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**west virginia** department of environmental protection

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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

June 04, 2013

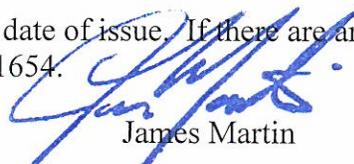
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-4102307, 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 penalties 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: 7896

Farm Name: EVANS, SUZANNE LYNN

**API Well Number: 47-4102307**

**Permit Type: Plugging**

Date Issued: 06/04/2013

**Promoting a healthy environment.**

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4102307P

WW-4B  
Rev. 2/01

1) Date May 8, 2013  
2) Operator's  
Well No. 7896  
3) API Well No. 47-041 - 02307

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 X ) Deep \_\_\_ / Shallow \_\_\_

5) Location: Elevation 1293.14' Watershed Mare Run of Freemans Creek  
District Valley Chapel County Lewis 41 Quadrangle Camden, WV 7.5' 276  
FREEMANS CREEK 03

6) Well Operator Dominion Transmission, Inc. 7) Designated Agent James D. Blasingame  
Address 445 West Main Street Address 445 West Main Street  
Clarksburg, WV 26301 Clarksburg, WV 26301

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Mr. Barry Stollings Name Unknown  
Address P.O. Box 1228 Address \_\_\_\_\_  
Chapmanville, WV 25508

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

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

Received

MAY 23 2013

Work order approved by inspector Bill Hatfield Date 5/20/13  
Office of Oil and Gas  
WV Dept. of Environmental Protection

gwm 00&G 6/4/2013

4102307A

Well 7896 (Storage Credit Well)

API# 47-041-02307

FKLC Storage

2013 P&A Procedure

OK  
gwm

**Purpose:** The purpose of this work is to P&A Fink Storage Credit well #7896 due to a slip causing wellbore to lean significantly downhill.

**Well Information:** 10-3/4" Casing set at 153' (1916)  
8-5/8" Casing set at 1066' (1916)  
7" Casing set at 1633' (1916)  
Gantz (Berea) OH Completion from 1866'- 1887'  
Fifty Foot Sand 2001'- 2009'  
Gordon Stray 2108'- 2148'  
Forth Sand 2168'- 2246'  
Fifth Sand 2377'- 2393'  
Well TD is 2412'

ELEV. 1293.13

Received  
Office of Oil & Gas

JUN 4 2013

CEMENT PLUGS SHALL  
BE CLASS A CEMENT  
WITH NO MORE THAN  
3% CALCIUM CHLORIDE.

**Procedure:**

1. Prepare roads and location as needed to allow for service rig to access location per E&S Plan. Install all required E&S controls. Stockpile topsoil and seed and mulch pile. Excavate around well and install well cellar around wellhead and line with plastic.
2. Run bond log on 7" casing and find top of cement.
3. Notify State Oil and Gas Inspector of rig move. MIRU service rig, mud tank, and auxiliary equipment. Install 7-1/16" 2M+ BOP with and test to 1500 psi.
4. N/U well control equipment and perform pressure tests, as necessary
5. P/U work string.
6. Clean out and condition open hole to current listed TD, if possible, of 2,412'
7. TIH open ended to 2410' to set bottom hole plug. Pump 2 bbls fresh water, 10 bbls mud flush, 5 bbls water, 17.5 bbls Class A cement @ 15.6ppg (2% Calcium Chloride). Approximately 300' plug. Pull pipe and reverse circulate and condition hole. Shut down and W.O.C.
8. TIH and tag cement. Circulate hole and begin second cement plug. Pump 2 bbls fresh water, 10 bbls mud flush, 5 bbls water, 17.5 bbls Class A cement @ 15.6ppg (2% Calcium Chloride). Approximately 300' plug. Pull pipe and reverse circulate and condition hole. Shut down and W.O.C.
9. TIH and tag cement.
10. Run cement retainer w/ 2-3/8" tubing tail pipe to base of 7" and squeeze Type I cement blend as a balanced plug, set retainer, and attempt to squeeze away cement into remaining open hole section. Shutdown and W.O.C.
11. Run freepoint on 7" casing to determine where to cut and pull.
12. Attempt to cut and pull 7" casing. **If unsuccessful go to Step 13**
13. Review bond log and select interval at approximately 1500' (approximately 130' from bottom of 7" casing) to shoot squeeze holes. Try to circulate up backside of 7", if successful prep to pump cement through squeeze holes to surface. If unable to circulate through first set of squeeze holes move up hole 200' to around 1,300' and shoot second set of squeeze holes. Try to circulate up backside of 7", if successful prep to pump cement through squeeze holes to surface. If unable to circulate through second set of squeeze holes move up hole 200' to around 1,100' and shoot third set of squeeze holes. Try to circulate up backside of 7", if successful prep to pump cement through

\* ANY SPACE BETWEEN CEMENT PLUGS MUST BE FILLED WITH 6% GEL,

- squeeze holes to surface. If third set is unsuccessful shutdown and discuss options with O&G Inspector.
14. If 7" is successfully pulled run bond log on 8-5/8" and determine if it can be pulled.
  15. Attempt to pull 8-5/8". **If unsuccessful go to Step 16.**
  16. If 8-5/8" can't be pulled prep to squeeze 8-5/8". If squeeze is attempted on 8-5/8" casing shoot squeeze holes at approximately 915' (about 150' from bottom of 8-5/8" casing). Try to circulate up backside of 8-5/8", if successful prep to pump cement through squeeze holes to surface. If unable to circulate through first set of squeeze holes move up hole 200' to around 715' and shoot second set of squeeze holes. Try to circulate up backside of 8-5/8", if successful prep to pump cement through squeeze holes to surface. If second set is unsuccessful shutdown and discuss options with O&G Inspector.
  17. Spot Class A cement blend plugs to surface either in casing left in well or in open hole to surface.
  18. RDMO service rig and auxiliary equipment
  19. Install well monument with appropriate information.
  20. Reclaim site and properly dispose of waste.

Received  
Office of Oil & Gas

JUN 4 2013

1) Date: May 8, 2013  
2) Operator's Well Number  
7896  
3) API Well No.: 47 - 041 - \_\_\_\_\_

**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>Suzanne Lynn Evans</u> Address <u>1064 38th Street</u> <u>Parkersburg, WV 26104-1042</u></p> <p>(b) Name _____ Address _____</p> <p>(c) Name _____ Address _____</p> <p>6) Inspector <u>Mr. Barry Stollings</u> Address <u>P.O. Box 1228</u> <u>Chapmanville, WV 25508</u> Telephone <u>304-552-4194</u></p>	<p>5) (a) Coal Operator</p> <p>Name <u>CNG Producing Company</u> Address <u>501 Martindale Street</u> <u>Pittsburgh, PA 15212-5835</u></p> <p>(b) Coal Owner(s) with Declaration Name _____ Address _____</p> <p>(c) Coal Lessee with Declaration Name _____ Address _____</p>
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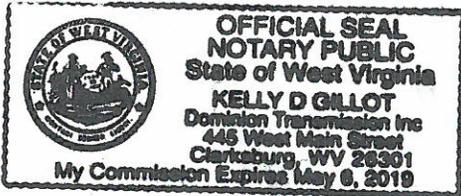
**TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:**

- (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	<u>Dominion Transmission, Inc.</u>
By:	<u>James D. Blasingame</u> <u>5/20/13</u>
Its:	<u>Director of Storage</u>
Address	<u>445 West Main Street</u> <u>Clarksburg, WV 26301</u>
Telephone	<u>304-623-8000</u>



Subscribed and sworn before me this 20th day of May, 2013  
Kelly D Gillet Notary Public

My Commission Expires May 6, 2019

Received

MAY 23 2013

**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](mailto:depprivacyoffier@wv.gov).

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 10900

Watershed Mare Run of Freemans Creek Quadrangle Camden, WV 7.5'

Elevation 1293.14' County Lewis District Valley Chapel Freemans Creek

Description of anticipated Pit Waste: None - Tanks to be used in place of pit

Will a synthetic liner be used in the pit? No

Proposed Disposal Method For Treated Pit Wastes:

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

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain \_\_\_\_\_)
- Swabbing
- Plugging

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 5/20/13

Company Official (Typed Name) James D. Blasingame

Company Official Title Designated Agent, Director Gas Storage

Received

Subscribed and sworn before me this 20th day of May, 2013

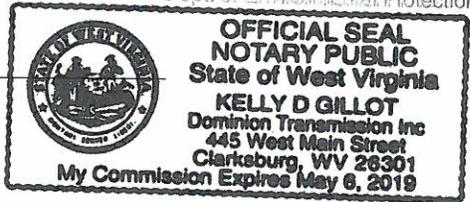
MAY 23 2013

Kelly D Gillet

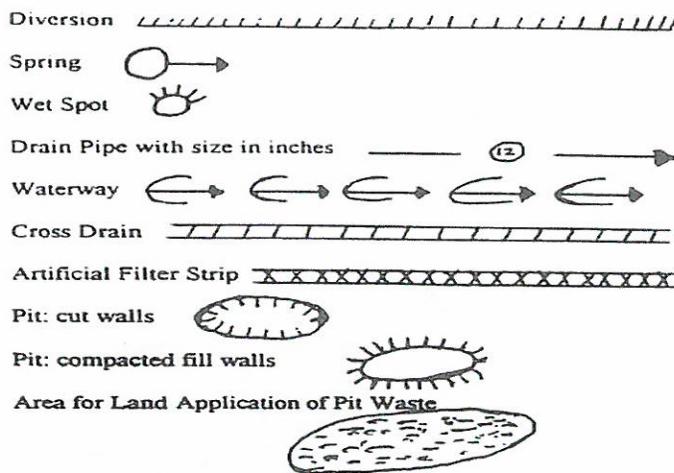
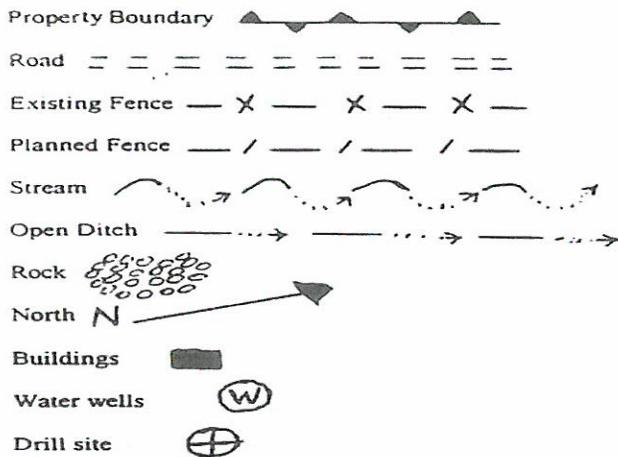
Notary Public

Office of Oil and Gas  
WV Dept. of Environmental Protection

My commission expires May 6, 2019



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 3/4+- Prevegetation pH \_\_\_\_\_

Lime \_\_\_\_\_ 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	4	Timothy	4
Orchard Grass	12	Orchard Grass	12
White Clover	3	White Clover	3

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Bill Halfield

Received

Comments: \_\_\_\_\_ MAY 23 2013

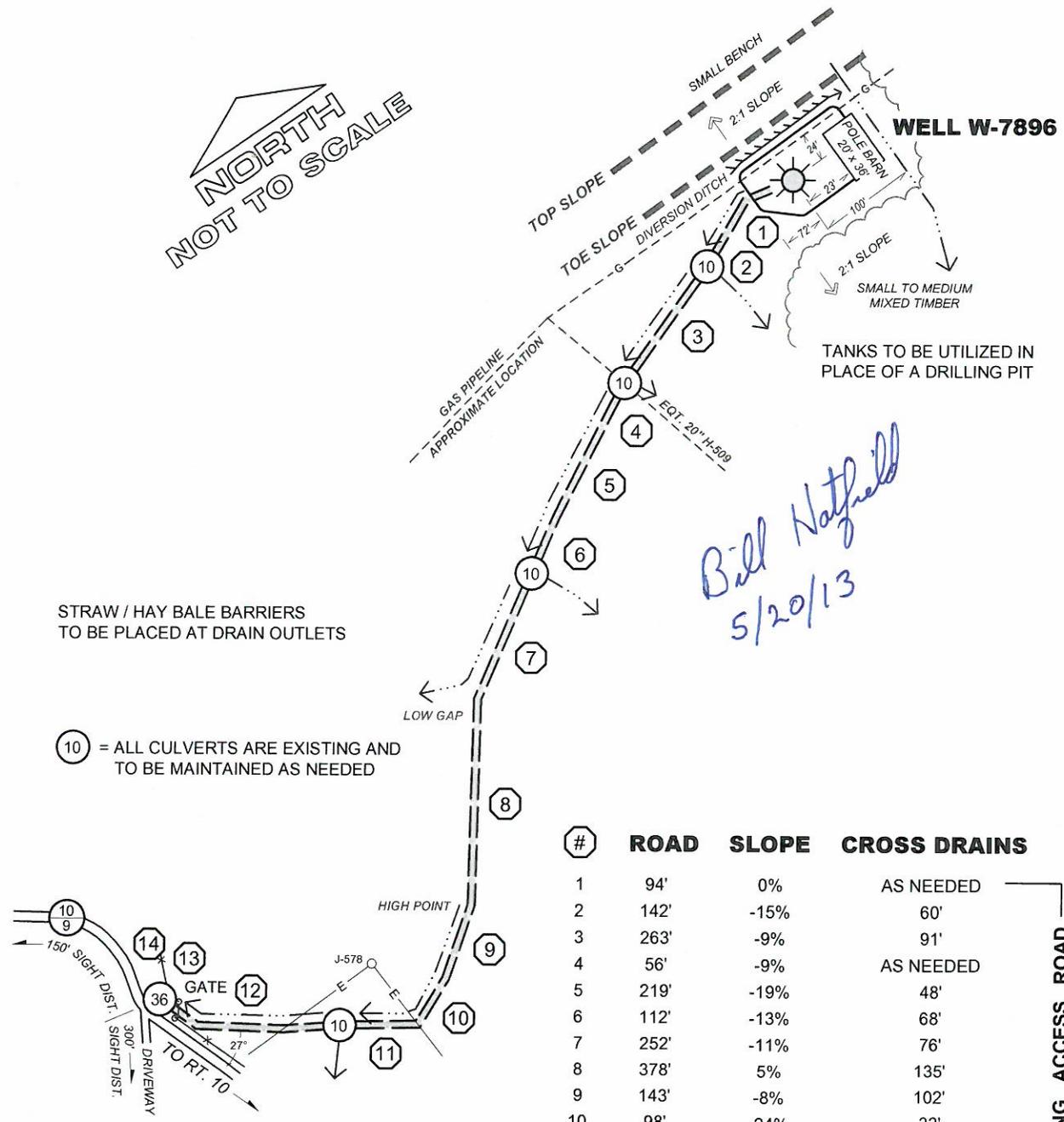
Title: oil & gas inspector Date: 5/20/13

Office of Oil and Gas  
WV Dept. of Environmental Protection

Field Reviewed? (  ) Yes (  ) No

ACCESS WILL BE GAINED USING AN ACCESS ROAD OFF OF COUNTY ROUTE 10/9.  
 2,275' OF ACCESS ROAD TO BE UPGRADED AND MAINTAINED AS NEEDED.  
 DRAINAGE TO BE MAINTAINED. WELL SITE TO BE RECLAIMED AFTER WELL WORK.  
 TOPSOIL IF ANY TO BE STOCKPILED FOR USE IN RECLAMATION.

**NORTH**  
**NOT TO SCALE**



*Bill Hatfield*  
 5/20/13

#	ROAD	SLOPE	CROSS DRAINS
1	94'	0%	AS NEEDED
2	142'	-15%	60'
3	263'	-9%	91'
4	56'	-9%	AS NEEDED
5	219'	-19%	48'
6	112'	-13%	68'
7	252'	-11%	76'
8	378'	5%	135'
9	143'	-8%	102'
10	98'	-24%	33'
11	144'	-16%	57'
12	262'	-17%	54'
13	68'	-19%	48'
14	44'	-2%	AS NEEDED

EXISTING ACCESS ROAD

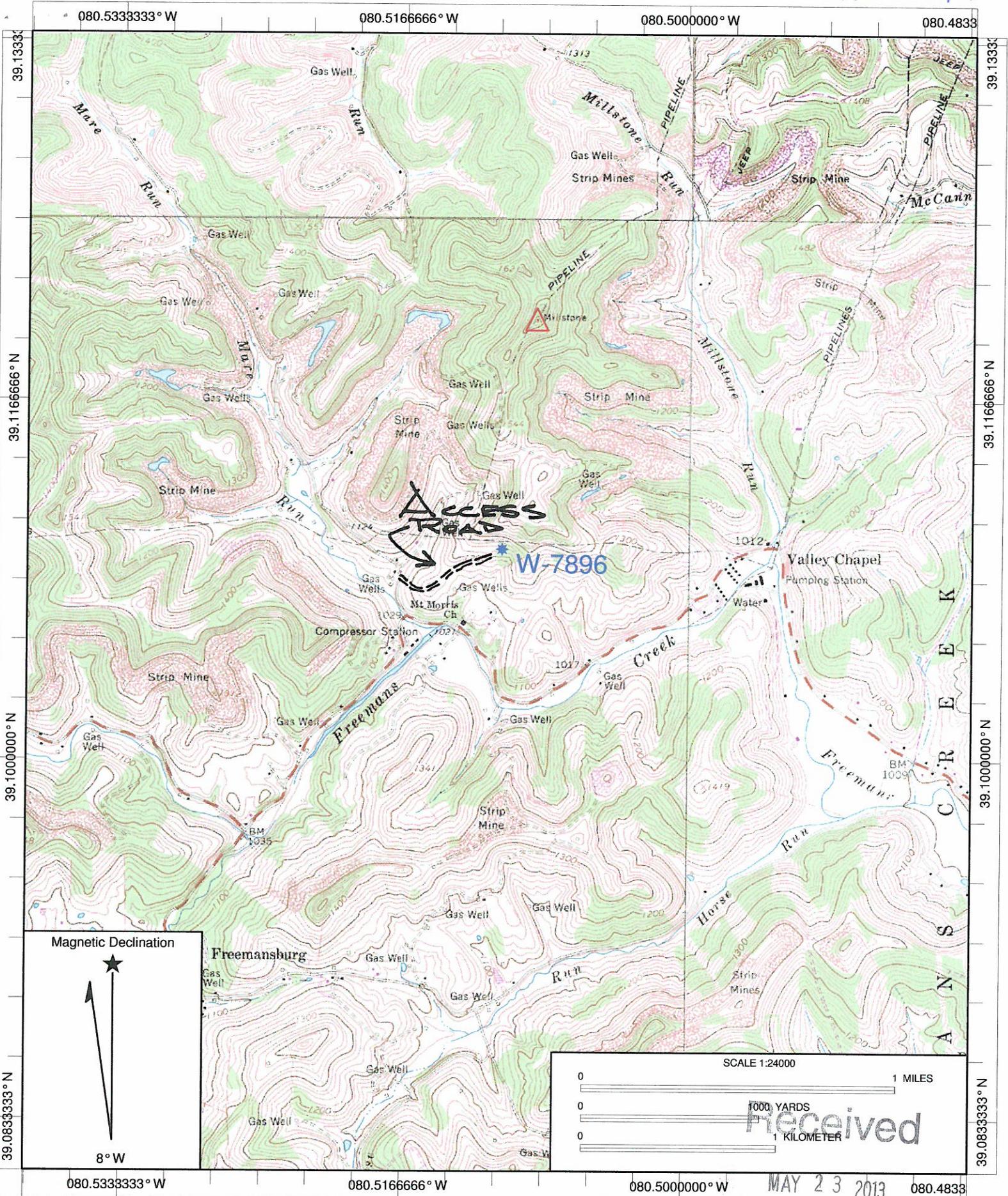
Received

2,275' OF EXISTING ACCESS ROAD

prepared by  
**MSES consultants, inc.**  
 609 WEST MAIN STREET  
 P. O. DRAWER 190  
 CLARKSBURG, WV 26302-0190  
 (304) 624-9700 fax (304) 622-0981  
 www.msesinc.com

Office of Oil and Gas  
 WV Dept. of Environmental Protection

4102307 P

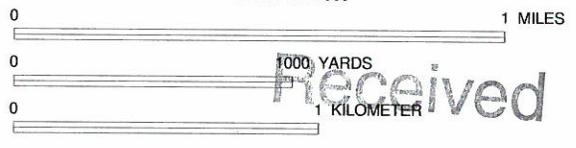


Magnetic Declination



8° W

SCALE 1:24000



Received

MAY 23 2013

Name: CAMDEN  
 Date: 1/24/2011  
 Scale: 1 inch equals 2000 feet

Location: 039.1072978° N 080.5109889° W NAD83  
 Caption: W-7896,  
 API#47-041-02307,  
 LESSOR NAME-EVANS  
 Office of Oil and Gas  
 WV Dept. of Environmental Protection

Datum: NAD83

Copyright (C) 1997, Maptech, Inc.

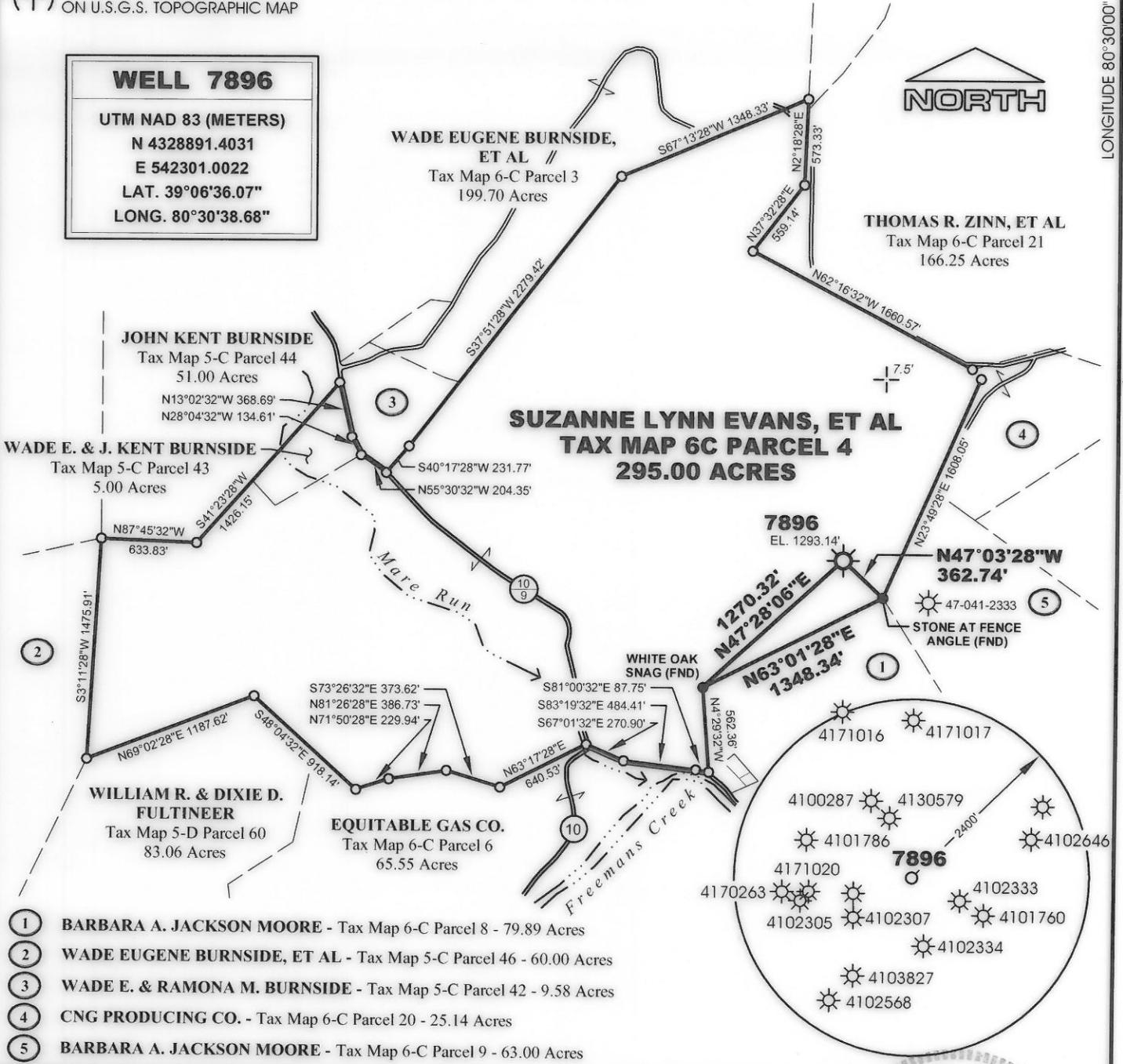
(+/-) DENOTES LOCATION OF WELL ON U.S.G.S. TOPOGRAPHIC MAP

LATITUDE 39°07'30"

LONGITUDE 80°30'00"

5.450'

**WELL 7896**  
 UTM NAD 83 (METERS)  
 N 4328891.4031  
 E 542301.0022  
 LAT. 39°06'36.07"  
 LONG. 80°30'38.68"



- ① BARBARA A. JACKSON MOORE - Tax Map 6-C Parcel 8 - 79.89 Acres
- ② WADE EUGENE BURNSIDE, ET AL - Tax Map 5-C Parcel 46 - 60.00 Acres
- ③ WADE E. & RAMONA M. BURNSIDE - Tax Map 5-C Parcel 42 - 9.58 Acres
- ④ CNG PRODUCING CO. - Tax Map 6-C Parcel 20 - 25.14 Acres
- ⑤ BARBARA A. JACKSON MOORE - Tax Map 6-C Parcel 9 - 63.00 Acres

**MSES consultants, inc.**  
 FILE NO. 11-109-W7896  
 DRAWN BY RRC / MVS / RLR  
 SCALE 1" = 1000'  
 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) Hershel D. Ward  
 R.P.E. L.L.S. 995



**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF MINES  
**OIL AND GAS DIVISION**



DATE MAY 9 20 13  
 OPERATOR'S WELL NO. 7896  
 API WELL NO.  
**47 041 02307 P**  
 STATE COUNTY PERMIT NO.

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

LOCATION: ELEVATION 1293.14' WATERSHED MARE RUN OF FREEMANS CREEK  
 DISTRICT FREEMANS CREEK COUNTY LEWIS  
 QUADRANGLE CAMDEN NEAREST TOWN VALLEY CHAPEL  
 SURFACE OWNER SUZANNE LYNN EVANS ACREAGE 295.00  
 OIL & GAS ROYALTY OWNER PAMELA ANN EVANS, ET AL LEASE ACREAGE 300.00

LEASE NO. FK 052229

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 FIFTH SAND ESTIMATED DEPTH 2412'  
 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. **02307**