

west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Friday, August 23, 2019 WELL WORK PERMIT Vertical / Re-Work

DOMINION ENERGY TRANSMISSION, INC. 925 WHITE OAKS BOULEVARD

BRIDGEPORT, WV 26330

Re:

Permit approval for 3365 47-041-02593-00-00

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: 3365

Farm Name: FAHEY HEIRS

U.S. WELL NUMBER: 47-041-02593-00-00

Vertical Re-Work

Date Issued: 8/23/2019

Promoting a healthy environment.



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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

CONDITIONS

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

Environmental Protection

WW - 2B (Rev. 8/10)

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

1) Well Operato	r: Domin	ion Energ	y Transmission, Inc	307048	Lewis	Freemans Creek	Camden
				_ Operator ID	County	District	Quadrangle
2) Operator's W	/ell Numb	er: <u>AW-3</u>	365		3) Elevation: _	1050	
4) Well Type: (a	a) Oil	or Ga	s <u>X</u>				
d)) If Gas:	Produ	ction / Unde	erground Sto	rage X		
		Deep	o/ Sh	nallow X			
5) Proposed Ta6) Proposed To7) Approximate8) Approximate	tal Depth fresh wa	: <u>^{2289'}</u> ter strata		ormation at F	Proposed Targ Proposed Tota	get Depth: <u>2</u> Il Depth: ^{Gant}	055' z
9) Approximate	coal sea	m depths	s: <u>648'-653'</u>	1	10-11-11-11-11-11-11-11-11-11-11-11-11-1		
10) Approximat	e void de	pths,(coa	al, Karst, other): _	N/A			
11) Does land o	contain co	al seam	s tributary to activ	ve mine? N	0		
			nd fracturing metho			* Table 12 (1972)	
			ILL RUD NB				
CAMENIES	70	SULFAC	LE TO RE	STORE I	> CHITES	icité 10	INJEC!
13)		CA	SING AND TUB	ING PROGR	AM		
TYPE S	PECIFIC	ATIONS		FOOTAGE	INTERVALS	CEMEN	<u>NT</u>
	<u>Size</u>	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu.	<u>Ft.)</u>
Conductor							
Fresh Water	10 3/4"	N/A	N/A		180'	N/A	
Coal	8 5/8"	N/A	N/A		1065'	N/A	
Intermediate	7''	N/A	N/A		1965	CTS	
Production	5 1/2"	K-55	17 #/ft		2071'	CTS	
Tubing	31/2"	J-55	9.2 #/ft		2055'	135 Cu.	Ft. ets.
Liners						REC	CEIVED Oil and Gas
Packers: Kind Size							0 8 2019
	s. ths Set					JUL	

AW-3365 Well Work Plan

*Prior to permit work a cement bond log will be run for data gathering purposes.

- Address location as necessary and install site containment.
- MI service rig and ancillary equipment.
- NU well control stack.
- Based on results of the bond log the following sequences may occur
 - A)Attempt to squeeze the 5.5" casing
 - B) and/or cut a window in the 5.5" casing as near the bottom of the 5.5" as practical.

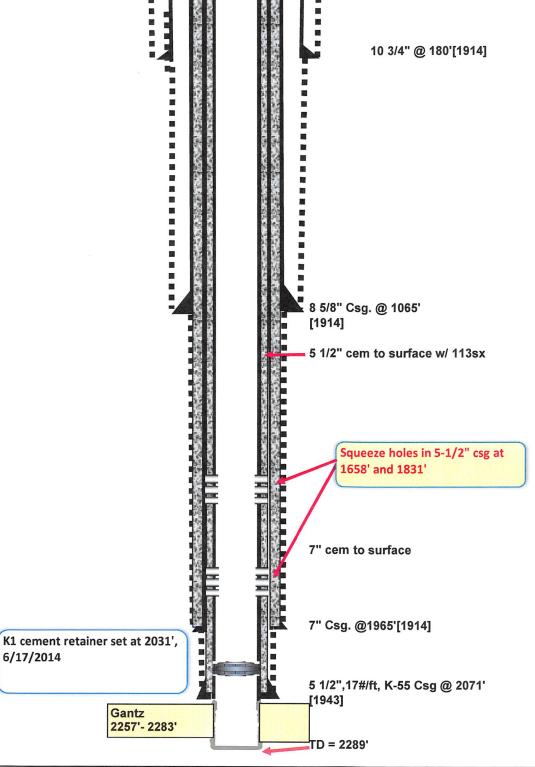
- Process will be necessary and the well work will proceed as follows.
 - Pick up roller cone. Clean hole and condition mud.
 - Drill out K1 cement plug.
 - Attempt to clean out to original TD of 2289'.
 - Run 3.5" to 2,055'. WILL CEMENT TO SURFACE
 - Design to cement with class A blends. WOC a minimum of 8 hours.
 - RD MO service rig and ancillary equipment.
 - Bond log the 3.5" tubing.
 - MI RU coil tubing and ancillary equipment.
 - Drill out the float equipment.
 - Clean out well to TD.
 - Acidize across the storage horizon.
 - Flow well clean.
 - RD MO coil equipment.
 - Surveillance log 3.5" tubing.
 - Reclaim location.

RECEIVED

■ File necessary forms with regulatory agencies. Obtain permit release with regulatory agencies. WVDEP office of oil and gas. JUL 08 2019

> WV Department of Environmental Protection

Fink Storage AW-3365 [I/W] Permit #47-041-02593 Elev = 1050'[GL]



RECEIVED
Office of Oil and Gas

JUL 08 2019

WV Department of Environmental Protection

Well Name	& Number:		AW-3365		Lease		Fahey	/ Heirs	
County of	or Parish:	Lev	vis	State/Prov.	W	IV	Country:	U	SA
Perforation	ons: (MD)				(TVD)		22	89'	
Angle/Perfs		Angle @KOP	and Depth				KOP TVD		
BHP:		внт:		Completio	n Fluid:				
FWHP:		FBHP:		FWHT:		FBHT:		Other:	
Date Co	mpleted:	05/05/14						RKB:	
Prepar	red By:		Mark Jenkin	s	Last Revi	sion Date:	07/15/14	14.35	

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SWVGES O&G Record Reporting System

Select County: [041] Lewis Select datatypes: [O2593 Solect d 7 / Geological & Economic Survey: Location

Owner/Completion

Pay/Show/Water Select datatypes: (Check All)

> Plugging
> Sample
> Btm Hole Loc County Code Translations
> Permit-Numbering Series
> Usage Notes
> Contact Information Disclaimer WVGES Main "Pipeline-Plus" New

Production
Stratigraphy
Logs

Well: County = 41 Permit = 02593

Report Time: Wednesday, July 31, 2019 1:43:15 PM

Location Information: View Map Location Information: View Map Location Information: View Map Country PERMIT TAX DISTRICT OUAD 75 OUAD 15 LAT DD LON DD UTNE UTNN 4704102593 Lewis 2593 Freemans Creek Vadis Vadis 39.107397 80.626309 532309.7 4328761.1

There is no Bottom Hole Location data for this well

API CMP_DT SUFFIX 4704102593 -/-/- Original Loc STATUS SURFACE_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR
Completed Fahey His 3365

API 4704102593

DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE

Inclassified unclassified not available CMP_MTHD TVD TWD NEW FTG KOD G_BEF G_AFT O_BEF O_AFT NGL_BEF NGL_AFT P_BEF TL_BEF P_AFT TL_AFT BH_P_BEF BH_P_AFT G_MSRD_B unknown 2290 2290 0 0 0 0 0 0 0 0

RIG e unknown

There is no Pay data for this well

There is no Production Gas data for this well

There is no Production Oil data for this well ** some operators may have reported NGL under Oil

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

API SUPFIX FM FM QUALITY
4704102593 Original Loc Allegheny ss (undit) CBN: Cmill Hote
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1050 Ground Level
1050 Ground Level
1050 Ground Level

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if Wireline (E-Log) Information:

API LOG_TOP LOG_BOT DEEPEST_FML LOGS_AVAIL SCAN DIGITIZED GR_TOP GR_BOT D_TOP D_BOT N_TOP N_BOT L_TOP T_BOT T_TOP T_BOT S_TOP S_BOT O_TOP O_BOT INCHZ INCHS REDUCED KOP LOGMD ELEV_KB ELEV_GL ELEV_DF LOG_MSRD_FROM:
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Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

using a 56k or slower dialup connection

geologic log types:

d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)

e photoelectric adsorption (PE or Pe, etc.)

g gamma ray

gamma ray induction (includes dual induction, medium induction, deep induction, etc.)

neutron (includes neutron porosity, sidewall neutron--SWN, etc.

sonic or velocity

t temperature (includes borehole temperature, BHT, differential temperature, etc.) z spontaneous potential or potential mechanical log types:

b cement bond

o other¹
p perforation depth control or perforate

other logs may include, but are not limited to, such curves as audio, bit size, CCL-casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL-Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

WW-	2A
(Rev.	6-14)

1). Date: <u>5/29/2019</u>

2.) Operator's Well Number

AW-3365

State

County

Permit

3.) API Well No.:

47-

Lewis - 02593

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

			-		
4)			5) (a) Coal Ope	erator	
		John T. Fahev, et al	_ Name		
	Address	3006 Fallen Oak RD	Address		
		Morgantown, WV 26508	_		
	(b) Name		(b) Coal Ov	vner(s) with De	eclaration
	Address		_ Name	TJ Fahev H	eirs /
			Address	C/O John T.	Fahev
				3006 Fallen	Oak Rd
	(c) Name		Name	Morgantowr	n. WV 26508
	Address		Address		
6)	Inspector	Barry Stollings	(c) Coal Le	ssee with Decl	aration
,	Address	28 Conifer Drive	Name		
		Bridgeport, WV 26330	Address		
	Telephone	304-552-4194	_		
		TO THE PERSONS NAM	TED ABOVE TA	KE NOTICE 1	THAT:
	Included is the	e lease or leases or other continuing	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE		
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<		e information required by Chapter 22,	Article 6, Section	8(d) of the Cod	le of West Virginia (see page 2)
		at as required under Chapter 22-6 o			
ар	plication, a loca	tion plat, and accompanying docume		gh on the a	bove named parties by:
		Personal Service (Affidavit attack			
	<u>X</u>	Certified Mail (Postmarked posta		d)	
		Publication (Notice of Publication			
:		d and understand Chapter 22-6 and	35 CSR 4, and I	agree to the te	erms and conditions of any permit
ISS	sued under this	application. nder penalty of law that I have perso	nally examined a	and am familiar	with the information submitted on
thi		rm and all attachments, and that bas			
		mation, I believe that the information			audio in in our district y respenses to the
		e that there are significant penalties			ncluding the possibility of fine and
im	prisonment.				
			Dominion Ene		ssion. Inc
			John M. Love		Can Cont
			Designated A		
		Address:	925 White Oa		
		Talanhana	Bridgeport, W	V 26330	
			304-203-5830		onorgy com
Su	hecribed and ev	worn before me this 31 st cinali.	Jeffrev.L.Seav	/v(@dominion	Dominion Energy Fransisia
Ju		day of	11103	2017	Brenda M. Johnson
-	1 Immola	m Delas =		Notary	Notary Public
Μv	/ Commission E	expires macch 31 20	20		State of West Virginia
	and Gas Privacy N				ige of Oil TE OARS BOULEVARD
					BRIDGEPORT, WV 26330
The	Office of Oil and	Gas processes your personal information,	such as name, addre	ess and phone num	iber, 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 of 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 of fice at ment of depprivacy officer@wv.gov

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
Thomas Fahey, et al	Hope Natural Gas Company	1/16	167/152
Hope Natural Gas Company changed its name	to Consolidated Gas Supply Corporation	On January 1, 1984	Consolidated Gas
Supply Corporation assigned its leashold	interest to Consolidated Gas Transmission	Corporation. On	January 1, 1998
Consolidated Gas Transmission Corporation	became CNG Transmission Corporation, As a	result of a merger	with Dominion.
Resources, Inc., CNG Transmission	Corporation changed its name to Dominion	Transmission, Inc.,	on May, 2000.
Dominion Transmission, Inc., changed	its name to Dominion Energy Transmission	Transmission, Inc.,	On May 12, 2017

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 he reby a cknowledges 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 ac quired from the appr opriate aut hority before the affected_activity is initiated.

Well Operator:

By:Its:

Dominion Energy Transmission, Inc

John M. Love

Office of Oil and Gas

my

Director, Storage and Land Services

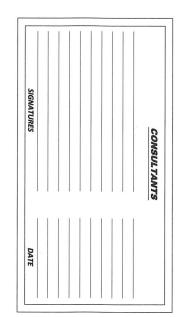
JUL 08 2019

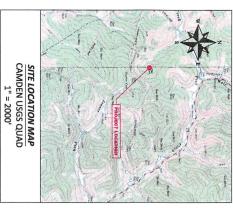
WV Department of Environmental Protection



BAP - 857 MANAGEMENT PACTICES
GS - COMPOST FILTS SOCK
ES - EROSONS SEMPRIATION
E - RECEING
LAY - LATTILDE
LOW - LONGITUDE
CULVO- PROPOSED
PROP - PROPOSED
RCE - ROCK CONSTRUCTION ENTRANC

EXISTING GAS METER







DS-1
ES-1
TS-1

THIS DRAWING IS FOR THE EROSION & SEDIMENTATION CONTROL PLAN/PERMIT ONLY.

AW-3365 WELL P&A PROJECT NUMBER: DOM.AW3365
PROJECT DATE: 6-28-2019
PROJECT SCALE: NTS
DRAWN BY: EDE
CHECKED BY: JAA DATE: N FREEMANS CREEK DISTRICT LEWIS COUNTY, WEST VIRGINIA DOMINION ENERGY TRANSMISSION, INC.



EROSION & SEDIMENTATION CONTROL PLAN

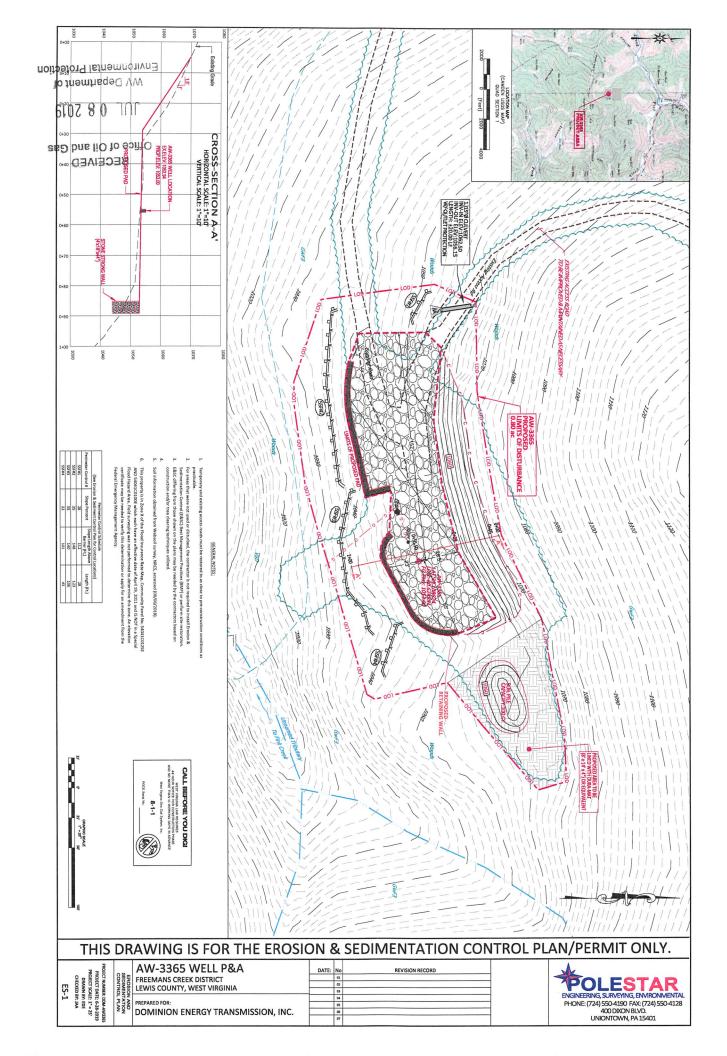
AW-3365 WELL

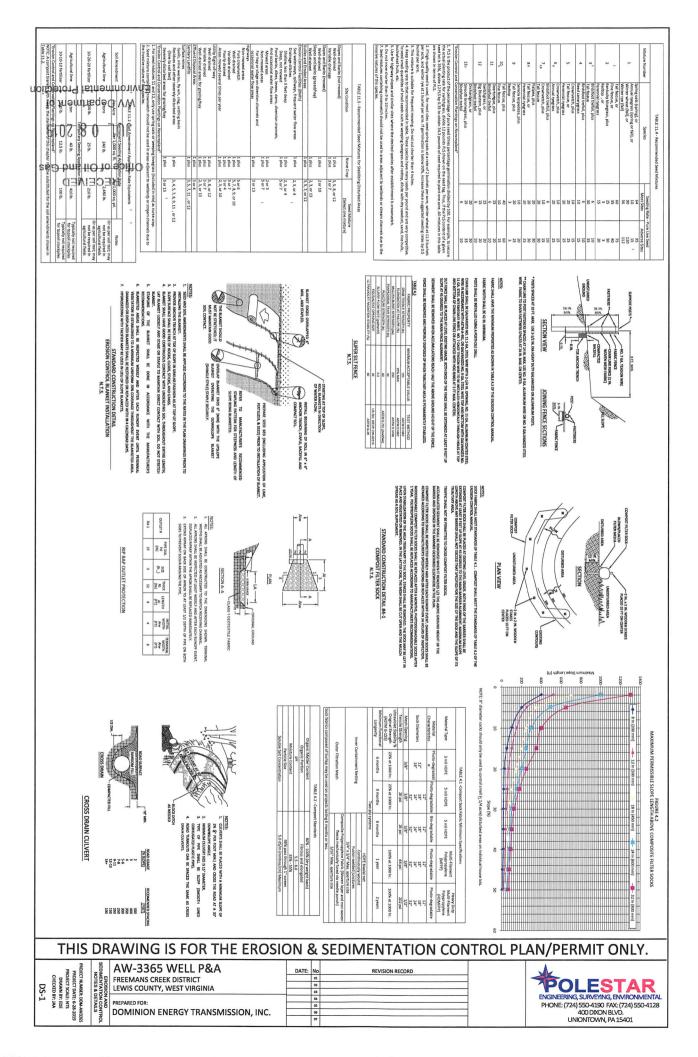
FREEMANS CREEK DISTRICT, LEWIS COUNTY, WEST VIRGINIA

PREPARED FOR:

DOMINION ENERGY TRANSMISSION, INC.

BRIDGEPORT, WV 26330 925 WHITE OAKS BLVD.





WW-9 (5/16)

API Number 47 -	041	02593
Operator's Well No	. AW-3365	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN	
Operator Name_Dominion Energy Transmission, Inc OP Code 307048	
Watershed (HUC 10) Leading Creek Quadrangle Camden	
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	
Will closed loop systembe used? If so, describe: Yes, above ground steel pits and dumpster receptacles.	_
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Water based	_
-If oil based, what type? Synthetic, petroleum, etc	_
Additives to be used in drilling medium? Sodium/Potassium Chloride, Xanthan gum, Sodium Bicarbonate, Caustic Soda, Biocide	_
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)	_
-Landfill or offsite name/permit number? Waste Management. Clarksburg, WV	=
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at ar West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclos where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT is on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable 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 of 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 penaltic submitting false information, including the possibility of fine or imprisonment. RECEI Company Official Signature Office of Oil	nat the le law n this aining ies for
Company Official Title Director, Storage and Land Services	3 2019
WV Depart	ment of
Subscribed and sworn before me this 3/5t day of may, 2019 Environmental	Protection
My commission expires My commission expires Notary Pub State of West My Commission March 31, 2020 March 31, 2020 Notary Pub State of West My Commission March 31, 2925 WHITE OAKS B BRIDGEPORT, W	onnson olic Virginia o Expires 020 OULEVARD

Operator's Well No. AW-3365

Toposed Revegetation Treatment. Acres Disturbed	Acres Preveg etation pH
Lime 3.0 Tons/acre or to correct	to pH 6.5
Fertilizer type 10/10/20	
Fertilizer amount 500	lbs/acre
Mulch Hay or Straw @ 2.5	Tons/acre
	Seed Mixtures
Temporary	Permanent
Seed Type lbs/acre Meadow Mix @ 40lbs/acre	Seed Type lbs/acre Meadow Mix @ 50lbs/acre
Maps(s) of road, location, pit and proposed area for land a rovided). If water from the pit will be land applied, provided	application (unless engineered plans including this info have been ide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W, D) of the p
Maps(s) of road, location, pit and proposed area for land a provided). If water from the pit will be land applied, provided, W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic sheet.	
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JUL 08 2019

July 1, 2019

Coal Database Review

A search was performed for data related to the presence of coal beds and coal mining operations, within the vicinity of well AW-3365 (47-041-02593). This data was gathered from the West Virginia Geologic & Economic Survey and the West Virginia Office of Miner's Health, Safety, and Training. No records of surface or dep mining are recorded, within the vicinity of the aforementioned well.

Drilling records for AW-3365 were reviewed. No coal seams were recorded in the reviewed records.

Well 15456 (47-041-05314) offsets well AW-3365. A review of the drilling records for 15456 was performed, as a means to validate the drilling records for AW-3365. One coal seam was present in 15456, at a depth of 16'. Based on the surface elevation of 15456, this is the Washington Coal. No other coal seams were listed in the drilling records.

Further review indicated 7 economic coal beds are potentially present in north central West Virginia. Although

Washington Coal: Listed at an elevation of ±1180'. Coal seam is higher in elevation than well AW-3365 (1053' ASL). Coal not present, in relation to well.

Waynesburg A Coal: Not listed in area of well.

Waynesburg Coal: Listed at an elevation of ±1040'. No record of this coal is indicated in the AW-3365 drilling records.

Uniontown Coal: Listed at an elevation of ±920'. No record of this coal is indicated in the AW-3365 drilling records.

Sewickley Coal: Listed at an elevation of ±760'. No record of this coal is indicated in the AW-3365 drilling records.

Redstone Coal: Listed at an elevation of ±700'. No record of this coal is indicated in the AW-3365 drilling records.

Pittsburgh Coal: Listed at an elevation of ±660'. No record of this coal is indicated in the AW-3365 drilling records.

Based on the data available and the results of field reviews, no coal related activities are currently being undertaken in the immediate vicinity of the well location and no coal related issues are anticipated to occur during the planned well work. If there are any further questions or concerns related to this coal data evaluation, please do not hesitate to contact me.

Sincerely,

Jason E. Bach, PG

304.669.4850

RECEIVED
Office of Oil and Gas

JUL 08 2019

WV Department of Environmental Protection

