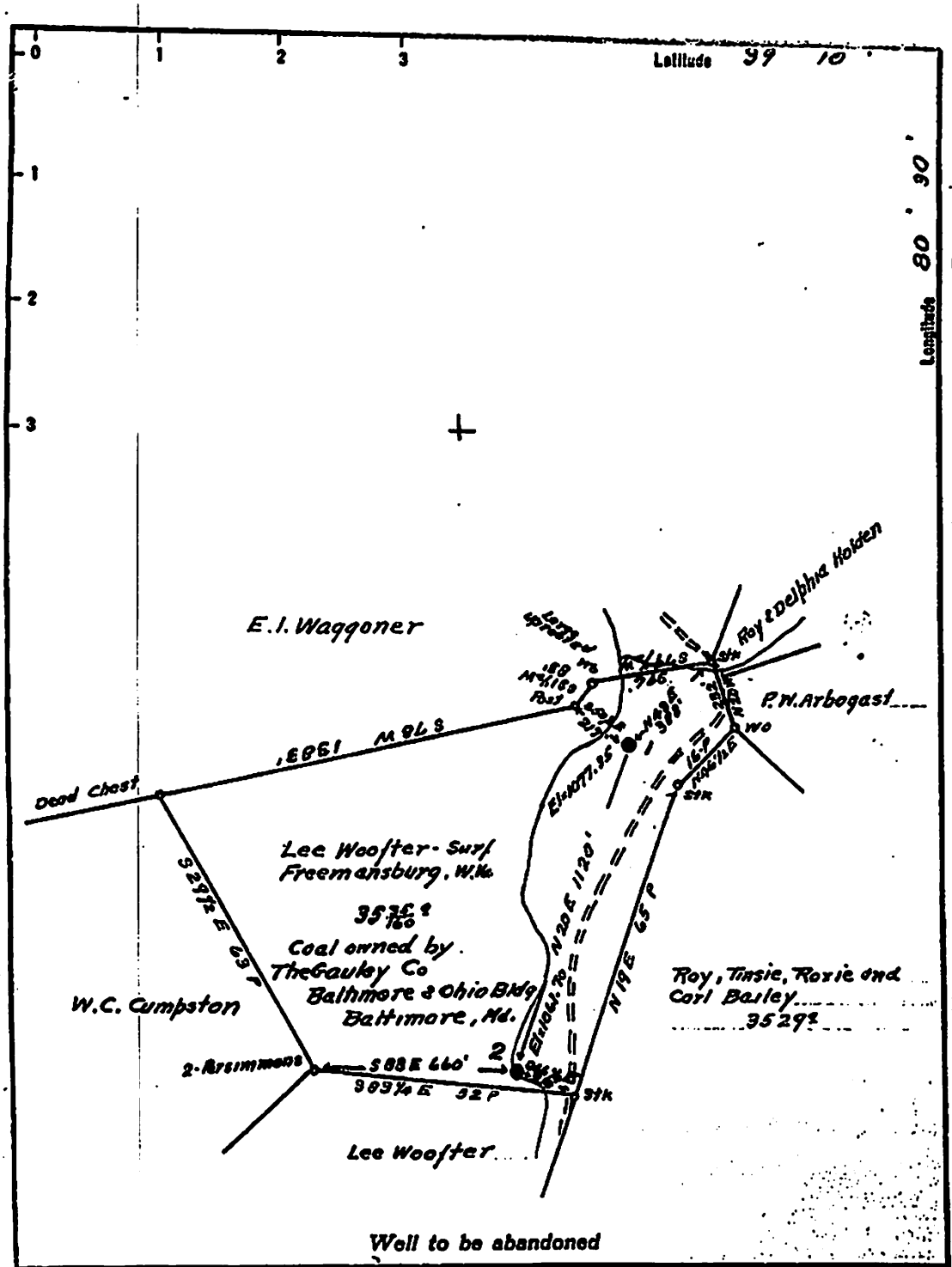
Sworn to and subscribed before me this 8th day of June, 1938

Jessie Jones
Notary Public.

My Commission expires:
June 8th, 1947

Lease-133

4105700P



Company South Penn Oil Co.
Address 411 Seventh Ave., Pittsburgh, Pa.
Farm C. A. Straley
Tract - Acres 50 Lease No. 27508
Well (Farm) No. 2 Serial No. -
Quadrangle Vadis
County Lewis
District: Freemans Creek
Engineer E.C. Tabler
Engineer's Registration No. -
File No. - Drawing No. -
Date Jany 12 1928 Scale 1 in = 400'
8 29 E 2 Map 8

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

WELL LOCATION MAP
FILE NO. Lewi-133-A

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

4105700P

WW-4A
Revised 6-07

1) Date: December 14, 2015
2) Operator's Well Number
3008

3) API Well No.: 47 - 041 - 30133

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name David Neil & Mary Jo Hitt ✓
Address 471 Smoke Camp Road
Weston, WV 26452
(b) Name
Address
(c) Name
Address

6) Inspector
Address
Telephone

5) (a) Coal Operator
Name Western Pocahontas Properties ✓
Address 5260 Irwin Road
Huntington, WV 25705-3247
(b) Coal Owner(s) with Declaration
Name
Address
Name
Address
(c) Coal Lessee with Declaration
Name
Address

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 Dominion Transmission, Inc.
By: John M. Love
Its: Designated Agent
Address 925 White Oaks Boulevard
Bridgeport, WV 26330
Telephone 304.476.2156

RECEIVED
Office of Oil and Gas

Subscribed and sworn before me this 15th day of December, 2015
Brenda M. Johnson
Notary Public
My Commission Expires March 31, 2020

NOTARY PUBLIC OFFICIAL SEAL
Brenda M. Johnson
State of West Virginia
My Commission Expires
March 31, 2020
Dominion Transmission, Inc
925 White Oaks Boulevard
Bridgeport, WV 26330

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 depprivacyoffier@wv.gov.

4105 7007

SURFACE OWNER WAIVER

Operator's Well Number 3008

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.

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Office of Oil and Gas
JAN 11 2016
WV Department of Environmental Protection

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.

David Neil Hall
Signature

Date 1-4-16

FOR EXECUTION BY A CORPORATION, ETC.

Name
By
Its

Date

Signature

Date

4105700P

Dominion Transmission, Inc.
445 West Main Street, Clarksburg, WV 26301

Mailing Address: P.O. Box 2450
Clarksburg, WV 26302-2450

Dominion

December 14, 2015

By U.S. Mail, Certified Delivery
7160 3901 9846 3216 4624

Western Pocahontas Properties LP
5260 Irwin Road
Huntington, WV 25705-3247

PROPOSED PRODUCTION WELL #: 3008
DOMINION TRANSMISSION, INC.
DISTRICT: Freeman's Creek COUNTY: Lewis State: WV

Dear Western Pocahontas Properties LP

On behalf of Dominion Transmission, Inc. (DTI), I wish to advise you that plugged production well 3008 is planned to be re-entered and re-plugged. Therefore, DTI is hereby making a Notice of Application for a Well Work Permit, to the WV DEP Office of Oil & Gas.

You are on record as the coal owner, on the particular tract of land on which the planned well is situated. Regulations dictate that DTI provides you with a copy of the permit application. Accordingly, enclosed for your records, please find a copy of the Notice of Application for a Well Work Permit.

Should you have any questions concerning this well work, you may contact our lease and right of way agent, Bill Burford, at 304.546.5306.

Sincerely,

Christopher D. Barclay

Christopher D. Barclay
Dominion Transmission, Inc.

2 / 2

RECEIVED
Office of Oil and Gas
JAN 11 2016
WV Department of
Environmental Protection

4105700P

2. Article Number

7160 3901 9846 3216 4624

3. Service Type **CERTIFIED MAIL**

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

1. Article Addressed to:

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) M Townsend

B. Date of Delivery 12/18/15

C. Signature X M Townsend ☐ Agent ☐ Addres

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

Western Pocahontas Properties
5260 Irwin Road
Huntington, WV 25705-3247

2/2

PS Form 3811, January 2005 Domestic Return Receipt

7160 3901 9846 3216 4624

US Postal Service
Certified Mail Receipt
Domestic Mail Only
No Insurance Coverage Provided

Postage	$ 2.08
Certified Fee	3.45
Return Receipt Fee (Endorsement Required)	2.80
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$ 8.33

BRIDGEPORT MPC
DEC 16 2015
26330-USPS

Sent To:

Western Pocahontas Properties
5260 Irwin Road
Huntington, WV 25705-3247

2/2

PS Form 3800, January 2005 US Postal Service Certified Mail Receipt

Jason Bach

RECEIVED
Office of Oil and Gas
JAN 11 2016
WV Department of
Environmental Protection

4105700P

WW-9
(2/15)

API Number 47 - 041 - 30133
Operator's Well No. 3008

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Dominion Transmission, Inc. OP Code 307048

Watershed (HUC 10) Smoke Camp Run of Right Fork of Freeman's Creek Quadrangle Camden, WV 7.5'

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 ☐

If so, please describe anticipated pit waste: Cement returns and plug material removed from well

Will a synthetic liner be used in the pit? Yes ☑ No ☐ If so, what ml.? 40

Proposed Disposal Method For Treated Pit Wastes:

- ____ Land Application
- ____ Underground Injection (UIC Permit Number ____)
- ____ Reuse (at API Number ____)
- ■ Off Site Disposal (Supply form WW-9 for disposal location)
- ____ Other (Explain ____

Will closed loop system be used? If so, describe: Yes

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Water based - natural gel or polymer drilling mud

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

Additives to be used in drilling medium? Bentonite, attapulgite, HEC, xanthan gum, starch, KCl, NaCl, NaOH, CaCl2, lignosulfonate, citric acid, barite, biocide

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Remove offsite

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

-Landfill or offsite name/permit number? Meadowfill Landfill (R30-MSWLGP-2011-03300128) (All drill cuttings & pit wastes)

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 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.

Company Official Signature ____

Company Official (Typed Name) John M. Love

Company Official Title Director, Storage & Land Services

Subscribed and sworn before me this 15th day of December, 2015

Brenda M. Johnson Notary Public

My commission expires March 31, 2020

RECEIVED
Office of Oil and Gas
DEC 17 2015
WV Department of Environmental Protection

NOTARY PUBLIC OFFICIAL SEAL
Brenda M. Johnson
State of West Virginia
My Commission Expires
March 31, 2020
Dominion Transmission, Inc
925 White Oaks Boulevard
Bridgeport, WV 26330

4105700P

Form WW-9

Operator's Well No. 3008

Dominion Transmission, Inc.

Proposed Revegetation Treatment: Acres Disturbed 1.15 +/- Prevegetation pH _____

Lime 3.0 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 (or equivalent)

Fertilizer amount 500 lbs/acre

Mulch Hay or straw @ 2.5 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Meadow Mix	50	Meadow Mix	50

Attach:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Site plan (including road, location, and pit) & USGS quad section (Camden, WV 7.5') attached

Plan Approved by: Barry Stottings

Comments: _____

Title: Oil & Gas Inspector Date: 12-22-15

Field Reviewed? (✓) Yes ( ) No

4105700P

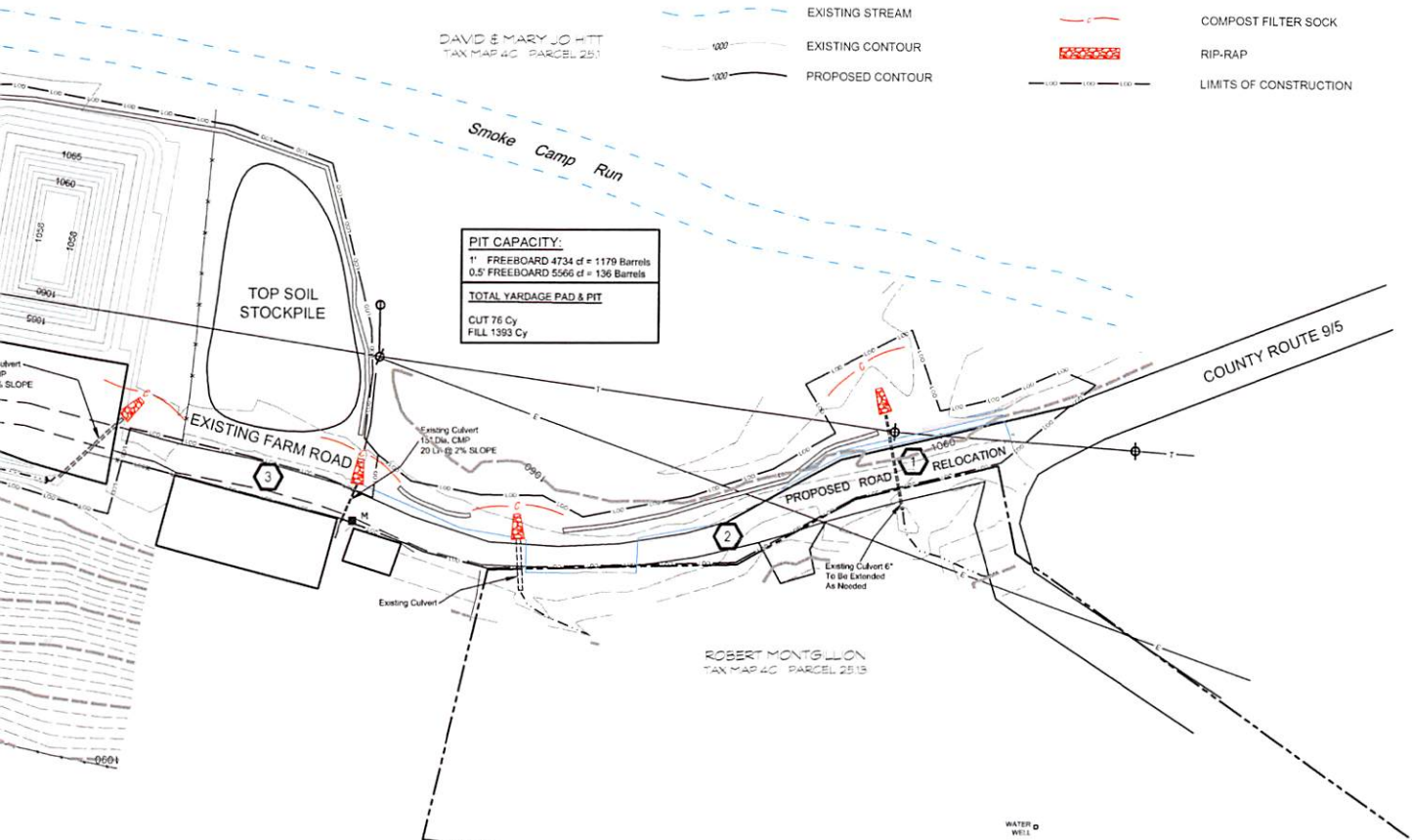
REDUCED SCALE

0 30' 60'

SCALE: 1" = 30'

LEGEND

PROPERTY LINE		UTILITY POLE	
OVERHEAD ELECTRIC LINE	E	GUY POLE	GP
OVERHEAD TELEPHONE LINE	T	GUY ANCHOR	GA
OVERHEAD ELECTRIC/TELEPHONE	E/T	PROPERTY CORNER	
CULVERT		GAS WELL	
EXISTING FENCE		UTILITY METER	M
DITCH		SILT FENCE	
EXISTING STREAM		COMPOST FILTER SOCK	
EXISTING CONTOUR	1000	RIP-RAP	
PROPOSED CONTOUR	1000	LIMITS OF CONSTRUCTION	LOD



PIT CAPACITY:

1' FREEBOARD 4734 cf = 1179 Barrels
0.5' FREEBOARD 5566 cf = 136 Barrels

TOTAL YARDAGE PAD & PIT

CUT 76 Cy
FILL 1393 Cy

ACCESS ROAD			
	DIST.	SLOPE	CROSS DRAIN SPACING
1	80'	2%	as needed
2	95'	-1%	as needed
3	130'	0%	as needed
	305'	TOTAL LENGTH ACCESS ROAD	

RECEIVED
Office of Oil and Gas
JAN 11 2016
WV Department of
Environmental Protection

REVISIONS			
NO.	DESCRIPTION	DWN.	DATE
1	MODIFY PAD / ACCESS ROAD	LFL	12/7/15

MSES consultants, inc.
environmental & engineering consultants
Clarksburg, West Virginia

For DOMINION TRANSMISSION, INC.

Title
WELL #3008
E&S CONTROL
WELL LOCATION & ACCESS ROAD

Drawn	LFL	8/15	Scale AS SHOWN
Engineer	DTT	8/15	Dwg. No. 1 OF 1
Checked	DTT	8/15	

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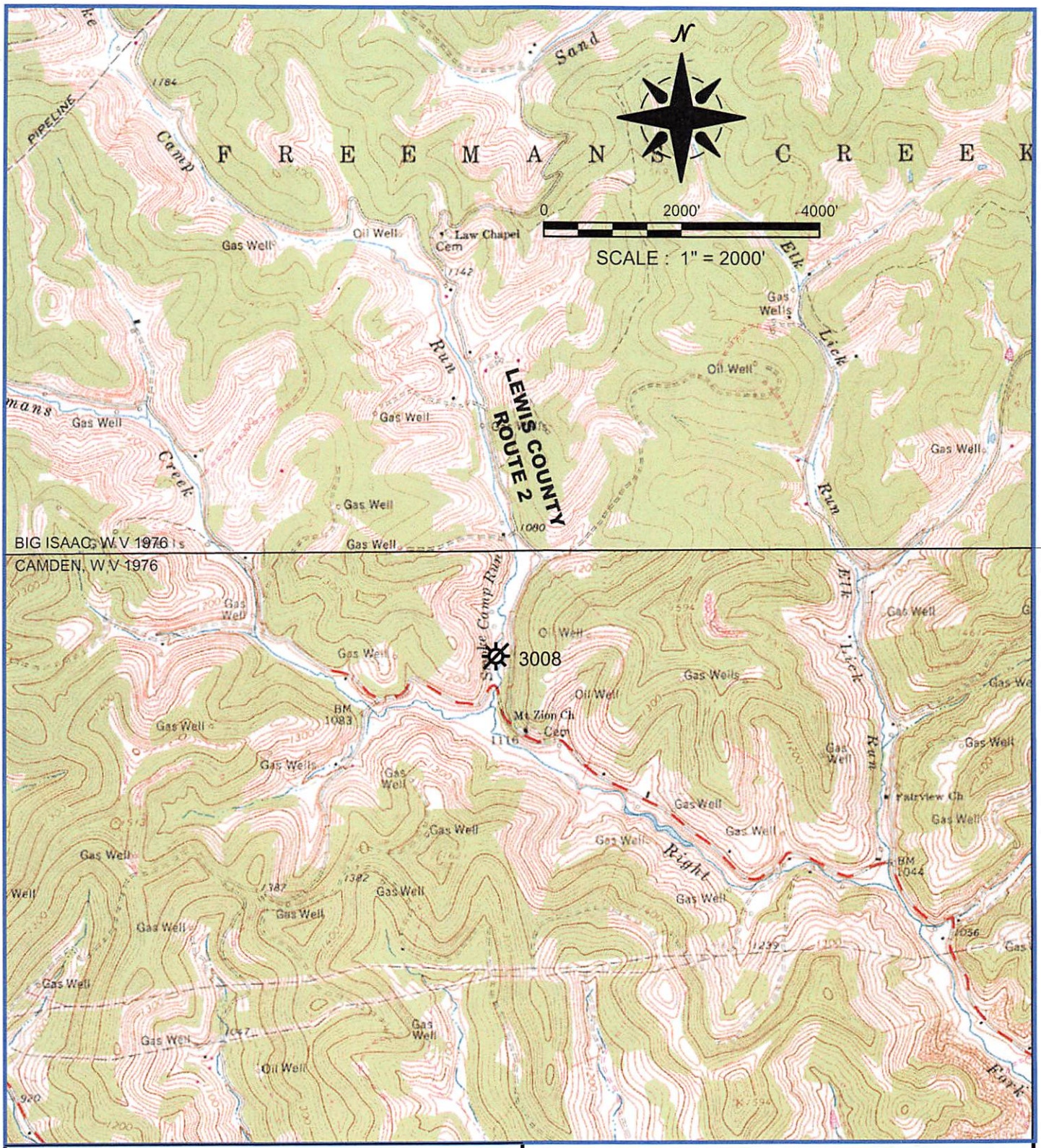

REFERENCE

U.S.G.S. 7.5' TOPOGRAPHIC QUADRANGLES,
BIG ISAAC, W V 1976
CAMDEN, W V 1976

CAD FILE NO. 15-080 Well 3008 Well Site Topo

DOMINION TRANSMISSION, INC.

WELL 3008
WELL SITE TOPO

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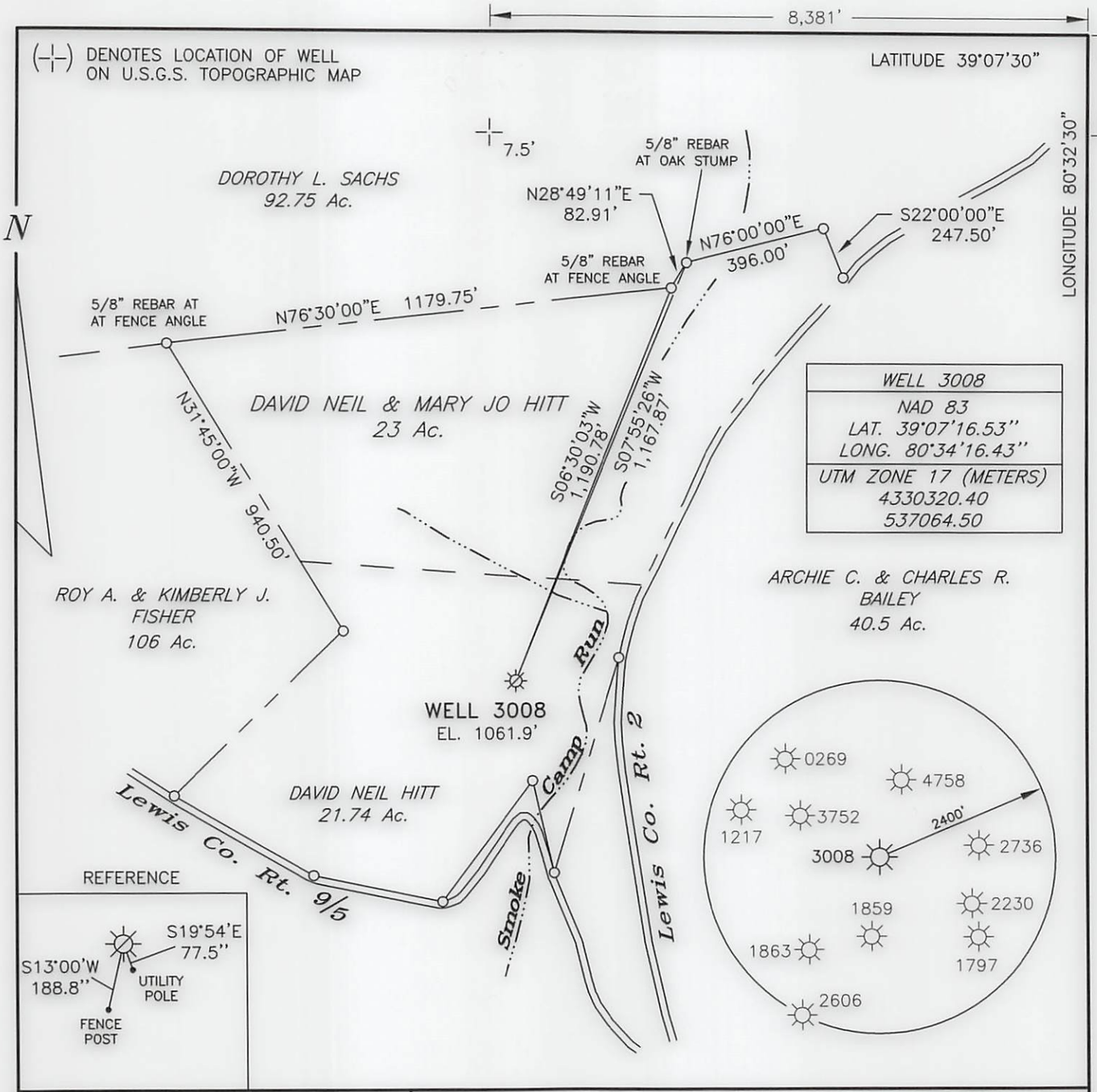
JAN 11 2016
WV Department of
Environmental Protection

Drawn by	KLA/LFL	8/15	Scale AS SHOWN
Engineer	DTT	8/15	
Checked by	DTT	8/15	
		Date	**FIGURE 1**

Prepared by *MSES consultants, inc.*



MSES consultants, inc.

FILE NO. 15-080 Well 3008 Well Plat
DRAWN BY KLA/LFL
SCALE 1"= 400'
MIN. DEGREE OF ACCURACY 1 IN 2500'
PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT IT SHOWS ALL INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) Daniel Trembly
R.P.E. . P.S. 2029

DANIEL T. TREMBLY LICENSED No.2029 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE AUGUST 21, 2015
OPERATOR'S WELL NO. 3008
API WELL NO. 05700P
47 STATE 41 COUNTY 30133 PERMIT NO.

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WELL TYPE: OIL ☐ GAS ☒ LIQUID INJECTION ☐ WASTE DISPOSAL ☐
IF "GAS", PRODUCTION ☒ STORAGE ☐ DEEP ☐ SHALLOW ☐

LOCATION: ELEVATION 1061.9' WATERSHED SMOKE CAMP RUN OF RIGHT FORK FREEEMANS CK
DISTRICT FREEMANS CREEK COUNTY LEWIS
QUADRANGLE CAMDEN, WV 7.5' NEAREST TOWN CHURCHVILLE
SURFACE OWNER DAVID NEIL & MARY JO HITT ACREAGE 21.74
OIL & GAS ROYALTY OWNER DAVID NEIL & MARY JO HITT (J.W. WOOFTER) LEASE ACREAGE 49
LEASE NO. FK051237 & FK051238

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

TARGET FORMATION GANTZ ESTIMATED DEPTH 2597'
WELL OPERATOR DOMINION TRANSMISSION, INC. DESIGNATED AGENT JOHN M. LOVE
ADDRESS 925 WHITE OAKS BOULEVARD ADDRESS 925 WHITE OAKS BOULEVARD
BRIDGEPORT, WEST VIRGINIA 26330 BRIDGEPORT, WEST VIRGINIA 26330

COUNTY 041 PERMIT NO.

FORM IV-6

4/105 700P

WW-2A1
(Rev. 1/11)

Operator's Well Number 3008

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
Lee Woofter (FK051237) & Hunter M. & Madge Bennett (FK051238)	Hope Natural Gas Company	1/8	425/127
On April 4, 1965, Hope Natural Gas Company	and New York State Natural Gas Corporation	merged and formed	Consolidated Gas
Supply Corporation. On March 1, 1984	(effective January 1, 1984) Consolidated Gas	Supply Corporation	was renamed
Consolidated Gas Transmission Corporation.	Effective January 1, 1988, Consolidated Gas	Transmission	Corporation was
renamed CNG Transmission Corporation.	On May 3, 2000, CNG Transmission Corporation	merged with	Dominion
Transmission, Inc. As of that date, Dominion	Transmission, Inc. became the operator of	the aforementioned	operations and
leases.			

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

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: Dominion Transmission, Inc.
By: Its: John M. Love
Designated Agent

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Environmental Protection

4105 700P

DOMINION TRANSMISSION, INC.

Well # 3008
Plugging Project

Coal Evaluation Report

Prepared by:
Jason E. Bach, PG
5 Coolview Lane
Bridgeport, WV 26330
304.669.4850

December 14, 2015

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JAN 11 2016

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Environmental Protection

4/05700P

BACKGROUND

The West Virginia Geological and Economic Survey Coal Bed Map Program (WVGES CBMP) was utilized to determine the presence, depth, and thicknesses of coal seams within the immediate vicinity of Dominion Transmission, Inc. (DTI) well 3008 (47-041-30133), in Lewis County, WV. The following is a report on the findings of this review.

Due to the location of the well, in north central West Virginia, four coal groups were selected for review: Conemaugh, Allegheny, Monongahela, and Dunkard Groups.

COAL GROUPS

CONEMAUGH & ALLEGHENY GROUPS

All mapping indicates that the Conemaugh and Allegheny not found in this part of Lewis County. Both groups either terminate several miles to the east or several counties to the south of the well location. Therefore, all members of the Conemaugh and Allegheny Groups were eliminated as zones of concern for the planned well work.

MONOGAHELA GROUP

With the two lower groups eliminated, the next group reviewed was the Monongahela Group. The lowest member is the Pittsburgh coal. Mapping indicates that the coal elevation is approximately 800' ASL. Given the elevation of the well location is 1061.9' ASL, this would place the coal at an approximate depth of 262' below GL. The well records indicate that a coal seam was encountered when the well was drilled, at a depth of 258' below GL. Allowing for a slight depth discrepancy between well records and map data, most likely due to zeroing point variances and map estimation tolerances, the coal listed in the well record is the Pittsburgh coal.

The map records also indicated that the Pittsburgh coal, in the vicinity of the well, had a thickness of at least 30", but no more than 42". The well records indicate the coal thickness encounter during drilling was 48". This is slightly thicker than what is indicated on the mapping data, which may be due to thickness estimation made during drilling or map estimation tolerances. Whatever the reason for the discrepancy, the coal thickness indicated on the map is similar to the thickness indicated in the drilling records. This further indicates that the coal recorded during drilling was the Pittsburgh coal.

The next member of the Monongahela Group reviewed was the Redstone coal. Mapping indicates that the coal elevation is approximately 860' ASL. Given the elevation of the well is

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4105700P

1061.9' ASL, this would place the coal at an approximate depth of 202' below GL. The map data also indicates that the Redstone coal has an approximate thickness of 0" - 6" at this location. The well records do not indicate any coal having been drilled at the mapped depth. For these reasons, it is most likely that the Redstone coal is either nonexistent or very poorly developed at this location.

The next member of the Monongahela Group reviewed was the Sewickley coal. Mapping indicates that the coal elevation is approximately 910' ASL. Given the elevation of the well is 1061.9' ASL, this would place the coal at an approximate depth of 152' below GL. The map data also indicates that the Redstone coal has an approximate thickness of 0" at this location. The well records do not indicate any coal having been drilled at the mapped depth. For these reasons, it is most likely that the Redstone coal is either nonexistent or very poorly developed at this location.

The next member of the Monongahela Group reviewed was the Uniontown coal. Mapping indicates that the coal elevation is approximately 1090' ASL. Given the elevation of the well is 1061.9' ASL, this would place the coal at an approximate depth of 28' above GL. Although the map data indicates that the Uniontown coal has an approximate thickness of 18" - 24" at this location, the thickness is irrelevant to this project. Given the height of the coal seam above GL, this coal is not of concern to the well work operations planned for this well.

DUNKARD GROUP

The two members of the Dunkard Group are the Waynesburg A and Washington coals. Mapping indicates that these coals extend into the area in which this well is located. The lower member, the Waynesburg A, has an elevation of approximately 1180' ASL. Given the elevation of the well is 1061.9' ASL, this would place the coal at an approximate depth of 118' above GL. The map data also indicates that the Waynesburg A coal has an approximate thickness 0" at this location, the thickness is irrelevant to this project. Given the height of the coal seam above GL, this coal is not of concern to the well work operations planned for this well.

With the Washington coal is located stratigraphically above the Waynesburg A coal. With the bedding of the formations exposed at this location being normal and essentially horizontal, the Washington coal has been eliminated as a zone of concern for the planned well work.

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CONCLUSION

Based on the findings of this report, the only coal seam of concern, related to this well work, is a single member of the Monongahela Group: the Pittsburgh coal. No other developed coals, within the vicinity of the well and in the subsurface area of the planned well work, have been determined to exist. Therefore, surface casing for this well is planned to be set in accordance with state regulations and in regards to the depth of the Pittsburgh coal seam. Furthermore, plugging activities will also take into consideration the depth of the Pittsburgh coal seam, with plugging operations being planned to be done in accordance with state regulation.

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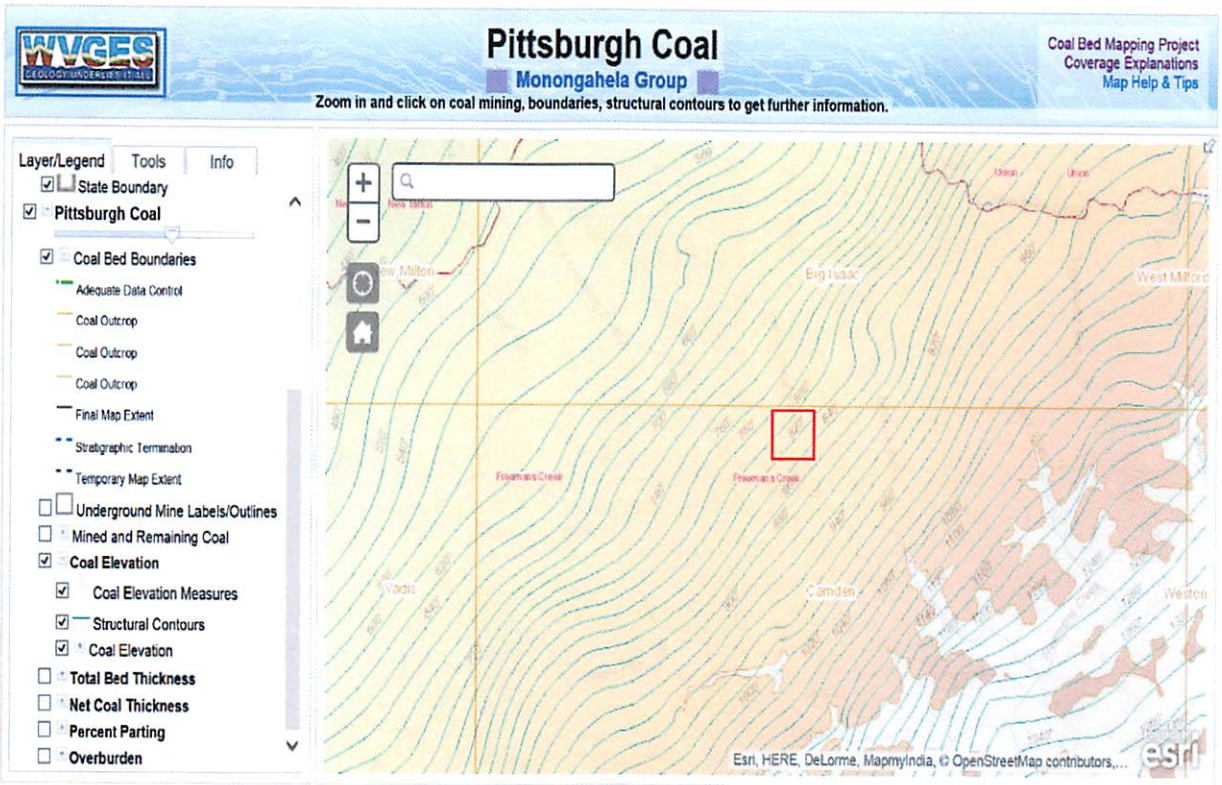
WVGES
Pittsburgh Coal
Monongahela Group
Zoom in and click on coal mining, boundaries, structural contours to get further information.
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West Milford
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Camden
Weston
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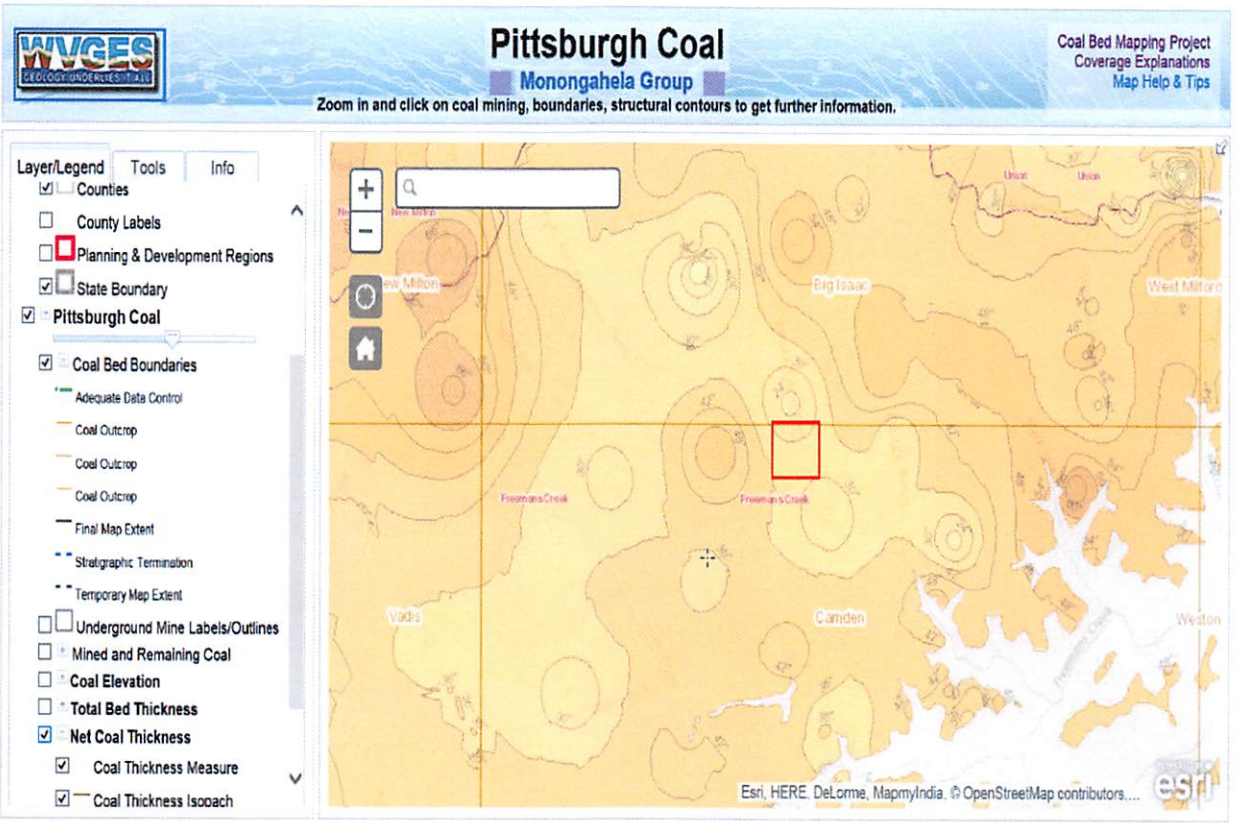
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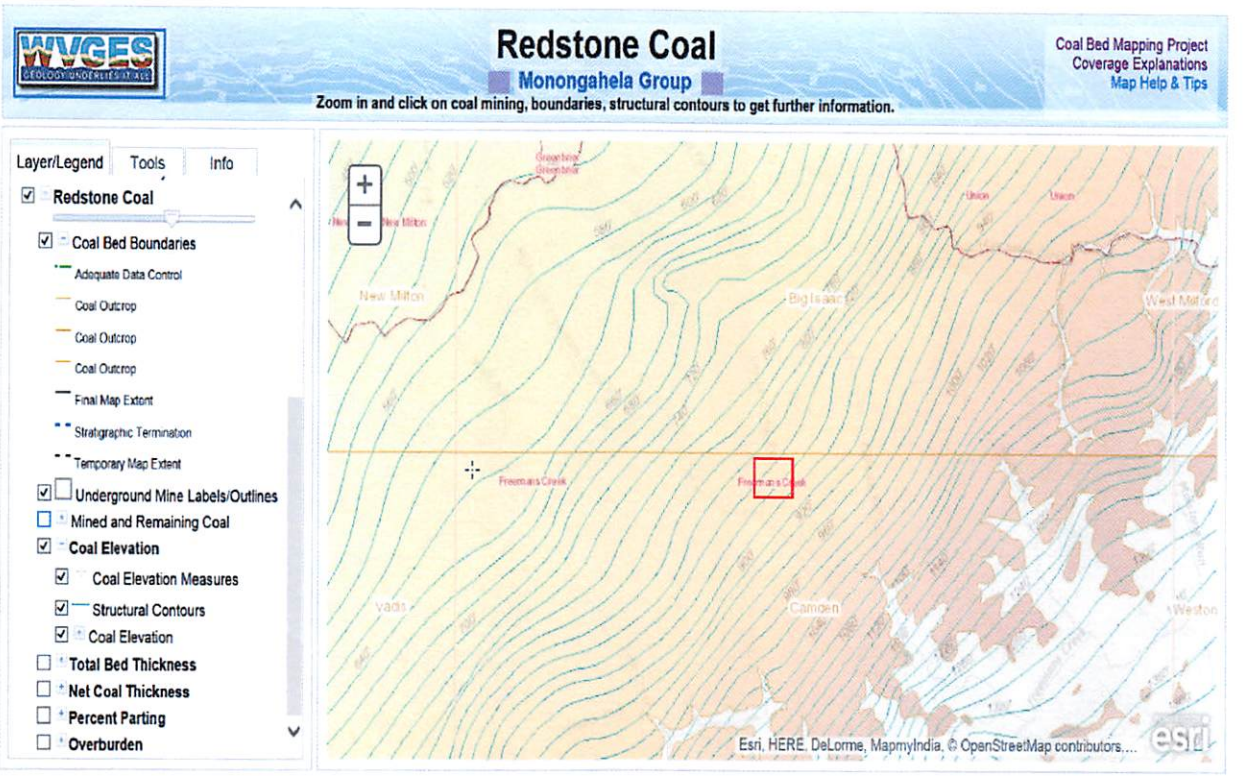
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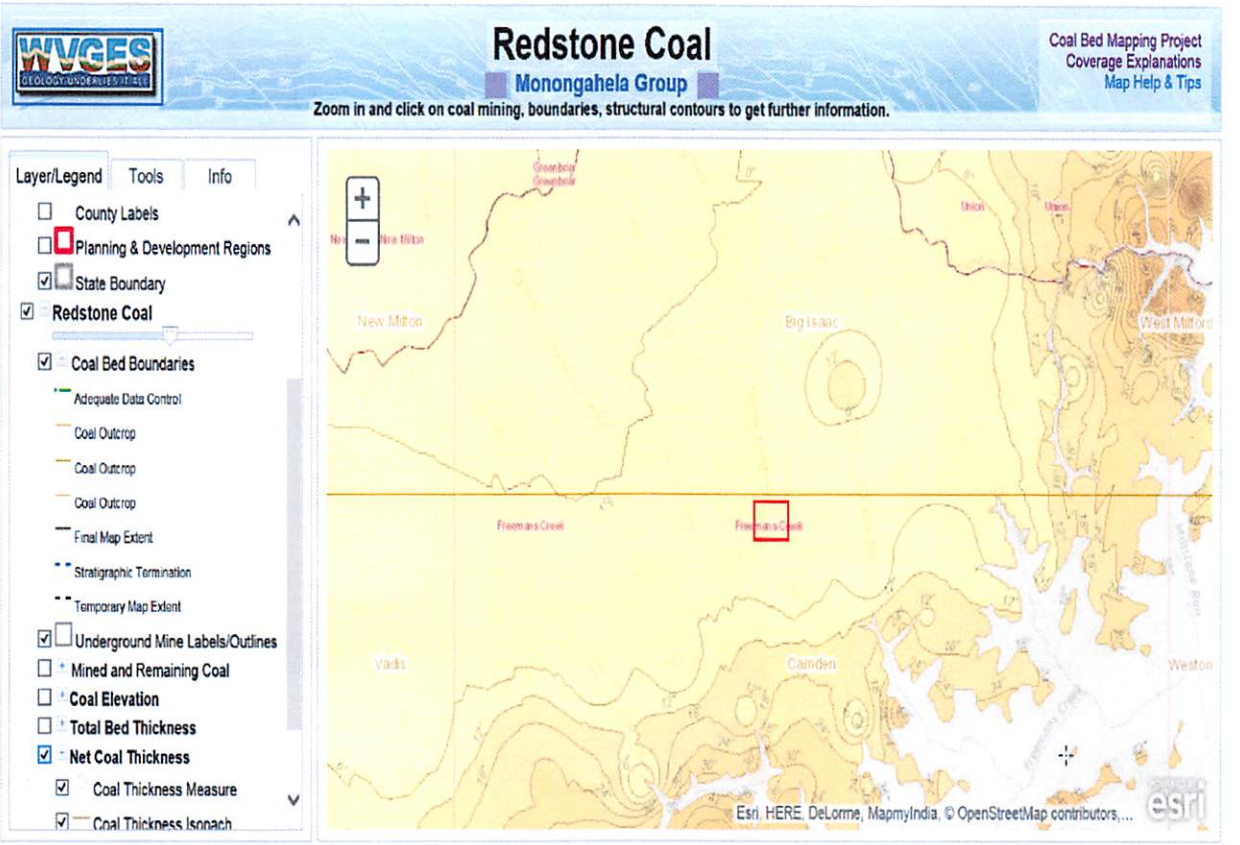
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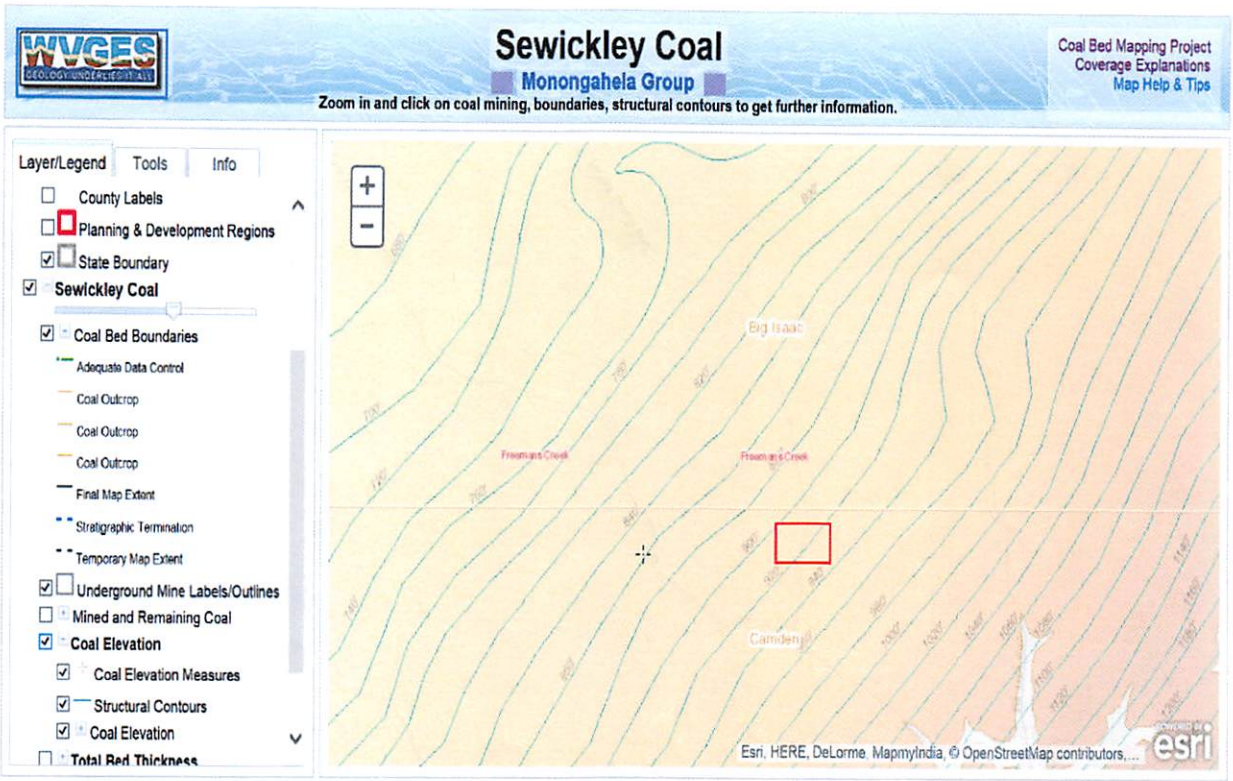
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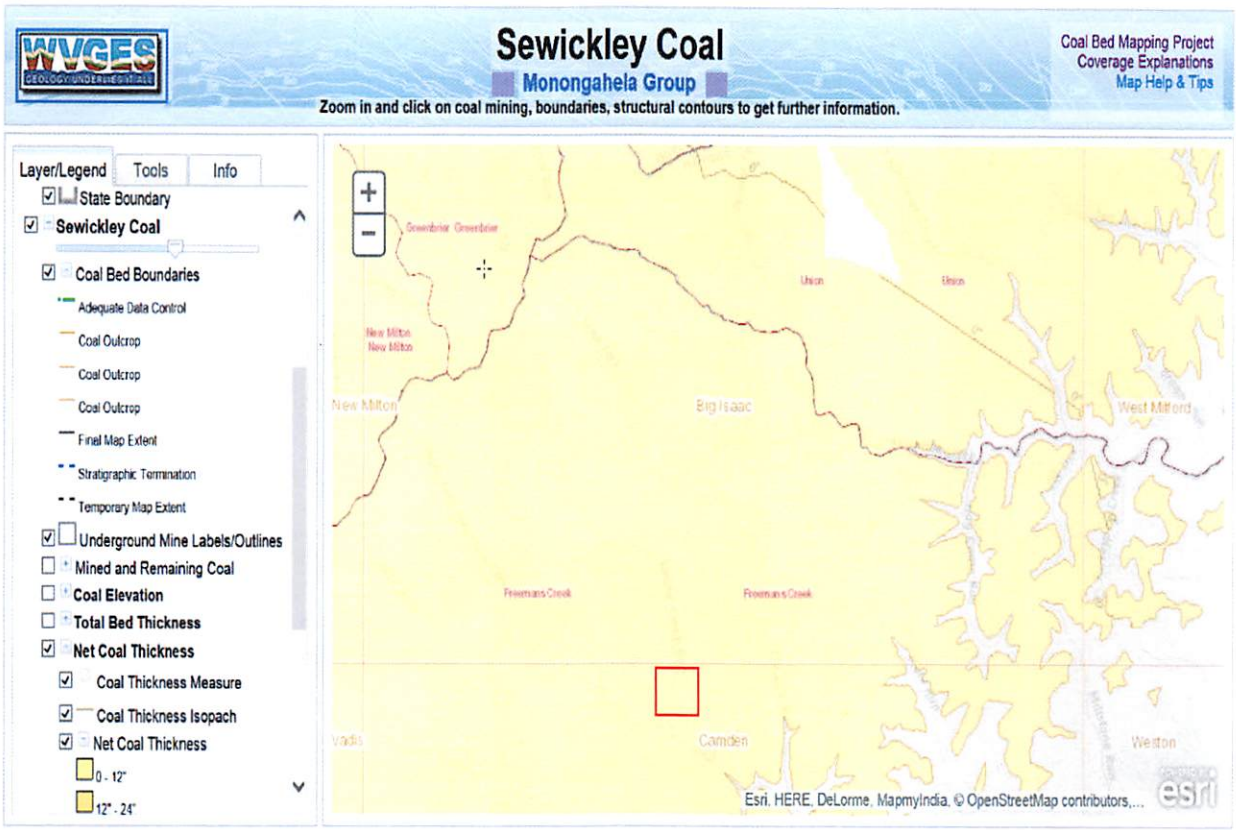
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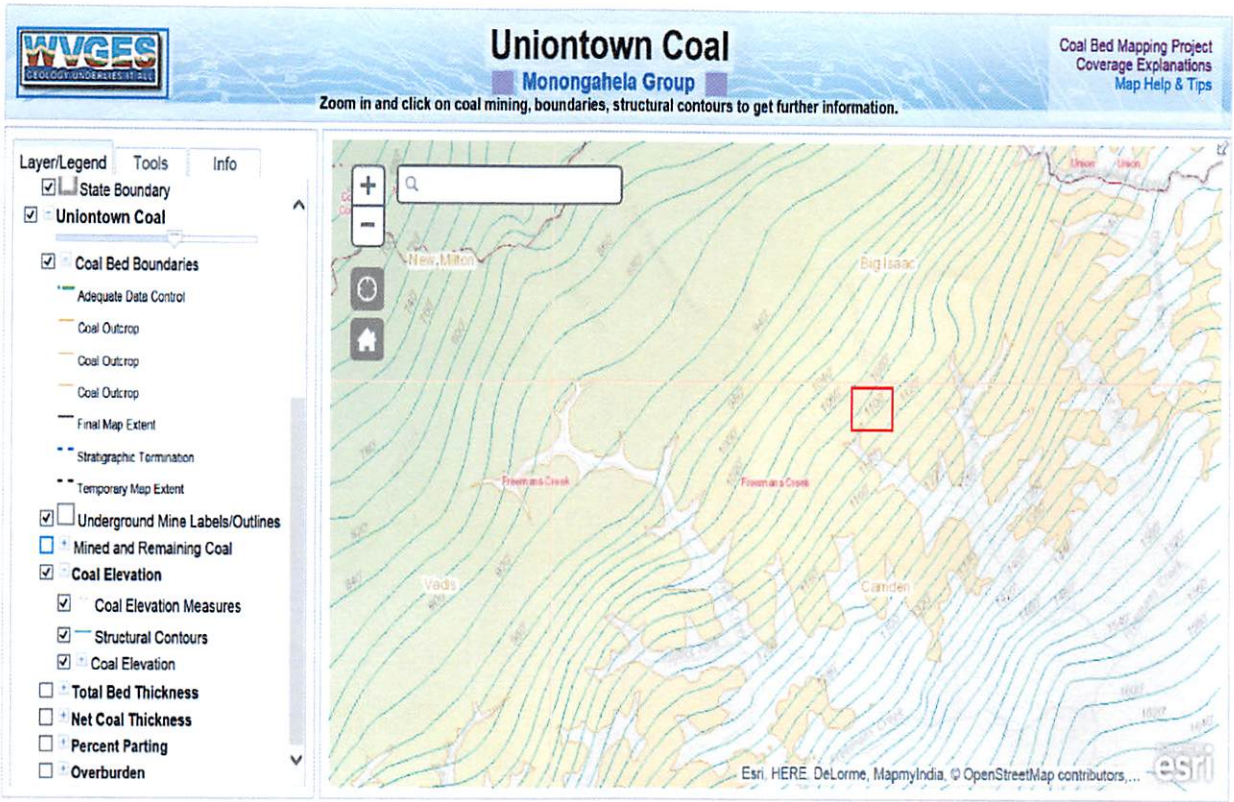
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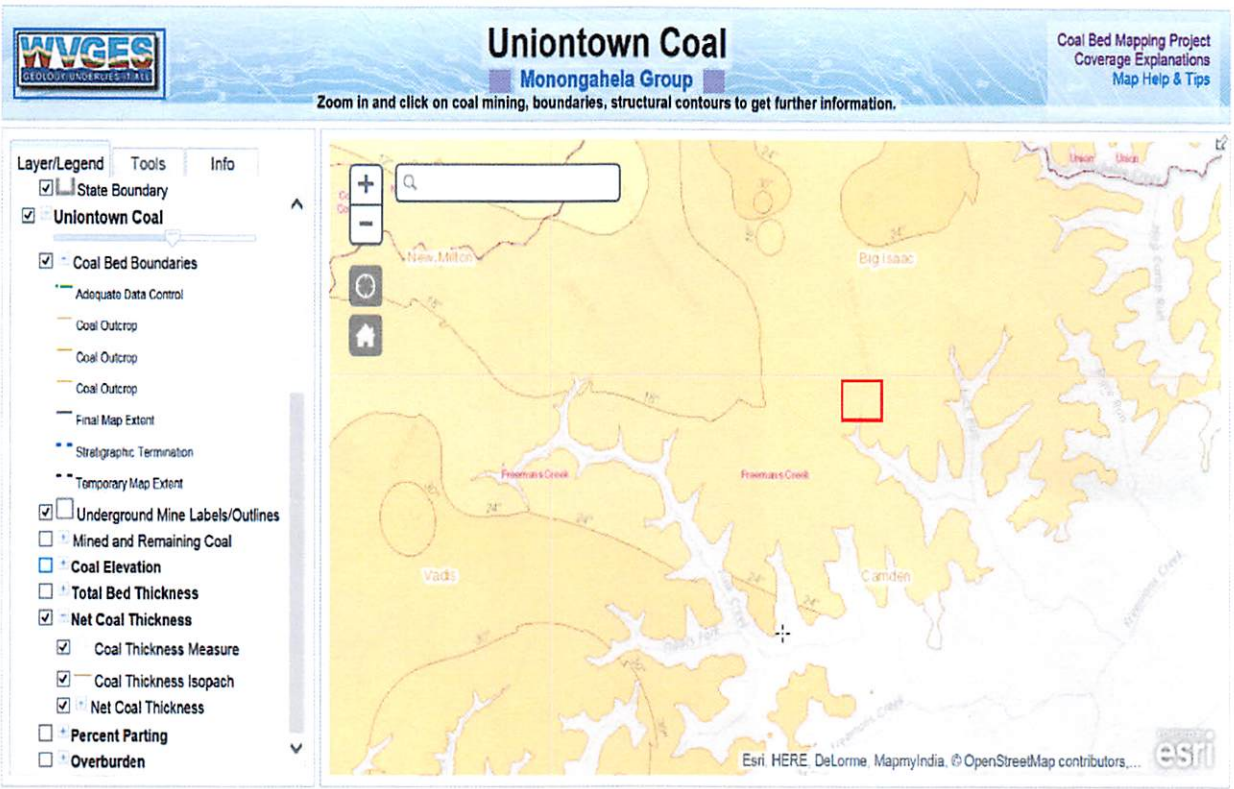
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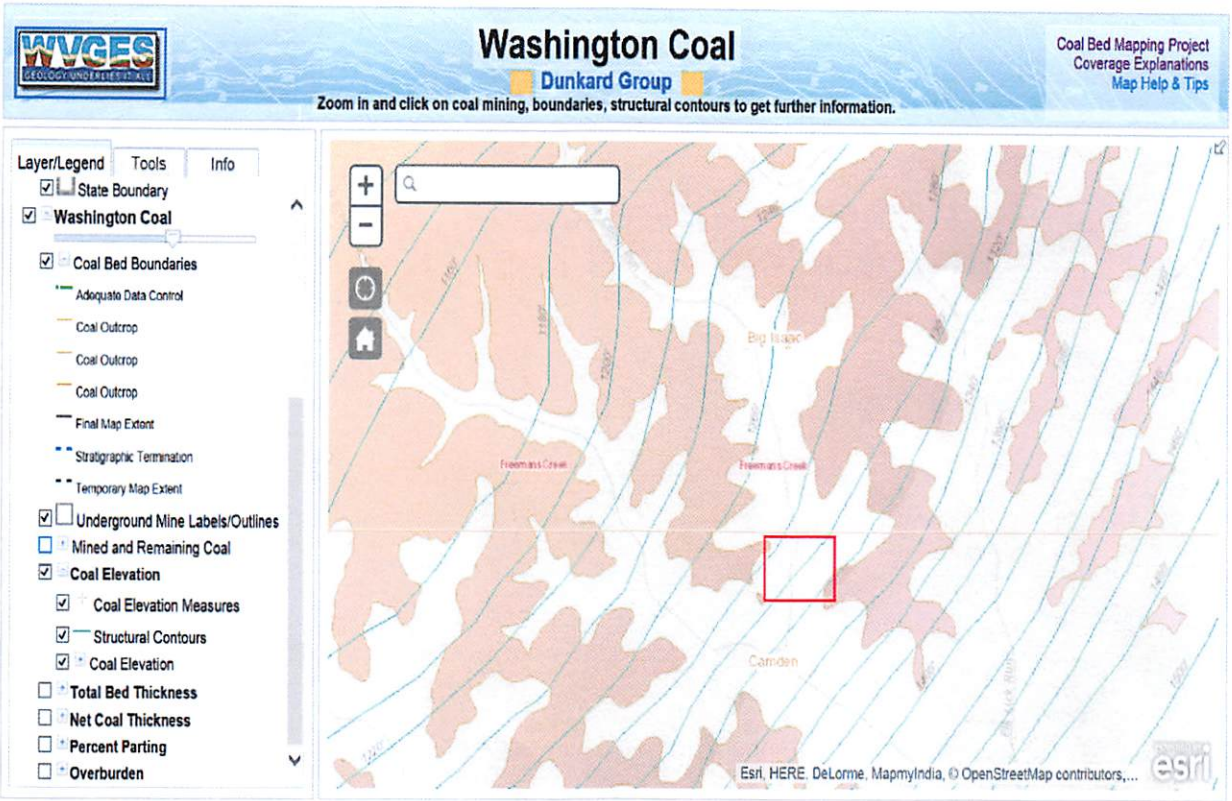
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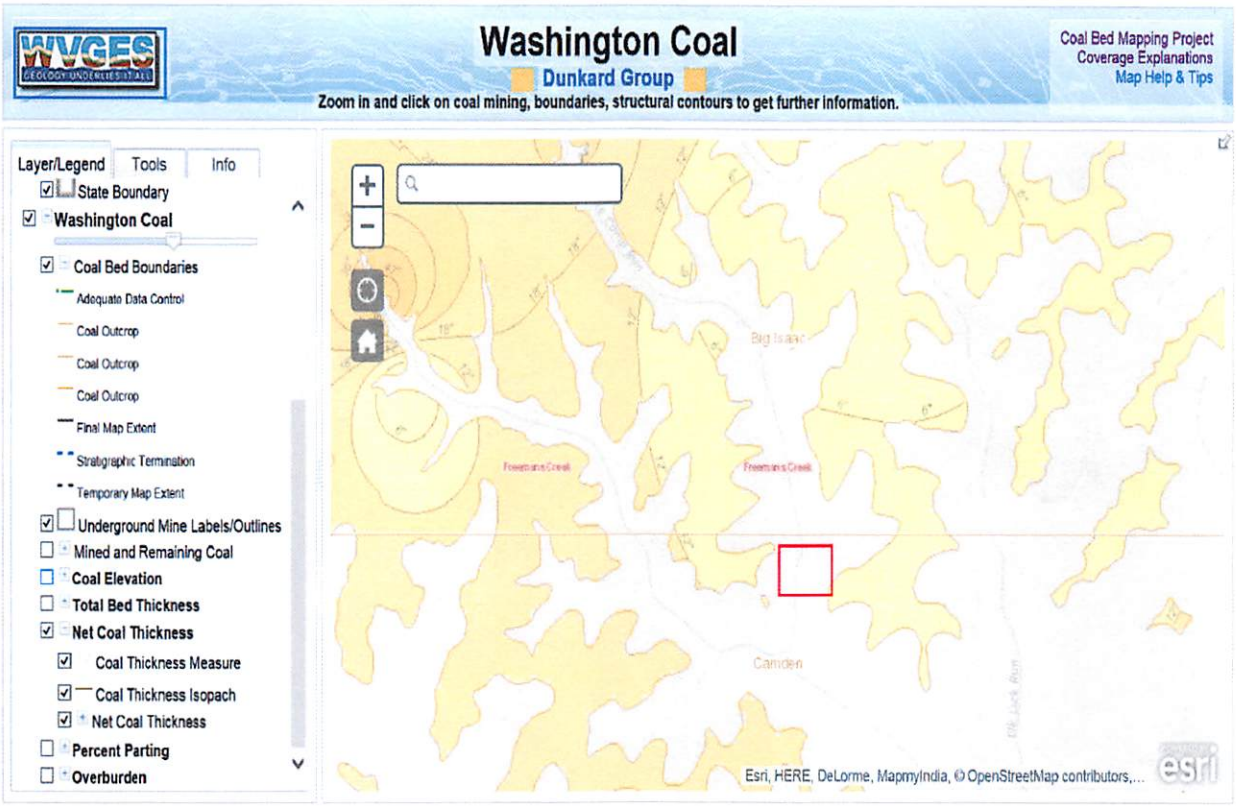
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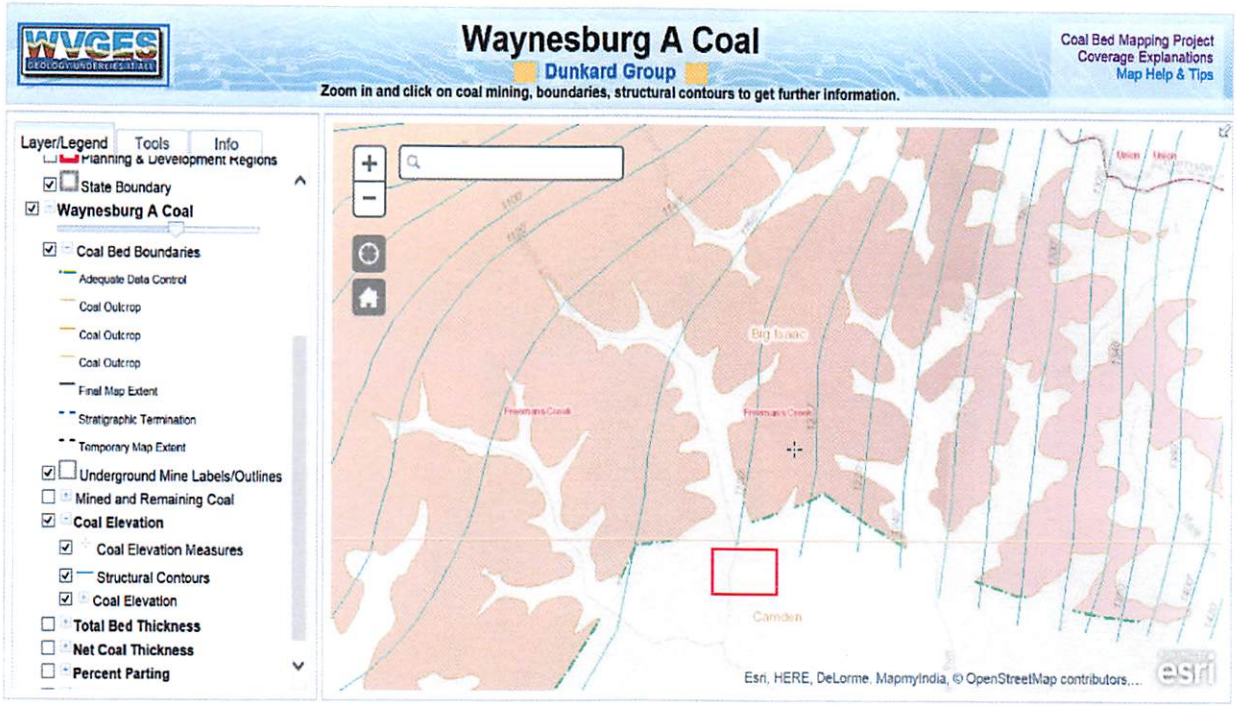
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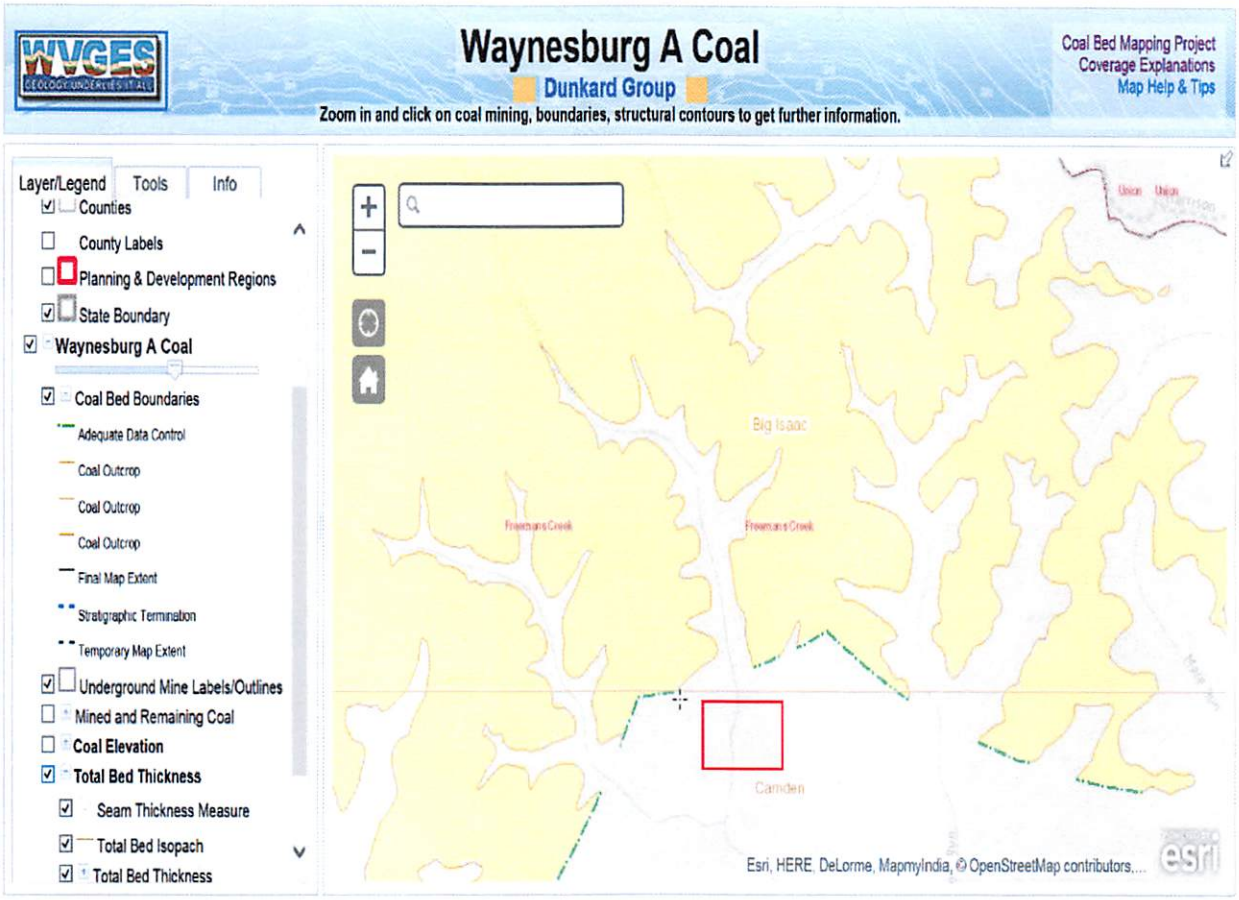
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Total Bed Isopach
Total Bed Thickness
Big Isaac
Freemans Creek
Camden
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1/29/16

Operator: DOMINION TRANSMISSION INC

API: 4105700 P

WELL No: 3008

Reviewed by: gwm Date: 1/29/2016

15 Day End of Comment: 01/18/16

CHECKLIST FOR FILING A PERMIT

Plugging

Money Order
Ck# R205957841420
$100.00

- [x] WW-4B
- [x] Inspector signature on WW-4B
- [x] Completion / Well Records of Previous Work
- [x] WW-4A (Notarized)
- [x] Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- [x] Surface Owner Waiver
- [ ] Coal Owner / Lessee /Operator Waiver
- [x] WW-9 (Page 1) (Notarized)
- [x] Inspector Signature on WW-9 (Optional)
- [x] Topographic Map of location of well
- [ ] WW-7

OR

- [x] Mylar Plat (Surface owner on plat matches WW-4A)
- [x] Bond
- [x] Company is Registered with the SOS
- [x] Worker's Compensation / Unemployment Insurance account is OK
- [x] $100.00 check ($~~0.00 if no pit~~)

4/105 700 P

Dominion Transmission, Inc.
445 West Main Street, Clarksburg, WV 26301

Mailing Address: P.O. Box 2450
Clarksburg, WV 26302-2450

Dominion

December 14, 2015

By U.S. Mail, Certified Delivery
7160 3901 9846 3216 4617

Moneyorder
R20595784100
100 00

WV DEP
Office of Oil & Gas
601 57th Street, SE
Charleston, WV 25304-2345

To the Office of Oil & Gas,

Enclosed is a plugging permit application for Dominion Transmission, Inc. (DTI) well #3008 (API #: 47-041-30133). Well #3008 is a production well which was originally drilled and completed in 1913, by South Penn Oil Company. The well was plugged and abandoned in 1938, by South Penn Oil Company.

Through a series of acquisitions and mergers, the lease on which this well is located was acquired by DTI. The lease on which the well sets is currently utilized by DTI for natural gas storage. This well is located in an active section of DTI's Fink storage reservoir. While DTI uses this area for natural gas storage, well #3008 was plugged & abandoned years prior to natural gas storage operations commencing. The well has been plugged & abandoned throughout the entirety of DTI's ownership.

A form WW-2A1 has been included with this permit application. Although not required for a plugging permit application, due the nature of this well, it has been included to provide evidence of chain of title and, therefore, DTI's ownership.

Regardless of the history of this well, the fact remains that the wellbore still penetrates the active gas storage horizon (Gantz sandstone). This, coupled with the limited records available for this well and the nature of the plugging practices utilized during the early part of the 20th century, has led DTI to identify this well as an area of concern for storage reservoir integrity. As such, this well has been selected as a candidate for remediation. To summarize DTI's plan, the intent is to clean out this well and plug it to modern standards. At the completion of the planned remedial work, the well will retain its plugged & abandoned status. The work procedures are included in the enclosed permit application filing.

Should you have any questions or comments, please contact me by means of the information listed below.

RECEIVED
Office of Oil and Gas
JAN 11 2016
WV Department of
Environmental Protection

Sincerely,

Christopher D. Barclay

Christopher D. Barclay
M: 304.476.2156
E: Christopher.d.barclay@dom.com