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

February 26, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4101275, issued to DOMINION TRANSMISSION INC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

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

James Martin
Chief

Operator's Well No: DROPLMAN GANTZL
Farm Name: CAWTHON, ROBERT J.
API Well Number: 47-4101275
Permit Type: Plugging
Date Issued: 02/26/2015

Promoting a healthy environment.

4012750

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

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

4101275P

WW-4B
Rev. 2/01

1) Date February 24, 2014
2) Operator's Well No. 13061
3) API Well No. 47- 041 - 01275

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 ____ or Underground storage ____) Deep ____/ Shallow X

5) Location: Elevation 977.51' Watershed Buck Run of Fink Creek
District Freemans Creek County Lewis Quadrangle New Milton, WV 7.5'

6) Well Operator Dominion Transmission, Inc.
Address 445 West Main Street
Clarksburg, WV 26301

7) Designated Agent Mr. James D. Blasingame
Address 445 West Main Street
Clarksburg, WV 26301

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

9) Plugging Contractor
Name Unknown
Address

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

SEE ATTACHED SHEET

Received
Office of Oil & Gas
JAN 20 2015

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

Work order approved by inspector Barry Stollings Date 12-29-14

4101275P

DTI Well 13061 (47-041-01275) Plug and Abandon Procedure

Wellbore Configuration:
GL Elevation: 1062'
10-3/4" Csg set at 235' (cemented)
8-5/8" Csg set for drilling at 1200' (pulled)
5-1/2" Csg set at 2046' (cemented w/ 50sx)
3-1/2" 7.7# 10RD Tubing set at 2412' (cemented w/ 150sx, TOC is 1856')
Big Injun Perforations: 2050'-2054'
Gantz Perforations: 2380'-2396'
Current Well TD: 2406'

Procedure:

1. Complete One Call prior to well site construction.
2. Install E&S controls per plan.
3. MIRU service rig and equipment.
4. Nipple up and pressure test BOP.
5. Blow well down to tank/Kill well with fluid if required.
6. TIH with 3-1/2" cement retainer and 3 joints of 1-1/2" tubing as tail pipe below the retainer and circulate hole until gas cut fluid is removed. Position retainer at 2300'.
7. MIRU cementers and spot 550' cement plug from 2400' to 1850'. Set Retainer and attempt to squeeze cement into the Gantz at 1000 psi, Sting out of retainer and TOOH and WOC 8 hrs.
8. RIH with sand line to tag and confirm cement plug depth.
9. Attempt to cut and pull 3-1/2" tubing. (if unsuccessful go to **Scenario B**)
10. Attempt to cut and pull 5-1/2" casing. (if unsuccessful go to **Scenario B**)
11. TIH w/ tubing and plug well to surface with class A cement.
12. RDMO service rig, reclaim location and install surface monument.

Scenario B – tubing/casing could not be pulled.

alt MIRU wireline and perforate casing/tubing per state inspector instructions.

alt TIH with tubing and plug well from 2050' to surface.

alt RDMO service rig, reclaim location and install surface monument.

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JAN 20 2015

4101275P

13061 (DG-1 DTI 41-1275)

Permit # 47-41-1275
GL: 1062'

Originally Drilled to Big Injun in 1965

Production - Oil/Water/Gas
Reworked - 1996

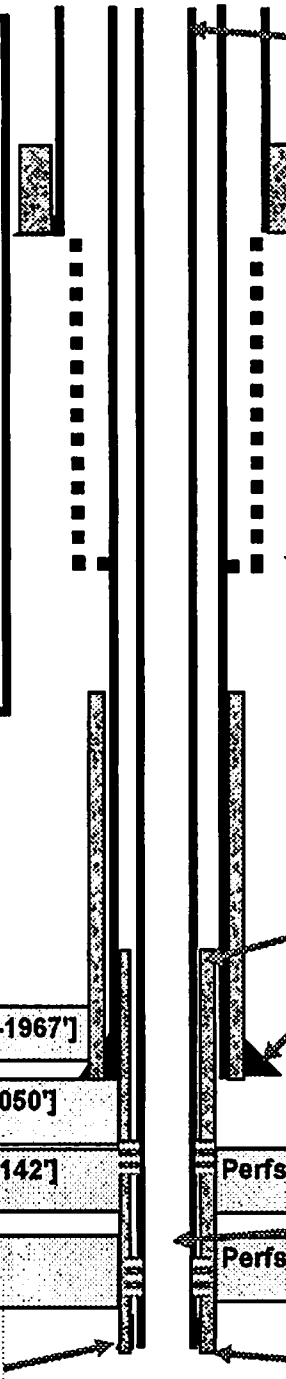
Bowie fraced Gantz through 1 1/2" tubing in Jan 1997

Gantz fraced with 250 sks sand - 330 bbl water & 500 gal 15% HCL

Keener fraced with 250 sks sand - 320 bbl water, 500 gal 15% acid & 500 gal 28% HCL

1964 IOF = 3MM/D @890#[30min]
(Big Injun Only - natural)

1996 OF = 10M/D @ 400#[24hr]
= 5BBL/D oil
2008 Logs: JCGR, GNT, MVRT, CBL



Annular fluid level @ 98'

10-3/4"@235' - Cemented

8-5/8" Csg Seat- pulled all 1200'

2008 Pulled tbg and rods
Pulled 2388' of 1-1/2" 2.75# tbg
Pulled 2406' of 5/8" rods

Cement Top on 3 1/2" Casing @ 1856'

5 1/2" 23#? @ 2046' Cemented w 50sx

Little Lime [1946'-1967']

Big Lime [1991'-2050']

Big Injun [2052'-2142']

Perfs: 2050'-2054'

83% ODIP @ 2378'

Gantz [2380'-TD]

Perfs: 2380'-2396'

Loggers TD: 2406'
CTD: 2414'
OTD ; 2059'

3 1/2" 7.7# J55 10RD Tbg @ 2412'
Cemented w/ 150sx [1996]

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Office of Oil & Gas
JAN 20 2015

Well Name & Number:		13061, DG-1 (DTI 41-1275)			Lease	Droppleman Heirs			
County or Parish:				State/Prov.			Country:	USA	
Perforations: (MD)					(TVD)	2414'			
Angle/Perfs		Angle @KOP and Depth					KOP TVD		
BHP:		BHT:		Completion Fluid:					
FWHP:		FBHP:		FWHT:		FBHT:		Other:	
Date Completed:								RKB:	
Prepared By:		Jeff Renner/Dick Cross			Last Revision Date:	4/14/2008...2/7/2012			

4101275P

WR-35

RECEIVED
WV Division of Environmental Protection
DEC 04 1996
Permitting
Office of Oil & Gas

API #: 47-041-01275 D

State of West Virginia
Division of Environmental Protection
Well Operator's Report of Well Work

Farm Name: DROPPLEMAN GANTZ Operator Well Number: 1 B-87D

Elevation: 1082 Quadrangle: NEW MILTON

District: FREEMANS CREEK County: LEWIS
Latitude: 13700 Feet South of 39 Deg. 10 Min. 0.00 Sec.
Longitude: 9230 Feet West of 80 Deg. 35 Min. 0.00 Sec.

Company: BOWIE, INC.
PO DRAWER 1430
CLARKSBURG, WV 26302-1430

Agent: GROVER BOWIE

Inspector: TIM BENNETT
Permit Issued: 9/5/1996
Well Work Commenced: 11/8/1996
Well Work Completed: 11/13/1996
Verbal Plugging
Permission granted on:
Rotary ☑ Cable: ☐ Rig
Total Depth (feet): 2414
Fresh Water Depths (ft): NA
Salt Water Depths (ft): NA

Is Coal Being Mined in the Area? (Y/N) No
Coal Depths (ft) NA

Casing and Tubing	Used in Drilling	Left in Well	Cement Fill Up in SKS
Existing			
Casing			
3 1/2	2412	2412	

OPEN FLOW DATA

Producing formation Gantz, Keener Pay zone depth (ft) 2388-2398, 2054-2058
Gas: Initial open flow: 5 MCF/day Oil: Initial open flow: 1 BBL/day
Final open flow: 10 MCF/day Final open flow: 5 BBL/day
Time of open flow between initial and final tests: 48 Hours
Static Rock Pressure: 400 psig (surface pressure) after 24 Hours

Producing formation ____ Pay zone depth (ft) ____
Gas: Initial open flow: ____ MCF/day Oil: Initial open flow: ____ BBL/day
Final open flow: ____ MCF/day Final open flow: ____ BBL/day
Time of open flow between initial and final tests: ____ Hours
Static Rock Pressure: ____ psig (surface pressure) after ____ Hours

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 WELBORE.

For: BOWIE, INC.
By: William C. Bowie
Date: 12-2-1996

LEW 1275 D

Received
Office of Oil & Gas
JAN 20 2015

4101275P

API: 47-041-01275 D BOWIE #: 87D DROPPLEMAN GANTZ 1

Fracture Record: Gantz (2388-2396) 24 Holes, 250 sks sand, 330 BBL H2O, 500 gal 15% HCL

Keener (2054-2058) 16 Holes, 250 sks sand, 320 BBL H2O, 500 gal 15% HCL, 500 gal 28% HCL

FORMATION	COMMENT
	-Formation had 5 1/2" casing to 2048' and 5" open hole to 2414'
KEENER, 2054-2057	
INJUN, 2057-2059	
BIG LIME, 2010-2038	
GANTZ, 2384-2402	

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4101275P

Form OG-10

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Vadis

Permit No. Lew 1275

WELL RECORD

Oil or Gas Well Both (KIND)

Company H.E.Acker
Address Box 667 Weston West Va.
Farm Droppleman Acres 63
Location (waters) Freeman Creek
Well No. One Elev. 1062
District Freeman Creek County Lewis
The surface of tract is owned in fee by Droppleman Heirs
Cleveland Ohio Address
Mineral rights are owned by Same
Address
Drilling commenced Feb. 4, 1964
Drilling completed June 2, 1964
Date Shot From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume 3 3 Million 3Hrs. 45 Min. Cu. Ft.
Rock Pressure 890 lbs. 30 Min. hrs.
on No test Yet. bbls., 1st 24 hrs.
WELL ACIDIZED No
WELL FRACTURED No Frac. It is natural.

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			
10 235 Cemented			Size of
8¼ 1200			
6⅝			Depth set
5 8/16 2042 Cemented			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 5½ 2042 SIZE 5½ No. Ft. 2042 Date 6/1/64 5 sacks cement; 4 sks "Gel"
COAL WAS ENCOUNTERED AT Nil FEET Swamp INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT
ROCK PRESSURE AFTER TREATMENT
Fresh Water 20 Feet Salt Water 618 Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sandy lime	Gray		0	37			
shale & sand				68	water		
Shale	red			105	Hole full of water		
Shale	red			135			
Slate & shale				154			
Red Rock				170			
Sandy lime	Gray			176			
Sand	Gray			193			
Sandy Shale	Gray			225			
Sand	Gray			230			
Shale	Gray			235			
Set 235 10' Cemented							
Shale	Gray			250			
Shale & sand	Gray			265			
Shale	Gray			290			
Shale	Red			315			
Shale	Red			375			
Sand	Gray			390			
Shale	Gray			417			
Sand	Gray			441			
Sandy Shale	Gray			480			
Lime	Gray			520			
Shale	Gray			525			
Shale	Red			535			
Shale	Gray			550			
Shale	Black			555			
Shale	Gray			580			
Sand	Gray			625	Water		
Shale	Red			675			

(over)

JUN 1964 RECEIVED West Virginia Dept. of Mines

Received Office of Oil & Gas JAN 20 2015

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Formation	Color	Hard or Soft	Top 7	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shale	Red			835			
Shale	Gray			870			
Sandy Lime	Gray			905			
Gray shale				910			
Rock	Red			945			
Sand	Gray			970			
Slate	Black			974			
Shale	Gray			990			
Shale	Red			1017			
Shale	Gray			1057			
Shale	Gray			1062			
Rock	Red			1075			
Shale	Red			1093			
Rock	Red			1100			
Shale	Gray			1115			
Sandy lime	Gray			1125			
Rock Shells	Gray			1158			
Sandy Shale	Gray			1193			
Shale	Gray	Run 1200	feet 8''				
Shale	Gray			1220			
Sand	Gray			1230			
Shale	Gray			1240			
Sand	Gray			1250			
Shale	Gray			1280			
Sand & Shale	Gray			1320			
Shale	Gray			1358			
Sand	Dark			1408			
Shale	Brown			1427			
Sand	Gray			1445			
Sand	Dark			1460			
Shale	Gray			1465			
Sand	Gray			1490			
Sand&Shale	Gray			1546			
Shale	Gray			1575			
Lime	Gray			1583			
Shale D	Dark			1631			
Shale	Gray			1685			
Shale&Sand	Dark			1738			
Sand	Gray			1750			
Sand	Light			1770			
Rock	Red			1795			
Shale&Rock	Red	Hard		1810			
Lime	Gray			1814			
Little Lime				1820			
Rock&Shells	Red			1860			
Lime	Gray	Hard		2057			
Injun				2059	Blowed out	T.D. 2059	

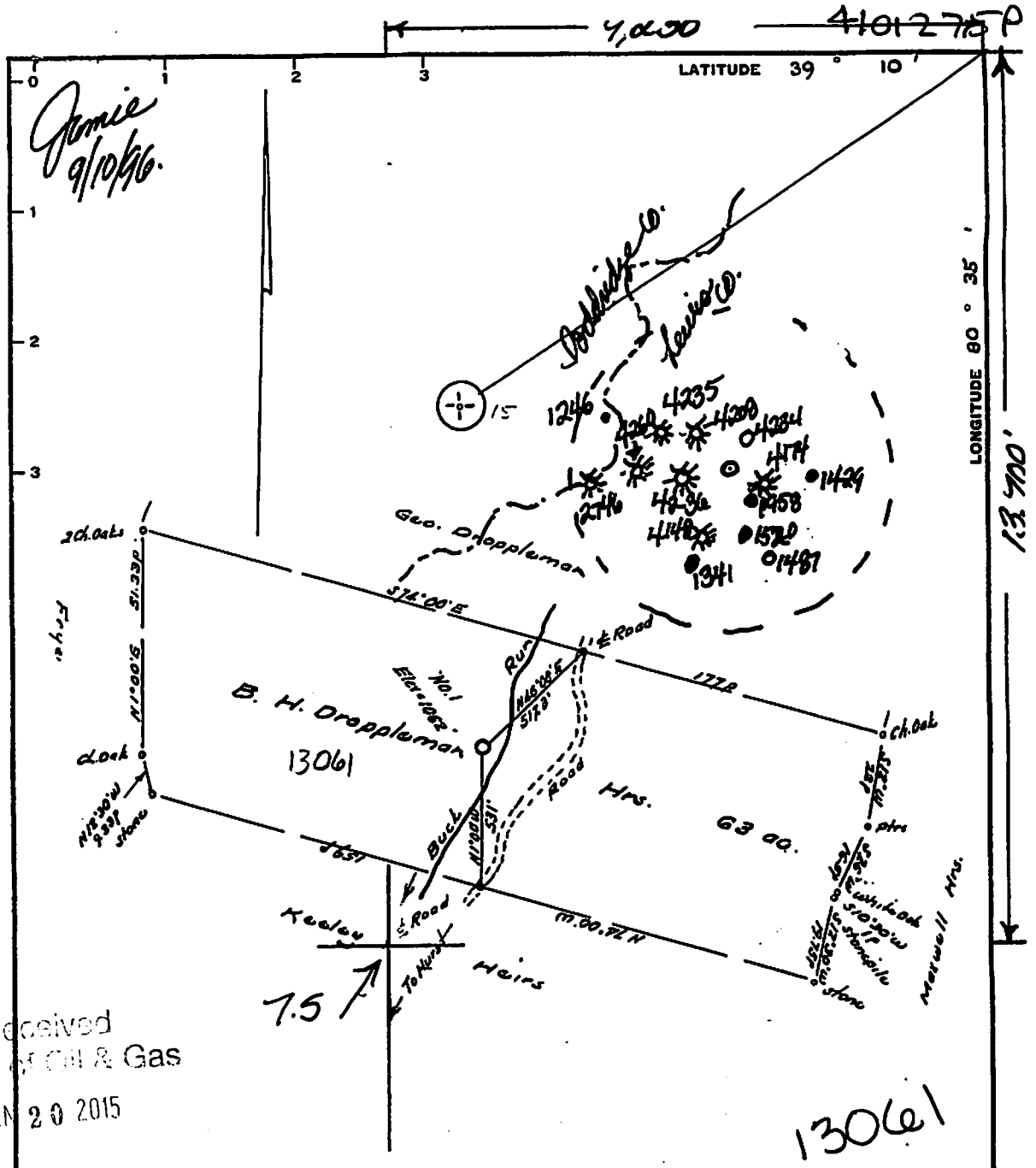
Received
Office of Oil & Gas
JAN 20 2015

Date 6/18/64, 1964

APPROVED H. E. Acker, Owner

By _____ (Title)

4101275P



Received
Office of Oil & Gas
JAN 20 2015

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all of the information required by paragraph 6 of the rules and regulations of the oil & gas section of the mining laws of West Virginia.

R. P. E. No.

New Location ■
Drill Deeper ☐
Abandonment ☐

Closure:- Less than 1' in 200'

Bowie, Inc.
P.o. Box 1430
Clarksburg, WVa. 26301-1430
Surface: Robert J. Cawthon

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
NITRO, WEST VIRGINIA 25143

WELL LOCATION MAP

Tract _____ Acres 63 Lease No. _____
Well (Farm) No. One Serial No. _____
Elevation (Spirit Level) 1082
Quadrangle Vadis 15' New Milton 7.5
County Lewis District Freemans Cr.
Engineer _____
Engineer's Registration No. 1227
File No. _____ Drawing No. _____
Date Jan. 7, 1964 Scale 1" = 300' = 495'

Old Well No. 47-041-01275 D.D.
Well drilled in 1964 to 2059' Natural in Big Injun
Drill deeper to 2400' Frac Gantz

LEW 1275 DD

K+E IMPERIAL™ TRACING CLOTH 71687

4101275P

WW-4A
Revised 6-07

1) Date: February 24, 2014
2) Operator's Well Number
13061

3) API Well No.: 47 - 041 - 01275

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

4) Surface Owner(s) to be served:
(a) Name: Dominion Transmission, Inc.
Address: 445 West Main Street
Clarksburg, WV 26301
(b) Name
Address
(c) Name
Address

5) (a) Coal Operator
Name: Dominion Transmission, Inc.
Address: 445 West Main Street
Clarksburg, WV 26301
(b) Coal Owner(s) with Declaration
Name
Address
Name
Address
(c) Coal Lessee with Declaration
Name
Address

6) Inspector: Barry Stollings
Address: 28 Conifer Drive
Bridgeport, WV 26330
Telephone: 304-552-4194

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

(1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
(2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

OFFICIAL SEAL
NOTARY PUBLIC
State of West Virginia
BEVERLY D. LOWE
Dominion Transmission, Inc.
445 West Main Street
Clarksburg, WV 26301
My Commission Expires December 17, 2020

Well Operator: Dominion Transmission, Inc.
By: James D. Blasingame — James D. Blasingame 4/14/14
Its: Director of Storage
Address: 445 West Main Street
Clarksburg, WV 26301
Telephone: 304-624-8000

Received
Office of Oil & Gas
JAN 20 2015

Subscribed and sworn before me this 14th day of April 2014
Beverly D. Lowe Notary Public
My Commission Expires December 17, 2020

Oil and Gas Privacy Notice

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

OFFICIAL SEAL
NOTARY PUBLIC
West Vir

My Commission Expires December 14, 2020

4101275P

SURFACE OWNER WAIVER

Operator's Well Number 13061

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

1) The proposed well work will constitute a hazard to the safety of persons.
2) The soil erosion and sediment control plan is not adequate or effective;
3) Damage would occur to publicly owned lands or resources;
4) The proposed well work fails to protect fresh water sources or supplies;
5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON ETC.

James D. Blasingame Date 4/14/14
Signature

FOR EXECUTION BY A CORPORATION,

Name James D. Blasingame
By JAMES D. BLASINGAME
Its DESIGNATED AGENT, DTI Date 4/14/14
Signature Date

Received
Office of Oil & Gas
JAN 20 2015

4101275P

WW-4B

API No. 47-041-01275
Farm Name Droppleman
Well No. 13061

INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less then five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator X / owner X / lessee ____/ of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 4/14/14

JAMES D. BLASINGAME
By: James D. Blasingame
Its DESIGNATED AGENT, DTI

Received
Office of Oil & Gas
JAN 20 2015

4101275P

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 041 - 01275
Operator's Well No. 13061

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

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

Operator Name Dominion Transmission, Inc. OP Code 307048

Watershed Buck Run of Fink Creek Quadrangle New Milton, WV 7.5'

Elevation 977.51 County Lewis District Freemans Creek

Description of anticipated Pit Waste: _____

Will a synthetic liner be used in the pit? No - Tanks to be Utlized

Proposed Disposal Method For Treated Pit Wastes:

_____ Land Application
_____ Underground Injection (UIC Permit Number _____)
_____ Reuse (at API Number _____)
_____ Off Site Dispposal (Supply form WW-9 for disposal location)
X Other (Explain Meadowfill Landfill, Bridgeport WV

Proposed Work For Which Pit Will Be Used:

_____ Drilling _____ Swabbing
_____ Workover X Plugging
_____ Other (Explain _____

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

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

Company Official Signature James D. Blasingame 4/14/14

Company Official (Typed Name) James D. Blasingame

Company Official Title Director of Storage

Subscribed and sworn before me this 14th day of April, 20 14

Beverly D. Lowe Notory Public

Received
Office of Oil & Gas
JAN 20 2015

My commission expires December 17, 2020

OFFICIAL SEAL
NOTARY PUBLIC
State of West Virginia
BEVERLY D. LOWE
Dominion Transmission Inc.
445 West Main Street
Clarksburg, WV 26301
My Commission Expires December 17, 2020

OFFICIAL SEAL
NOTARY PUBLIC
State of West Virginia
BEVERLY D. LOWE
Dominion Transmission Inc.
445 West Main Street
Clarksburg, WV 26301
My Commission Expires December 17, 2020

4012750

Form WW-9

Operator's Well No. 13061

LEGEND

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

Diversion
Spring
Wet Spot
Drain Pipe with size in inches 12
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 1.00+- Prevegetation pH _____

Lime 3.0 Tons/acre or to correct to pH 6.5

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

Mulch Hay or Straw Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/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.

Plan Approved by: Barry Stump

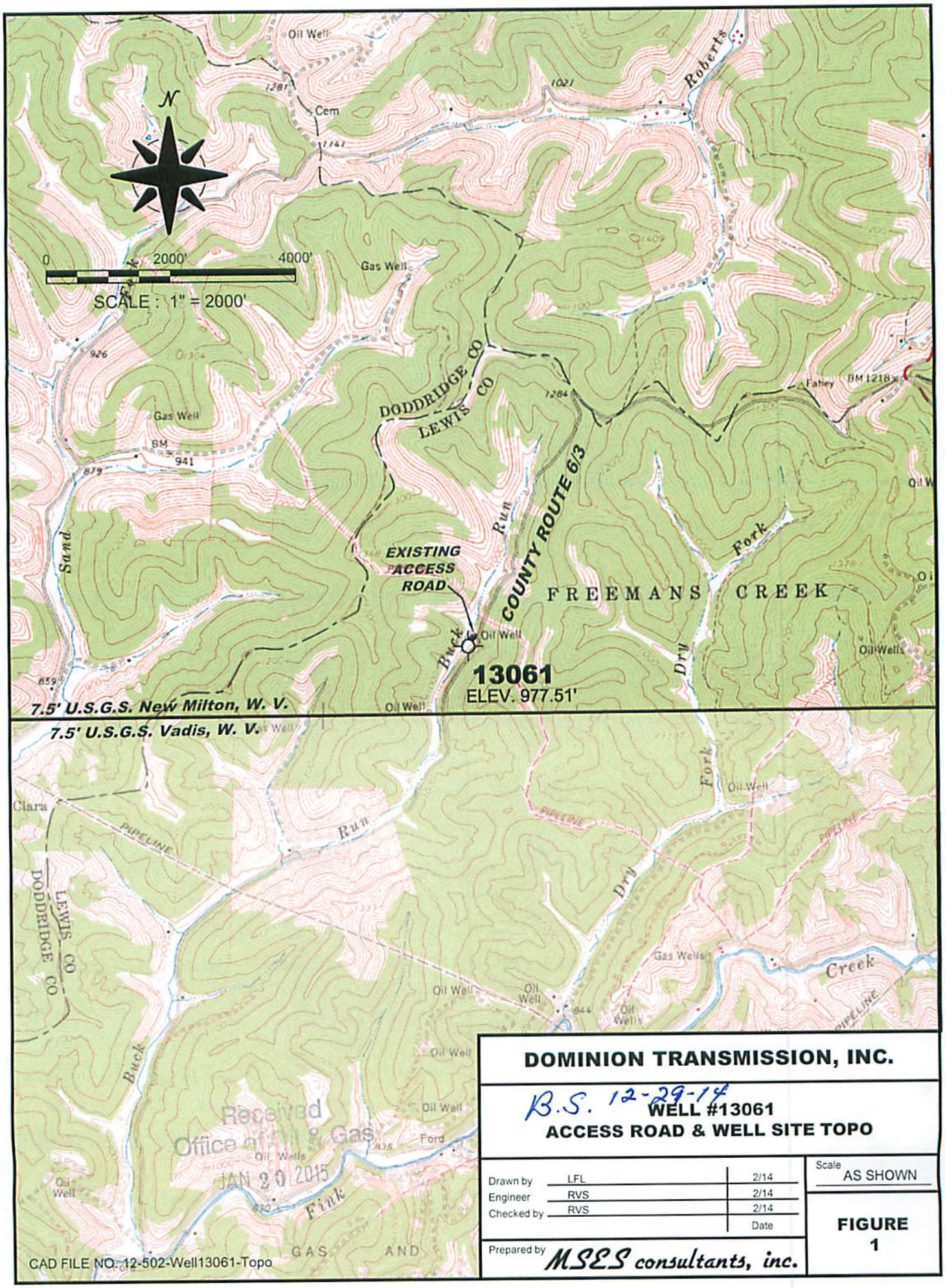
Comments:

Received
Office of Oil & Gas
JAN 20 2015

Title: inspector Date: 12-29-14

Field Reviewed? (✓) Yes ( ) No

4101275P



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Office of Oil & Gas
JAN 20 2015

CAD FILE NO. 12-502-Well13061-Topo

DOMINION TRANSMISSION, INC.

B.S. 12-29-14

WELL #13061

ACCESS ROAD & WELL SITE TOPO

Drawn by	LFL	2/14	Scale AS SHOWN
Engineer	RVS	2/14	
Checked by	RVS	2/14	
		Date	**FIGURE 1**

Prepared by *MSES consultants, inc.*

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

LATITUDE 39°10'00"

9,450'

14,080'

LONGITUDE 80°37'30"

WELL 13061	
NAD 83	LAT. 39°07'41.31" LONG. 80°39'29.29"
UTM NAD 83 (METERS)	N4331052.3894 E529549.1601

NORTH

BYRD M. MILLER
TAX MAP 2-B PARCEL 2
105 ACRES

BETTY FLANAGAN, ET AL
TAX MAP 10 PARCEL 15
98.44 ACRES

Doddridge Co.
Lewis Co.

FRANK A. ALTOMARE, JR., ET AL
TAX MAP 2-B PARCEL 5
90.90 ACRES

DOMINION TRANSMISSION, INC.
TAX MAP 2-B PARCEL 3
61.75 ACRES

DOMINION TRANSMISSION, INC.
TAX MAP 2-B PARCEL 4
29.28 ACRES

HFP, LLC.
TAX MAP 2-B PAR. 6
129.5 ACRES

HAROLD R. & SANDRA L. MILLER
TAX MAP 2-C PARCEL 16
156 ACRES

13061
ELEV. 977.51'

S79°54'50"W 1025.06'

S16°14'05"W 962.16'

N44°50'35"W 1049.69'

5/8" REBAR

STONE (FND)

N73°39'29"W 2920.50'

S74°36'29"E 2621.52'

S1°20'31"W 846.94'

S0°20'31"W 198.00'

N78°31'07"W 1485.56'

N51°03'17"W 1480.56'

N68°07'17"W 735.95'

N33°23'17"W 985.56'

N10°34'15"E 712.05'

N60°42'50"E 916.71'

S11°50'31"W 363.00'

N86°57'18"E 682.91'

S80°17'34"E 545.80'

S47°15'05"E 588.91'

S12°17'45"W 329.46'

S25°18'26"E 1565.10'

S16°36'13"E 1089.96'

S37°20'47"W 874.33'

S31°25'11"W 1248.38'

41-4235
41-4208
41-4305
41-1429
41-04260
41-04236
41-1958
41-4174
41-1520
41-4148
41-1341
41-1487
41-4106

Buck Run

6
3

7.5'

04235
4208
04305
04260
04236
01429
02746
1958
2400'
13061
04174
30160 O
01520
4148
01341
1487
04106

MSES consultants, inc.

FILE NO. 12-502-WellPlat-13061
DRAWN BY RRC / MVS/LFL
SCALE 1" = 500'
MIN. DEGREE OF ACCURACY 1 IN 2500
PROVEN SOURCE OF ELEVATION:
DGPS (SUBMETER MAPPING GRADE)

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

(SIGNED) Richard R. Castel

R.P.E. . L.L.S. 864

RICHARD R. CASTEEL
LICENSED
No. 864
STATE OF WEST VIRGINIA
PROFESSIONAL SURVEYOR

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS DIVISION

STATE OF WEST VIRGINIA — MONTANI SEMPER LIBERI

DATE FEBRUARY 17 20 14

OPERATOR'S WELL NO. 13061

API WELL NO.

47	041	01275 P
STATE	COUNTY	PERMIT NO.

WELL TYPE: OIL ☐ GAS ☒ LIQUID INJECTION ☐ WASTE DISPOSAL ☐

IF "GAS", PRODUCTION ☒ STORAGE ☐ DEEP ☐ SHALLOW ☒

LOCATION: ELEVATION 977.51' WATERSHED BUCK RUN OF FINK CREEK

DISTRICT FREEMANS CREEK COUNTY LEWIS

QUADRANGLE NEW MILTON NEAREST TOWN FINK

SURFACE OWNER DOMINION TRANSMISSION, INC. ACREAGE 61.75

OIL & GAS ROYALTY OWNER DOMINION TRANSMISSION, INC. LEASE ACREAGE 61.75

LEASE NO. ---------- ----------

PROPOSED WORK: DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☐

PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐

OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUG AND ABANDON ☒ CLEAN OUT AND REPLUG ☐

TARGET FORMATION GANTZ ESTIMATED DEPTH 2414'

WELL OPERATOR DOMINION TRANSMISSION, INC. DESIGNATED AGENT MR. JAMES D. BLASINGAME

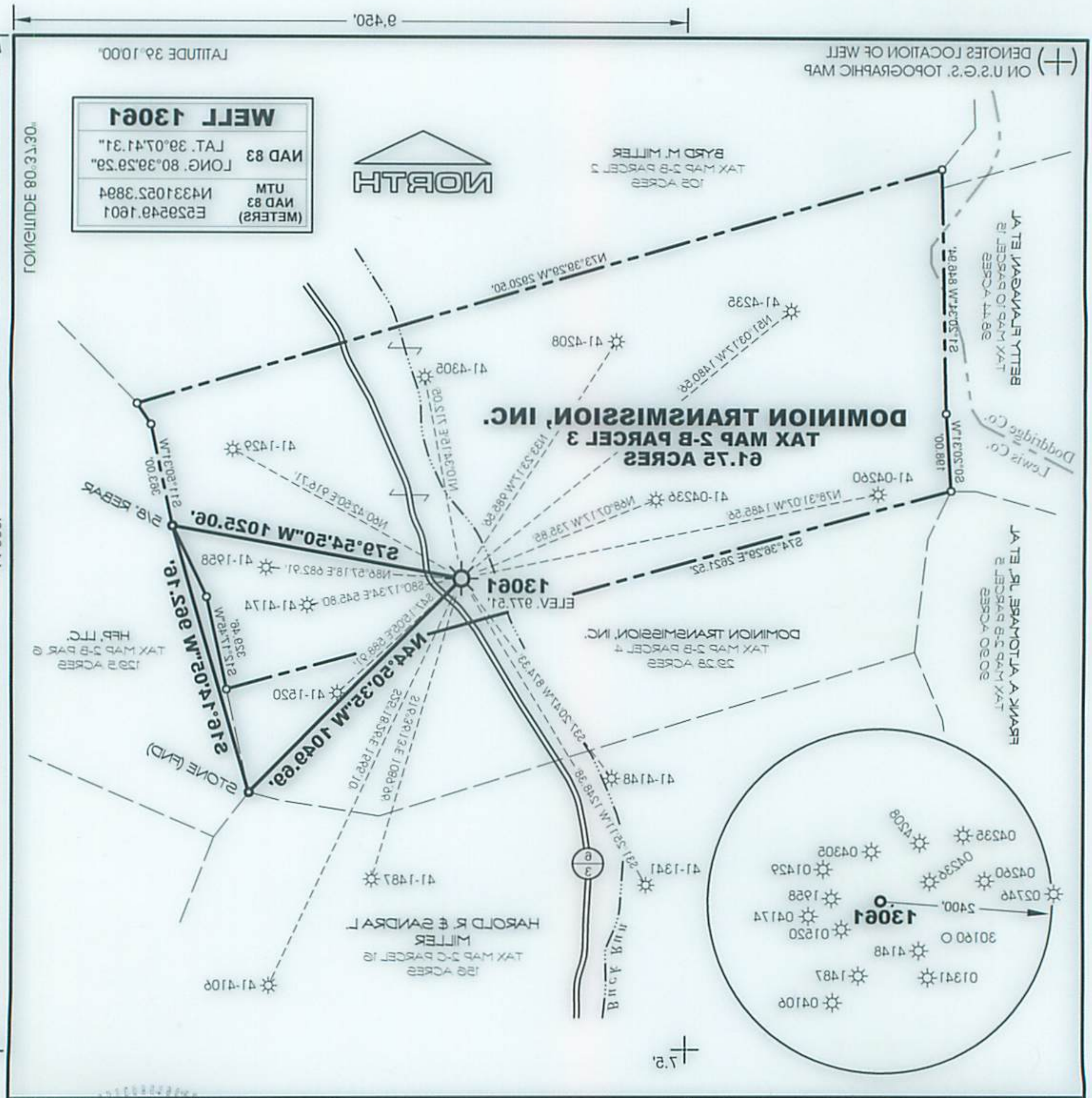
ADDRESS 445 WEST MAIN STREET ADDRESS 445 WEST MAIN STREET

CLARKSBURG, WV 26301 CLARKSBURG, WV 26301

COUNTY 041

PERMIT NO. -

FORM IV-6



MSES consultants, inc.

FILE NO. 12-502-WellPlat-13061
DRAWN BY RRC / MVS/LFL
SCALE 1" = 500'
MIN. DEGREE OF ACCURACY 1 IN 2500
PROVEN SOURCE OF ELEVATION:
DGPS (SUBMETER MAPPING GRADE)

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

(SIGNED) Richard R. Castel

R.P.E. . L.L.S. 864

RICHARD R. CASTEEL LICENSED No. 864 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

STATE OF WEST VIRGINIA MONTANI SEMPER LIBERI

DATE FEBRUARY 17 20 14
OPERATOR'S WELL NO. 13061
API WELL NO.
47 041 01275 P
STATE COUNTY PERMIT NO.

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

LOCATION: ELEVATION 977.51' WATERSHED BUCK RUN OF FINK CREEK
DISTRICT FREEMANS CREEK COUNTY LEWIS
QUADRANGLE NEW MILTON NEAREST TOWN FINK
SURFACE OWNER DOMINION TRANSMISSION, INC. ACREAGE 61.75
OIL & GAS ROYALTY OWNER DOMINION TRANSMISSION, INC. LEASE ACREAGE 61.75
LEASE NO. ---------- ----------

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

TARGET FORMATION GANTZ ESTIMATED DEPTH 2414'
WELL OPERATOR DOMINION TRANSMISSION, INC. DESIGNATED AGENT MR. JAMES D. BLASINGAME
ADDRESS 445 WEST MAIN STREET ADDRESS 445 WEST MAIN STREET
CLARKSBURG, WV 26301 CLARKSBURG, WV 26301

COUNTY 041
PERMIT NO.
FORM IV-6

4101275P

MSES consultants, inc.

609 West Main Street • P.O. Drawer 190 • Clarksburg, WV 26302-0190
304.624.9700 • 304.622.0981 • 304.842.3325 • http://www.msesinc.com
Office Fax 24 Hour World Wide Web

January 15, 2015
Project No.: 12-502

Permit Application Section
Office of Oil and Gas
State of West Virginia
Department of Environmental Protection
601 57th Street Southeast
Charleston, West Virginia 25304

NOTICE OF APPLICATION TO PLUG AND ABANDON
API WELL NO.: 47-041-01275
DOMINION TRANSMISSION, INC.

Dear Permit Application Section:

On behalf of Dominion Transmission Inc. (Dominion), MSES consultants, inc. (MSES) is submitting this Notice of Application to Plug and Abandon Dominion Well 13061, API Well No. 47-041-01275, Freemans Creek District, Lewis County, West Virginia.

The following information is provided for this Application to plug and abandon Dominion Well 13061, API Well No. 47-041-01275.

API No.	47-041-01275
Well Operator	Dominion Transmission, Inc.
Well Operator's Well Number	13061
Plugging Application Forms	
WW-4A	Completed/Enclosed/Signed
WW-4B	Completed/Enclosed/Signed by Inspector
Surface Owner Waiver	Completed/Enclosed/Signed
Drinking Water Wells	No Water Wells Found Within 2,000' of Well to be Plugged
Coal Owner/Operator/Lessee Waiver	Completed/Enclosed/Signed
WW-9 and Supporting Information	Completed/Enclosed/Signed by Inspector
Mylar Plat	Completed/Enclosed
Well Records/Completion Report	Enclosed
Topography Map of Well & Pit if Pit Issued	Enclosed/No Pit Off-Site Disposal/Signed by Inspector
Certified Mail Receipts of Affidavit of Personal Service	Dominion Owner of Surface and Operator of Coal Forms Signed
Bond	Dominion's Bond on File
Check	No Check Enclosed, No Pit to be Used – Disposal Off-Site

Received
Office of Oil & Gas
JAN 20 2015

4101275P

The original Notice of Application and one copy is provided with this transmittal.

Should you have questions or need further information, please contact:

Mr. Mathew Goralczyk
Gas Storage Department
Dominion Transmission, Inc.
445 West Main Street
Clarksburg, WV 26301

The permit to plug and abandon Well API-47-041-01275, Dominion Well 13061 should be sent to Mr. Mathew Goralczyk at the address above.

Thank you.

Sincerely,

Lawrence M. Rine
Senior Project Manager

LMR/dlb

cc: Mr. Mathew Goralczyk, Dominion Transmission, Inc.

Received
Office of Oil & Gas
JAN 20 2015

MSES