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west virginia department of environmental protection

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

Jim Justice , Governor  
Austin Caperton , Cabinet Secretary  
www.dep.wv.gov

Wednesday, June 07, 2017  
WELL WORK PERMIT  
Vertical / Plugging

DOMINION TRANSMISSION, INC. (A)  
925 WHITE OAKS BOULEVARD

BRIDGEPORT, WV 26330

Re: Permit approval for 14329  
47-033-05162-00-00

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

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

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



James A. Martin  
Chief

Operator's Well Number: 14329  
Farm Name: MCDONALD, SHARON S.  
U.S. WELL NUMBER: 47-033-05162-00-00  
Vertical / Plugging  
Date Issued: 6/7/2017

Promoting a healthy environment.

06/09/2017

## 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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

1) Date 2/27, 2017  
2) Operator's  
Well No. 14329  
3) API Well No. 47-033 - 05162

3305162P

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 1,193' Watershed Two Lick Creek & West Fork River  
District Union County Harrison Quadrangle West Milford 7.5'

6) Well Operator Dominion Transmissions, Inc. 7) Designated Agent John M. Love  
Address 925 White Oaks Blvd. Address 925 White Oaks Blvd.  
Bridgeport, WV 26330 Bridgeport, WV 26330

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Sam Ward Name Baker Hughes  
Address P.O. Box 2327 Address 2228 Philippi Pike.  
Buckhannon, WV 26201 Clarksburg, WV 26301

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

RECEIVED  
Office of Oil & Gas  
MAY 01 2017

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

Work order approved by inspector [Signature] Date 3/10/2017

Plugging Procedure

API# 47-033-05162

DTI WELL# 14329Casing Strings

9 5/8" seat at 30' (Casing Pulled)

7" cemented back to surface

Will not pull?

4 1/2" squeeze off at 1400'

Cemented back to bottom 7" casing at 800'

Zones of Interest

Dunkard: 350' – 595' (oil @ 360' – 380'; 385' – 470')

Salt Sand: 1036' – 1103'

Maxon: 1316' – 1343' (gas @ 1320' – 1340')

Injun: 1499' – 1561' (gas @ 1545')

Weir: 1579' – 1630'

Freshwater – 100'

Saltwater – 950'

Received  
Office of Oil & Gas  
MAY 01 2017

- File for and receive all necessary regulatory agency authorizations.
- Upgrade well site. Install well cellar and site containment.
- Move in service rig and ancillary equip.
- Utilize appropriate well control equipment and diverters during plugging operations.
- TIH w/plugging string to : PBTD  $\approx$  1410'.
- Load well w/6% bentonite gel.
- Spot balanced Class A cement plug from : PBTD TO 1260'. (150' PLUG) (COVERS PERFORATIONS IN MAXON).
- 6% gel from : 1260' – 1150'.
- Spot balanced Class A cement plug from : 1150' TO 1000'. (COVERS SALT SAND.)
- TOH w/plugging string
- Pull free point on 4 1/2" casing (maximum pull required, based on casing weight = 32,000#)
- Cut and pull free 4 1/2" casing.  $\approx$  900'.
- IF CASING CUT OF 4 1/2" IS  $\approx$  900', THEN SET A CLASS A CEMENT PLUG FROM 950' TO 700', WHICH WILL COVER 7" CASING SHOE AND EXTEND 111' UP INTO 7" CASING OR BELOW 7" CASING SHOE.

DW  
3/10/2017

06/09/2017



3305162P

- If 4 ½' casing cut is above 7" casing shoe, then set a class A cement plug so that the top of the plug is 100' above the 4 1/2" casing cut and inside of the 7" casing.
- TOH w/plugging string.
- Add gel if necessary to 200'.
- Pull the 30' of 9 5/8" conductor casing that was sanded in, if possible.
- TIH w/plugging string to 200' and set a 200' class A cement plug to surface.
- Rig down and move out service rig equipment.
- Remove site containment and well cellar.
- Reclaim well site and install well monument in compliance with 22-6-24c.
- File WV DEP forms WR-34 and WR-38

OK gnm

06/09/2017

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas  
Well Operator's Report of Well Work

*[Handwritten signature]*

Farm Name: MCDONALD, SHARON S. Operator Well No. 14329

LOCATION: Elevation: 1193.71' Quadrangle: West Milford

District: Union County: Harrison  
Latitude: 2,320 Feet South of: 39 Deg. 10 Min. 00 Sec.  
Longitude: 10,735 Feet West of: 80 Deg. 25 Min. 00 Sec.

Company: Dominion Exploration & Production, Inc.

	Casing and Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>P.O. Box 1248</u> <u>Jane Lew, WV 26378</u>				
Agent: <u>Rodney J. Biggs</u>				
Inspector: <u>Tim Bennett</u>				
Date Permit Issued: <u>2/3/2009</u>				
Date Well Work Commenced: <u>4/1/2009</u>	<u>9 5/8"</u>	<u>30'</u>	<u>30'</u>	<u>Sand In</u>
Date Well Work Completed: <u>4/8/2009</u>				
Verbal Plugging:	<u>7"</u>	<u>811'</u>	<u>811'</u>	<u>130 sks</u>
Date Permission granted on:				
Rotary X Cable Rig	<u>4 1/2"</u>	<u>1453'</u>	<u>1453'</u>	<u>'75 sks</u>
Total Depth (feet): <u>1,640'</u>				
Fresh Water Depth (ft.): <u>X 1470'</u>				
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)?: <u>No</u>				
Coal Depths (ft.): <u>N/A</u>				
Oil Depths (ft.): <u>N/A</u>				

**OPEN FLOW DATA**

Producing formation MAXTON Pay zone depth (ft) 1218'-1338'  
 Gas: Initial open flow odor MCF/d Oil: Initial open flow 0 Bbl/d  
 Final open flow 12 MCF/d Final open flow 0 Bbl/d  
 Time of open flow between initial and final tests 12 Hours  
 Static rock Pressure 4 psig (surface pressure) after 12 Hours

RECEIVED  
Office of Oil & Gas  
MAY 01 2009

Second Producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
 Gas: Initial open flow \* MCF/d Oil: Initial open flow \* Bbl/d  
 Final open flow \* MCF/d Final open flow \* Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock Pressure \* psig (surface pressure) after \_\_\_\_\_ Hours

RECEIVED  
Office of Oil & Gas  
JUN 17 2009

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: [Signature]  
 By: Rodney J. Biggs  
 Date: 6/11/09

3305162P

LOG AND PERFERD AS FOLLOWS:

MAXTON, 1318'-1338', 40 HOLES, BD 3647#, AVG RATE 36 BPM, AVG PRESS 2068#,  
540 BBLs, TOT SAND 33,000#, 48 MSCFN2, ISIP 970#, FG 1.16

Fill	0	15
Shale	15	140
RedRock	140	170
Shale	170	300
Sand	300	310
Shale	310	440
Sand	440	470
Shale	470	585
Sand	585	595
Shale	595	710
Sand	710	1010
Shale	1010	

<b>GAMMA RAY/ FORMATION</b>			
DEPI #14329	<b>TOPS</b>		47-033-05162
	<b>TOP</b>	<b>BASE</b>	
THIRD SALT SAND	1038	1103	
UPPER MAXTON	1184	1178	
LOWER MAXTON	1316	1343	
BIG LIME	1376	1484	
KEENER SAND	1456	1488	
BIG INJUN SAND	1499	1581	
WEIR SAND	1579	TD	
LTD	1640		

3300455 T

NEAREST STORAGE WELL TO 3305162 P

Form OG-10



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

Rotary  Spudder  Cable Tools  Storage

Quadrangle VADIS

Permit No. HAR-155-RED

WELL RECORD

Oil or Gas Well Storage (KIND)

Company Consolidated Gas Supply Corporation
Address Clarksburg, W. Va.
Farm Mary S. Deison Acres 50
Location (waters)
Well No. 11161 Elev. 1002'
District Grant County Harrison
The surface of tract is owned in fee by
Mineral rights are owned by
Drilling commenced 6-11-67
Drilling completed 8-9-67
Date Shot Not shot From To
With

Table with columns: Casing and Tubing, Used in Drilling, Left in Well, Packers. Rows include sizes 16, 13, 10, 8 1/4, 6 3/4, 5 3/16, 4 1/2, 3, 2 and packer details.

Open Flow 1/10ths Water in Inch
1/10ths Merc. in Inch
Volume 113 M Cu. Ft.
Rock Pressure 765# lbs 16 hrs.
Oil None bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) No
WELL FRACTURED (DETAILS) No

Attach copy of cementing record. 10" with 46 bags
CASING CEMENTED SIZE No. Ft. Date
Amount of cement used (bags) 42" with 650 bags
Name of Service Co. HALLIBURTON
COAL WAS ENCOUNTERED AT None FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open flow or bbls.)
ROCK PRESSURE AFTER TREATMENT HOURS
Fresh Water None Feet Salt Water Feet
Producing Sand Storage observation Gantz Depth See log

Table with columns: Formation, Color, Hard or Soft, Top, Bottom, Oil, Gas or Water, Depth, Remarks. Lists formations like 1st Salt Sand, 2nd Salt Sand, etc., with depths and gas observations.

TOTAL DEPTH REDRILLED 1720'
Cemented solid back to 1579' Present total depth



Consolidated Gas Supply Corporation
115 West Main Street
Clarksburg, W. Va.



STORAGE FIELD  
GANTZ FORMATION



06/09/2017



FORM G-8

AFFIDAVIT IN TRIPLICATE TO TIME AND MANNER OF PLUGGING AND FILLING WELL

(REQUIRED BY SECTION 9, ARTICLE 4, CHAPTER 22 OF THE CODE)

WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

Well does not penetrate coal
COAL OPERATOR OR OWNER
ADDRESS
COAL OPERATOR OR OWNER

Hope Natural Gas Company
NAME OF WELL OPERATOR
Clarksburg, W. Va.
COMPLETE ADDRESS
May 15, 19 38
WELL AND LOCATION

Surface;
ADDRESS
Martha Deacon, Clarksburg, W. Va.
LEASE OR PROPERTY OWNER
ADDRESS

Grant District
Harrison County
Well No. 4461
Mary S. Deacon 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
SS:

Mamuel L. Aman and William E. Wallace
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 Hope Natural Gas Co., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 24 day of February, 19 38, and that the well was plugged and filled in the following manner:

Manner in which sand was plugged: Total depth 2022- Clay to 2022- and set Cement plug- Clay to 1995- and drove Lead Plug- 2 Bags cement on Plug- Clay to 1775- and set Cement Plug- Clay to 1650 and Set Cement plug- Bridged and set Lead Plug at 1275- Ran cement plug, fished out casing to 1117- shot Maxon sand, increasing flow from Maxons sand to make well commercially profitable, and are keeping well.

Manner in which coal was plugged:
No coal.

Description of monument:
Keeping well-

(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 13 day of May, 19 38



Sworn to and subscribed before me this 28 day of May, 19 38
Robert M. Albman
Notary Public.

Har-473

WEST VIRGINIA DEPARTMENT OF MINES  
OIL AND GAS DIVISION  
WELL RECORD

Permit No. \_\_\_\_\_ Oil or Gas Well Gas  
(Kind)

Company Hops Natural Gas Company  
 Address Clarksburg, W. Va.  
 Farm Mary S. DeLeon Acres 50  
 Location (water) West Fork River  
 Well No. 4461 Elev. 1001  
 District Grant County Harrison  
 The surface of tract is owned in fee by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Mineral rights are owned by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Drilling commenced January 1, 1917  
 Drilling completed February 21, 1917  
 Date shot 2-22-1917 Depth of shot 2044-2058  
 Open Flow 1/100's Water in \_\_\_\_\_ Inch  
 \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
 Volume \_\_\_\_\_ Cu. Ft.  
 Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil \_\_\_\_\_ bbls. 1st 24 hrs.  
 Fresh water None recorded feet \_\_\_\_\_ feet  
 Salt water 1680 feet \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13	39.4	39.4	
10			Size of
8 1/4	910	910	
6 5/8	1265	1265	Depth set
5 3/16	1765	1765	
3			Perf. top
2	2060	Pulled	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. FT. \_\_\_\_\_ Date \_\_\_\_\_  
 Not cemented \_\_\_\_\_  
 COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 FEET No coal INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth Found	Remarks
Little Dunkard Sand			225	255			
Big Dunkard Sand			300	340			
Gas Sand			480	540			
First Salt Sand			600	660			
Second Salt Sand			700	890	910' - 1/4"		
Maxon Sand			1090	1147	Gas	1093	
Little Lime			1150	1160			
Pencil Cave			1160	1170			
Big Lime			1200	1260	1265' - 1/4"		
Big Injun Sand			1260	1365			
Squaw Sand			1400	1450			
Berea Sand			1500	1510			
Gantz Sand			1600	1620			
Fifty Foot Sand			1670	1705	1765' - 5 3/16"	1680	
Thirty Foot Sand			1779	1799	Gas	1760	
Gordon Stray Sand			1880	1890			
Gordon Sand			1910	1930			
Fourth Sand			1990	2000			
Fifth Sand			2042	2059	Gas	2044-2058	
Total Depth-----			2097				



(Over)



3305162 P

WW-4A  
Revised 6-07

1) Date: 2/27/17  
2) Operator's Well Number  
14329  
3) API Well No.: 47 - 033 - 05162

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Sharon S. McDonald</u>	Name <u>N/A (No Activity)</u>
Address <u>P.O. Box 204</u> <u>Lost Creek, WV 26385</u>	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>None</u>
(c) Name _____	Address _____
Address _____	Name _____
Address _____	Address _____
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 2327</u>	Name <u>None</u>
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>304-389-7583</u>	Address _____

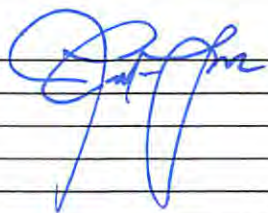
**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents **received**  
**Office of Oil & Gas**  
**MAY 01 2017.**

(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 Transmissions, Inc.

By: John Love 

Its: Designated Agent

Address 925 White Oaks Blvd.  
Bridgeport, WV 26330

Telephone 681-842-3311

Subscribed and sworn before me this 17th day of April, 2017  
Brenda M. Johnson Notary Public  
My Commission Expires March 31, 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).

06/09/2017



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

Operator Name Dominion Transmissions, Inc. OP Code 307048

Watershed (HUC 10) Two Lick Creek & West Fork River Quadrangle West Milford 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: N/A

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Fluids will be held in an AST and removed from the site.)

ANY WELL EFFLUENT  
WILL BE DISPOSED  
OF OFF-SITE, PROPERLY.  
JML

Will closed loop system be used? If so, describe: N/A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. No Drilling, P & A

-If oil based, what type? Synthetic, petroleum, etc. No Fluids Will Be Used

Additives to be used in drilling medium? 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

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

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

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

Company Official Signature [Signature]

Company Official (Typed Name) John M. Love

Company Official Title Designated Agent

Subscribed and sworn before me this 17<sup>th</sup> day of April, 2017

Brenda M. Johnson Notary Public

My commission expires March 31, 2020



**LEGEND**

- Property Boundary
- Road
- Existing Fence
- Planned Fence
- Stream
- Open Ditch
- Rock
- North
- Buildings
- Water wells
- Drill site

- Diversion
- Spring
- Wet Spot
- Drain Pipe with size in inches
- Waterway
- Cross Drain
- Artificial Filter Strip
- Pit: cut walls
- Pit: compacted fill walls
- Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed 1 +/- acre Prevegetation pH 6.5

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 1/3 TON lbs/acre (500 lbs minimum)

Mulch HAY 2 Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Seed Type	Area II lbs/acre
KY-31	40	ORCHARD GRASS	15
ALSIKE CLOVER	5	ALSIKE CLOVER	5
ANNUAL RYE	15		

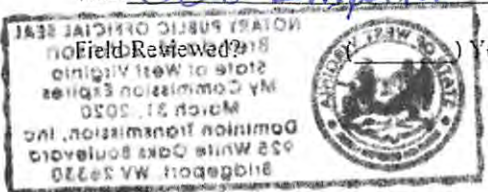
Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: S. D. [Signature]

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

Title: COG Inspector Date: 3/10/2017



Field Reviewed?  Yes  No

**LEGEND**

- Property Boundary
- Road
- Existing Fence
- Planned Fence
- Stream
- Open Ditch
- Rock
- North
- Buildings
- Water wells
- Drill site

- Diversion
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- Artificial Filter Strip
- Pit: cut walls
- Pit: compacted fill walls
- Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed 1 +/- acre Prevegetation pH 6.5

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 1/3 TON lbs/acre (500 lbs minimum)

Mulch HAY 2 Tons/acre

**Seed Mixtures**

Seed Type	Area I	lbs/acre	Seed Type	Area II	lbs/acre
KY-31		40	ORCHARD GRASS		15
ALSIKE CLOVER		5	ALSIKE CLOVER		5
ANNUAL RYE		15			

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

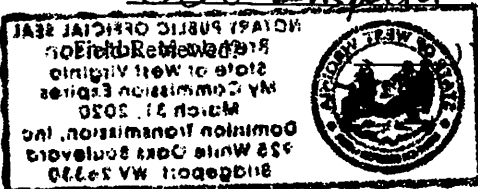
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: S. D. [Signature]

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

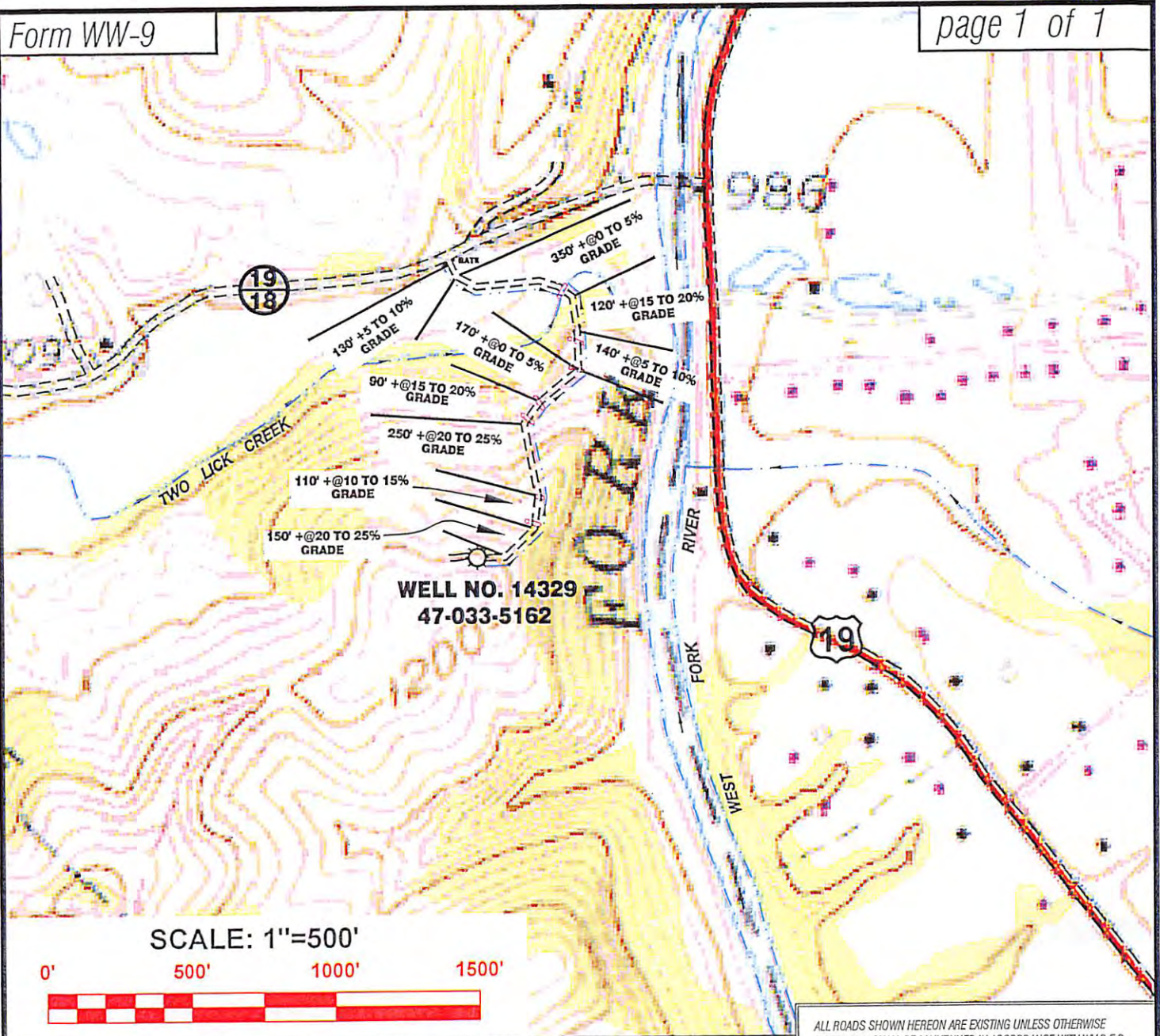
Title: COB Inspector

Date: 3/10/2017



Yes  No

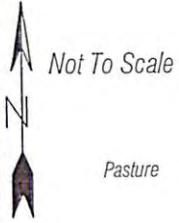
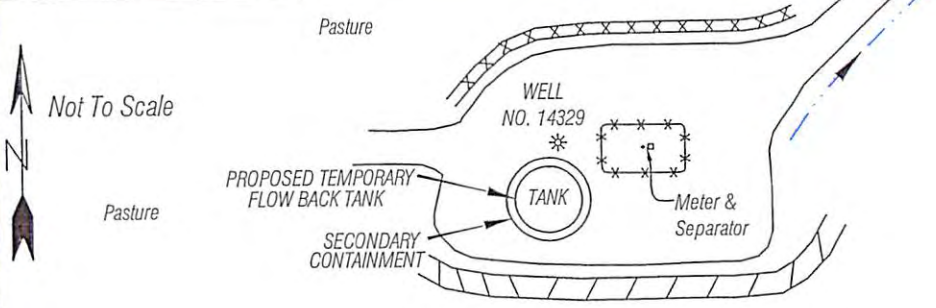




SCALE: 1"=500'



Detail Sketch for 47-033-5162



ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

SEDIMENT BASINS (TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

- = EXISTING CULVERT
- = PROPOSED CULVERT 15' MIN. UNLESS OTHERWISE NOTED
- = PROPOSED STREAM CROSSING
- = APPROXIMATE LIMITS OF DISTURBANCE

TOPO SECTION OF WEST MILFORD  
7.5' TOPO QUADRANGLE

DRAWN BY M.G.F.	FILE NO. 8642	DATE 02-14-17	CADD FILE: 8642REC.dwg
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# M. G. LAW LEASE 183 ACRES± WELL NO. 14329

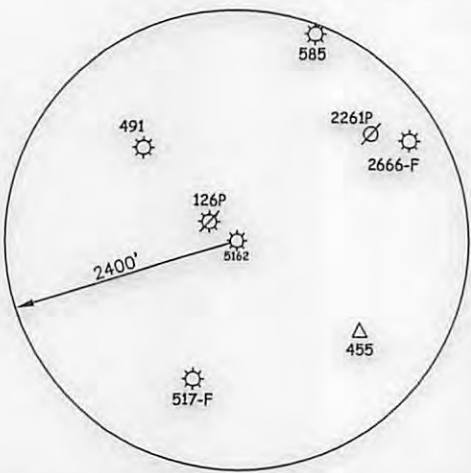


### DOMINION TRANSMISSION, INC. WELL NO. 14329

47-033-5162

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'27 S.P.C.(FT) N. 241,821 E. 1,729,340  
 NAD'27 GEO. LAT=(N) 39.15999 LONG=(W) 80.45451  
 NAD'83 UTM (M) N. 4,334,683 E. 547,145



### LEGEND

LEASE LINE	---
SURFACE LINE	----
TIE LINE	=====
CREEK	~ ~ ~ ~
ROAD	==>==>==>
FENCE LINE	-x-x-x-x-
COUNTY ROUTE	○
STATE ROUTE	□
PROPOSED WELL	⊙
EXISTING WELL	⊛
PLUGGED WELL	⊛

**SLS**  
Land & Energy Development  
Solutions from the ground up.  
P.O. Box 1504 12 Vanhon Drive # Glenville, WV 26351 # (304) 462-5634  
www.slsurveys.com

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.

P.S. 849 *C. Victor Moyers*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE FEBRUARY 14, 20 17  
 REVISED \_\_\_\_\_, 20 \_\_\_\_\_  
 OPERATORS WELL NO. 14329  
 API WELL NO. 47-033-05162P  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8642PW14329 (586-19)  
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SUBFOOT MAPPING GRADE) TIE TO CORS NETWORK SCALE 1" = 400'

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

WELL TYPE: OIL \_\_\_\_\_ GAS X LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_ IF "GAS" PRODUCTION X STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW X

LOCATION:  
 ELEVATION 1,193' WATERSHED TWO LICK CREEK & WEST FORK RIVER  
 DISTRICT UNION COUNTY HARRISON QUADRANGLE WEST MILFORD 7.5'

SURFACE OWNER SHARON S. McDONALD ACREAGE 190.31±  
 ROYALTY OWNER M. G. LAW HEIRS /OR ASSIGNS ACREAGE 183± LEASE NO. 27184

PROPOSED WORK:  
 DRILL \_\_\_\_\_ CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ PLUG AND ABANDON X CLEAN OUT AND REPLUG \_\_\_\_\_ OTHER \_\_\_\_\_  
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION MAXTON SAND  
 ESTIMATED DEPTH 1,640'

WELL OPERATOR DOMINION TRANSMISSION INC. DESIGNATED AGENT JOHN M. LOVE  
 ADDRESS 925 WHITE OAKS BOULEVARD ADDRESS 925 WHITE OAKS BOULEVARD  
BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330

USER: mfrone  
 LAYOUT: Model  
 CAD FILE: R:\Data\CADD\WORK\8600-8699\8642\Survey\8642PW\_14329 (586-19).dwg