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: 47-10300220, 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: VICTORY A 4386
Farm Name: MCMAHON, AUGUSTUS III
API Well Number: 47-10300220
Permit Type: Re-Work
Date Issued: 05/12/2016

10300220W

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.

OOC A. 103 00220 W

FORM 109 C 6 D

CARNEGIE WELL 1540

The Manufacturers Light & Heat Company
Company

Division 4

Record of well No. (F-15774) 2-4386 on Nancy J. Rush Farm 53 Acres

Reader Victory Storage Field Proctor District Wetzel County W. Va. State

Rig Commenced April 28, 1955, Completed May 2, 1955

Drilling Commenced May 2, 1955, Completed June 3, 1955

Contractor Haught Dlg. Co. Address Smithville, W. Va.

Driller's Name Earnest Haught, Dutch Tenant Tool Dressers Bob Strickling, Earnest Haught Jr.

CASING AND TUBING RECORD

	Conductor	13"	10"	8 1/4"	7"	6 5/8"	5 3/16"	4"	3"		
Used in Drlg.					(Measured with threads on)						
Left in well				1374'0"	1893'0"						

PACKER RECORD / SHOOTING RECORD

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH Top	DEPTH Bottom	Volume Before Cu. Ft.	Volume After Cu. Ft.

VOLUME AND PRESSURE

Date	Reading in Inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN. 1	5	10	30	60	24 Hour R. P.	Max. R. P.	Hours
6-3-55	3.0	Water	1"	42.935	Maxton	1	5	-	-	-	-	22	72

TOTAL INITIAL OPEN FLOW CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Clg Out to		1912		Schlumberger Measurement
Dlg. New Hole	1912	1922		
Set Lead Plug	1922	1921		Used 8" Steel Die Nipple to screw on to
Clay and Stone	1921	1880		422' of old 8" Casing
Lift 1872' of 6 5/8" Casing				
Bridged hole at		1000		Casing Point 8" Casing 945'3" Run 2 bags
Filled with clay	1000	960		Gel and 250 bags Cement. Good return to surfa
Cut 8" at 945'3" and lifted				
Clg. out to		1921		Casing point 7" Casing 1880' Run 2 bags Gel
Clay and Stone	1921	1916		and 225 bags Cement. Good return to surface.
Set Lead Plug		1916		
Total Depth		1916		
Top of Maxton Sand	1878			
Bottom of Maxton Sand		1921		

Reconditioned for storage on Work Order No. 1551-L-857-4

Examined above information and measurements and found to be correct by

Haught Drilling Company Contractor

Examined and Approved by

Robert E. Lee Field Superintendent

NOTE—The above blank must be filled out carefully by the contractor, with a complete and accurate record of the well, and accompany, when presented for payment of the bill for drilling. All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or water was found, the quantity of same, the quality of the sand, and thickness of pay.

47-103-00220

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	Wetzel	Proctor	Wileyville, WV
		Operator ID	County	District	Quadrangle

2) Operator's Well Number: Victory A 4386 3) Elevation: 1105.4 ft

4) Well Type: (a) Oil _____ or Gas X

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

Deep _____ / Shallow X

5) Proposed Target Formation(s): Maxton Proposed Target Depth: 1876
6) Proposed Total Depth: 1922 (existing) Feet Formation at Proposed Total Depth: Maxton
7) Approximate fresh water strata depths: 885' in Pittsburgh Coal (as per driller in 1939)
8) Approximate salt water depths: 1676' in Salt Sand (as per driller in 1939)

9) Approximate coal seam depths: Pittsburgh Coal 885 - 894'

10) Approximate void depths,(coal, Karst, other): none reported by driller in 1939

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

DAV 3-16-16

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

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						
Fresh Water	10.75			254	5 - 254	no record of cement
Coal	8.625	J-55	25	945	945	250 sx
Intermediate						
Production	7	H-40	17	1873	1873	yes, but no record of amount SEE ATTACHED DOC. A 225 SX
Tubing						
Liners						

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Packers: Kind: _____
Sizes: _____
Depths Set _____

103-00220W

SUPPLEMENT TO WV DEP WW-2B PERMIT APPLICATION
Victory A 4386 (API 103-00220)

12) Proposed Acid Treatment

- 500 - 1000 gals HCl acid
- 20% nitrogen assist
- 50 – 100 bbls fresh water

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10300220W

WR-35
Rev. 8/23/13

Page ___ of ___

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47- 103 - 00220 County Wetzel District Proctor
Quad Wileyville Pad Name _____ Field/Pool Name Victory A
Farm name McMahon, Augustus III Well Number 4386
Operator (as registered with the OOG) Columbia Gas Transmission, LLC
Address 1700 MacCorkle Ave SE City Charleston State WV Zip 25325-1273

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing _____ Easting _____
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1110 GL Type of Well □New ■ Existing Type of Report □Interim ■Final

Permit Type □ Deviated □ Horizontal □ Horizontal 6A ■ Vertical Depth Type □ Deep ■ Shallow

Type of Operation □ Convert □ Deepen □ Drill □ Plug Back □ Redrilling ■ Rework □ Stimulate

Well Type □ Brine Disposal □ CBM □ Gas □ Oil □ Secondary Recovery □ Solution Mining ■ Storage □ Other _____

Type of Completion ■ Single □ Multiple Fluids Produced □ Brine ■Gas □ NGL □ Oil □ Other _____
Drilled with □ Cable □ Rotary

Drilling Media Surface hole □ Air □ Mud □Fresh Water Intermediate hole □ Air □ Mud □ Fresh Water □ Brine
Production hole □ Air □ Mud □ Fresh Water □ Brine
Mud Type(s) and Additive(s)

_____

_____

Date permit issued 6/07/13 Date drilling commenced _____ Date drilling ceased _____
Date completion activities began 8/22/13 Date completion activities ceased 9/30/13
Verbal plugging (Y/N) _____ Date permission granted _____ Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft _____ Open mine(s) (Y/N) depths _____
Salt water depth(s) ft _____ Void(s) encountered (Y/N) depths _____
Coal depth(s) ft _____ Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) _____

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Reviewed by: _____

1030022OW

WR-35
Rev. 8/23/13

Page ___ of ___

API 47- 103 - 00220 Farm name McMahon, Augustus III Well number 4386

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor							
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							
Packer type and depth set							

Comment Details No existing casing was altered and no additional casing installed during permitted well work.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft^3/sks)	Volume (ft^3)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) _____ Loggers TD (ft) _____
Deepest formation penetrated _____ Plug back to (ft) _____
Plug back procedure _____

Kick off depth (ft)_____

Check all wireline logs run ☐ caliper ☐ density ☐ deviated/directional ☐ induction
☐ neutron ☐ resistivity ☐ gamma ray ☐ temperature ☐sonic

Well cored ☐ Yes ☐ No ☐ Conventional ☐ Sidewall Were cuttings collected ☐ Yes ☐ No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

WAS WELL COMPLETED AS SHOT HOLE ☐ Yes ■ No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? ■ Yes ☐ No DETAILS _____

WERE TRACERS USED ☐ Yes ■ No TYPE OF TRACER(S) USED _____

WR-35
Rev. 8/23/13

Page ___ of ___

API 47- 103 - 00220 Farm name McMahon, Augustus III Well number 4386

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	9/27/13	0.1	1400	N/A	N/A	0	0	400 gal acid

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Please insert additional pages as applicable.

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WR-35
Rev. 8/23/13

Page ___ of ___

API 47- 103 - 00220 Farm name McMahon, Augustus III Well number 4386

PRODUCING FORMATION(S)	DEPTHS	
Maxton (storage)	____ TVD	1876 - 1912 MD

Please insert additional pages as applicable.

GAS TEST □ Build up □ Drawdown □ Open Flow OIL TEST □ Flow □ Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY □ Estimated □ Orifice □ Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H_2S, ETC)
	0		0		

Please insert additional pages as applicable.

Drilling Contractor _____
Address _____ City _____ State _____ Zip _____

Logging Company _____
Address _____ City _____ State _____ Zip _____

Cementing Company _____
Address _____ City _____ State _____ Zip _____

Stimulating Company Universal Well Services
Address Route 5, Hall Rd City Buckhannon State WV Zip 26201
Please insert additional pages as applicable.

Completed by Jim Amos Telephone 304-483-0073
Signature Jim E Amos Title Senior Engineer Date 10/01/13

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

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1030022206

WW-2A
(Rev. 6-14)

1). Date: 3/11/2016

2.) Operator's Well Number Victory A 4386

3.) API Well No.: State 47- County 103 - Permit 00220

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 Augustus R. McMahon, II
Address 208 Mountain Brook Rd
Sylva, NC 28779
(b) Name
Address
(c) Name
Address

5) (a) Coal Operator
Name CNX RCPC LLC
Address 1000 Consol Energy Dr
Canonsburg, PA 15317
(b) Coal Owner(s) with Declaration
Name CNX RCPC LLC
Address 1000 Consol Energy Dr
Canonsburg, PA 15317
Name
Address
(c) Coal Lessee with Declaration
Name N/A
Address

6) Inspector Derek Haught
Address PO Box 85
Smithville, WV 26178
Telephone 304-206-7613

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

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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
1700 MacCorkle Ave. SE, Charleston, WV 25275

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

103002200W

WW-2A1
(Rev. 1/11)

Operator's Well Number Victory A 4386

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
Sadie Rush, et al	Columbia Gas Transmission, LLC	Storage lease 3195422	63 / 517

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

10300 220W

WW-9
(2/15)

API Number 47 - 103 - 00220
Operator's Well No. Victory A 4386

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) Lynn Camp Run Quadrangle Wileyville, 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

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

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

DMH
3-16-16

1030022OW

Form WW-9

Operator's Well No. Victory A 4386

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:

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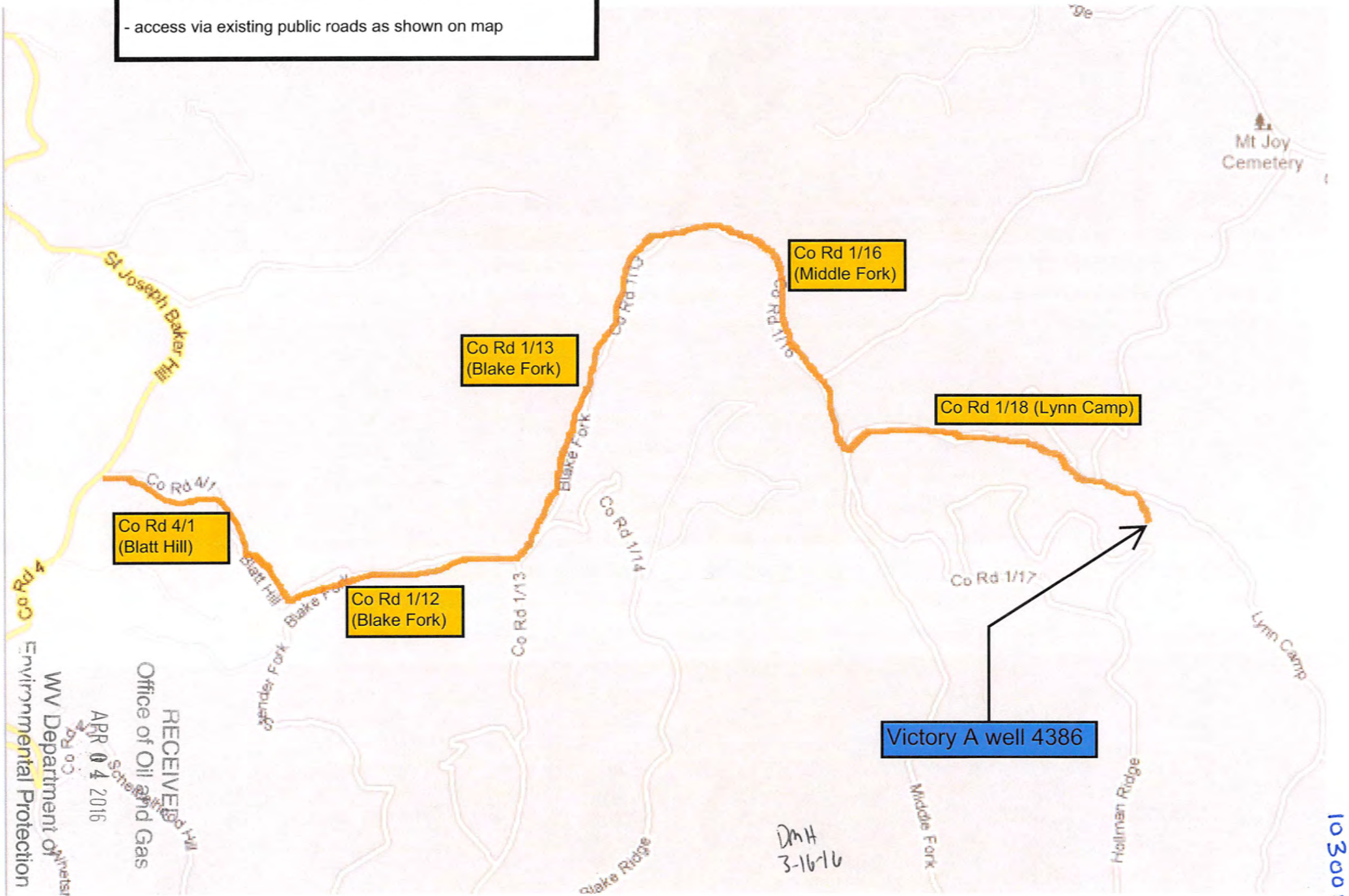
Title: Oil & Gas Inspector Date: 3-16-16

Field Reviewed? (✓) Yes ( ) No

RECLAMATION PLAN 1 of 2 - Access to Well Site

- access via existing public roads as shown on map



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10300 22cw

Victory A well 4386
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
Legend
Victory A - 04386
Victory A 4386 LOD
Victory A 4386 road
existing access road
< 5 degree slope
Victory A - 04386
< 5 degree slope
70 ft
170 ft
existing access road
Limit of Proposed Disturbance on existing well site
Google earth
© 2016 Google
N
80 ft
10300220W

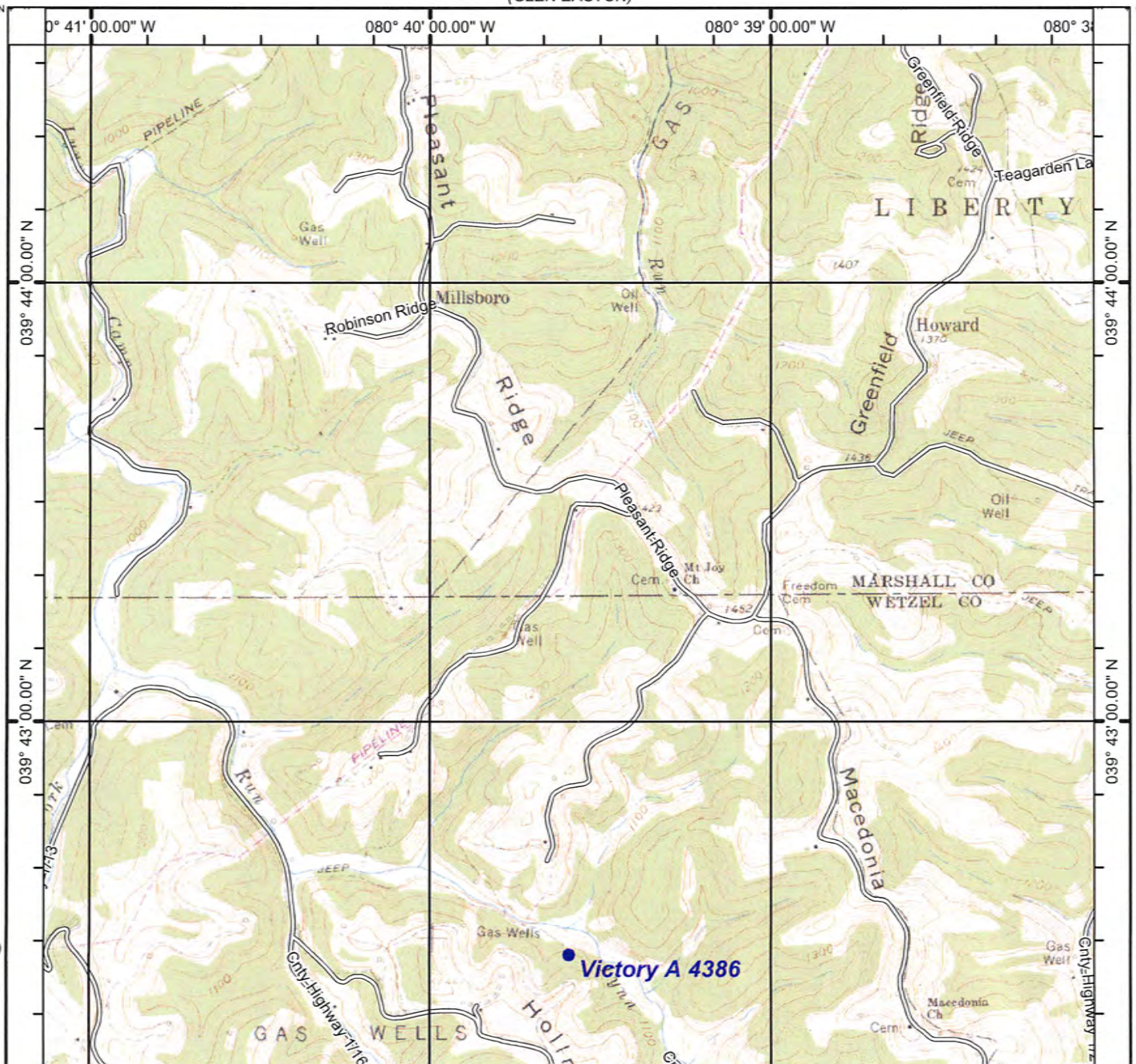
103002200W

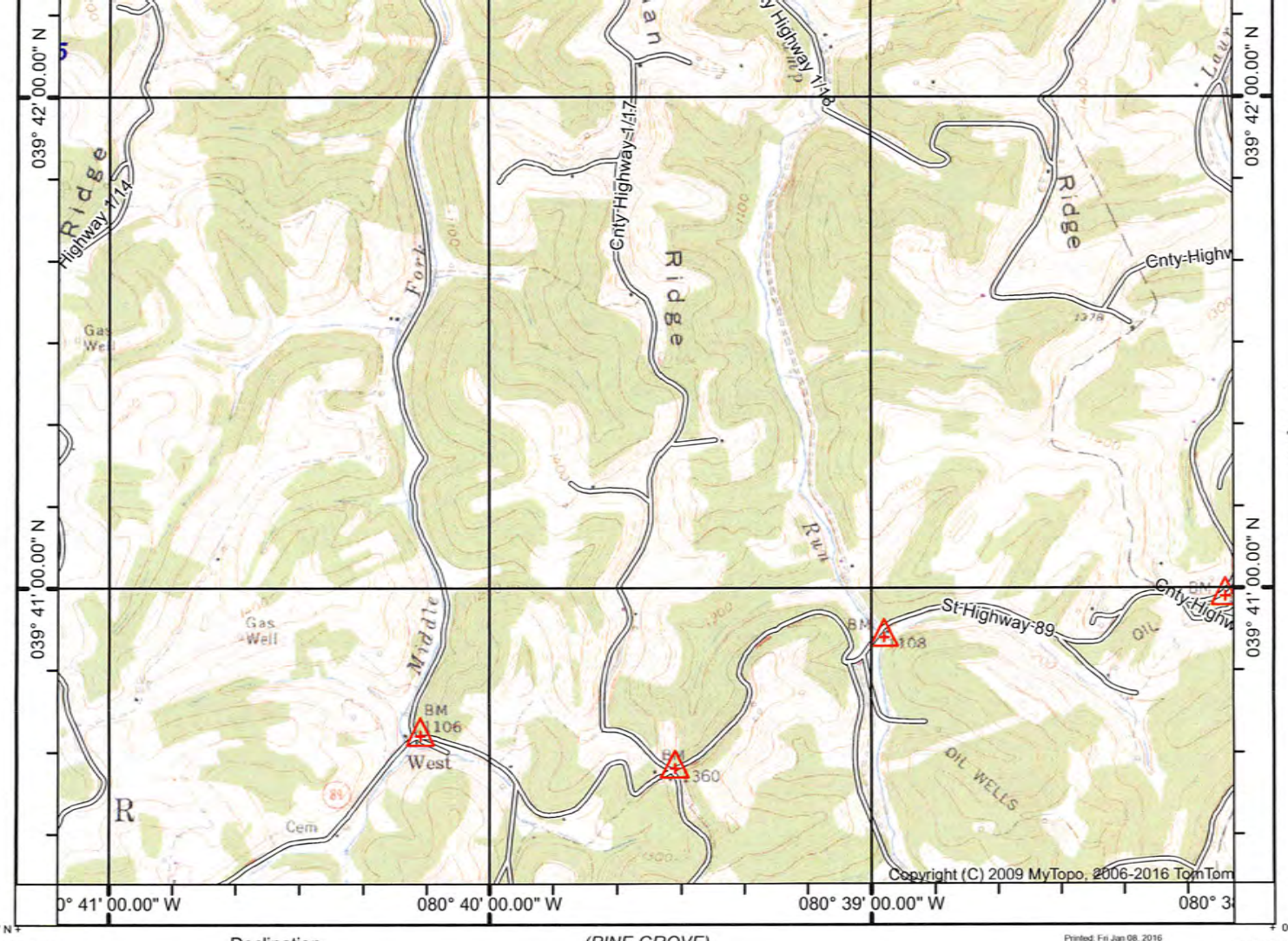
mytopo

WILEYVILLE QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES

(POWHATAN POINT) (GLEN EASTON) (CAMERON)

(NEW MARTINSVILLE) (LITTLETON)





039° 40' 23.68" N
080° 41' 08.50" W

Printed: Fri Jan 08, 2016

039° 40' 23.68" N
080° 38' 02.33" W

DMH
3-16-16

(PORTERS FALLS)

(PINE GROUP)

(BIG RUN)

SCALE 1:24000

Declination

MN GN

GN 0.22° E
MN 8.68° 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 16M E

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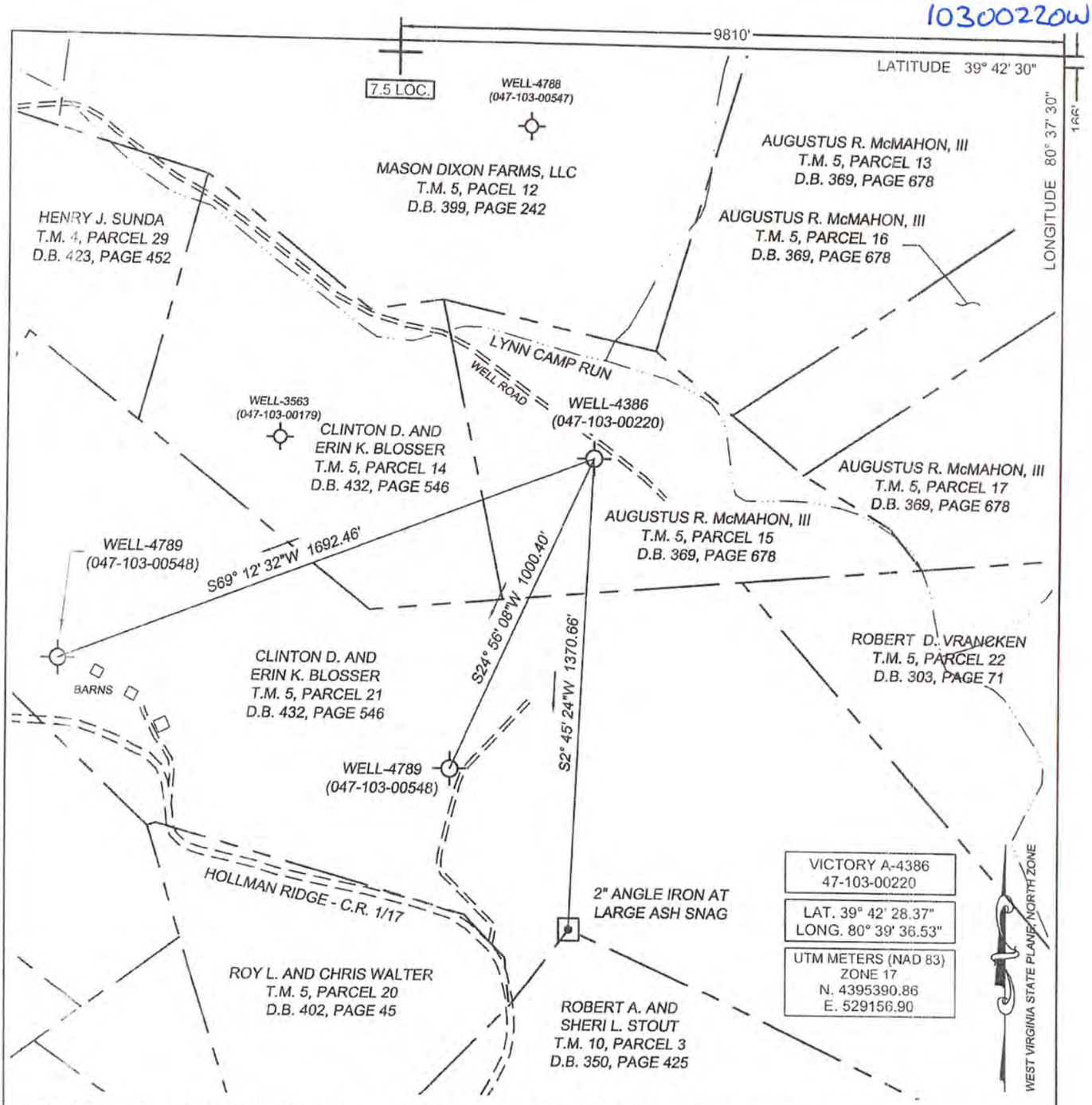
WILEYVILLE, WV
1960

1030022OW



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

FILE No 1601-2345-001-009
DRAWING No. VICTORY A-4386
SCALE 1"=400'
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. 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 4 2016
OPERATOR'S WELL No. 4386
API WELL No. 47 103 — 00220
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW X

LOCATION: ELEVATION 1105.4' WATER SHED LYNN CAMP RUN
DISTRICT PROCTOR COUNTY WETZEL
QUADRANGLE WILEYVILLE, WV
SURFACE OWNER AUGUSTUS R. McMAHON, II ACREAGE 12.25+/-
OIL & GAS ROYALTY OWNER SADIE RUSH, ET AL LEASE ACREAGE 15
LEASE No. 3195422

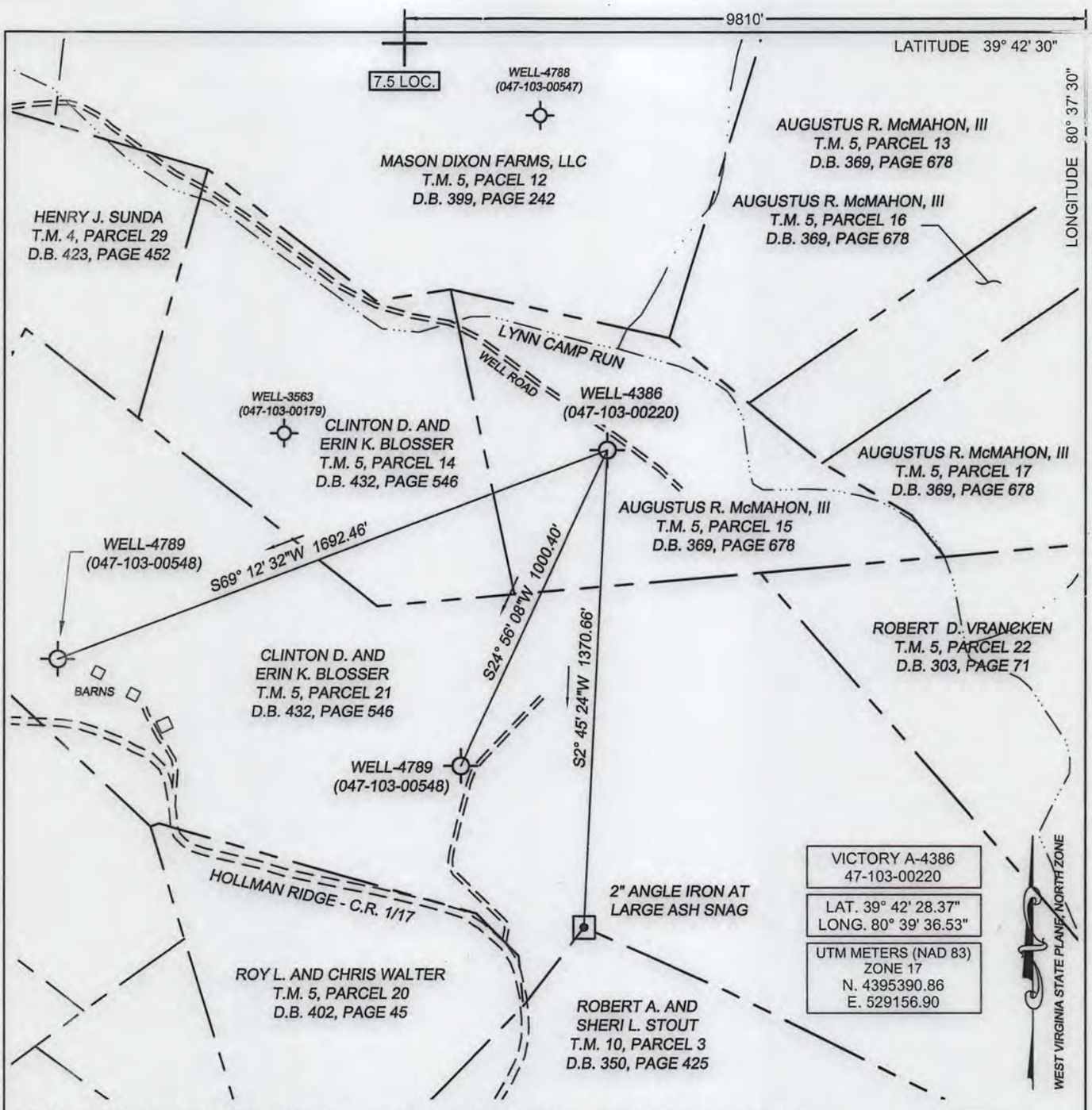
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ___

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION MAXTON ESTIMATED DEPTH 1922
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\1601-2345-001-009-COLUMBIA-VICTORY A-4386\50-SURVEY\DWG\VICTORY-A-4386-WELL-PLAT.DWG



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DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
NITRO, WV

DATE MARCH 4 2016
OPERATOR'S WELL No. 4386
API WELL No. 47 103 — 00220W
STATE COUNTY PERMIT

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(IF "GAS") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW X

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