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**west virginia** department of environmental protection

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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

June 02, 2015

**WELL WORK PERMIT**

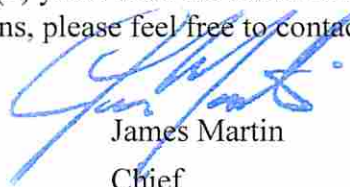
**Re-Work**

This permit, API Well Number: 47-4102755, 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.

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: AW230  
Farm Name: STARCHER, U. E.  
**API Well Number: 47-4102755**  
**Permit Type: Re-Work**  
Date Issued: 06/02/2015

**Promoting a healthy environment.**

**06/05/2015**

## 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.

4102755W

WW-2A  
(Rev. 6-07)

RECEIVED  
Office of Oil and Gas  
1.) Date: July 24, 2013  
2.) Operator's Well Number AW-230  
State 47- County 041 Permit -  
3.) API Well No.:  
FEB 25 2015

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

4) Surface Owner(s) to be served:

(a) Name Judith A. Rioch  
Address 15115 Wollett Road  
Nelsonville, OH 45764-9676

(b) Name  
Address

(c) Name  
Address

5) (a) Coal Operator

Name Dominion Transmission, Inc.  
Address PO Box 27026  
Richmond, VA 23261-7026

(b) Coal Owner(s) with Declaration

Name  
Address

(c) Coal Lessee with Declaration

Name  
Address

6) Inspector Mr. Barry Stollings  
Address P.O. Box 1228  
Chapmanville, WV 25508  
Telephone 304-552-4194

**TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:**

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

OR  
 Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

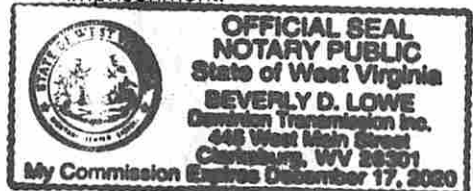
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_ on the above named parties by:

- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, 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 and imprisonment.



Well Operator Dominion Transmission, Inc.  
By: James D. Blasingame  
Its: Director of Storage  
Address 445 West Main Street  
Clarksburg, WV 26301  
Telephone 304-669-5007

Subscribed and sworn before me this 20th day of February, 2015

Beverly D. Lowe Notary Public

My Commission Expires December 17, 2020

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov)

06/05/2015

4102755W

Dominion  
Transmission  
AW-230  
Permit

Article Number



7160 3901 9846 3216 5041

Service Type CERTIFIED MAIL

Restricted Delivery? (Extra Fee)  Yes

Article Addressed to:

Judith Riach  
15115 Wollert Rd.  
Nelsonville, OH 45764



COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly)	B. Date of Delivery
	4/18/15
C. Signature	<input type="checkbox"/> Agent Addressee
X Judith Riach	<input type="checkbox"/> Yes
D. Is delivery address different from item 1? If YES, enter delivery address below:	<input type="checkbox"/> No

PS Form 3811, January 2005

Domestic Return Receipt

716

UNITED STATES POSTAL SERVICE



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

• Print your name, address and ZIP+4 below •

DOMINION TRANSMISSION INC  
PO BOX 2450  
CLARKSBURG WV 26302-2450  
Attn: Jason Harshberger

06/05/2015

4102755w

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Lewis  
Operator Dominion Transmission, Inc.

Operator's Well Number AW-230

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

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Office of Oil and Gas

FEB 25 2015

WV Department of  
Environmental Protection

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.

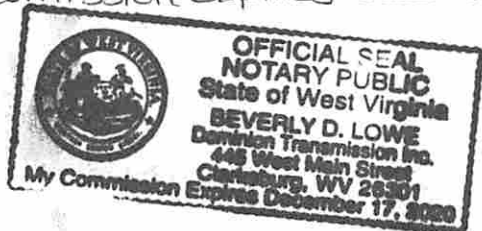
\_\_\_\_\_  
Signature Date

Company Name DOMINION TRANSMISSION INC.  
By JAMES D. BLASINGAME  
Its DESIGNATED AGENT Date

James D. Blasingame 2/20/15  
Signature Date

Subscribed and sworn before me  
this 20<sup>th</sup> day of February, 2015.

Beverly D. Lowe - Notary Public  
My Commission expires December 17, 2020



06/05/2015

**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
SEE ATTACHED SHEET			

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

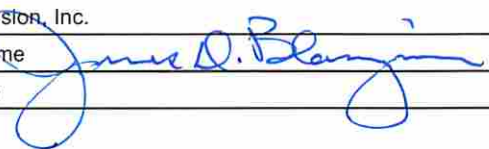
The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- 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:  
By: Its:

Dominion Transmission, Inc.  
 James D. Blasingame  
 Director of Storage



## **Dominion Transmission's Lease Lineage for** **Well AW-230 (API# 47-041-02755)**

**AW-230 (LEASE FK000783 – CONSOLIDATED GAS SUPPLY ACQUIRED 100% INTEREST IN OIL AND GAS OF THIS LEASE, SO WE NOW CARRY THIS ACREAGE UNDER FEE LEASE FK079442):**

**ORIGINAL GRANTORS: L. H. STARCHER AND ERNESTINE STARCHER, HIS WIFE; LUCY W. WISEMAN AND SANFORD F. WISEMAN, HER HUSBAND. 384/512 INTEREST IN FEE IN 100 ACRES.**

**ORIGINAL GRANTOR: CONSOLIDATED GAS SUPPLY CORPORATION.**

**CONSOLIDATED GAS SUPPLY CORPORATION TO: CONSOLIDATED GAS TRANSMISSION CORPORATION BY ASSIGNMENT DTD 3-1-84 EFFECTIVE 1-1-84. REC. B. 427 P. 538. MISC 6296**

**BY CORPORATE NAME CHANGE EFFECTIVE 1-1-88, CONSOLIDATED GAS TRANSMISSION CORPORATION IS NOW CNG TRANSMISSION CORPORATION.**

**ABSTRACT - BRING-DOWN REQUESTED 2-87.A RESULT OF A MERGER, CNG TRANSMISSION CORPORATION CHANGED ITS NAME TO DOMINION TRANSMISSION, INC., EFFECTIVE APRIL 11, 2000.**

### **Royalty Information:**

Dominion Transmission owns this lease, therefore has 12.5% Royalty Interest and 87.5% Working Interest.

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4102755SW

WW-2B1  
(5-12)

Well No. AW-230

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 REIC  
Sampling Contractor MSES Consultants, Inc.

Well Operator Dominion Transmission, Inc.  
Address 445 West Main Street  
Clarksburg, WV 26301  
Telephone 304-669-5007

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.

SEE ATTACHMENT.

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WV Department of  
Environmental Protection

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410 27559W

ATTACHMENT

**Dominion Transmission, Inc  
Existing Well AW-230  
Freemans Creek District, Lewis County, WV**

**July 24, 2013**

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**FEB 25 2015**

**Water Well Locations**

**Matthew D. & Linda S. Richards  
4481 Issacs Fork Road  
Camden, WV 26338**

**WV Department of  
Environmental Protection**

**Judith A. Rioch  
15115 Wollett Road  
Nelsonville, OH 45764**

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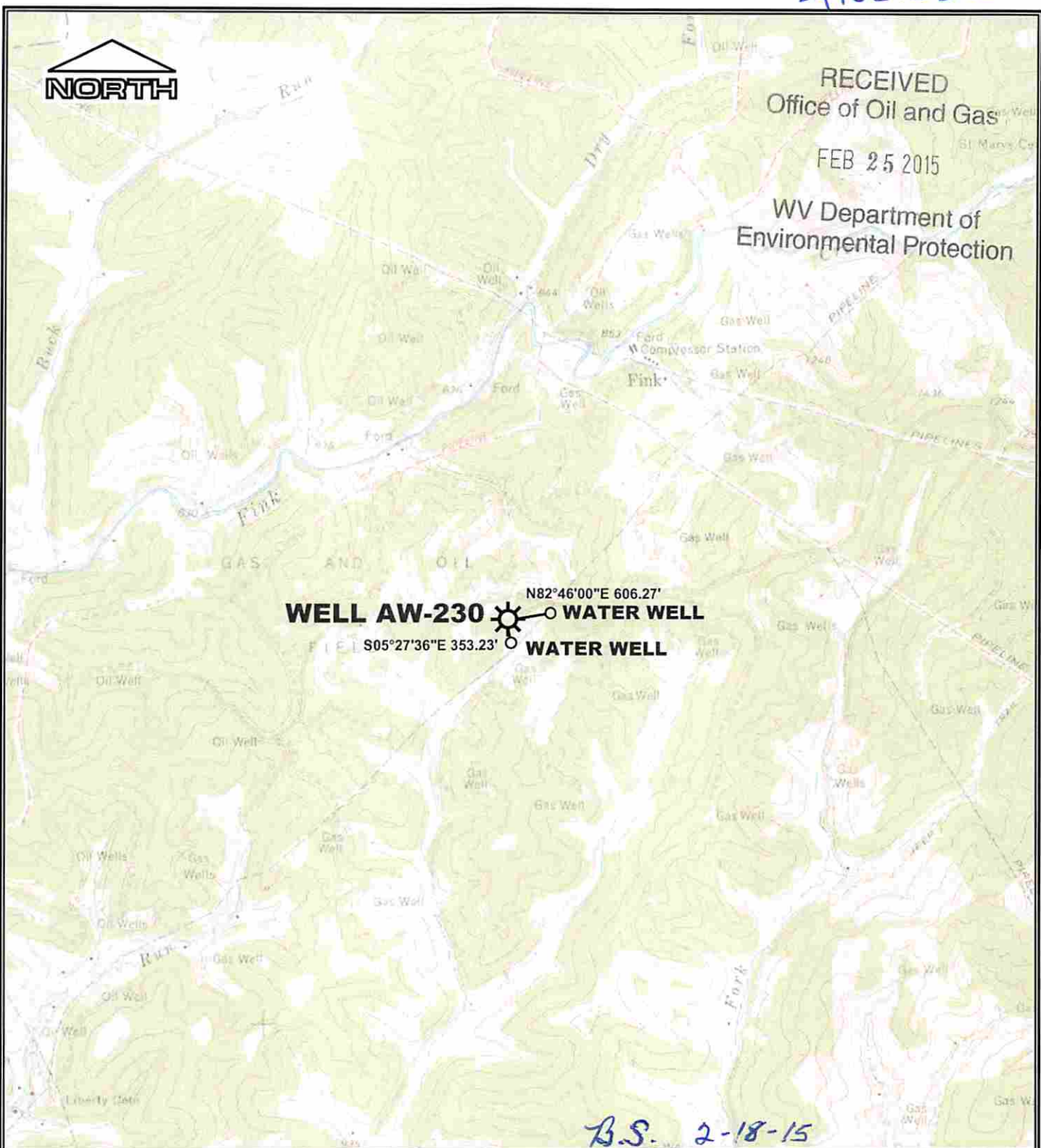
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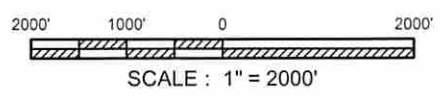
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B.S. 2-18-15



REFERENCE  
U.S.G.S TOPOGRAPHIC MAP 7.5'  
VADIS, W.V. 1964 PHOTOREVISED 1976

### DOMINION TRANSMISSION, INC.

## WELL AW-230 SURROUNDING WATER WELLS

Drawn by	KLA	7/13
Engineer	HDW	7/13
Checked by	RVS	7/13
		Date

Scale:  
AS SHOWN

Prepared by **MSES consultants, inc.**

1 of 1  
**06/05/2015**

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WW - 2B  
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STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION WV Department of  
Environmental Protection

FEB 25 2015

1) Well Operator: Dominion Transmission, Inc. 307048 Lewis Freemans Creek Vadis 7.5'  
Operator ID County District Quadrangle

2) Operator's Well Number: AW-230 3) Elevation: 1198.20'

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

5) Proposed Target Formation(s): Gantz Proposed Target Depth: 2488'-2516'

6) Proposed Total Depth: 2536' Feet Formation at Proposed Total Depth: Gantz "A" Sand

7) Approximate fresh water strata depths: 250'

8) Approximate salt water depths: 1532'

9) Approximate coal seam depths: 648'-653'

10) Approximate void depths, (coal, Karst, other): N/A

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)  
( SEE ATTACHED SHEET )

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	10 3/4"	N/A	N/A	148	0	
Fresh Water	8 5/8"	N/A	N/A	1140	0	
Coal						
Intermediate	7"	K-55	20#	2194	2194	Existing
Production	5 1/2"	K-55	17#	2289	2289	Existing
Tubing	3 1/2"	J-55	9.2#	2274	2274	152 cu. ft (5% excess)
Liners						

Packers: Kind: Formation packer set inside of 5.5" casing and cement to surface

Sizes: 5.5" Packer set with pump out cement sleeve on top

Depths Set 2274'

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WV Department of  
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**Well AW230 (REC)  
API# 47-041-02755, U. F. Starcher  
FKLC Storage, Lewis County, WV  
2015 Rework Procedure**

**Purpose:**

The reason for this rework is to evaluate the annular gas buildup behind the casing patches in the 5-1/2" casing by sealing off the storage interval and perforating all of casing patches to allow flow testing and pressure analysis. This information will be used to determine if the well will be reworked or plugged and abandoned in 2012.

**Well Information:**

7" 20# casing set at 2194' in 1901 (no cement recorded)  
5-1/2" 17# K55 casing set at 2289' in 1943 (cement squeezed to surface from 1365')  
Casing patches on 5-1/2" casing at 2029-2049', 1935-1955', 1815-1835', 1602-1622', 1354'-1374', 840-870', 655-675', 485-505', 208-228' (installed 1996)  
Gantz OH completion 2488' to 2516' (shot w/ 30qts)  
Original TD 2840' plugged back from 2677' to 2536' with cement

**Procedure:**

1. Complete One Call and Pipeline Crossing Notification Process.
2. Remove existing lead line, install tapped blind flange over pipeline (Southern area support).
3. Prepare roads and location as needed to allow for service rig to access location per E&S Plan. Install all required E&S controls. Stockpile topsoil and seed and mulch pile. Excavate around well and install well cellar around wellhead and line with plastic or seal off bottom with cement.
4. Move in flow back tank and rig up flow iron to well. Record well test of Gantz (stabilized choke flow)
5. MIRU logging truck pull CCL/GR log. Determine best location and set mechanical bridge plug in 5-1/2" casing below bottom patch and blow well down to tank. Record initial well pressure prior to blowing down well.
6. Perforate each patch and record well pressures and flow after between perforating intervals.
7. Run production logs on the well to determine flow from each zone.
8. Load well with fluid treated with biocide and corrosion inhibitor and run bond log on 5-1/2 casing.
9. Notify State Oil and Gas Inspector of rig move. MIRU service rig, mud tank, and auxiliary equipment. Install 7-1/16" 2M+ BOP with and test to 2000psi.
10. Build mud system to desired weight based on field pressure.
11. Based on Bond Log results and any possible annular gas seen at surface during top joint change out prepare to cut window in 5-1/2" and 7" casing.
12. Clean out well to TD to 2,536'
13. Clean and inspect threads on 3-1/2" 10RD 9.2# J/K-55 tubing.
14. Pick up 5-1/2" packer and 3-1/2" pump out cement sleeve and 3-1/2" tubing and set at 2,274'
15. MIRU cementing unit. RU on 3-1/2" tubing. Circulate wellbore for 1 hour with mud taking returns through 2" outlets in casing head. Cement well to surface as follows: 10bbbls of mud flush, Cement –

06/05/2015

Class A 15.4 ppg. 10% excess inside casing if window is cut pump 15% extra. Displace with fresh water. Cement weight should be based on maximum differential pressure of packer. Secure well. WOC a minimum of 12 hrs.

16. Install 7-1/16" 2M x 3-1/8" 2M DSA ,3-1/8" 2M Master Gate Valve, 3-1/8" 2M x 3-1/8" 2M Studded Tee, and 3-1/8" 2M Blind Flange tapped 3-1/2" 8RD, 3-1/8" Side Gate Valve and 4-1/16" x 3-1/8" SSA
17. Bond Log 3-1/2".
18. Rig up 4-1/16" with 1502 integral flange and pressure up to pump out disc in cementing sleeve.
19. Rig up and swab well down until it kicks off, flow well until it cleans up.
20. RDMO service rig and haul fluid to disposal
21. MIRU logging truck and run casing inspection suite.
22. Reclaim site.

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Fink Storage  
AW-230 [REC]  
Permit #47-041-02755  
Elev = 1186'[GL]

Casing patches on the 5 1/2" casing @  
2029-2049', 1935-1955', 1815-1835', 1602-  
1622', 1354'-1374', 840-870', 655-675', 485-  
505', 208-228' - 1996

7" Csg @ 2194' [1901] No  
Cement Record.

5 1/2" 17# K55 Csg @ 2289' [1943]  
CTS from 1365'

Gantz  
2488'- 2516'

Shot with 30 qts

Cement plug from 2677-2536'

Current TD: 2536'  
Original TD: 2840'

Well Name & Number:		AW-230		Lease	U. F. Starcher		
County or Parish:		Lewis	State/Prov.	WV	Country:	USA	
Perforations: (MD)				(TVD)	2536'		
Angle/Perfs	Angle @KOP and Depth			Completion Fluid:		KOP TVD	
BHP:	BHT:						
FWHP:	FBHP:	FWHT:		FBHT:		Other:	
Date Completed:	11/29/01					RKB:	
Prepared By:	Jeff Renner		Last Revision Date:	08/20/13			

06/05/2015

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WW-9  
Rev. 5/10

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 041 - \_\_\_\_\_  
Operator's Well No. AW-230

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

FEB 25 2015

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

WV Department of  
Environmental Protection

Operator Name Dominion Transmission, Inc. OP Code 307048

Watershed Walnut Fork of Fink Creek Quadrangle Vadis, WV 7.5'

Elevation 1198.20' County Lewis District Freemans Creek

Description of anticipated Pit Waste: None - Tanks to be used in place of pit

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

Will a synthetic liner be used in the pit? N/A. If so, what mil.? N/A

ANY WELL EFFLUENT MUST BE  
CONTAINED IN TANKS AND  
DISPOSED OF PROPERLY.  
JMW

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 Meadowfill Landfill, Bridgeport, WV)

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. N/A

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

Additives to be used? Potassium Chloride and Gel

Will closed loop system be used? N/A

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

-If left in pit and plan to solidify what medium will be used? Cement, lime, sawdust N/A

-Landfill or offsite name/permit number? N/A

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 James D. Blasingame

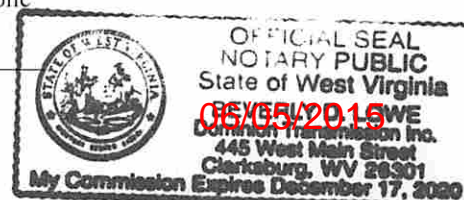
Company Official (Typed Name) James D. Blasingame

Company Official Title Director of Storage

Subscribed and sworn before me this 20th day of February, 2015

Beverly D. Lowe Notary Public

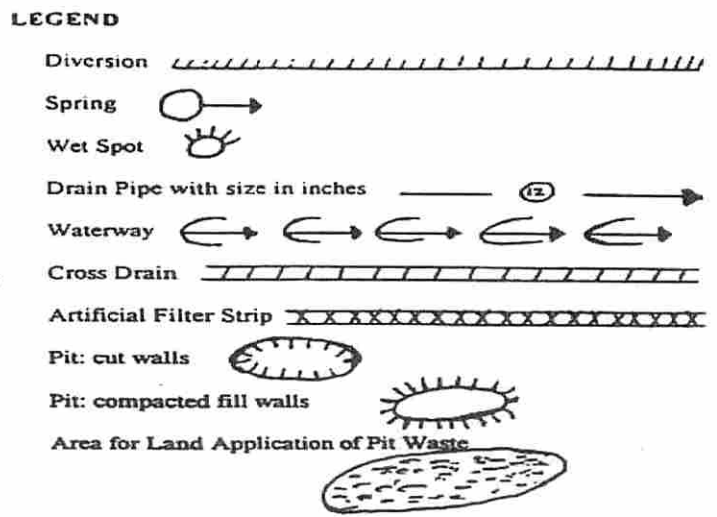
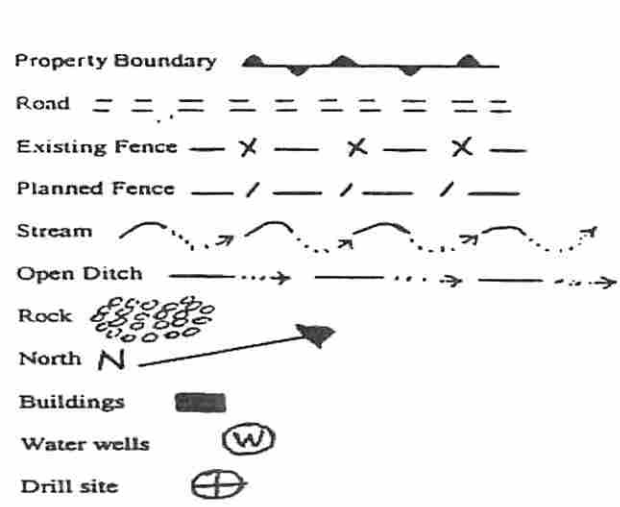
My commission expires December 17, 2020



4102755W

Form WW-9

Operator's Well No. AW-230



Proposed Revegetation Treatment: Acres Disturbed 1.00 +/- Prevegetation pH \_\_\_\_\_

Lime 3.0 Tons/acre or to correct to pH 6.5

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

Mulch Hay or Straw Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre
Timothy		3
Orchard Grass		12
White Clover		4

Seed Type	Area II	lbs/acre
Timothy		3
Orchard Grass		12
White Clover		4

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Environmental Protection

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Barry Stille


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

Title: inspector Date: 2-18-15

Field Reviewed? ( ) Yes ( X ) No

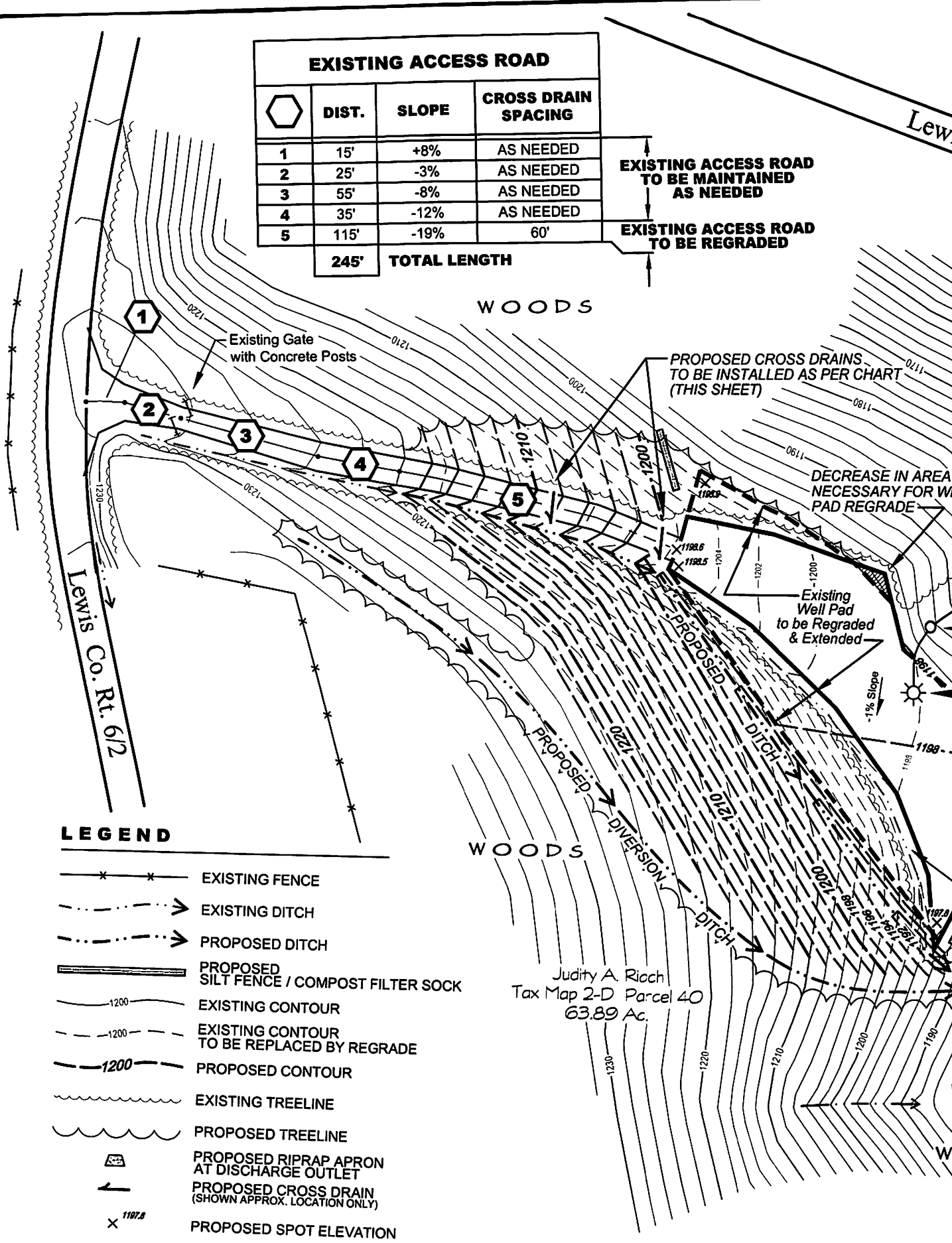
06/05/2015







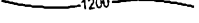
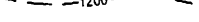






EXISTING ACCESS ROAD			
	DIST.	SLOPE	CROSS DRAIN SPACING
1	15'	+8%	AS NEEDED
2	25'	-3%	AS NEEDED
3	55'	-8%	AS NEEDED
4	35'	-12%	AS NEEDED
5	115'	-19%	60'
245'		TOTAL LENGTH	

EXISTING ACCESS ROAD TO BE MAINTAINED AS NEEDED

EXISTING ACCESS ROAD TO BE REGRADED



**LEGEND**

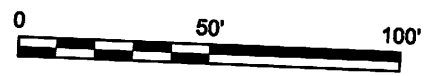
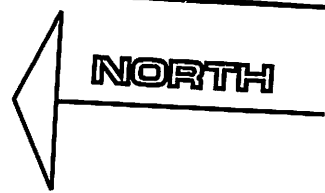
-  EXISTING FENCE
-  EXISTING DITCH
-  PROPOSED DITCH
-  PROPOSED SILT FENCE / COMPOST FILTER SOCK
-  EXISTING CONTOUR
-  EXISTING CONTOUR TO BE REPLACED BY REGRADE
-  PROPOSED CONTOUR
-  EXISTING TREELINE
-  PROPOSED TREELINE
-  PROPOSED RIPRAP APRON AT DISCHARGE OUTLET
-  PROPOSED CROSS DRAIN (SHOWN APPROX. LOCATION ONLY)
-  PROPOSED SPOT ELEVATION

Judith A. Ricch  
Tax Map 2-D Parcel 40  
63.89 Ac.

410275SW

**REFERENCE**

SURVEY HORIZONTAL DATUM WEST VIRGINIA STATE PLANE  
COORDINATES NAD 83 SOUTH ZONE. SURVEY VERTICAL  
DATUM NAVD 88 GEOID 03.



SCALE : 1" = 50'  
CONTOUR INTERVAL : 2 FEET

Co. Rt. 11/5

Walnut Fork

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FEB 25 2015

WV Department of  
Environmental Protection

**NOTES**

ACCESS TO THE WELL SITE IS TO BE GAINED USING AN EXISTING APPROACH OFF OF LEWIS CO. RT. 6/2. FROM THAT POINT, APPROXIMATELY 245' OF EXISTING ACCESS ROAD TO THE WELL PAD OF DOMINION WELL AW-230 IS TO BE UPGRADED AS NEEDED & UTILIZED, WITH THE LAST 115' OF THAT EXISTING ACCESS ROAD TO REGRADED AS SHOWN & NOTED.

DRAINAGE IS TO BE MAINTAINED. ROCK RIP-RAP APRON AND EITHER SILT FENCE OR COMPOST FILTER SOCK ARE TO BE PLACED AT ALL DRAINAGE OUTLETS.

TOPSOIL FROM ANY EXCAVATION IS TO BE STOCKPILED DURING CONSTRUCTION. WELL SITE IS TO BE RECLAIMED AFTER WELL WORK.

**Freemans Creek District  
Lewis County  
West Virginia**

**DOMINION TRANSMISSION, INC.**

**WELL #AW-230  
EROSION & SEDIMENTATION CONTROL  
WELL LOCATION & ACCESS ROAD**

Drawn by	SARC	4/13
Engineer	JRH	4/13
Checked by	RVS	4/13
		Date

Scale AS SHOWN

Prepared by **MSES consultants, inc.**

Sheet 1 of 1

06/05/2015



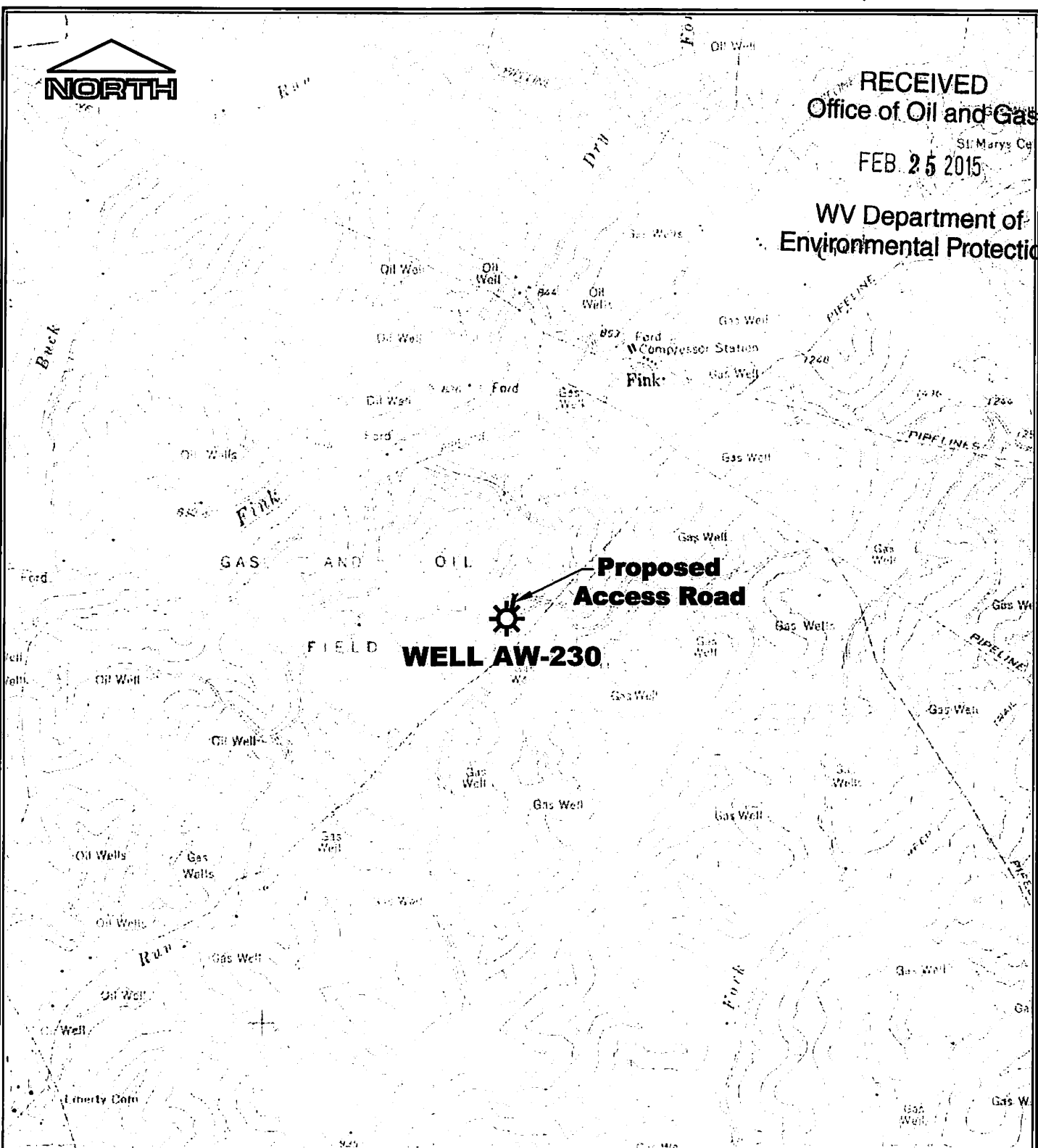
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St. Marys Co  
FEB 25 2015

WV Department of  
Environmental Protection

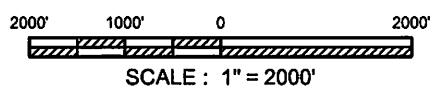


**WELL AW-230**

**Proposed  
Access Road**

**DOMINION TRANSMISSION, INC.**

**WELL AW-230  
LOCATION MAP**



**REFERENCE**  
U.S.G.S TOPOGRAPHIC MAP 7.5'  
VADIS, W.V. 1964 PHOTOREVISED 1976

Drawn by	KLA	7/13
Engineer	HDW	7/13
Checked by	RVS	7/13
		Date

Scale:  
AS SHOWN

Prepared by **MSES consultants, inc.**

1 of 1  
**06/05/2015**

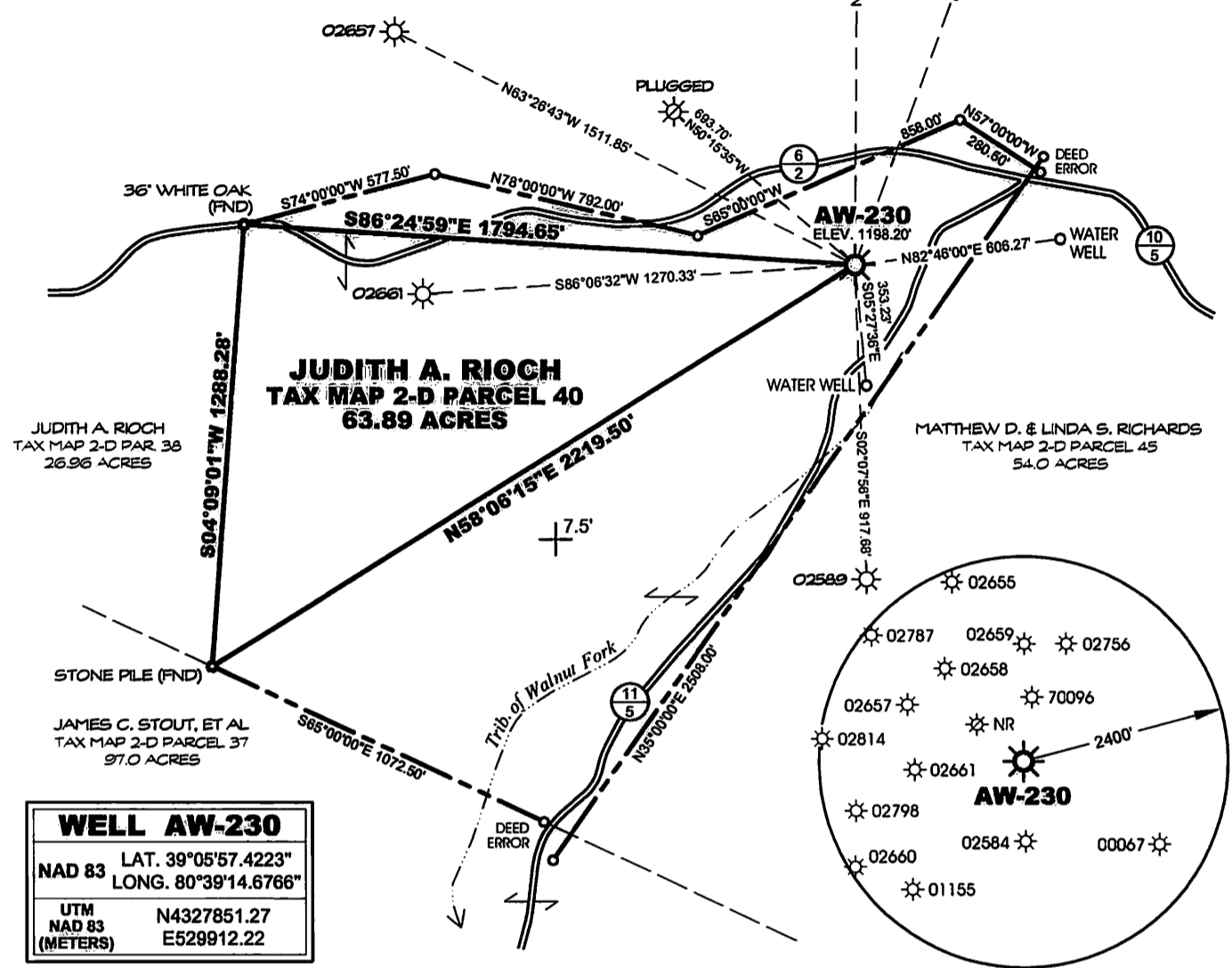
8,300' LATITUDE 39°07'30"

(+ ) DENOTES LOCATION OF WELL ON U.S.G.S. TOPOGRAPHIC MAP



LONGITUDE 80°37'30"

9,420'

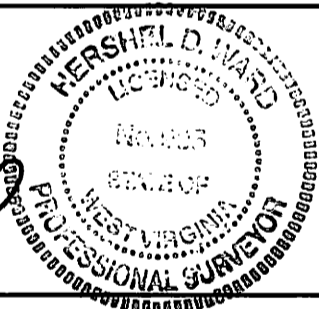


WELL AW-230	
NAD 83	LAT. 39°05'57.4223" LONG. 80°39'14.6766"
UTM NAD 83 (METERS)	N4327851.27 E529912.22

**MSES consultants, inc.**  
 FILE NO. 12-502-WellAW230-WellPlat  
 DRAWN BY HDW / MVS  
 SCALE 1" = 500'  
 MIN. DEGREE OF ACCURACY 1 IN 2500  
 PROVEN SOURCE OF ELEVATION:  
DGPS (SUBMETER MAPPING GRADE)

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) Hershel D. Ward  
 R.P.E. \_\_\_\_\_ P.S. 995



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



DATE JULY 24 20 13

OPERATOR'S WELL NO. AW-230

API WELL NO. \_\_\_\_\_

**47** **041** **02755 w**  
 STATE COUNTY PERMIT NO.

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

LOCATION: ELEVATION 1198.20' WATERSHED WALNUT FORK OF FINK CREEK  
 DISTRICT FREEMANS CREEK COUNTY LEWIS  
 QUADRANGLE VADIS, WV 7.5' NEAREST TOWN FINK

SURFACE OWNER JUDITH A. RIOCH ACREAGE 63.89  
 OIL & GAS ROYALTY OWNER U. E. STARCHER, ET AL LEASE ACREAGE 100.00

LEASE NO. FK079442

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

TARGET FORMATION GANTZ ESTIMATED DEPTH 2516'  
 WELL OPERATOR DOMINION TRANSMISSION, INC. DESIGNATED AGENT MR. JAMES D. BLASINGAME  
 ADDRESS 445 WEST MAIN STREET ADDRESS 445 WEST MAIN STREET  
CLARKSBURG, WV 26301 CLARKSBURG, WV 26301

COUNTY

PERMIT NO.

041

02755