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

May 12, 2016

WELL WORK PERMIT

Re-Work

This permit, API Well Number: 47-5100479, 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: 4731
Farm Name: WALTON, MARGARET
API Well Number: 47-5100479
Permit Type: Re-Work
Date Issued: 05/12/2016

Promoting a healthy environment.

5100479W

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, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

Ck# 5120054 5100479W
$600.00

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	Marshall	Liberty 4	Cameron, WV 278
Operator ID	County	District	Quadrangle

2) Operator's Well Number: Victory B 4731 3) Elevation: 1341.0 ft

4) Well Type: (a) Oil_____ or Gas X

(b) If Gas: Production ____ / Underground Storage X

Deep_____ / Shallow X

5) Proposed Target Formation(s): Big Injun Proposed Target Depth: 2156
6) Proposed Total Depth: 2307 (existing) Feet Formation at Proposed Total Depth: Big Injun
7) Approximate fresh water strata depths: none reported by driller in 1962
8) Approximate salt water depths: none reported by driller in 1962

9) Approximate coal seam depths: Pittsburgh Coal 1034 - 1042'

10) Approximate void depths,(coal, Karst, other): none reported by driller in 1962

11) Does land contain coal seams tributary to active mine? yes

JMH 3-16-16

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)
Perform coiled tubing clean-out and fracture stimulate. SEE ATTACHMENT

13) **CASING AND TUBING PROGRAM** * Existing tubulars

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13.375	H-40	32	33	33	36 sx
Fresh Water						
Coal	8.625	J-55	24	1093	1093	500 sx
Intermediate						
Production	5.5	J-55	17	2189	2189	500 sx
Tubing						
Liners						

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APR 04 2016
WV Department of
Environmental Protection

Packers: Kind:
Sizes:
Depths Set

51 00479 W

SUPPLEMENT TO WV DEP WW-2B PERMIT APPLICATION
Victory B 4731 (API 051-00479)

12) Proposed Fracture Treatment

- 200-400 gals HCl acid
- 70-80 quality foam
- 200 – 400 bbls fresh water based fluid with guar viscosifier
- Additives to include biocide, surfactant, and sand control
- 20 – 30 Klbs 20/40 mesh sand

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Office of Oil and Gas

MAY 12 2016

WV Department of
Environmental Protection

5100479W

LOHMANN - JOHNSON *Oil Company, Inc.*

OFFICES IN
EVANSVILLE, INDIANA
DENVER, COLORADO
CALGARY, ALBERTA, CANADA
PITTSBURGH, PENNSYLVANIA

1917 Clark Bldg.

REPLY TO:

Manufacturers Light & Heat Co.,
Box 398,
Hundred, W. Va.
Attn: Mr. Duane Gable

Date Started 8/27/62
Date Completed 9/11/62
Total Depth 2350'

Well: Margaret Walton 1-4731,
Liberty District,
Marshall County, W. Va.

Conductor Pipe: Ran 1 Jt. 13-3/8" Casing. Cemented with 1 Sack Calcium Chloride and 30 sacks Cement.

Surface Pipe: Ran 1105.10' of 8-5/8" Casing. Cemented with 4 sacks Flocele and 500 sacks Cement.

Production Casing: Ran 2201.15' of 5-1/2" Casing. Cemented with 2 sacks Hydroton, 4 sacks Flocele and 500 sacks Cement.

DRILLER'S LOG

0 -	355	Sand & Shale
355 -	595	Sand, Shale & red Rock
595 -	970	Sand & Shale
970 -	980	Pgh. Coal
980 -	1120	Sand & Shale
1120 -	1730	Sand, Shale & Red Rock
1730 -	2290	Sand & Lime
2290 -	2310	Sand
2310 -	2350	Sand & Shale

I hereby certify that this is a true and correct copy of the Drillers' Log as shown on the Drilling Report.

B. Barnett

5100479WS

Form PD-44

COLUMBIA GAS SYSTEM – PITTSBURGH GROUP COMPANIES

WELL LOG SUMMARY

1 of 1 Sheets

4231

LOCATION	COMPANY: The Manufacturers Light and Heat Company	DIV.: L	FIELD: Cameron, West Virginia		WELL NO.: 4731
	FARM: Margaret Walton	ACRES: 104	LEASE NO.: 4736	DISTRICT: Liberty	COUNTY: Marshall — STATE: W. Va.
	TOPO. MAP: Quadrangle ____ Ft. ____ of ____ ° ____ / and ____ Ft. ____ of ____ ° ____ /				
CONTRACTOR	TOP HOLE CONTRACTOR: CONTRACTOR / ADDRESS			Drilled from ____ Ft. to ____ Ft. / Type of Rig	
	DRILLING CONTRACTOR: CONTRACTOR: Lehmann and Johnson Oil Co., Inc. / ADDRESS: 1917 Clark Building, Pittsburgh 22, Pennsylvania			Drilled from 0 Ft. to 2338 Ft. / Type of Rig: Rotary Drilling Machine	
	COMMENCED (DATE): Drilling 8-27-62	COMPLETED (DATE): Well 9-12-62	COMPLETED TOTAL DEPTH: 2338 ft.	DATE PURCHASED	FOR. WELL NO.

HOLE SIZE	BIT GAUGE (INCHES)	17-1/4"	12-1/4"	7-7/8"
	FROM–TO (FEET)	0-36'	0-1108'	0-2338'
CASING AND TUBING (All Measurements less threads)	SIZE (O.D.)	13-3/8"	8-5/8"	5-1/2"
	WEIGHT/FOOT	48#	24#	17#
	STEEL GRADE	H	J	J
	COUPLING TYPE	Short	Short	Short
	SETTING DEPTH	33'	1093'	2189'
	LEFT IN HOLE	33'	1093'	2189'
CEMENT	NO. OF SACKS	30	500	500
	TYPE	1-S	1-S	1-S
	WEIGHT #/GAL.	(By Rig Crew)	14.5	14.5
PACKER	MANUFACTURER			Halliburton
	TYPE			Formation
	SIZE			5-1/2"
	SETTING DEPTH			2190

WELL STIMULATION	TREATMENT	TYPE *	SIZE AND/OR AMOUNT	ZONE TREATED	OPEN FLOW MCF/DAY	PERFORMED BY	DATE
	(NONE)			From / to	Before / After		
				From / to	Before / After		
				From / to	Before / After		
				From / to	Before / After		

OPEN FLOW TEST	DATE GAUGED	FORMATION	PAY ZONE	TYPE GAUGE (SPECIFY)	PRESSURE (SPECIFY UNITS)	SIZE OPENING-IN.	OPEN FLOW M.C.F./DAY	HRS. BLOWN
	9 12 62	Big Injun	From 2156 to / From to 2338	Side Static Tester	41 PSIG	4-1/2"	34,158,	10-Min.
			From to / From to					

WELLHEAD PRESSURE TESTS	DATE TAKEN	FORMATION	MINUTE PRESSURE – PSIG: 1	3	5	10	20	30	WELLHEAD PRESSURE – PSIG: 24 HR.	48 HR.	72 HR.	MAX. PRESS.	TIME
	9 12 62	Big Injun	(NONE TAKEN)								780		

MISC.			
DEPTH MEASUREMENT TAKEN FROM: ☐ Derrick Floor ☒ Ground Other (Specify) ____	DIST. TO GROUND: 0 ft.	ELEVATION: 1316.2'	
LOGGED: ☒ Yes ☐ No	LOGGED BY (COMPANY): Schlumberger Well Surveying Corporation	DATE LOGGED: 9 17 62	

* Note: Form PD-17 "Well Fracture Report" to be completed and attached, if applicable

REMARKS

13-3/8" Casing Cemented from Surface by Rig Crew. 8-5/8" Casing set on a float shoe, 5-1/2" Casing Set on a Formation Packer Shoe. Casing Centralizers spaced on 8-5/8" Casing, Centralizers and Wall Scrapers spaced on 5-1/2" Casing. Good Return of Cement on 8-5/8" and 5-1/2" Casings.

Drilling Completed Sept. 12, 1962 No Maxton Sand

Plug Down Pressures

8-5/8" 700#

5-1/2" 700#

Attach additional sheets and forward to Production Dept. Pittsburgh General Office

Verified by [signature] DIVISION ENGINEER

Approved by [signature] DIVISION SUPERINTENDENT

5100479W

PG-10

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

4731

Quadrangle _____

WELL RECORD

Permit No. MARS-479

Oil or Gas Well GAS (KIND)

Company The Mfrs. Lt. and Ht. Co.
Address 800 Union Trust Bldg., Pittsburgh 19, Pa.
Farm Margaret Walton Acres 104
Location (waters) _____
Well No. 4731 Elev. 1346.2'
District Liberty County Marshall
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced [illegible]
Drilling completed September 12, 196[illegible]
Date Shot [illegible] From Big Injun To _____
With Side Static Tester
Open Flow /10ths Water in _____ Inch
41 PSIG /10ths Merg. in 4 1/2 Inch
Volume 34,158,000 Cu. Ft.
Rock Pressure 780 lbs. 72 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13 3/8"	33'	33'	
10			Size of
8¼ 5/8"	1093'	1093'	
6⅝			Depth set
5 3/16 1/2"	2189'	2189'	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

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

COAL WAS ENCOUNTERED AT 1034 FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Xxxxx	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
		THICKNESS					
Pittsburgh Coal		8	1034	1042			
Murphy Sand		7	1163	1170			
Big Dunkard		30	1590	1620			
First Salt Sand		14	1838	1852			
Second Salt Sand		8	1950	1958			
Big Lime		40	2114	2154			
Big Injun			2156				
Total Depth				2338			
5 1/2" Casing set at			2130				
Maximum Depth logged				2305'			

(Over)

5100479W

Form PD-44b CSD

COLUMBIA GAS SYSTEM – PITTSBURGH GROUP COMPANIES

WELL LOG SUMMARY

1 of 1 Sheets

4731

DIV.	FIELD	FARM	COUNTY	WELL NO.
4	Cameron, West Virginia	Margaret Walton	Marshall	4731

ORIGIN OF FORMATION DEPTHS ☐ Driller's Log ☒ Service Company Log ☐ Combination

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS (Water, Gas, Oil encountered-Open Flows-Rock Pressure-etc.)
Pittsburgh Coal	1034	1042	8'	
Murphy Sand	1163	1170	7'	
Big Dunkard	1590	1620	30'	
First Salt Sand	1838	1852	14'	
Second Salt Sand	1950	1958	8'	
Big Lime	2114	2154	40'	
Big Injun	2156			
Total Depth		2338		Note: 17-1/4" Hole drilled to 36'. Run 33' of 13-3/8" Casing, Sm. Gr. H 32#, and cemented it with 30 Bags of Cement by Rig Crew.
5-1/2" Casing Set at	2190			
Maximum Depth Logged	2305			Drilled 12-1/4" hole to 1108'. Run 1100' of 8-5/8" Casing, Sm. Gr. J 24# on a Float Shoe Set at 1093'. Cemented with 500 bags of cement, 4 bags of Flocele, 14 bags of Calcium Chloride, and 19 Bags of Aquagel, 14.5# Per Gal. Good Return of Cement at the surface.
				Drilled 7-7/8" hole to 1723' with air. Changed to gas and drilled to 2298'. Well killed at 2298' with 9.8# of Mud, (225 Bags of Baroid, 30 Bags of Hydrotan 25 Bags of Aquagel, 18 Bags of Micatex, and 3 Bags of Cellex.) 7-7/8" hole drilled from 2298' to 2338' under Mud. Run 2210' of 5-1/2" Casing, Sm. Gr. J 17# on a Formation Packer Shoe set at 2190'. Cemented it with 500 Bags of Cement, 2 Bags of Hydrotan, and 4 Bags of Flocele 14.5# Per Gal. Good Return of Cement at the surface. No Maxton Sand was found in drilling this Well.
				All Depths shown above are Ground Level.

5100479W

WW-2A
(Rev. 6-14)

1). Date: 3/11/2016

2.) Operator's Well Number Victory B 4731

3.) API Well No.: 47- State 051 County - 00479 Permit

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

4) Surface Owner(s) to be served:
(a) Name Mason Dixon Farms, LLC
Address PO Box 360911
Melbourne, FL 32936
(b) Name
Address
(c) Name
Address

5) (a) Coal Operator
Name Consolidation Coal
Address 1000 Consol Energy Dr
Canonsburg, PA 15317
(b) Coal Owner(s) with Declaration
Name Consolidation Coal
Address 1000 Consol Energy Dr
Canonsburg, PA 15317
Name
Address

6) Inspector Eric Blend
Address PO Box 2115
Wheeling, WV 26003
Telephone 304-552-1179

(c) Coal Lessee with Declaration
Name N/A
Address

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

___ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

OR

x Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:

_____ Personal Service (Affidavit attached)
X Certified Mail (Postmarked postal receipt attached)
_____ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Columbia Gas Transmission, LLC
By: James E. Amos
Its: Senior Well Services Engineer
Address: 1700 MacCorkle Ave. SE
Charleston, WV 25325-1273
Telephone: 304-483-0073
Email: jamos@cpg.com

Subscribed and sworn before me this 14th day of March 2016

Mary Marie Clendenin Notary Public

My Commission Expires 3/22/2020

NOTARY PUBLIC OFFICIAL SEAL
MARY MARIE CLENDENIN
State of West Virginia
My Comm. Expires Mar 22, 2020
Columbia Pipeline Group
48 Columbia Gas Road Sandyville, WV 25275

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Office of Oil & Gas
MAR 18 2016
WV Dept. of Environmental Protection

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

5100479W

WW-2A1
(Rev. 1/11)

Operator's Well Number Victory B 4731

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
L.E. Mason & R.R. Blake (attorney in fact (for J. Walker Blake)	Columbia Gas Transmission, LLC	Storage lease 3032014	326 / 151

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.

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Office of Oil and Gas
APR 04 2016
WV Department of
Environmental Protection

Well Operator: Columbia Gas Transmission, LLC
By: James E. Amos - Senior Well Service Engineer
Its: James E. Amos

5100479 W

WW-9
(2/15)

API Number 47 - 051 - 00479
Operator's Well No. Victory B 4731

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Columbia Gas Transmission, LLC OP Code 307032

Watershed (HUC 10) Fish Creek Quadrangle Cameron, WV

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: _____

Will a synthetic liner be used in the pit? Yes ☐ No ☐ If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- ____ Land Application
- ■ Underground Injection (UIC Permit Number 34-105-23619, 34-121-22459, 34-059-20965)
- ____ Reuse (at API Number _____)
- ____ Off Site Disposal (Supply form WW-9 for disposal location)
- ■ Other (Explain Rumpke Beech Hollow Landfill, Wellston, OH

DMH
3-16-16

Will closed loop system be used? If so, describe: yes - steel lines to steel portable tank

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? N/A

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? _____

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 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

Company Official (Typed Name) James E. Amos

Company Official Title Senior Well Services Engineer

RECEIVED
Office of Oil and Gas
APR 04 2016
WV Department of Environmental Protection

Subscribed and sworn before me this 14th day of March, 2016

Mary Marie Clendenin Notary Public

My commission expires 3/22/2020

NOTARY PUBLIC OFFICIAL SEAL
MARY MARIE CLENDENIN
State of West Virginia
My Comm. Expires Mar 22, 2020
Columbia Pipeline Group
40 Columbia Gas Road Sandyville, WV 25275

5100479W

Form WW-9

Operator's Well No. Victory B 4731

Columbia Gas Transmission, LLC

Proposed Revegetation Treatment: Acres Disturbed 0.5 Prevegetation pH 6

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-10-10

Fertilizer amount 600 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass and/or Tall Fescue	29	(if Tall Fescue is used, plant endophyte-free certified seed)	
Birdsfoot Trefoil (Empire)	9	(legumes to be inoculated by manufacturer's recommendation)	
Annual Rye	12		

* seed rate must be doubled for broadcast seeding

Attach:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [signature]

Comments:

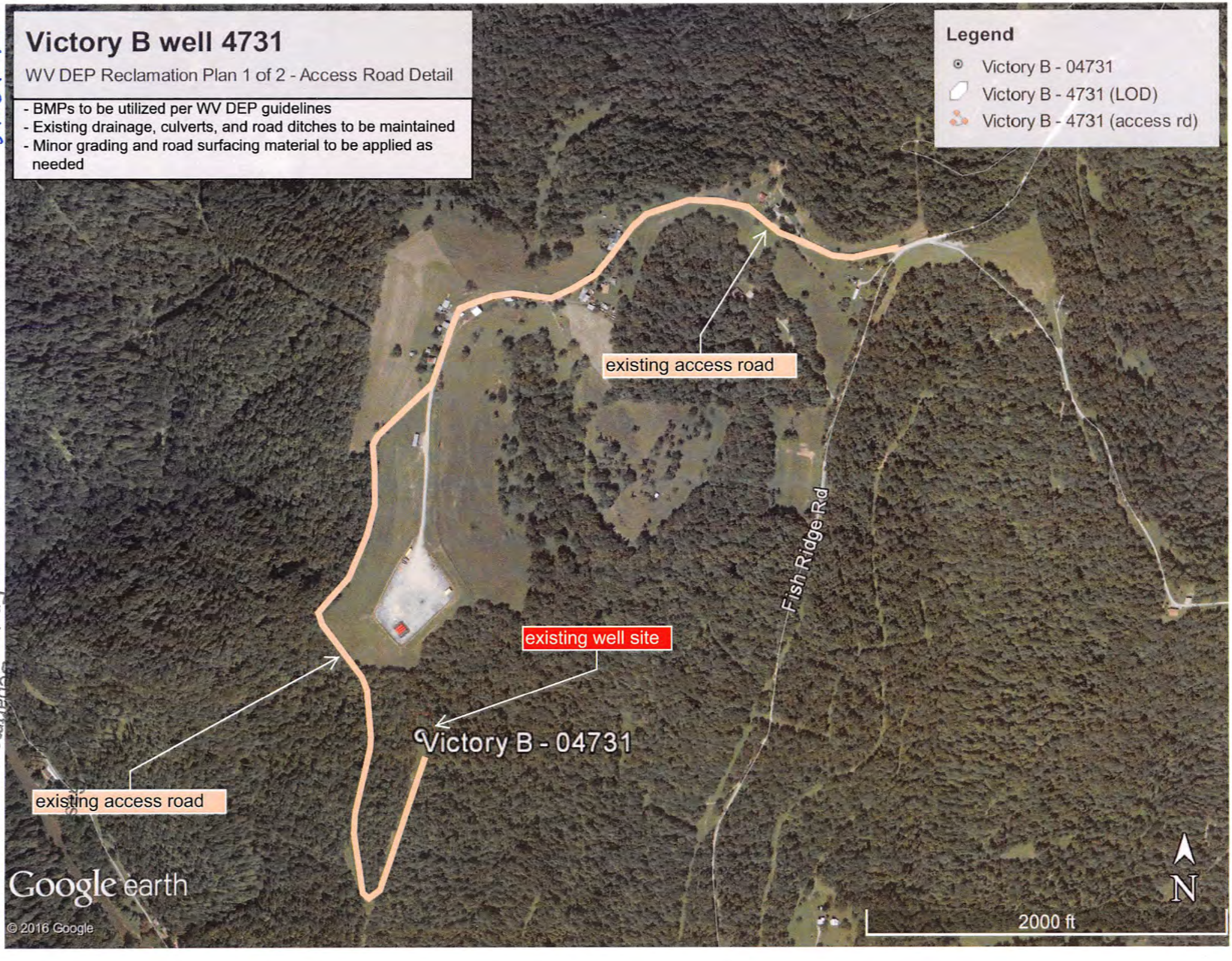
Title: Oil + Gas Inspector Date: 3-16-16

Field Reviewed? (✓) Yes ( ) No

Victory B well 4731

WV DEP Reclamation Plan 1 of 2 - Access Road Detail

- BMPs to be utilized per WV DEP guidelines
- Existing drainage, culverts, and road ditches to be maintained
- Minor grading and road surfacing material to be applied as needed



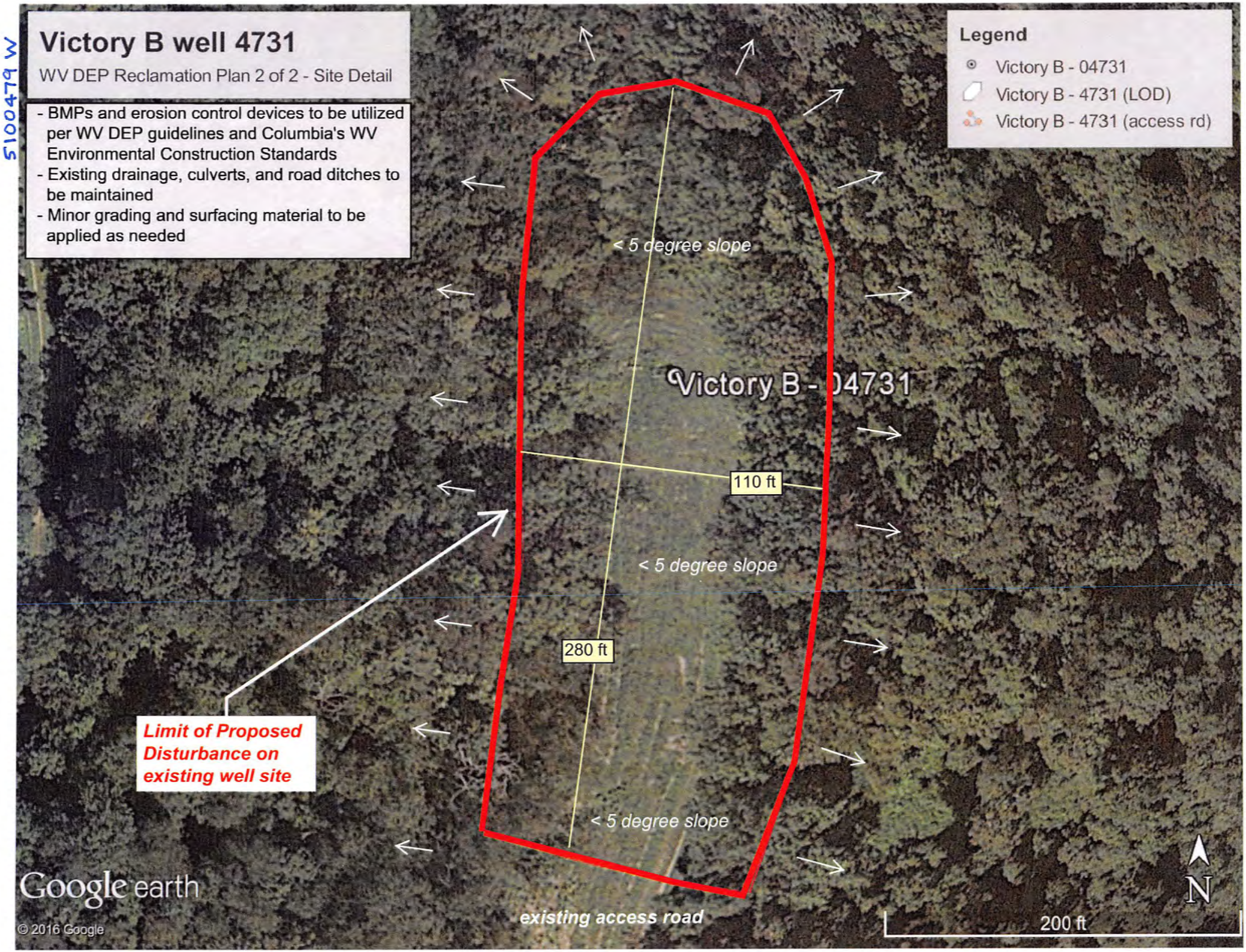
Environmental Protection

5100479 W

Victory B well 4731

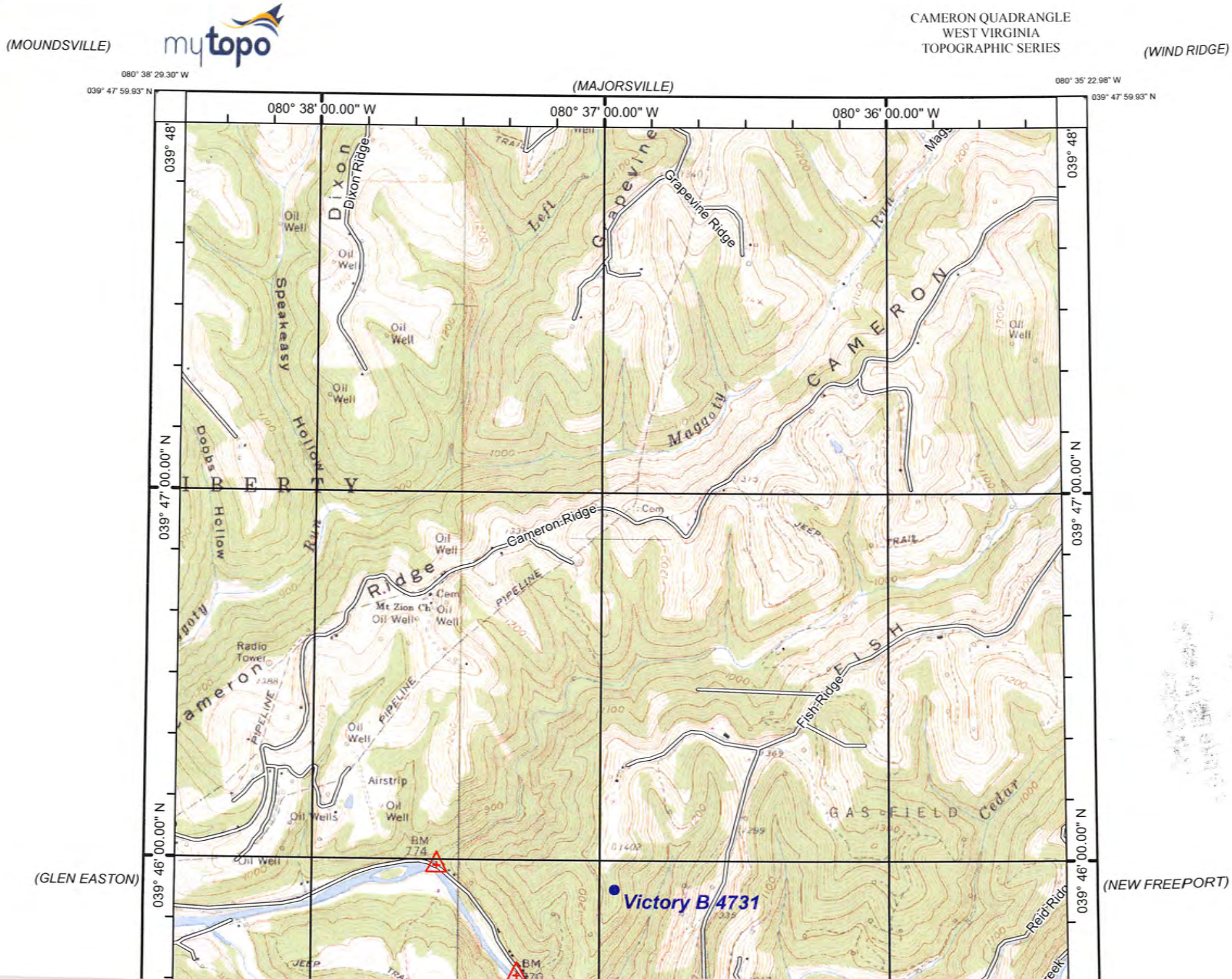
WV DEP Reclamation Plan 2 of 2 - Site Detail

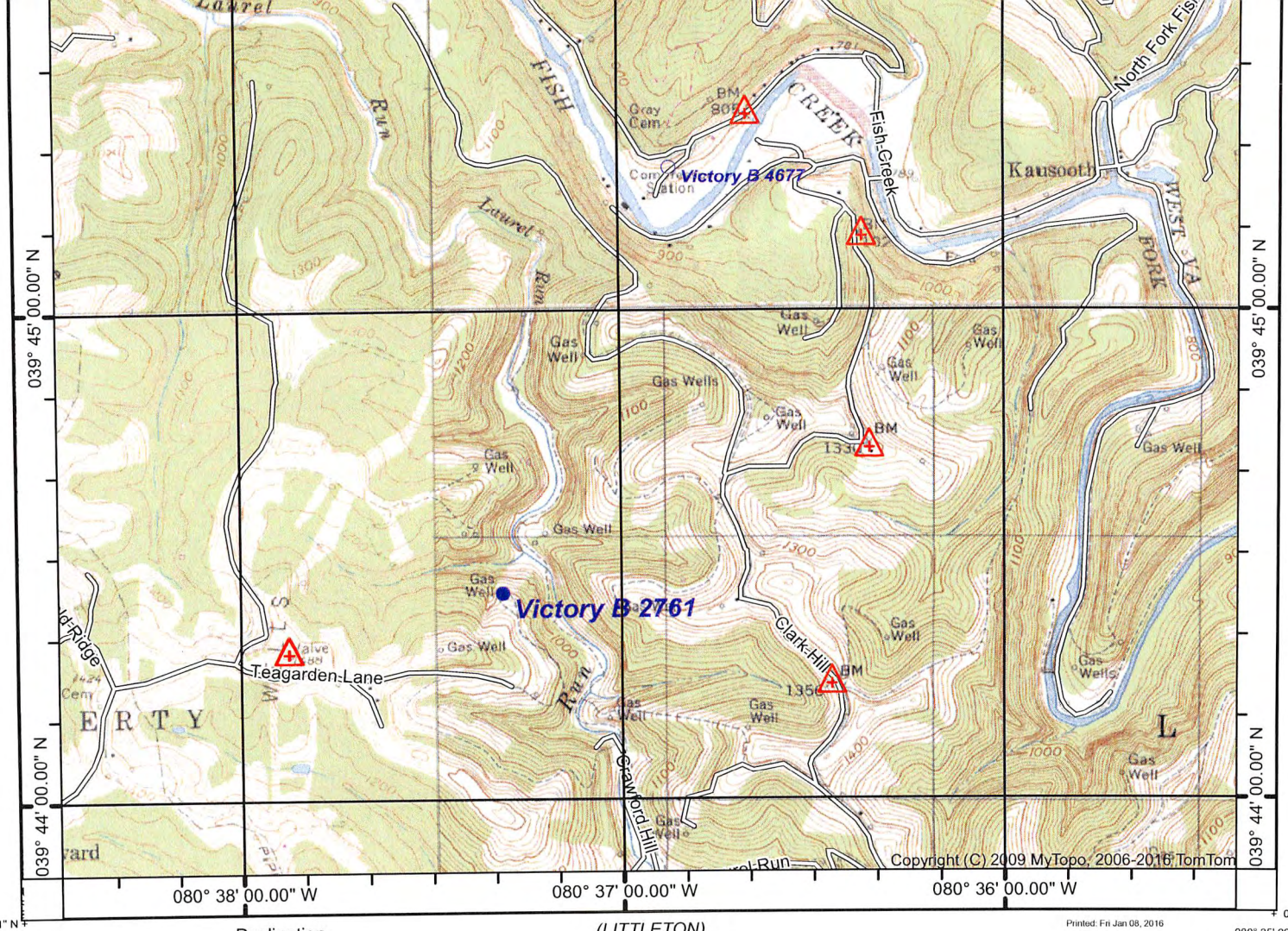
- BMPs and erosion control devices to be utilized per WV DEP guidelines and Columbia's WV Environmental Construction Standards
- Existing drainage, culverts, and road ditches to be maintained
- Minor grading and surfacing material to be applied as needed



5100479W

CAMERON QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES





(LITTLETON)

SCALE 1:24000

(WILEYVILLE)

(HUNDRED)

Declination

MN GN

GN 0.24° E
MN 8.72° W

0 1 MILE

0 1000 2000 YARDS

0 1 2 KILOMETERS

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM 1929

Produced by MyTopo Terrain Navigator
Topography based on USGS 1:24,000 Maps

North American 1983 Datum (NAD83)
Polyconic Projection

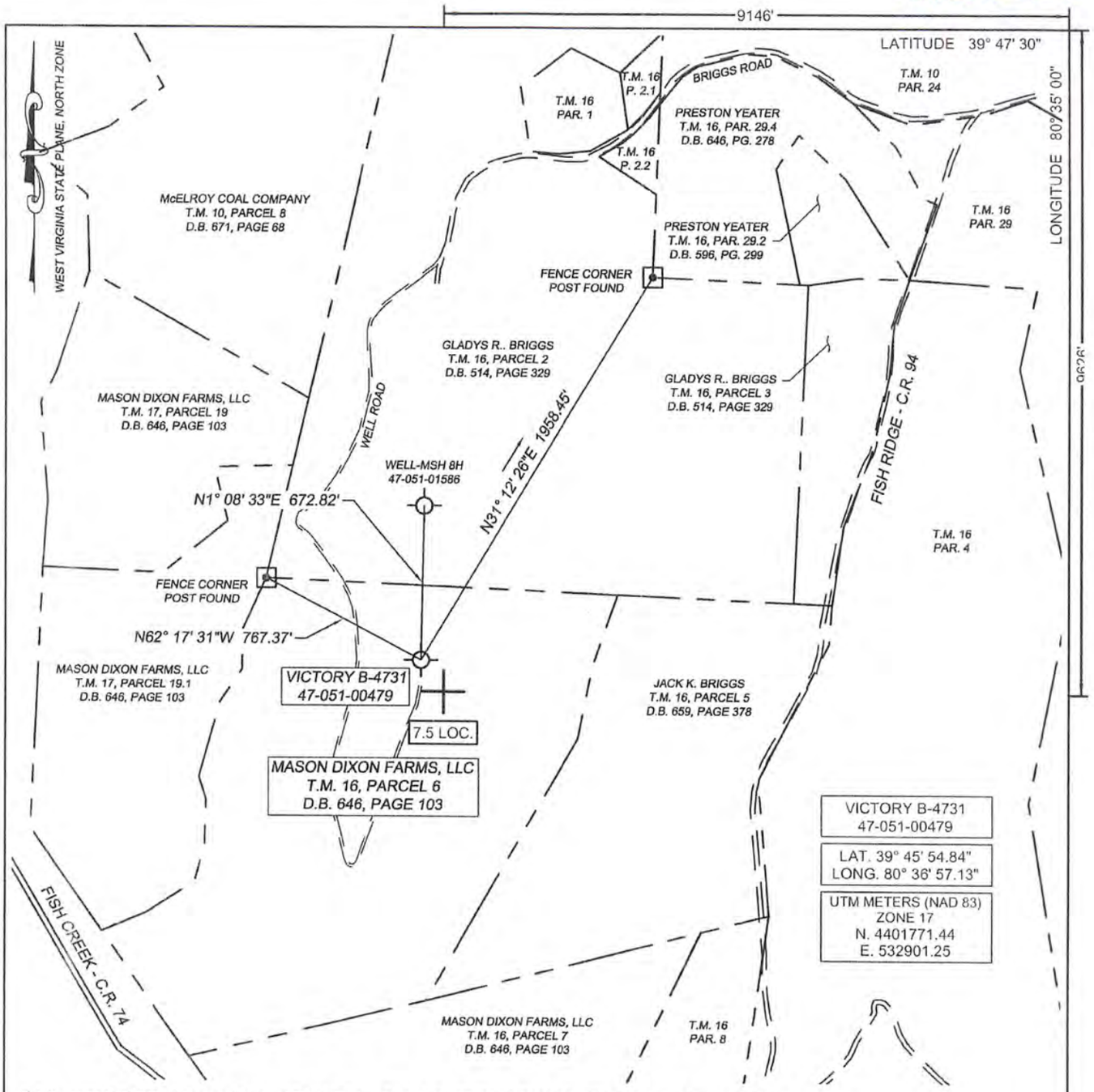
To place on the predicted North American 1927 move the projection lines 9M N and 17M E

CAMERON, WV
1960

RECEIVED
Office of Oil and Gas
APR 04 2016
WV Dep

DM 4
3-16-16

5100479 W



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

FILE No 1601-2345-001-010
DRAWING No. VICTORY B-4731
SCALE 1"=600'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION TRIMBLE R8-3 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) R. F. Thaw
ROBERT F. THAW PS #965

ROBERT F. THAW LICENSED No. 965 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

PLACE SEAL HERE

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

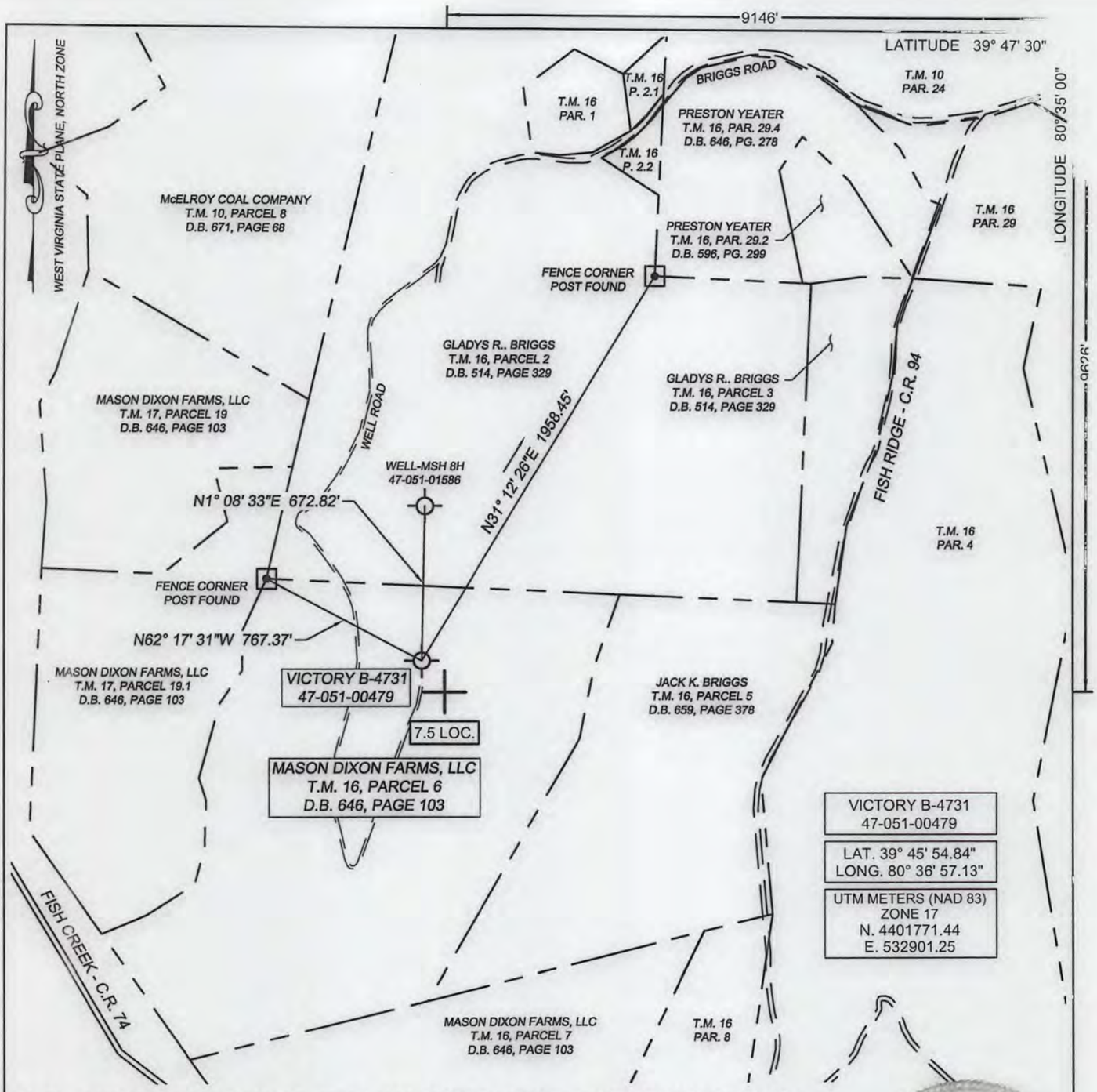
DATE MARCH 8 2016
OPERATOR'S WELL No. 4731
API WELL No. 47 — 051 — 00479
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW X
LOCATION: ELEVATION 1341.0' WATER SHED FISH CREEK
DISTRICT LIBERTY COUNTY MARSHALL
QUADRANGLE CAMERON, WV
SURFACE OWNER MASON DIXON FARMS, LLC ACREAGE 69.7+/-
OIL & GAS ROYALTY OWNER L. E. MASON AND R. R. BLAKE LEASE ACREAGE 99.72
LEASE No. 3032014
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ___

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION BIG INJUN ESTIMATED DEPTH 2307
WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT PAUL AMICK
ADDRESS PO BOX 1273, CHARLESTON, WV 25325-1273 ADDRESS P.O. BOX 1273, CHARLESTON W.V. 25325-1273

FORM IV-6 (8-78)

P:\2016\1601-2345-001-010-COLUMBIA-VICTORY B-4731\50-SURVEY\DWG\VICTORY-B-4731-WELL PLAT.DWG



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47 051 — 00479W
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