



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

June 27, 2014

WELL WORK PERMIT

Re-Work

This permit, API Well Number: 47-7500026, issued to COLUMBIA GAS TRANSMISSION, LLC, 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
Chief

Operator's Well No: GLADY 7456
Farm Name: U.S. DEPT. OF INTERIOR
API Well Number: 47-7500026
Permit Type: Re-Work
Date Issued: 06/27/2014

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. 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.

WW - 2B
(Rev. 8/10)

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

1) Well Operator: Columbia Gas Transmission, LLC 307032 Pocahontas Green Bank Wildell
Operator ID County District Quadrangle

2) Operator's Well Number: Glady 7456 (existing well) 3) Elevation: 3525

4) Well Type: (a) Oil _____ or Gas X
(b) If Gas: Production _____ / Underground Storage X
Deep X / Shallow _____

5) Proposed Target Formation(s): Oriskany Proposed Target Depth: 5885

6) Proposed Total Depth: 6123 (existing) Feet Formation at Proposed Total Depth: Halderberg

7) Approximate fresh water strata depths: as reported by driller in 1965: 80', 142'

8) Approximate salt water depths: none reported by driller in 1965

9) Approximate coal seam depths: none reported by driller in 1965

10) Approximate void depths, (coal, Karst, other): none reported by driller in 1965

11) Does land contain coal seams tributary to active mine? no

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)

Perform clean using coil tubing and acid stimulate.

* Casing and tubing listed below are existing.

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE	INTERVALS	CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13.375	H-40	48.0	31	31	cmt'd to surf with 30 sx
Fresh Water	9.625	H-40	32	1328	1328	cmt'd to surf with 460 sx
Coal				<i>Bugs O'Han</i>		<i>5.21-14</i>
Intermediate						
Production	7.0	J-55/N-80	23.0	5895	5895	cmt'd surf 2-stage 1146 sx
Tubing						
Liners	5.74 ID		cladding/patch	5538 to	5844	Received none

Packers: Kind: none

Sizes: _____

Depths Set _____

JUN - 3 2014

7500026W

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
WVBLMA022926

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

7. If Unit or CA/Agreement, Name and/or No.
WVES39982

1. Type of Well
 Oil Well Gas Well Other: INJECTION

8. Well Name and No.
7456

2. Name of Operator
COLUMBIA GAS TRANSMISSION LLC-Mail: jamos@nisource.com

Contact: JAMES E AMOS

9. API Well No.
47-075-00026-00-S1

3a. Address
1700 MACCORKLE AVE SE
CHARLESTON, WV 25325-1273

3b. Phone No. (include area code)
Ph: 304.373.2412
Fx: 304.373.2438

10. Field and Pool, or Exploratory
GLADY

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Tract US-34
38.663770 N Lat, 79.763670 W Lon

11. County or Parish, and State
POCAHONTAS COUNTY, WV

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Glady storage well 7456 (existing well drilled in 1965)

Estimated start date: 8/1/14
Estimated completion date: 9/1/14

Remove above ground pipeline appurtenances. Mechanically clean wellbore with coil tubing services. Perform acid stimulation. Recover stimulation fluids and re-establish gas flow. Re-install pipeline appurtenances. Reclaim road and well site.

Minimal earth disturbance anticipated. All fluids to be captured and contained in steel tanks.

US Forestry Service to be notified of planned work.

Received

JUN - 3 2014

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #238058 verified by the BLM Well Information System Office of Oil and Gas
For COLUMBIA GAS TRANSMISSION LLC, sent to the Milwaukee WV Dept. of Environmental Protection
Committed to AFMSS for processing by TREV MITCHELL on 03/14/2014 (14TAM0021SE)

Name (Printed/Typed) JAMES E AMOS

Title SENIOR ENGINEER

Signature (Electronic Submission)

Date 03/07/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By THERESA M BODUS

Title ASSISTANT FIELD MANAGER

Date 03/17/2014

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Milwaukee

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Revisions to Operator-Submitted EC Data for Sundry Notice #238058

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	ACID NOI	ACID NOI
Lease:	WVBLMA023190A	WVBLMA022926
Agreement:	WVES39982	WVES39982 (WVES39982)
Operator:	COLUMBIA GAS TRANSMISSION, LLC 1700 MACCORKLE AVE SE PO BOX 1273 CHARLESTON, WV 25325-1273 Ph: 304-357-3445	COLUMBIA GAS TRANSMISSION LLC 1700 MACCORKLE AVE SE CHARLESTON, WV 25325-1273 Ph: 304.373.2412 Fx: 304-373-2438
Admin Contact:	JAMES E AMOS SENIOR ENGINEER E-Mail: jamos@nisource.com Cell: 304-483-0073 Ph: 304-373-2412 Fx: 304-373-2438	JAMES E AMOS SENIOR ENGINEER E-Mail: jamos@nisource.com Cell: 304.483.0073 Ph: 304.373.2412 Fx: 304.373.2438
Tech Contact:	JAMES E AMOS SENIOR ENGINEER E-Mail: jamos@nisource.com Cell: 304-483-0073 Ph: 304-373-2412 Fx: 304-373-2438	JAMES E AMOS SENIOR ENGINEER E-Mail: jamos@nisource.com Cell: 304.483.0073 Ph: 304.373.2412 Fx: 304.373.2438
Location:		
State:	WV	WV
County:	POCAHONTAS	POCAHONTAS
Field/Pool:	GLADY STORAGE FIELD	GLADY
Well/Facility:	GLADY 7456 38.663770 N Lat, 79.763680 W Lon	7456 Tract US-34 38.663770 N Lat, 79.763670 W Lon

Received

JUN - 3 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

7500026W

OG-10
File
Well log/lot
x-77-7456



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Durbin

Permit No. Poca. - 26

WELL RECORD

Oil or Gas Well Storage Gas
(KIND)

Company Atlantic Seaboard Corporation
Address Box 1273 - Charleston, W. Va.
Farm U.S. Dept. of Interior Tr #32 Acres 1852
Location (waters) Gertrude Run of Greenbrier River
Well No. 7456 Elev. 3516.02
District Green Bank County Pocahontas
The surface of tract is owned in fee by U.S. Dept. of Interior Address Washington, D. C.
Mineral rights are owned by Same Address _____

Drilling commenced 12-1-65
Drilling completed 12-19-65
Date Shot _____ From _____ To _____
With _____

Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume See back Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED See back.

WELL FRACTURED _____

RESULT AFTER TREATMENT _____

ROCK PRESSURE AFTER TREATMENT _____

Fresh Water _____ Feet Salt Water _____ Feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer _____
13 3/8"	31'	31'	
9 5/8"	1339'	1339'	Size of _____
8 1/4"			
7"	5938'	5938'	Depth set _____
5 3/16"			
3"			Perf. top _____
2 3/8"	6132'	6132'	Perf. bottom _____
Liners Used _____			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT None FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand & Shale			0	5387	Water	80'	Fresh
Tully Limestone			5387	5403	Water	142'	Fresh
Marcellus Shale			5403	5697			
Onondaga Limestone			5697	5741			
Chert			5741	5849			
Shale			5849	5885			
Oriskany Sandstone			5885	6115	Gas	5889	1.350 MCF
Helderberg Limestone			6115		Gas	5895-5912	Show
Total Depth			6123		Gas	5987	Increased
					Gas	6035 - 41	Increased
Above depths - RKB					All gas gauged 11,010 MCF when completed drilling.		

Received

JUN - 3 2014

(over)

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
<u>CASING & CEMENT:</u>							
13 3/8", 48#/ft., H-40 casing - 31' (threads on) set at 31' KB. Cemented to surface with 30 sacks neat cement w/3% cacl. - 12-2-65.							
9 5/8", 32#/ft., H-40 casing - 1339' (threads on) set at 1328' C.L. Cemented to surface with 460 sacks neat cement with 3% cacl. - Dowell - 12-6-65.							
7" 23#/ft., J-55 & N-80 casing - 5937.76' (threads on) set at 5895' K.B. Cemented to surface (two stage) with 1060 cu. ft. "Litapoz". First stage tailed in with 500 gal. "Cealment". Second stage tailed in with 150 gal. "Cealment". - Dowell - 12-16, 17-65							
2 3/8", 4.7#/ft., J-55, EUE tubing - 6132' (threads on) set at 6111' KB Ran as siphon string - 12-20-65							
<u>LOGGING:</u>							
Gamma Ray, temperature - 5300' to 5895' - Basin Surveys - 12-14-65							
<u>STIMULATION:</u>							
10,000 gal. 15% retarded H Cl. acid, 10,000 gal. 15% H Cl. reg. acid, 10,000 gal. 3% H Cl. acid overflush, 10,000 gal. H ₂ O flush with 141,300 Scf N ₂ @ rate of 200 Scf/bbl.- Dowell & Aircowell - 12-22-65							
<u>PRODUCTION:</u>							
Before stimulation 16# SG in 4" = 11.010 MBF @ 1500 psig - 12-19-65							
After stimulation 34# SG in 4" = 36.048 MBF @ 1500 psig - 12-20-65							
Final shut-in: 12-20-65							
<p>Received</p> <p>JUN - 3 2014</p> <p>Office of Oil and Gas WV Dept. of Environmental Protection</p>							

Date Jan 10, 1966
APPROVED Atlantic Seaboard Corp., Owner
By J. C. McNeill
(Title) Supt.

7013 1090 0001 7328 6440

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MILWAUKEE WI 53202

Postage	\$ 1.82	0271
Certified Fee	\$ 3.30	07
Return Receipt Fee (Endorsement Required)	\$ 2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	JUN 03 2014
Total Postage & Fees	\$ 7.82	06/03/2014

Sent To: Bureau of Land Management
 Street, Apt. No. or PO Box No.: 626 E. Wisconsin Ave S. 200
 City, State, ZIP+4: Milwaukee, WI 53202

PS Form 3800, August 2006 See Reverse for Instructions

Received

JUN - 3 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

75 00026



United States Department of the Interior



Bureau of Land Management-Eastern States

**Northeastern States Field Office
626 E. Wisconsin Avenue, Suite 200
Milwaukee, Wisconsin 53202-4617**

IN REPLY REFER TO:
3160 (003410)
Well #7456 (BLMA 022926)

June 11, 2014

Chief, Office of Oil & Gas
Department of Environmental Protection
601 57th Street SE
Charleston, West Virginia 25304

Dear Sir:

Enclosed are signed Forms WW-2A, Surface Waiver and Coal Waiver forwarded to the Bureau of Land Management (BLM) by Columbia Gas Transmission LLC. They are in the permitting process for the Gladly 7456 well in Pocahontas County.

The company has filed the required BLM sundry notice form requesting approval of the anticipated work. We have reviewed and approved their request having no objections to the work.

Sincerely,

Theresa M. Bodus
Assistant Field Manager, Minerals

Enclosures :
Form WW-2A Surface Waiver
Form WW-2A Coal Waiver

RECEIVED
Office of Oil and Gas
JUN 13 2014
WV Department of
Environmental Protection

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County Pocahontas

Operator
Operator well number

Columbia Gas Transmission, LLC
Glady 7456

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (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

Note that this well is located in the Monongahela National Forest, the surface owner is the US Dept of Interior, and is managed by the Federal Bureau of Land Management (BLM). The BLM has already approved the proposed well work per the attached "Sundry Notices and Reports on Wells" form dated 3/17/14. As in the past, Columbia requests that the 15 day comment period be waived, and the well work permit issued at the DEP's earliest convenience.

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 **FIFTEEN (15) 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.

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

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 Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ___ including a work order on Form WW2-B, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

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

FOR EXECUTION BY A CORPORATION, ETC.

Signature Date

Company Name BLM
By Christina M. Bodus RECEIVED
Its APU-Minerals Office of Oil and Gas
Date 6/11/14

Print Name

Signature Date

RECEIVED
JUN 05 2014
BUREAU OF LAND MANAGEMENT
ES-NSFO

WV Department of
Environmental Protection

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Pocahontas
Operator not operated

Operator's Well Number Glady 7456

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by WV Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 extension 1654

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. 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.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Signature Date

Company Name BLM
By Theresa M Bodus 6/1/14
Its AFM-Minerals Date

Signature Date

RECEIVED

JUN 05 2014

BUREAU OF LAND MANAGEMENT
ES-NSFO

RECEIVED
Office of Oil and Gas
JUN 13 2014
WV Department of
Environmental Protection

**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
US Dept of Interior	Columbia Gas Transmission, LLC	Storage Lease 1099700-000	not recorded

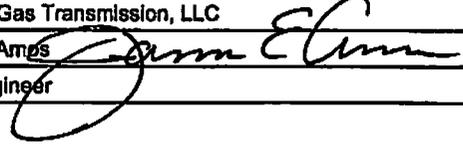
**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges 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 acquired from the appropriate authority before the affected activity is initiated.

Well Operator: _____
 By: Its: _____

Columbia Gas Transmission, LLC
 James E. Ames 
 Senior Engineer

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 Columbia Gas Transmission, LLC OP Code 307032

Watershed West Fork of Greenbrier River Quadrangle Wildell

Elevation 3525 County Pocahontas District Green Bank

Description of anticipated Pit Waste: no earthen pit to be utilized

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

Will a synthetic liner be used in the pit? NA. If so, what mil.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 34-155-2-3794, 34-155-2-3795, 34-119-2-8776)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Enviro-Tank Clean treatment facility, Belpre, OH)

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. freshwater - during coil tubing cleanout
-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used? biocide, surfactant

Will closed loop system be used? yes - during coil tubing cleanout

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

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

-Landfill or offsite name/permit number? if needed: Enviro-Tank Clean (Belpre, OH)

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 E. Amos 6/2/14

Company Official (Typed Name) James E. Amos JUN - 3 2014

Company Official Title Senior Engineer

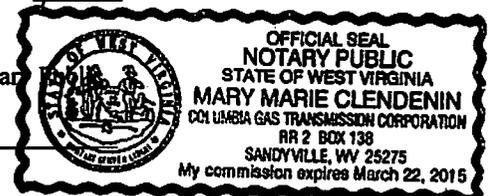
Office of Oil and Gas
WV Dept. of Environmental Protection

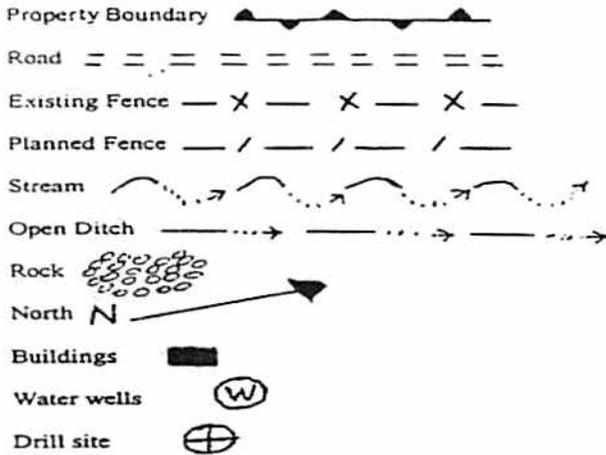
Subscribed and sworn before me this 2nd day of June, 2014

Mary Marie Clendenin

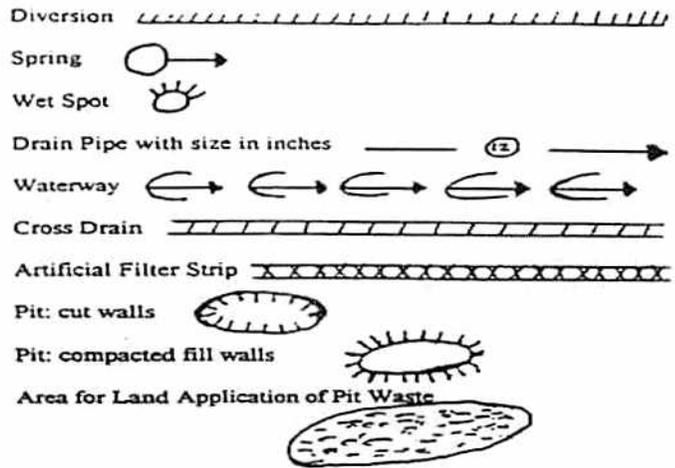
Notar

My commission expires March 22, 2015





LEGEND



Proposed Revegetation Treatment: Acres Disturbed < 0.5 Prevegetation pH 6

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 150 lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

Seed Mixtures

Note that fertilizer, lime, mulch, seed mix, and application rates determined by US Forestry Service.

Seed Type	Area I	lbs/acre
Little Bluestem (20%)		15
Canada Wild Rye (25%)		15
Switch Grass (20%)		15
Partridge Pea (25%)		15

Seed Type	Area II	lbs/acre
Showy Tick Trefoil (10%)		15
Oats (Spring - 9/1)		30
Annual Rye (Fall)		30

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

Photocopied section of involved 7.5' topographic sheet.

Received

Plan Approved by: [Signature]

JUN - 3 2014

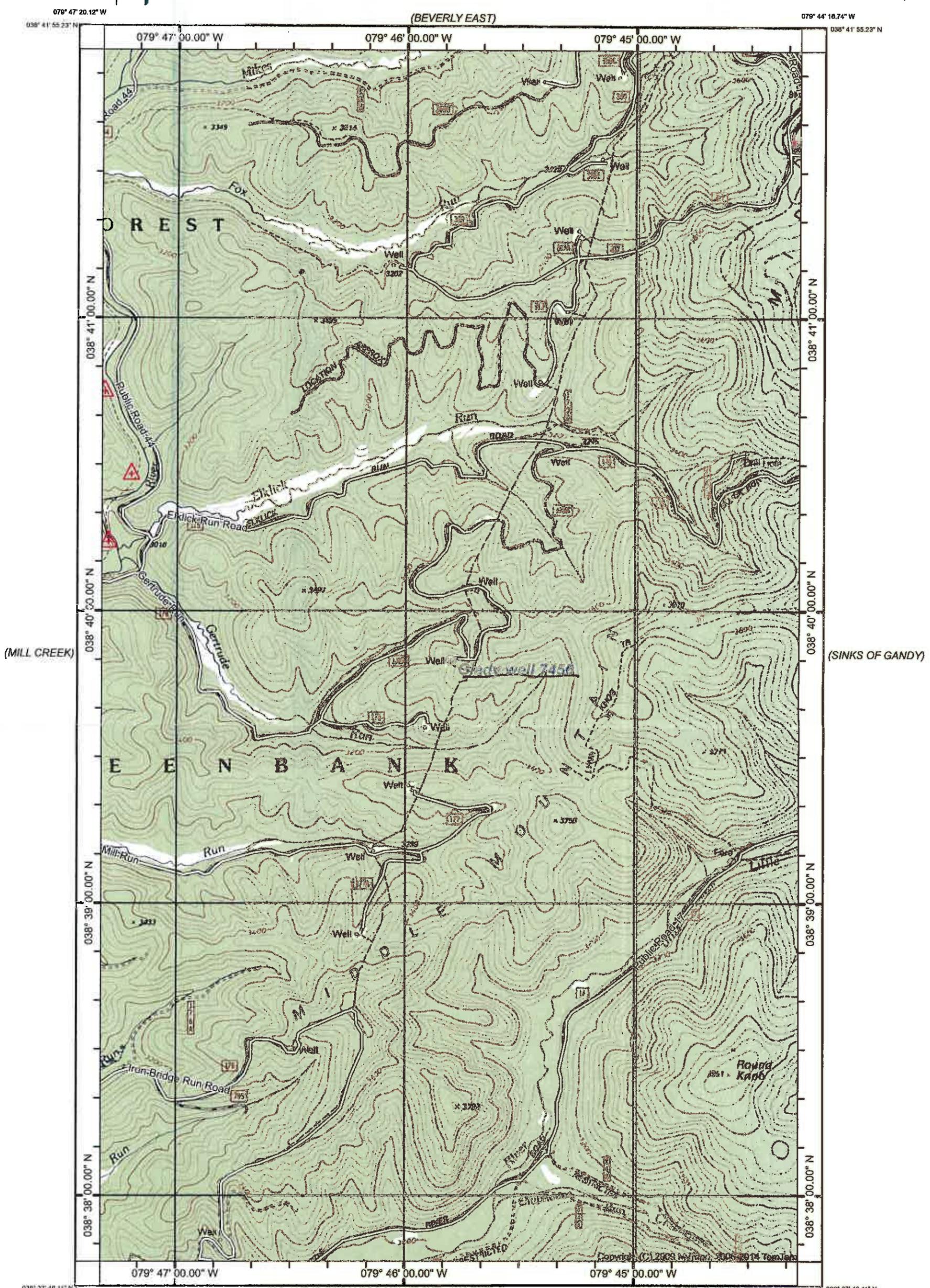
Comments: _____

Office of Oil and Gas
WV Dept. of Environmental Protection

Title: Oil & Gas Inspector Date: 5-21-14

Field Reviewed? () Yes (X) No

75 00026 W

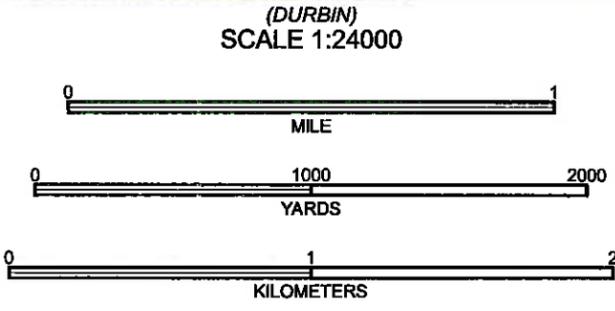


(SNYDER KNOB)

(THORNWOOD)

Produced by MyTopo Terrain Navigator
Topography based on USGS 1:24,000 Maps
North American 1983 Datum (NAD83)
Lambert Conformal Conic Projection

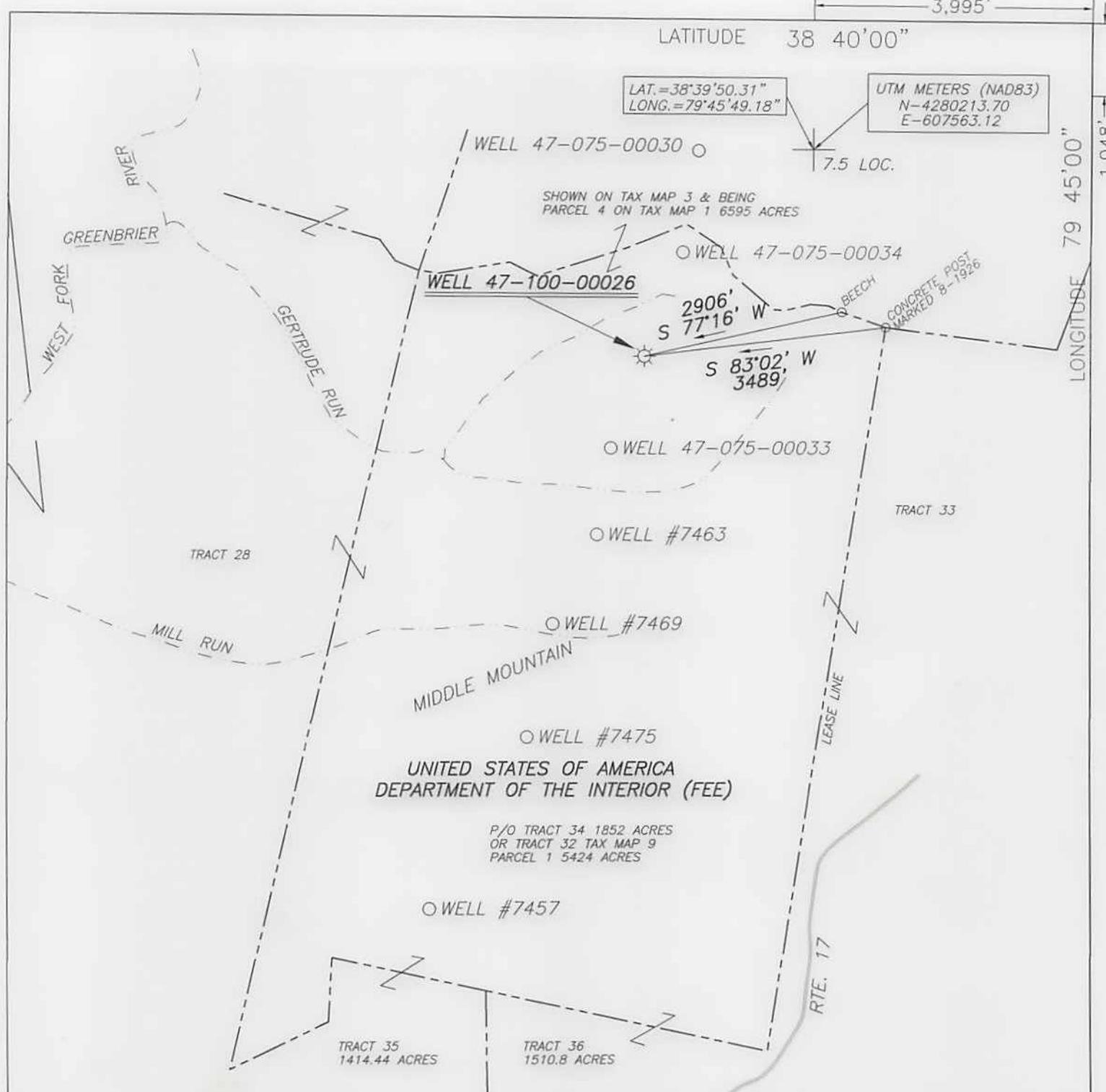
To place on the predicted North American 1927 move the
projection lines 13M N and 19M E



CONTOUR INTERVAL 40 FEET
NATIONAL GEODETIC VERTICAL DATUM 1929

Received WILDELL, WV
1998
JUN - 3 2014

Office of Oil and Gas
West Virginia Department of Environmental Protection



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No 14-100-004
 DRAWING No. 14-100-004
 SCALE 1"=2000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION TRIMBLE PRO XH GPS UNIT

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.
 (SIGNED) *Richard J. Prine*
 RICHARD J. PRINE PS #851



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 NITRO, WV

DATE APRIL 25 20 14
 OPERATOR'S WELL No. 7456
 API WELL No. 47 075 - 00026 W

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL STATE 47 COUNTY 075 PERMIT 00026
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 3525 WATER SHED WEST FORK OF GREENBRIER RIVER
 DISTRICT GREEN BANK COUNTY POCAHONTAS
 QUADRANGLE WILDELL

SURFACE OWNER U.S. DEPT. OF INTERIOR ACREAGE 1852
 OIL & GAS ROYALTY OWNER U.S. DEPT. OF INTERIOR LEASE ACREAGE 1852
 LEASE No. 90700

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ACID STIMULATION

PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION ORISKANY ESTIMATED DEPTH 6153
 WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT PAUL AMICK
 ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS P.O. BOX 1273, CHARLESTON W.V.
25325-1273 25325-1273

FORM IV-6 (8-78)