

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

August 12, 2014

WELL WORK PERMIT Re-Work

This permit, API Well Number: 47-4102573, 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

Operator's Well No: AW-90

Farm Name: MARSH, M. C.

API Well Number: 47-4102573

Permit Type: Re-Work Date Issued: 08/12/2014

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. 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.

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

	WEL	L WORK PER	MIT APPLIC	ATION	3	647
1) Well Operator:	Dominion Transmi	ssion Inc	307048	Lewis	Freeman's Creek	Vadis
			Operator ID	County	District	Quadrangle
2) Operator's Well	Number: AW90			3) Elevation:	1002.6	4
26.20.20.20.20.20.20.20.20.20.20.20.20.20.	Oil or Gas <u>X</u> f Gas: Productio		erground Sto	rage X		
	Deep	/ Sh	allow X	_		
 6) Proposed Total 7) Approximate free 	et Formation(s): Ga Depth: ²³⁴⁵ esh water strata de alt water depths: NA	Feet Feet Feet Feet Feet			rget Depth: 22 al Depth: Gant	
9) Approximate co	oal seam depths: _F	Pittsburgh-445'- 45	1', Uniontown-17	4', Remaining sea	ms un-mineable	
10) Approximate v	oid depths,(coal, k	(arst, other): <u></u>	None			_
11) Does land con	itain coal seams tri	butary to activ	e mine? N	o mining activiti	ies within 30 mil	les
	sed well work and fr Tubing, cemented to s	(file 1) 50 mm 1.				eded)

13) CASING AND TUBING PROGRAM

SPECIFIC	CATIONS		FOOTAGE	INTERVALS	S CEMENT
Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
	1 1 1				
7	J55	23		1985	existing
5.5	J55	17		2076	existing CTS
3.5	J55	9.2		2275	265 cuftiging
					JUL 1 4 2014
				- Fr	WV Department of
	<u>Size</u> 7 5.5	<u>Size</u> <u>Grade</u> 7 J55 5.5 J55	7 J55 23 5.5 J55 17	Size Grade Weight per ft For Drilling 7 J55 23 5.5 J55 17	Size Grade Weight per ft For Drilling Left in Well 7 J55 23 1985 5.5 J55 17 2076 3.5 J55 9.2 2275

Packers: Kind: Sizes: B.S. 6-25-14

onmental Protection

Depths Set

08/15/2014

AW-90 (I/W Well) API# 47-041-02573 Lease Name: M. C. Marsh FKLC Storage, Lewis County, WV 2014 Rework with 3-1/2" Tubing Procedure

Purpose:

Complete TJCO on well to seal outer 5-1/2" x 7" casing annulus, run new 3-1/2" tubing and cement to surface to remediate the corroded outer 5-1/2" casing.

Well Information:

10-3/4" Casing set at 177' (pulled) 8-5/8" Casing set at 1011' (pulled) 7" Casing set at 1985' (year ran 1900) 5-1/2" K55 Csg set at 2076' (year ran 1943) 5-1/2" Casing was perforated at 1800', 1490' and 1200' (circulated 90sx from 1200' to surface) Gantz Sand 2296'-2323' (open hole completion) 5-1/2" N1 Bridge plug set at 2000' Current Well TD: 2345'

Procedure:

- 1. Complete pipeline crossing process, One Call Notification and location construction.
- 2. Excavate the top joint, plate off 5-1/2" x 7" annulus and install 2" vent line to GL.
- 3. Install new 7-1/16" 2M x 5-1/2" 8RD TCM Tubing head and existing 7-1/16" 2M valve.
- 4. Backfill excavation and set 6'x6' cellar box and grating.
- 5. MIRU service rig, remove master gate, nipple up 7-1/16" 2M x 5M change over spool and 7-1/16" 5M BOP/Diverter on 7-1/16" 2M tubing head and pressure test BOP.
- 6. PU 2-3/8" drill string and 3-1/8" collars and TIH to N1 plug located at 2000'.
- 7. Displace 10 ppg brine from the hole using fresh water mixed with KCl or clay stabilizer.
- 8. Drill out bridge plug and clean well out to TD.
- 9. MIRU wireline and run caliper/GR log on open hole section to determine open hole volume.
- 10. Spot sand plug from bottom hole to 25' above top of Gantz (per caliper log) by dumping sand from surface. Confirm top of sand plug with sand line.
- 11. Clean and inspect threads on 3-1/2" Tubing.
- 12. Run new 3-1/2" 9.2# J55 10RD non upset tubing to within 20' of the top of the Gantz. Use thread lock on float shoe and bottom 2 joints. Install centralizers on the bottom 3 joints and every third joint to surface. Land 3-1/2" tubing in hanger using 3-1/2" 8rd x 10rd XO pup joint for cement head.
- 13. Cement 3-1/2" tubing to surface using DTl approved lead and tail cement blends as required by current storage pressure. Pump 15bbls of 6% bentonite gel ahead of cement files to pump 2542 excess cement. Catch wet samples from lead and tail blends and confirm density using a pressurized mud scale. Displace cement with fresh water and bump plug to 500psi over 412614 displacement pressure. Shut down and check float. Shut in cement head and Work hrs. displacement pressure. Shut down and check float. Shut in centering and an arrangement of

 14. Nipple down BOP assembly and install wellhead DSA and 3-1/8" 2M master valuable protection 14.

 08/15/2014

- 15. RDMO service rig and equipment.
- 16. Remove cellar coat and wrap the external casing strings and backfill hole.
- 17. MIRU wire line truck and run bond log.
- 18. MIRU coiled tubing unit (2" or 1-3/4" coil) Drill out float equipment with mill and motor on fluid. Circulate to bottom to remove sand plug. Spot 250 gal of 15% FE acid across Gantz, soak for 1 hour and unload wellbore with N2. Flow well until dry through a choke to gas buster tank. Record stabilized flow and pressure data.
- 19. RDMO Coiled tubing unit.
- 20. Install wellhead assembly and load the 5-1/2" and 3-1/2" annulus with inhibitor from Baker Petrolite.

All reports and field tickets are to be submitted to the Gas Storage Dept – DRS Group at the completion of the job.

RECEIVED
Office of Oil and Gas

JUL 1 4 2014

Fink Storage AW-90 [REC] Permit #47-041-02573 Elev = 999'[GL]

177' of 10-3/4" csg was set and then pulled during drilling in 1900.

1011' of 8-5/8" csg was pulled during 1964 rework.

Pittsburgh Coal at 445'-451' no operator, owner: C. E. Gibson (1956 records) Pulled 62 joints of 3-1/2" 9.2 lbs/ft 10rd tubing measuring 1870.72' and a Parmaco packer on 4/2/2013. Ran logging suite and set CIBP.

Perfs @ 1197' in 5-1/2" casing per 2013 HRVRT log. Circulated 90sx of Cement to surface in 1962

Perfs @ 1487' in 5-1/2" casing per 2013 HRVRT log.

Perfs @ 1796' in 5-1/2" casing, squeezed 15sx of cement. (estimated top 1545')

perfs confirmed on 2013 HRVRT log.

N1 drillable bridge plug set at 2000', loaded hole with 10ppg treated brine. 4/4/2013 7" Csg @ 1985'

5 1/2" Csg set in cement @ 2076'[1943] RECEIVED
Office of Oil and Gas

JUL 1 4 2014

Gantz 2296'- 2323'

TD = 2345'

Well Name	& Number:		AW-90		Lease		M. C.	Marsh	- Lorectic
County o	r Parish:	Lew	is	State/Prov.	V	VV	Country:	SA	
Perforation	ons: (MD)	1800',	1490', 1200'	in 5 1/2"	(TVD)		23	345'	
Angle/Perfs		Angle @KOP	and Depth				KOP TVD		
BHP:		BHT:		Completion	n Fluid:				, ,
FWHP:		FBHP:		FWHT:		FBHT:		Other:	
Date Cor	mpleted:	12/29/00						RKB:	
Prepared By:			Matt Goralcz	yk	Last Revi	sion Date:	11/13/13	3	00/45/6
									' 08/15 /2

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	ans Creek			Pittsbar Dunkare					445 900	925				Date	Size 10	Wt.	Grade	Amount 177'5"	Set At	Cem R	esult	Cem Sacks	Date	177'5"
County: Lewis State: WV				Gas San					225	1290			+	1900	7	-		1985		_	一十			11113
Located:		W.O.		Salt San					325	1355				1943	5,5			2070	2070	NT	s	90		
Elevation:	999	G.L.	K.B.						570	1600				1964	3.5	10.2	K-55	1860	1860	N/			4/2/2013	1870
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WW-	2A
(Rev.	6-07)

1). Date: 02-10-2014 2.) Operator's Well Number AW90 State County

47-3.) API Well No .:

041

Permit

02573

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

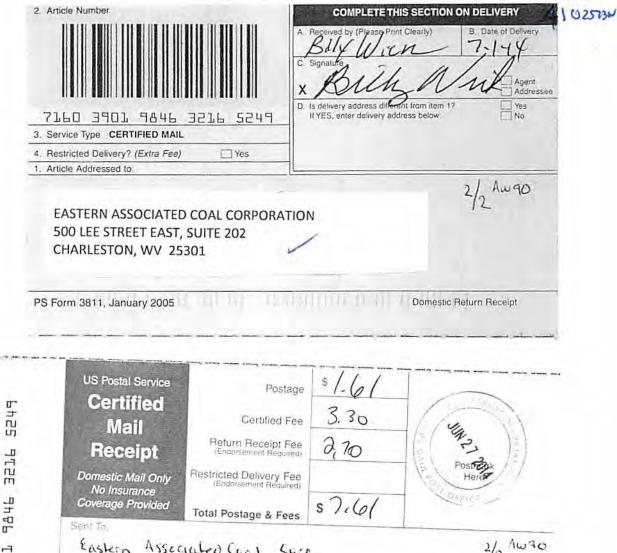
4) Surface Owner(s) to be served: (a) Name ARTHUR A & ELIZABETHA RUBLE Address (b) Name ACCONTRACT STATES (c) Name ACCONTRACT STATES (d) Name ACCONTRACT STATES (d) Name ACCONTRACT STATES (d) Name ACCONTRACT STATES (d) Coal Owner(s) with Declaration Name EASTERN ASSOCIATED COAL CORPORATION (PITTSBGH, SEAM) Address (c) Name ACCONTRACT STATES (c) Name ACCONTRACT STATES (d) Name ACCONTRACT STATES (e) Coal Coal Owner(s) with Declaration Name ACCONTRACT STATES (e) Coal Coal Coal Coarporation (PITTSBGH, SEAM) Address (f) Name ACCONTRACT STATES (g) Coal Coal Coarporation (PITTSBGH, SEAM) Address (g) Coal Coal Coarporation (PITTSBGH, SEAM) Address (g) Coal Coal Coarporation (PITTSBGH, SEAM) Address (g) Coal Coal Coal Coarporation (PITTSBGH, SEAM) Address (g) Coal Coal Coarporation (PITTSBGH, SEAM) A	30			F() A () A	CK GD
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(b) Name Address Name Address 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) X 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 passibility of fine and impact that the passibility of pominion Transmission line.			ARTHUR A. & ELIZABETH A. RUBLE		-
(b) Coal Owner(s) with Declaration Name Address Address Address Address Address Address Address Name ARTHUR A. & ELIZABETH A. RUBLE (ALL BUT PITTSBGH. SEAM) ACHIVE A. & ELIZABETH A. RUBLE (ALL BUT PITTSBGH. SEAM) ACHIVE A. & ELIZABETH A. RUBLE (ALL BUT PITTSBGH. SEAM) PO BOX 125 WESTON, WV 28492-0125 (c) Coal Lessee with Declaration Address BRIDGEPORT W. 28330 Address Telephone 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) Vertified 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 important the control of the possibility of the possibility of fine and possibility of the possibility of fine and possibility of f		Address	PO BOX 125	Address	
Address Name Address Soo LEE STREET EAST, SUITE 202 CHARLESTON, W 25301			WESTON WV 26452-0125		
Address (c) Name Address Name Address WESTON, WV 25452-0125 (c) Coal Lessee with Declaration Name Address Telephone Address To The Persons Name Address To the Persons Name Dabove 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 I certify that as required under 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) X 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. A and		(b) Name			wner(s) with Declaration
(c) Name Address BARRY STOLLINGS (c) Coal Lessee with Declaration Name BRIDGEPORT. WV 263300 Address 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) X 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. Lam aware that there are significant penalties for submitting false information, including the possibility of fine and important of the properties of the possibility of the possibility of fine and important of the possibility of position fransmission inc. Well Operator Dominion Transmission inc.		Address		Name	EASTERN ASSOCIATED COAL CORPORATION (PITTSBGH, SEAM)
Address BARRY STOLLINGS Address Address Address Address Address Address Address Address Address Telephone 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 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. Lam aware that there are significant penalties for submitting false information, including the possibility of fine and impent. Potage Public Well Operator Dominion Transmission Inc. Potage Public Well Operator Dominion Transmission Inc.				Address	500 LEE STREET EAST, SUITE 202
Address PO BOX 125 WESTON, WV 26452-0125 6) Inspector Address BARRY STOLLINGS (C) Coal Lessee with Declaration Address 28 CONNIFER DRIVE Name Address 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) X 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. Lam aware that there are significant penalties for submitting false information, including the possibility of fine and the Code of West Virginia (See page 2) Possibility of fine and West Code of West Virginia (See page 2) To the penalty of the Code of West Virginia (See page 2) Responsibility of fine and West Code of West Virginia (See page 2) Responsibility of fine and West Code of West Virginia (See page 2) Responsibility of fine and West Code of Virginia (See page 2) Possibility of fine and West Code of Virginia (See page 2) Responsibility of fine and West Code of Virginia (See page 2) Responsibility of fine and West Code of Virginia (See page 2) Responsibility of See page 2) Responsibility of See page 2) Responsibility of See page 2) Re					CHARLESTON, WV 25301
6) Inspector Address BARRY STOLLINGS (C) Coal Lessee with Declaration Address 28 CONNIFER DRIVE Name BRIDGEPORT. WV 26330 Address 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) Personal Service (Affidavit 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 those are significant penalties for submitting false information, including the possibility of fine and NOTARY PUBLIC Well Operator Dominion Transmission Inc.		(c) Name		Name	ARTHUR A. & ELIZABETH A. RUBLE (ALL BUT PITTSBGH. SEAM)
6) Inspector Address BARRY STOLLINGS 28 CONNIFER DRIVE BRIDGEPORT. WV 26330 Telephone To the persons name and address Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas on the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas on the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas on the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas on the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas on the lease of lease or leases or other continuing contracts by which I hold the right to extract oil and gas on the lease of lease of lease or leases or other continuing contracts by which I hold the right to extract oil and gas on the lease of lease or leases of the lease of lease or leases or other continuing contracts by which I hold the right to extract oil and gas on the lease of lease or leases of leases or other continuing contracts by which I hold the right to extract oil and gas on the lease of leases of leases or leases of leases or other contracts by which I hold the right to extract oil and gas on the lease of leases of leases or leases of leases or leases of leases or leases of leases or leases		Address		Address	PO BOX 125
Address Telephone 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 on 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) X 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. A parameter of the personal of the per					WESTON, WV 26452-0125
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My Commission Expires December 17, 2020 Oil and Gas Privacy Notice Notary Public	this obta	I have readed under this I certify unapplication for application for a lam away and the information of the i	Personal Service (Affidavit Certified Mail (Postmarked Publication (Notice of Publication (Notice of Publication) and and understand Chapter 22-6 application. Inder penalty of law that I have form and all attachments, and the form and all attachments, and the form and all attachments, and the form and that there are significant penalty of that there are significant penalty of that there are significant penalty of the following that t	cuments pages 1 throughtached) postal receipt attached cation attached) and 35 CSR 4, and personally examined at based on my inquiration is true, accurate attached for submitting fall ator Dominion Transmission James D. Blasingame Director of Storage 445 West Main St Clarksburg, WV 26301 304-669-6230	I agree to the terms and conditions of any permit and am familiar with the information submitted on ry of those individuals immediately responsible for and complete. Ise information, including the possibility of fine and an lace.
My Commission Expires December 19, 2020 Oil and Gas Privacy Notice	(12	(118 An. 10		NASTIVITOTIA
Oil and Gas Privacy Notice	My	Commission F	expires December 181	2/5/0	Notary Public
	-			2030	

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 08/15/2014

4102573W COMPLETE THIS SECTION ON DELIVERY 2. Article Number 6-30-14 Is delivery address different from item 1'
If YES, enter delivery address below: 3. Service Type CERTIFIED MAIL ☐ Yes 4. Restricted Delivery? (Extra Fee) 1. Article Addressed to: 10/2 AW90 Arthur A. & Elizabeth A. Ruble PO Box 125 Weston, WV 26452-0125 Domestic Return Receipt PS Form 3811, January 2005 US Postal Service Postage Certified Certified Fee Mail Return Receipt Fee Receipt 321F Restricted Delivery Fee (Endursement Regulred) Here Domestic Mail Only No Insurance 무유유 Coverage Provided Total Postage & Fees Sent To 1/2 1090 TOLE Arthur A. & Elizabeth A. Ruble PO Box 125 7160 Weston, WV 26452-0125 PS Form 3800, January 2005 US Postal Service Certified Mail Receipt

RECEIVED
Office of Oil and Gas

JUL 1 4 2014



9486 HOLE 7160

2/2 1640 Eastern Associated Coal Korp soo Lee st East Suite 202 Charles ten wy

PS Form 3800, January 2005

US Postal Service

Certified Mail Receipt

RECEIVED Office of Oil and Gas

1 4 014

WW Department of 08/15/2014

02573W

WW-2A1 (Rev. 1/11)

Operator's	Well	Number	AW90
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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

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 Transmission Inc

James D. Blasingame

Director of Storage



EXISTING WELL #AW-90

WW-2A1

ATTACHMENT

LEASE SUMMARY

AW90

LEASE FK000787:

ORIGINAL LESSOR: M. C. MARSH; CATHERINE & C. E. MARSH

ORIGINAL LESSEE: SOUTH PENN OIL COMPANY

TO: HOPE NATURAL GAS COMPANY BY AGREEMENT DATED 04-01-02, INTEREST IN GAS. RECORDED IN

BOOK 0085, PAGE 0122.

TO: SOUTH PENN NATURAL GAS COMPANY BY AGREEMENT DATED 12-28-39, INTEREST IN OIL.

RECORDED IN BOOK 0156, PAGE 0570.

TO: HOPE NATURAL GAS COMPANY BY AGREEMENT DATED 03-01-43, INTEREST IN OIL. RECORDING INFORMATION NOT AVAILABLE.

ON 04-01-65, HOPE NATURAL GAS COMPANY AND NEW YORK STATE NATURAL GAS CORPORATION MERGED AND FORMED CONSOLIDATED GAS SUPPLY CORPORATION.

CONSOLIDATED GAS SUPPLY CORPORATION TO CONSOLIDATED GAS TRANSMISSION CORPORATION BY AGREEMENT DATED 03-01-84, EFFECTIVE 01-01-84. RECORDED IN BOOK 0425, PAGE 0127.

BY CORPORATE NAME CHANGE EFFECTIVE 01-01-88, CONSOLIDATED GAS TRANSMISSION CORPORATION IS NOW CNG TRANSMISSION CORPORATION.

AS A RESULT OF A MERGER, CNG TRANSMISSION CORPORATION BECAME DOMINION TRANSMISSION INC., EFFECTIVE 4/11/2000. AMENDED CERTIFICATE OF AUTHORITY WITH THE STATE OF WV DATED 5/10/2000, FILED IN HARRISON COUNTY, DEED BOOK 58, P 362.

ROYALTY INTEREST IS 12.5%

DOMINION TRANSMISSION , INC OWNS 87.5% WORKING INTEREST

DOMINION TRANSPAISSION FICED
445 W. MAIN ST.

CLARKSBURG, WV 26301
1 4 2014

WW-2B1
(5-12)

Well No.	AW90	

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 Sampling Contractor		INDUSTRIAL LAB ANALYSIS, INC				
		DRA-SURV, INC				
Well Operator	Dominion Trans	emission Inc.				
Address	445 West Main	Aain St				
	Clarksburg, WV	26301				

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 policy and analyses. If there were no requests made, indicate by underling which office you that the 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, I 4 2014



EXISTING WELL #AW-90

WW-2B1 ATTACHMENT WATER NOTIFICATION SUMMARY

1) Daniel J. & Katherine F. Yoder c/o Earl Oney - 3113 Sassafras Run Road, Weston, WV 26452

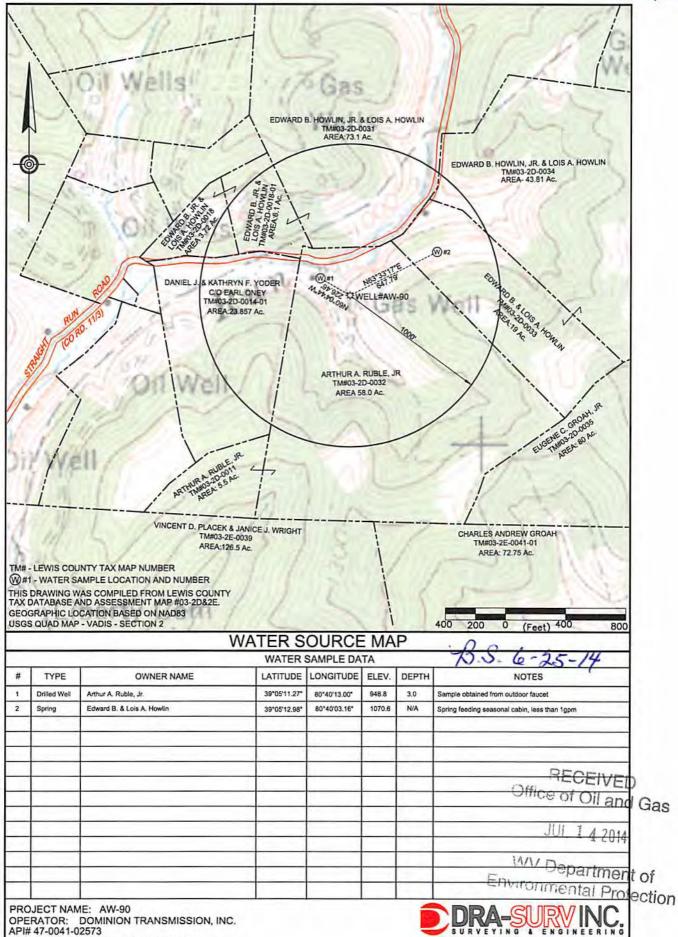
* 2) Edward B. & Lois A. Howlin - 2880 Dunkirk Way, Dunkirk, MD 20754-9103

* 3) Arthur A. & Elizabeth A. Ruble - PO Box 125, Weston, WV 26452-0125

RECEIVED
Office of Oil and Gas

JUL 1 4 2014

DOMINION TRANSMISSION, INC. 445 W. MAIN STOF CLARKSBURG, WV 2630 Tion 304-669-6230



DISTRICT: FREEMANS CREEK RURAL

COUNTY: LEWIS STATE: WEST VIRGINIA DATE: APRIL 7, 2014

DRA-SURVINC.

PHONE: (724) 966-2483 FAX: (724) 966-2770

P.O. BOX 402

405A WEST GEORGE STREET

CARMICHAELS, PA 15320

08/15/2014

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



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

June 26, 2014

By U.S. Mail, Certified Delivery 7160 3901 9846 3216 5232

Arthur A. & Elizabeth A. Ruble PO Box 125 Weston, WV 26452-0125

GAS STORAGE WELL #:

AW-90

DOMINION TRANSMISSION, INC.

DISTRICT:

Freeman's Creek

COUNTY:

Lewis

<u>State:</u>

WV

Dear Arthur & Elizabeth Ruble

On behalf of Dominion Transmission, Inc. (DTI), I wish to advise you that the gas storage well

AW-90 is scheduled to be reworked. 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 <u>surface and Coal</u> owner, on the particular tract of land on which the 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, ____ Garry Bourne___ , at ___ 304.627.3162__ .

Sincerely,

Matter & Geralezyk

Matthew E. Goralczyk

Dominion Transmission, Inc.

1 / 2

RECEIVED
Office of Oil and Gas

JUL 1 4 2014

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



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

June 26, 2014

By U.S. Mail, Certified Delivery 7160 3901 9846 3216 5249

Eastern Associated Coal Corporation 500 Lee Street East, Suite 202 Charleston, WV 25301

GAS STORAGE WELL #:

AW-90

		DOMINIO	N TRANSMISSIO	N, INC.			
<u>D</u>	ISTRICT:	Freeman's Creek	COUNTY:	Lewis	State:	WV	
Dear	Dear Sir or N	Aadam,			•		
On behalf of Dominion Transmission, Inc. (DTI), I wish to advise you that the gas storage well AW-90 is scheduled to be reworked. Therefore, DTI is hereby making a Notice of Application for a Well Work Permit, to the WV DEP Office of Oil & Gas.							
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	Should you have any questions concerning this well work, you may contact our lease and right of way agent, Garry Bourne , at 304.627.3162						
			•				
Sincer	ely,						
ma	thic E H	walazy					

2 / 2

Matthew E. Goralczyk Dominion Transmission, Inc.

P	age	of
API Number 47 - 041	- 02573	
Operator's Well No.	AW90	

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) Straight Run Quadrangle	Vadis 7.5 Se	ection 2	
Elevation 999' County Lewis	District	Freeman's Creek	
Do you anticipate using more than 5,000 bbls of water to complete the proposed v	vell work?	Yes No X	_
Will a pit be used for drill cuttings? Yes No X		No	PIT
If so, please describe anticipated pit waste: NA			REPLUENT
Will a synthetic liner be used in the pit? Yes NA No NA If	so, what ml.	? NA MUST	BE CONTAIN
Proposed Disposal Method For Treated Pit Wastes:			
Land Application Underground Injection (UIC Permit Number)
Other (Explain Meadowfill Landfill, Bridgeport, WV			-
Will closed loop system be used? NA			
Drilling medium anticipated for this well? Air, freshwater, oil based, etc. fresh wa	ter		
-If oil based, what type? Synthetic, petroleum, etc			
Additives to be used in drilling medium? Potassium Chloride and Gel			
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. NA			
-If left in pit and plan to solidify what medium will be used? (cement, li	me, sawdust) NA	
-Landfill or offsite name/permit number? NA			
I certify that I understand and agree to the terms and conditions of the Con August 1, 2005, by the Office of Oil and Gas of the West Virginia Department provisions of the permit are enforceable by law. Violations of any term or conclaw or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and a application form and all attachments thereto and that, based on my inquiry obtaining the information, I believe that the information is true, accurate, and penalties for submitting false information, including the possibility of fine or imp	of Environredition of the mailiar of those in complete. risonment.	nental Protection. I under general permit and/or oth RECEIVED with the information submidividuals immediately reasonable and aware that there a	stand that the ner applicable gitted on this sponsible for
Company Official Signature		Way Department o	f _{UEE}
Company Official (Typed Names D. Blasingame	En	rironmenta Fista	tion Co-
Company Official Title Director of Storage		-IUL 14;	and Gas
Subscribed and sworn before me this 24th day of June		4	
Subscribed and sworn before me this 24th day of June Burly D-Lowe My commission expires December 17, 2020	Not	ary Pub	OFFICIAL SEAL OFFICIAL SEAL OFFICIAL SEAL OFFICIAL OFFICIAL

Lime 3.0 Tons/acre or to correct to pH 6.5 Fertilizer (10-20-20 or equivalent) 500 Ibs/acre (500 lbs minimum) Mulch Hay or Straw Tons/acre Seed Mixtures Area I Seed Type Ibs/acre Seed Type Ibs/acre Timothy 3 Timothy 3 Orchard Grass 12 Orchard Grass 12 White Clover 4 White Clover 4 Attach: Drawing(s) of road, location,pit and proposed area for land application. Photocopied section of involved 7.5' topographic sheet.			0.4 +/-	
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Mulch Hay or Straw Seed Mixtures Area I Seed Type Timothy 3 Orchard Grass 12 White Clover Attach: Drawing(s) of road, location,pit and proposed area for land application. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Bay Helly Seed Mixtures Area II Seed Type Ibs/acre Seed Type Orchard Grass 12 White Clover 4 White Clover 4		Tons/acre or to corr	rect to pH 0.3	
Seed Type Ibs/acre Seed Type Ibs/acre Timothy 3 Timothy 3 Orchard Grass 12 Orchard Grass 12 White Clover 4 White Clover 4 Attach: Drawing(s) of road, location,pit and proposed area for land application. Photocopied section of involved 7.5' topographic sheet.	Fertilizer (10-20-20	or equivalent) 500	lbs/acre (500 lbs minimum)	
Area I Seed Type Ibs/acre Seed Type Ibs/acre Timothy 3 Timothy 3 Orchard Grass 12 Orchard Grass 12 White Clover 4 White Clover 4 Attach: Drawing(s) of road, location,pit and proposed area for land application. Photocopied section of involved 7.5' topographic sheet.	_{Mulch} Hay or \$	Straw	Tons/acre	
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Orchard Grass 12 White Clover 4 White Clover 4 Attach: Drawing(s) of road, location,pit and proposed area for land application. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Bary Helly				
White Clover 4 White Clover 4 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 Heller				
Attach: Drawing(s) of road, location,pit and proposed area for land application. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Bruy Helly				
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Title: <u>Inspector</u>
Field Reviewed? Yes

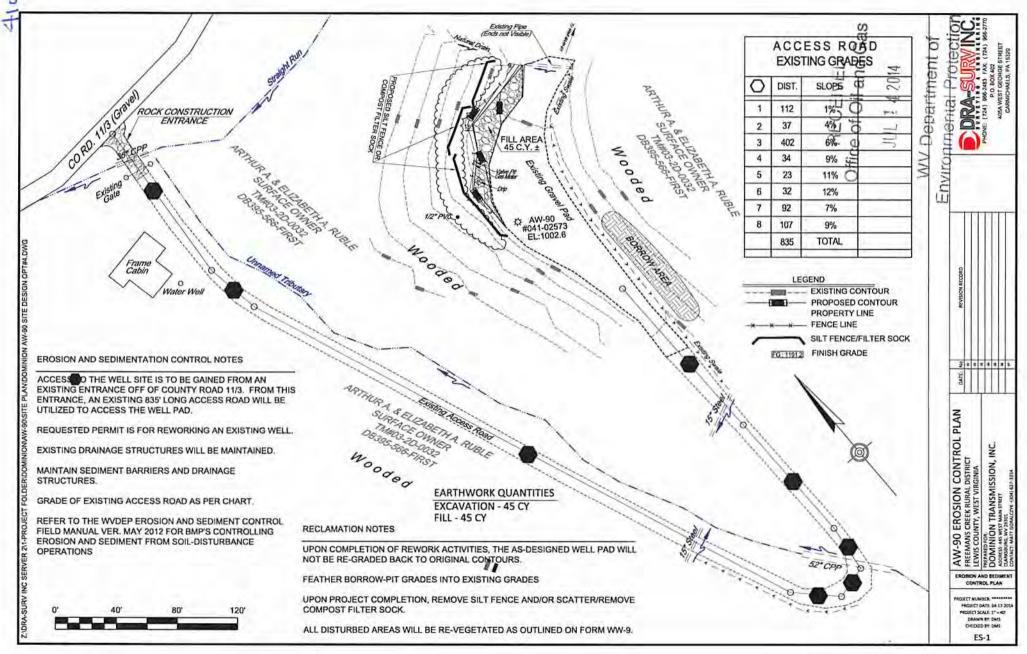
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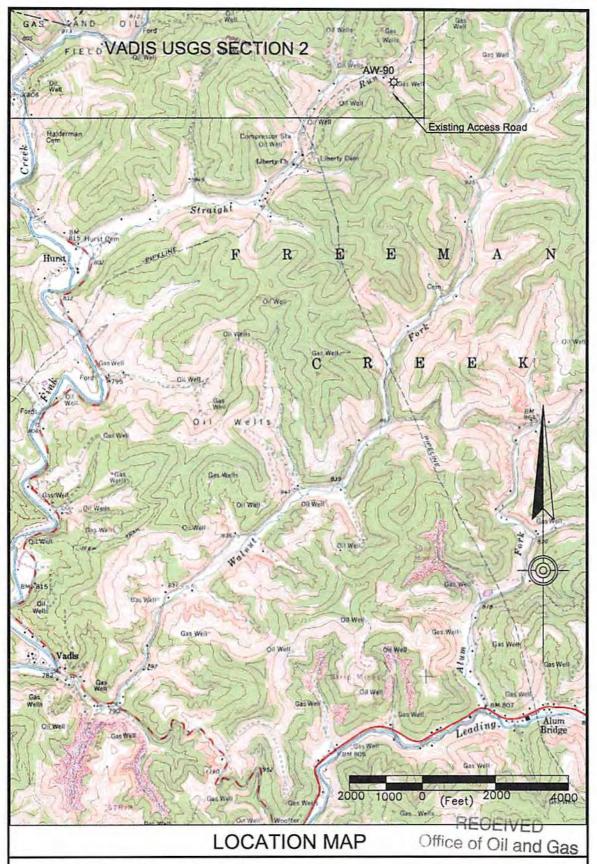
WV Department of Environmental Protection

6-25-14

Date:

) No





OPERATOR: DOMINION TRANSMISSION, INC.

API# 47-0041-02573 PROJECT NAME: AW-90

FREEMANS CREEK RURAL DISTRICT COUNTY: LEWIS

STATE: WEST VIRGINIA

QUADRANGLE NAME: VADIS- SECTION 2

DATE: APRIL 4, 2014



405A WEST GEORGE STREET CARMICHAELS, PA 15320

08/15/2014

