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west virginia department of environmental protection

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

Jim Justice , Governor  
Austin Caperton , Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Thursday, January 19, 2017  
WELL WORK PERMIT  
Vertical / Plugging

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


BRIDGEPORT, WV 26330

Re: Permit approval for 8169  
47-033-01600-00-00

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: 8169  
Farm Name: BURNSIDE, W.  
U.S. WELL NUMBER: 47-033-01600-00-00  
Vertical / Plugging  
Date Issued: 1/19/2017

Promoting a healthy environment.

01/20/2017

## PERMIT CONDITIONS

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

### CONDITIONS

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

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_ / Gas X / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production X or Underground storage \_\_\_ ) Deep \_\_\_ / Shallow X

5) Location: Elevation 1248' Watershed West Fork River  
District Union County Harrison Quadrangle West Milford 7.5'

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

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

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

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

Work order approved by inspector

[Signature] RECEIVED  
Office of Oil and Gas Date 11/17/2016

NOV 28 2016

WV Department of  
Environmental Protection

8169

Plugging ProcedureCasing Strings

10-3/4" casing seat @ 303' (casing pulled)

8-5/8" casing @ 1006' (set on BHP) - PULLED

7" casing @ 1495' (set on BHP) @ 1509.33

5-1/2" casing @ 2068' (set on BHP)

2-3/8" tubing @ 3043' (packer @ 2131')

TD @ 3043'

TOP OF SHOT 3018'

BOTTOM OF SHOT 3025'

Zones of InterestDunkard: 350' – 595' (oil @ 360' – 380';  
385' – 470')

Salt Sand: 795' – 1018' (oil @ 880' – 898')

Sea level @ 1254'

Maxon: 1347' – 1410' (gas @ 1372' – 1387')

Injun: 1493' – 1645' (gas @ 1545')

Gantz: 1819' – 1842'

Fourth Sand: 2166' – 2219' (gas @ 2202')

Fifth Sand: 2315' – 2332' (gas @ 2317' – 2327')

Speechley: 3016' – 3024' (gas @ 3020')

\*No record of fresh water or salt water

- File for and receive all necessary regulatory agency authorizations.
- Upgrade well site. Install well cellar and site containment.
- Move in service rig and ancillary equipment.
- Utilize appropriate well control equipment and diverters during plugging operations.
- Pull 2-3/8" tubing and packer.
- TIH w/ plugging string to as near TD as possible ( $\pm 3043'$ ).
- Load well w/ 6% bentonite gel.
- Spot balanced Class A cement plug from as near TD as possible ( $\pm 3043'$ ) to  $\pm 2900'$  (covers Speechley interval).
- Pull to  $\pm 2380'$ .
- Spot balanced Class A cement plug f/  $\pm 2380'$  – t/  $\pm 2018'$  (covers Fourth and Fifth Sand intervals & 5-1/2" casing seat intervals).
- TOH w/ plugging string.
- Pull free point on 5-1/2" casing (maximum pull required, based on casing weight = 52,000#).
- Cut and pull free 5-1/2" casing.

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- If casing cannot be pulled below 1900', zones of concern that may require perforation are: Gantz @ 1819' – 1842'; Injun (gas @ 1545'); 7" casing seat @ 1495'.
- TIH w/ plugging string to  $\pm 1900'$  or 5-1/2" casing top, whichever is deeper.
- A balanced Class A cement plug will need to be spotted across the 5-1/2" casing cut (50' above and 50' below the casing cut). Depending on depth of actual casing top, this plug will need added to the next interval of plugging. This plug may be done individually or may be incorporated into any of the other planned plugs: Gantz and Injun.
- Spot balanced Class A cement plug f/  $\pm 1900'$  – t/  $\pm 1450'$  (covers Gantz, Injun, and 7" casing seat intervals).
- TOH w/ plugging string.
- Pull free point in 7" casing (maximum pull required = 44,000#).
- If casing cannot be pulled below 1430', zones of concern that may require perforation are: Maxon (gas @ 1372' – 1387'); sea level @ 1254'; 8-5/8" casing seat @ 1006'. A balanced Class A cement plug will need to be spotted across the 7" casing cut (50' above and 50' below the casing cut). Depending on depth of actual casing top, this plug will need added to the next interval of plugging. This plug may be done individually or may be incorporated into any of the other planned plugs
- TIH w/ plugging string to  $\pm 1450'$ .
- Spot balanced Class A cement plug f/  $\pm 1450'$  – t/  $\pm 1200'$  (covers Maxon and sea level intervals).
- TOH w/ plugging string.
- Pull free point on 8-5/8" casing (maximum pull required = 44,000#). 8 5/8" ALREADY PULLED ACCORDING TO WELL RECORDS.
- If casing cannot be pulled below 950', zones of concern that may require perforation are: Salt Sand (oil @ 880' – 898'); Dunkard (oil @ 360' – 470'); top 100' of wellbore. A balanced Class A cement plug will need to be spotted across the 8-5/8" casing cut (50' above and 50' below the casing cut). Depending on depth of actual casing top, this plug will need added to the next interval of plugging. This plug may be done individually or may be incorporated into any of the other planned plugs
- TIH w/ plugging string to  $\pm 1060'$ .
- Spot balanced Class A cement plug f/  $\pm 1060'$  – t/ 830' (covers 8-5/8" casing seat and Salt Sand intervals).
- Pull to  $\pm 520'$ .
- Spot balanced Class A cement plug f/  $\pm 520'$  – t/  $\pm 310'$  (covers Dunkard interval).
- Pull to  $\pm 100'$ .

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- Spot balanced Class A cement plug f/  $\pm 100'$  – t/ surface (covers surface plug requirement).
- TOH w/ plugging string.
- Rig down and move out service rig equipment.
- Remove site containment and well cellar.
- Reclaim well site and install well monument in compliance with §22-6-24(c).
- File WV DEP forms WR-34 and WR-38.

81:00

# Reserve Gas Company

Well No. 430 Wm. Burnside Farm Jan. 15th. 1920

District Harrison Commenced

N S 20 E 9 W REPAIRS Completed Jan. 13th. 1920

### CASING AND TUBING RECORD

Size	Before Repairs	Pulled	Put in Well	After Repairs	Disposition of Amount Pulled
8 1/2	1006	1006			Stock at Well # 430
65/8	1495		13.4/12	1508.4/12	
53/16	2068			2068.	
2"			3050	3050	
2"	Perf. 15.6/12		19.6/12	19.6/12	

### VOLUME AND PRESSURE TEST

BEFORE REPAIRS					AFTER REPAIRS				
Reading	Liquid	Opening	Rock or Mixture Pressure	Pounds	Reading	Liquid	Opening	Rock or Mixture Pressure	Pounds
6/10	Water	1/2"	1 hr.	32#	23/10	Water	2"	5th & Speechley 1 Hr	114 #

### RECORD OF ANY DEEPER DRILLING

Formation	Top	Bottom
Commenced drilling at depth of	2337	
Speechley	3016	3024
Total Depth	3043	

#### Names of Drillers

#### Time (Days)

O.B. Middleton  
~~Wm. Brown~~  
Wm. Brown

#### Names of Tool Drawers

#### Time (Days)

Wm. Armstrongs  
C.E. Soumerville

### PACKER RECORD

Size	Kind	Anchor	Amount Above Anchor
65/8 x 8 1/2	B.H. Packer		
53/16 x 65/8	B.H. Packer		
53/16 x 2"	Anch. Packer	912 ft	2131 ft

### OIL AND GAS DISCOVERIES IN DEEPER DRILLING

Oil at	ft. in	Seals
Gas at	3020 ft. in	Speechley Seals

### SHOOTING RECORD

Date	Quarts	Top of Shell	Bottom of Shell	Diameter	Sand	TEST BEFORE SHOT			TEST AFTER SHOT			Time Taken After Shot (No. Hours)	Shot by
						Reading	Liquid	Opening	Reading	Liquid	Opening		
1-9-20	20	3018	3025	4 1/2	Spoh.	11/10	Water	2"	20/10	Water	2"	24	M.T.Co.

Remarks

*J. W. ...* Foreman

033-1000

Form 174  
 Well No. 430  
 Located on 11th  
 District 11th County HARRISON State W. Va.  
 Reserve: Case 8104  
 Company Harrison  
 District 033-1600  
 Location Made 8-23-1913  
 Rig Commenced Sept. 27-1913  
 Drilling Commenced 11-4-1913  
 Rig Contractor J. W. Harrison & Co.  
 Drillers J. C. Hayward & O. J. Burnside  
 Tool Chest J. C. Hayward & O. J. Burnside  
 First Work Done  
 Rig Completed Oct 3-1913  
 Drilling Completed 12-31-1914  
 Drilling Contractor O. J. Burnside  
 U. S. G. Co. Test. String No. O. J. Burnside

FORMATION	TOP	BOTTOM	Steel Line Measurements	Water Faced Depth	Oil Faced Depth	Gas Faced Depth	REMARKS
Native Coal							16 ft Conductor
Pittsburg Coal	<u>below</u>						
Little Shankland	<u>350</u>	<u>360</u>					Sand 380 to 385
Big Shankland	<u>290</u>	<u>595</u>					
Gas Sand	<u>616</u>	<u>660</u>	<u>616</u>				Sand 670 to 700
First Salt	<u>798</u>	<u>880</u>	<u>798</u>				
Second salt	<u>890</u>	<u>1018</u>	<u>890</u>				Sand 1100 to 1136
Maxon	<u>1347</u>	<u>1410</u>	<u>1347</u>				
Little Lime	<u>none</u>						
Pencil Cave	<u>1437</u>	<u>1442</u>	<u>1437</u>				
Pig Line	<u>1442</u>	<u>1493</u>	<u>1442</u>				
Big Injun	<u>1493</u>	<u>1645</u>	<u>1493</u>				20/10 water thru 1" pipe
Squaw	<u>1661</u>	<u>1671</u>	<u>1661</u>				
Berea	<u>none</u>						
Gantz	<u>1819</u>	<u>1842</u>	<u>1819</u>				Sand 1859 to 1874
Fifty Foot	<u>1917</u>	<u>1983</u>	<u>1917</u>				
Thirty Foot	<u>2010</u>	<u>2042</u>	<u>2010</u>				
Gordon Stray	<u>2064</u>	<u>2098</u>	<u>2064</u>				
Gordon	<u>2108</u>	<u>2150</u>	<u>2108</u>				
Fourth	<u>2166</u>	<u>2219</u>	<u>2166</u>				
Fifth	<u>2315</u>	<u>2332</u>	<u>2315</u>				2202 2317-2320-2327 } 36/10 water thru 5 7/16"
Hayard							
Total Depth			<u>2337</u>				

SIZE	Closed to Well		Put in Well		Pulled Out		Left in Well		Transferred Before Completing		Left in Well Not in Use		If more than two strings of casing are left in hole, give reasons for leaving additional strings
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	
13" Csg.													
10" "	<u>381</u>	<u>4</u>	<u>303</u>		<u>303</u>						<u>381</u>	<u>4</u>	
8 1/2" "	<u>1087</u>	<u>9</u>	<u>1006</u>				<u>1006</u>				<u>381</u>	<u>9</u>	
6 5/8" "	<u>1522</u>	<u>1</u>	<u>1495</u>				<u>1495</u>				<u>27</u>	<u>1</u>	
5 3/16" "	<u>2236</u>	<u>10</u>	<u>2068</u>				<u>2068</u>				<u>16</u>	<u>8</u>	<u>10</u>
Tub.													

PACKER RECORD

SIZE	KIND	Amount Ancher	Amount Above Ancher	REMARKS
<u>8 1/4 x 10</u>	<u>BH</u>		<u>1006</u>	<u>S. W. Packer</u>
<u>6 7/8 x 8 1/4</u>	<u>"</u>		<u>1495</u>	<u>"</u>
<u>5 7/16 x 6 7/8</u>	<u>"</u>		<u>2068</u>	<u>"</u>

SHOOTING RECORD (If shot before or upon completion of well)

DATE	Gauge	Top of Shot	Bottom of Shot	Diameter	Feed	Test Before Shot			Test After Shot			Total Time After Shot In Hours	By Whom Shot	
						Reading	Liquid	Opening	Reading	Liquid	Opening			

CEMENTING RECORD API - 033-1600

Date Cemented.....  
 Top Pittsburg Coal.....  
 Bottom Pittsburg Coal.....  
 Mr. \_\_\_\_\_  
 Remark: \_\_\_\_\_  
 Signature of persons who cemented well

WELL BOOK  
 LEASE RECORD  
 WALL TIME  
 LOCATION BOOK  
 CONTRACTOR  
 TITLE  
 APR 3 1914 H.H.S.

Approved by Chas. ... Foreman



# RESERVE GAS COMPANY

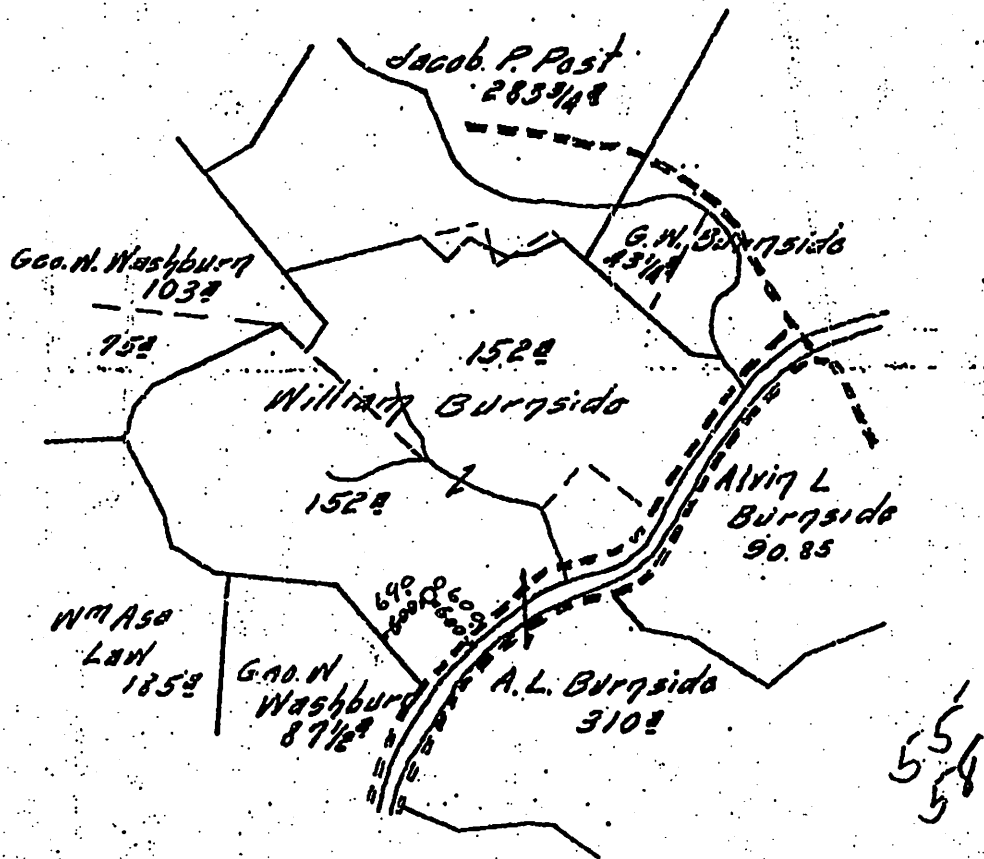
## LOCATION FOR WELL No. 430

On Five Burksides Farm, on waters of Three Fork  
Union District, Harrison County, West Virginia.

Lease No. 914 Acres 312 N. 20 S. 20 E. 9 W.

Scale, one inch equals 80 feet Sent to Clarkburg Office Aug. 1st 1913

Location to be Six hundred feet from Geo. W. Washburn farm  
and six hundred feet from West Fork River.



033-1600

TITLE \_\_\_\_\_  
 RESERVE 300 ft around buildings

SPECIAL INSTRUCTIONS: COMPLETE WELL ON OR BEFORE \_\_\_\_\_

Location made 8/22/13 by J. Shary As per plat, except as noted. On field map.  
8/28/13 Returned to Pittsburgh 8/28/13

Location changed on account of Meadow  
 Authorized by J. Shary Date 8/27/13 Signed J. H. Bradley

1) Date: 8/17/16 3301600P  
2) Operator's Well Number  
8169  
3) API Well No.: 47 - 033 - 01600

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

<p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>William Michael McDonald</u> Address <u>10637 Good Hope Pike</u> <u>Jane Lew, WV 26378</u></p> <p>(b) Name _____ Address _____</p> <p>(c) Name _____ Address _____</p>	<p>5) (a) Coal Operator</p> <p>Name <u>N/A (No Activity)</u> Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>Blackhawk Land and Resources, LLC</u> Address <u>3228 Summit Square Place</u> <u>Suite 180</u> <u>Lexington, KY 40509</u></p> <p>(c) Coal Lessee with Declaration</p> <p>Name <u>N/A</u> Address _____</p>
<p>6) Inspector <u>Sam Ward</u> Address <u>P.O. Box 2327</u> <u>Buckhannon, WV 26201</u> Telephone <u>304-389-7583</u></p>	

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

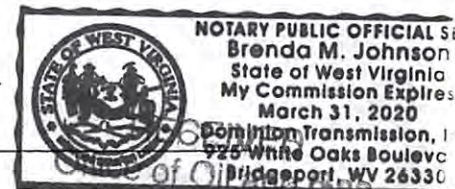
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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.

Well Operator Dominion Transmissions, Inc.  
 By: John M. Love  
 Its: Designated Agent  
 Address 925 White Oaks Blvd.  
Bridgeport, WV 26330  
 Telephone 681-842-3311

Subscribed and sworn before me this 18th day of November 2016  
Brenda M. Johnson - Notary Public  
 My Commission Expires March 31, 2020



**Oil and Gas Privacy Notice**

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

NOV 28 2016  
 WV Department of  
 Environmental Protection

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 (IUC 10) West Fork River Quadrangle West Milford 7.5

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

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: N/A

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

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 AST: Hired out to Valcor Env. Service, 515 8th Ave., Huntington, WV 25701)

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

*SDW  
11/7/2016*

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

-If oil based, what type? Synthetic, petroleum, etc. No fluids will be used

Additives to be used in drilling medium? N/A

*NO PIT ON THIS LOCATION,  
THEREFORE CUTTINGS & WELL  
EFFLUENT CONTAINED IN TANK  
MUST BE DISPOSED OF  
OFFSITE, PROPERLY.*

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

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Cement

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

*gwm*

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

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

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

Company Official Signature *[Signature]*

Company Official (Typed Name) John M. Love

Company Official Title Designated Agent

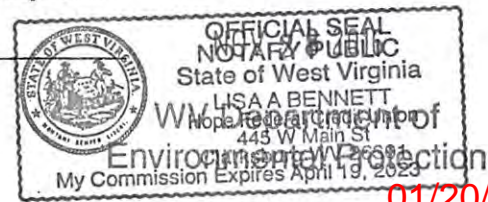
Subscribed and sworn before me this 22 day of November, 2016

RECEIVED  
Office of Oil and Gas

Lisa A. Bennett

Notary Public

My commission expires April 19, 2023



01/20/2017

LEGEND

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

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

Proposed Revegetation Treatment: Acres Disturbed 6.8 +/- Prevegetation pH 6.5

Lime 3 Tons/acre or to correct to pH 6.5

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

Mulch HAY 2 Tons/acre

Seed Mixtures

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

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

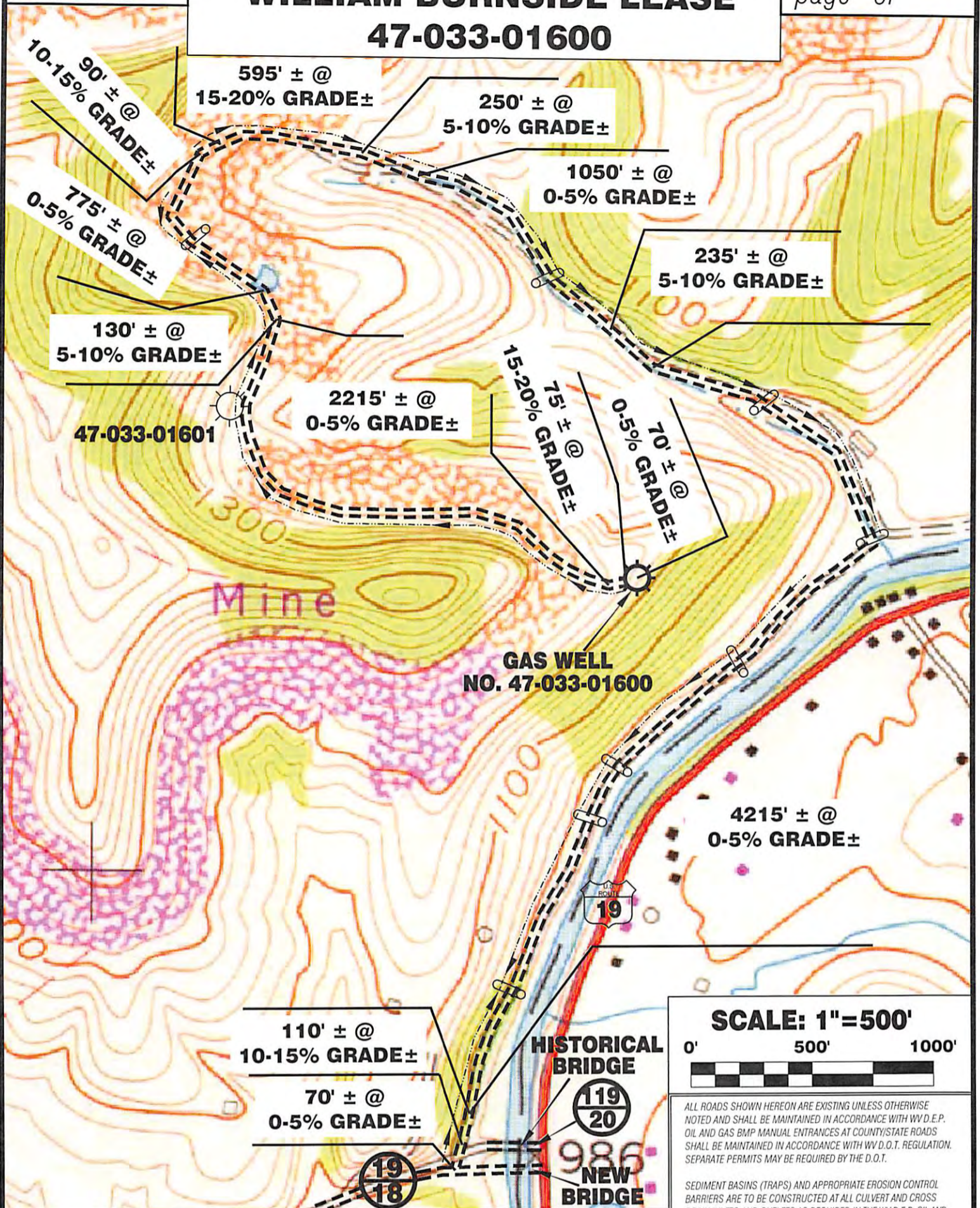
Comments: \_\_\_\_\_

Title: OOG Inspector

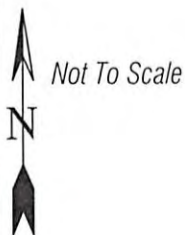
Date: 11/7/2016

Field Reviewed? ( ) Yes ( X ) No

# WILLIAM BURNSIDE LEASE 47-033-01600

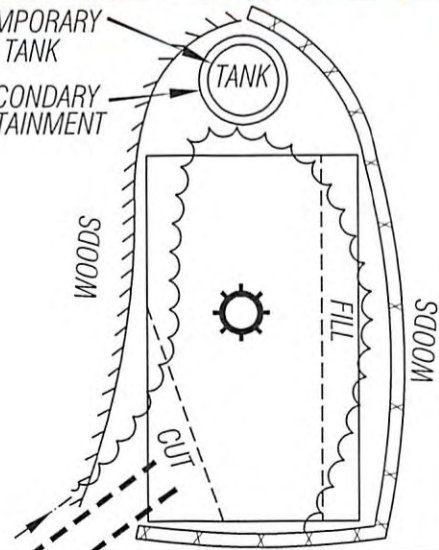


Detail Sketch for 47-033-01600



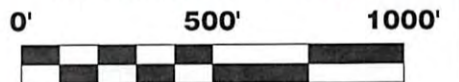
PROPOSED TEMPORARY FLOW BACK TANK

SECONDARY CONTAINMENT



TOPO SECTION OF WEST MILFORD  
7.5' TOPO QUADRANGLE

**SCALE: 1"=500'**



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

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

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

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

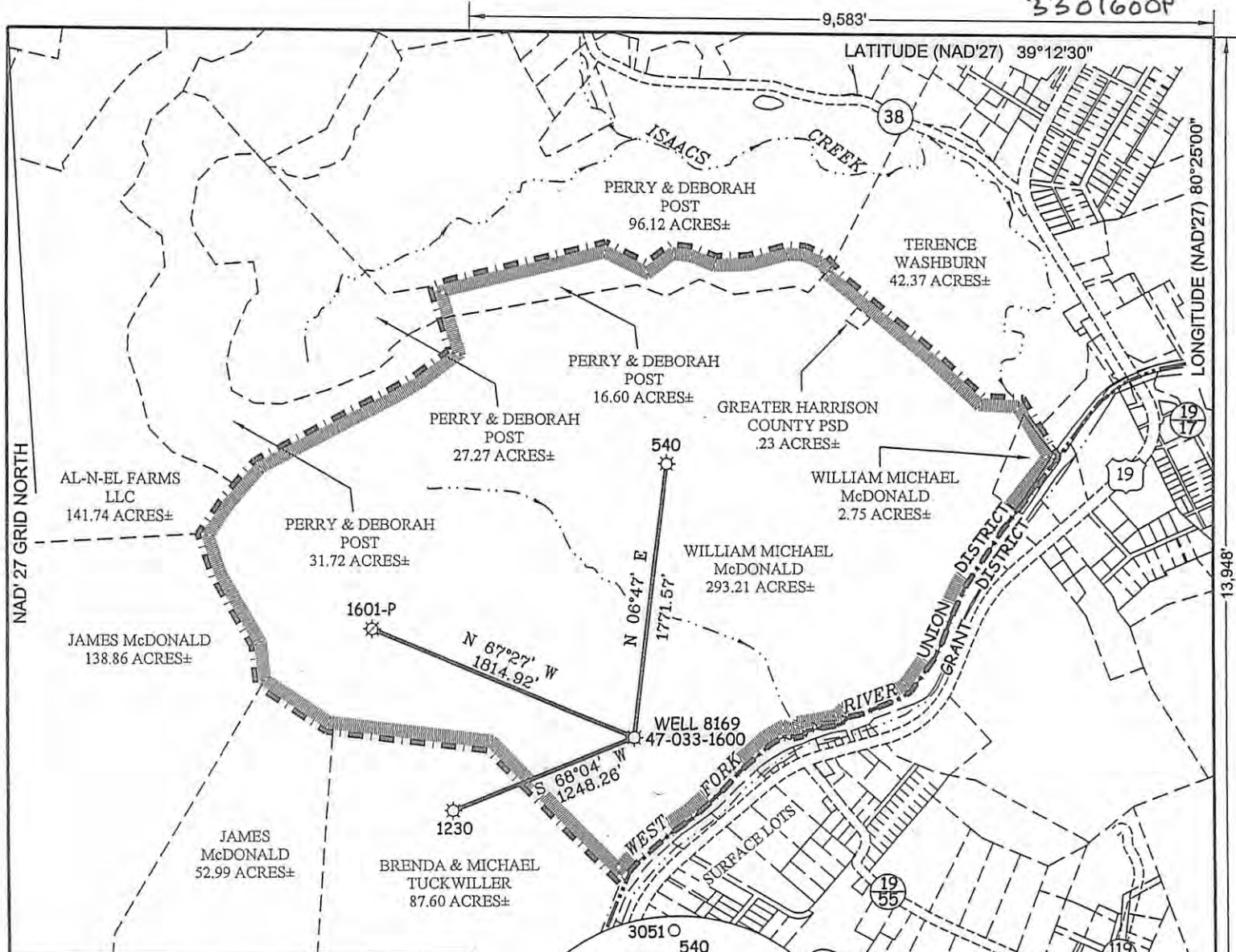
01/20/2017

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES).

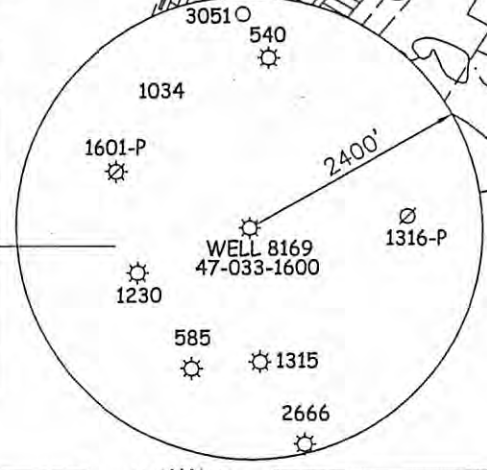
- = EXISTING CULVERT
- = PROPOSED CULVERT 15' MIN. UNLESS OTHERWISE NOTED
- = PROPOSED STREAM CROSSING
- = APPROXIMATE LIMITS OF DISTURBANCE

**SLS**  
Land & Energy Development  
Solutions from the ground up.  
P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26351 • (204) 462-5634  
www.slsurveys.com

DRAWN BY K.D.W.	FILE NO. 8583	DATE 11-01-16	CADD FILE: 8583REC.dwg
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**DOMINION TRANSMISSION INC.**  
**WELL 8169**  
**47-033-01600**  
 (S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
 NAD'27 S.P.C.(FT) N. 245,468 E. 1,730,524  
 NAD'27 GEO. LAT-(N) 39.17004 LONG-(W) 80.45047  
 NAD'83 UTM (M) N. 4,335,800 E. 547,487

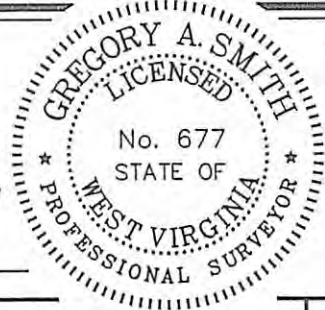


**LEGEND**

LEASE LINE	---
SURFACE LINE	----
WELL LATERAL	-----
OFFSET LINE	- - - - -
TIE LINE	.....
CREEK	~~~~~
ROAD	=====
FENCE LINE	-----x-----
COUNTY ROUTE	-----o-----
STATE ROUTE	-----o-----
PROPOSED WELL	☼
EXISTING WELL	⊙
PERMITTED WELL	○

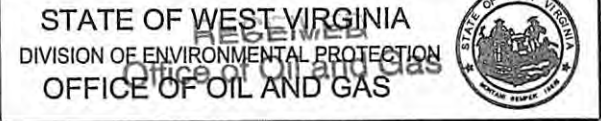
I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677  
*Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE AUGUST 16, 20 16  
 REVISED \_\_\_\_\_, 20 \_\_\_\_  
 OPERATORS WELL NO. 8169  
 API WELL NO. 47 - 033 - 01600  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8583P1600(577-32)  
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (MAPPING GRADE TIE TO CORS NETWORK) SCALE 1" = 1000'



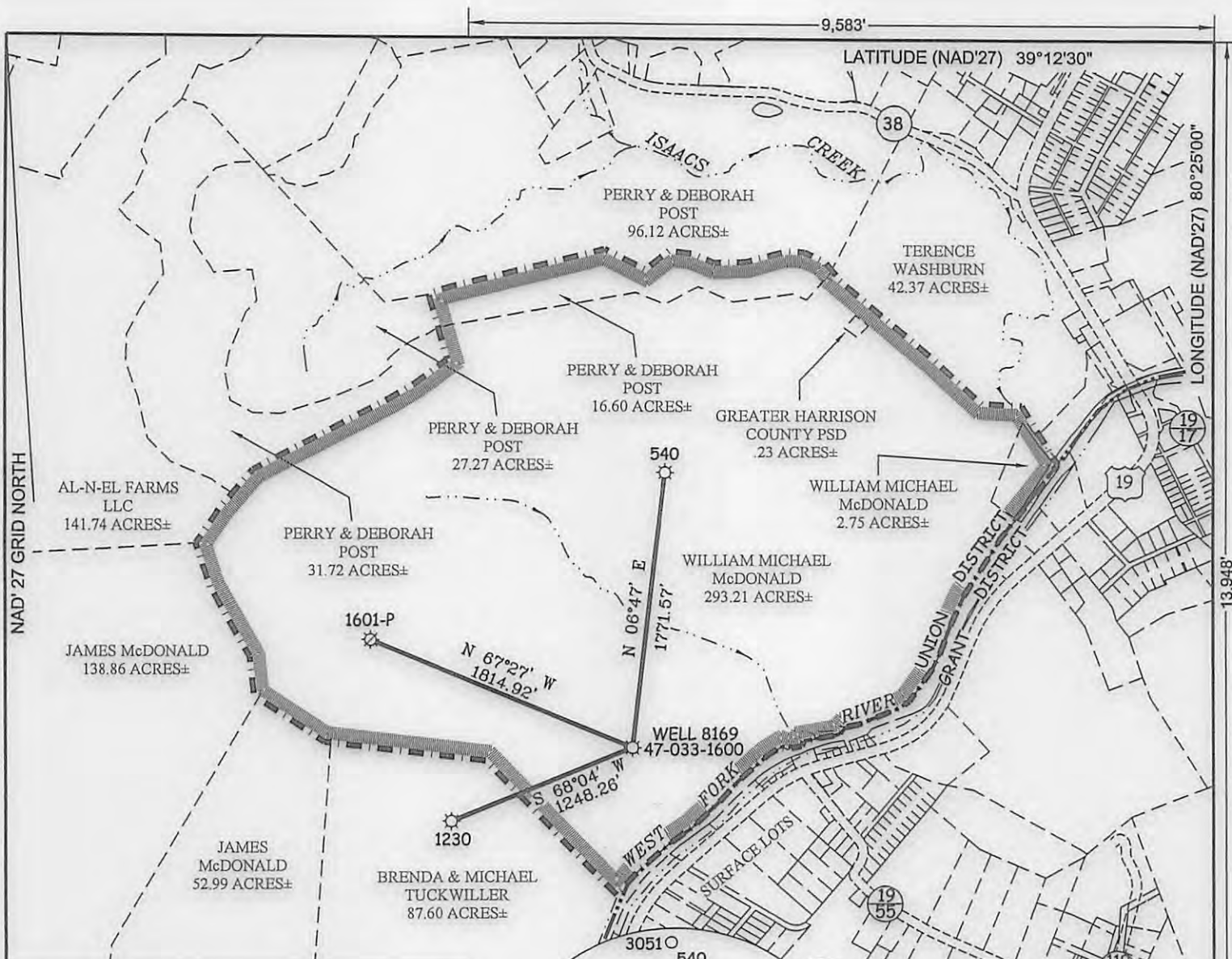
WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ IF "GAS" PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

LOCATION: ELEVATION 1248' WATERSHED WEST FORK RIVER DISTRICT UNION COUNTY HARRISON QUADRANGLE WEST MILFORD 7.5'

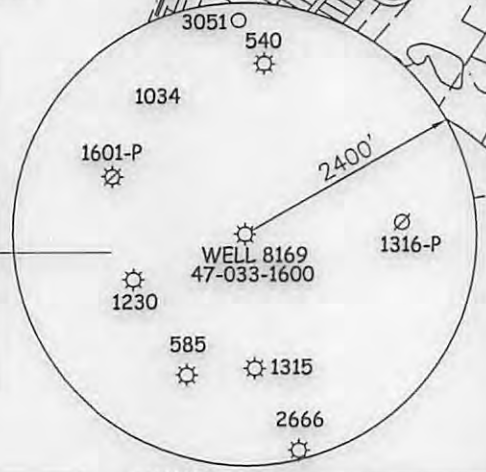
SURFACE OWNER WILLIAM MICHAEL McDONALD ACREAGE 293.21±  
 ROYALTY OWNER WILLIAM BURNSIDE (OR HEIRS/ASSIGNS) ACREAGE 312± LEASE NO. 01/20/2017

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ PLUG AND ABANDON X CLEAN OUT AND REPLUG \_\_\_ OTHER \_\_\_  
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION SPEECHLEY ESTIMATED DEPTH 3,043'

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



**DOMINION TRANSMISSION INC.**  
**WELL 8169**  
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 (S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)  
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**LEGEND**


LEASE LINE	---
SURFACE LINE	----
WELL LATERAL	- - - -
OFFSET LINE	· · · ·
TIE LINE	— · — · — ·
CREEK	~~~~~
ROAD	=====
FENCE LINE	x x x x
COUNTY ROUTE	○
STATE ROUTE	□
PROPOSED WELL	⊙
EXISTING WELL	⊛
PERMITTED WELL	○



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE AUGUST 16, 20 16  
 REVISED \_\_\_\_\_, 20 \_\_\_\_\_  
 OPERATORS WELL NO. 8169  
 API WELL NO. 47 — 033 — 01600  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8583P1600(577-32)  
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (MAPPING GRADE TIE TO CORS NETWORK) SCALE 1" = 1000'

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



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

**LOCATION:**  
 ELEVATION 1248' WATERSHED WEST FORK RIVER  
 DISTRICT UNION COUNTY HARRISON QUADRANGLE WEST MILFORD 7.5'

SURFACE OWNER WILLIAM MICHAEL McDONALD ACREAGE 293.21±  
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 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION SPEECHLEY  
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**ADDRESS** 925 WHITE OAKS BOULEVARD BRIDGEPORT, WV 26330 **ADDRESS** 925 WHITE OAKS BOULEVARD BRIDGEPORT, WV 26330

SLS

COUNTY NAME PERMIT