



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Tuesday, September 11, 2018
WELL WORK PLUGGING PERMIT
Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC
1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for 2265
47-051-00763-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over a faint, light blue circular stamp or watermark.

Operator's Well Number: 2265
Farm Name: MASON DIXON FARMS, LLC
U.S. WELL NUMBER: 47-051-00763-00-00
Vertical Plugging
Date Issued: 9/11/2018

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

1) Date 7/3, 2018
2) Operator's
Well No. Victory B 2265
3) API Well No. 47-051-00763

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 x

5) Location: Elevation 762.0 ft Watershed Fish Creek
District Liberty County Marshall Quadrangle Cameron, WV

6) Well Operator Columbia Gas Transmission, LLC 7) Designated Agent James Amos
Address 1700 MacCorkle Ave SE Address 48 Columbia Gas Rd
Charleston, WV 25325 Sandyville, WV 25275

8) Oil and Gas Inspector to be notified Name James Nicholson
Address PO Box 44
Moundsville, WV 26041
9) Plugging Contractor Name Contractor Services Inc
Address 929 Charleston Rd
Spencer, WV 25276

10) Work Order: The work order for the manner of plugging this well is as follows:
* refer to "prior to P&A" and "proposed P&A" wellbore schematics included in permit application
Kill well. Obtain cement bond log. Clean well to TD and install bottom cement plug from TD - 1300'.
Install cast iron bridge plug @ +/-1280'. Perforate @ 1000' and 700'. Spot cement plug from
top of bridge plug to 400' and attempt to squeeze cement. Pull all 7" and 8-5/8" casing that
is free. Spot cement plug from top of last plug to surface. Top off all annuli. Install monument.

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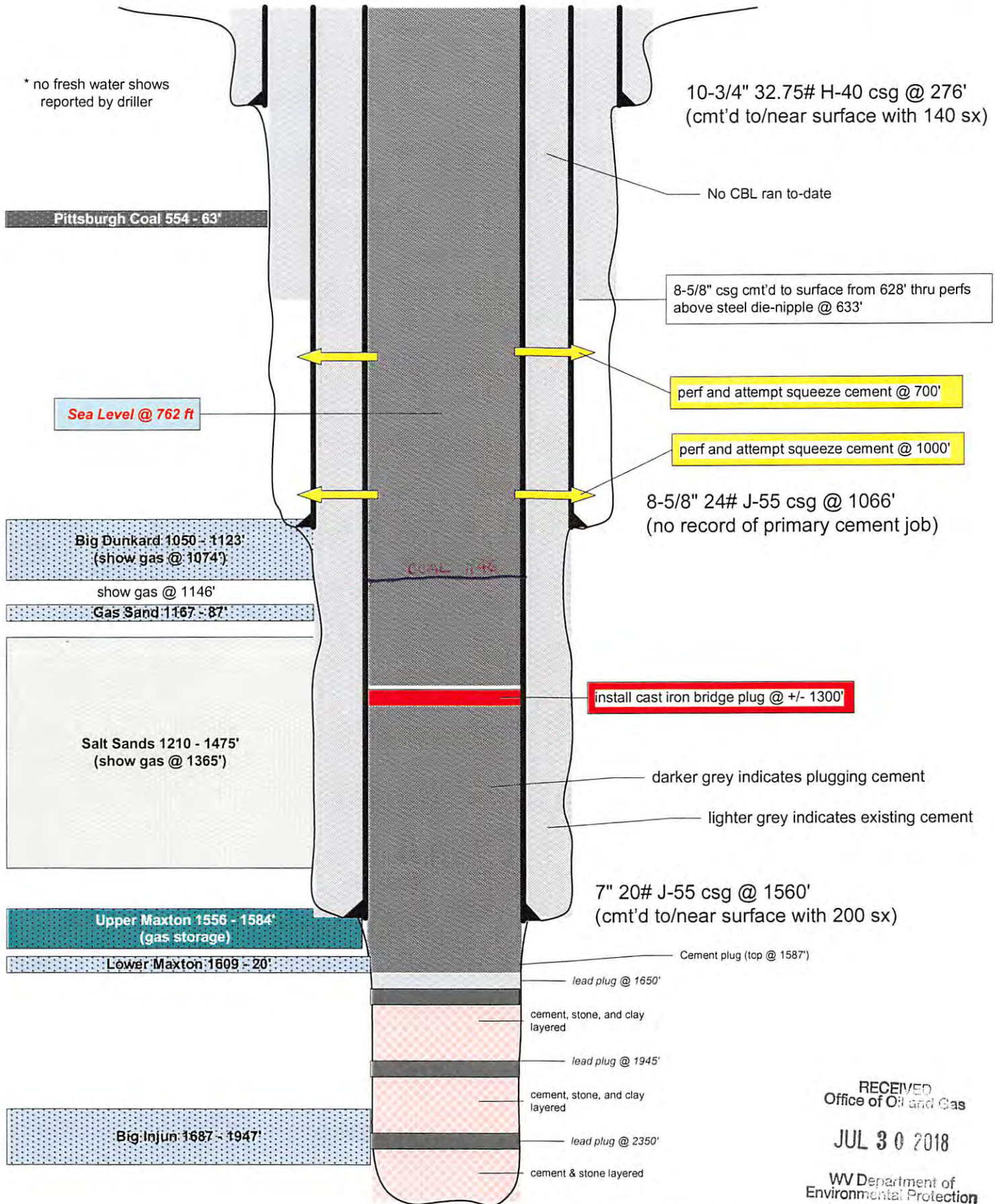
Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector James Nicholson Date 7/26/18

VICTORY B 2265

Proposed P&A prior to CBL
(as of 6/7/18)

~ not to scale ~



Original TD 2667'

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~ not to scale ~

* no fresh water shows reported by driller

10-3/4" 32.75# H-40 csg @ 276'
(cmt'd to/near surface with 140 sx)

No CBL ran to-date

8-5/8" csg cmt'd to surface from 628' thru perfs above steel die-nipple @ 633'

8-5/8" 24# J-55 csg @ 1066'
(no record of primary cement job)

7" 20# J-55 csg @ 1560'
(cmt'd to/near surface with 200 sx)

Cement plug (top @ 1587')

lead plug @ 1650'

cement, stone, and clay layered

lead plug @ 1945'

cement, stone, and clay layered

lead plug @ 2350'

cement & stone layered

Pittsburgh Coal 554 - 63'

Sea Level @ 762 ft

Big Dunkard 1050 - 1123'
(show gas @ 1074')

show gas @ 1146'

Gas Sand 1167 - 87'

Salt Sands 1210 - 1475'
(show gas @ 1365')

Upper Maxton 1556 - 1584'
(gas storage)

Lower Maxton 1609 - 20'

Big Injun 1687 - 1947'

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Original TD 2667'

FORM 05-B

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE, ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

The Manufacturers Light & Heat Co
800 Union Trust Building
Pittsburgh, Penna.

COAL OPERATOR OR OWNER
ADDRESS
COMPLETE ADDRESS
May 31, 19 55

COAL OPERATOR OR OWNER
ADDRESS
WELL AND LOCATION
Liberty District

LEASE OR PROPERTY OWNER
ADDRESS
Marshall County

Well No. 2265
George Miller Farm

STATE INSPECTOR SUPERVISING PLUGGING.....

AFFIDAVIT

STATE OF WEST VIRGINIA,

County of Marshall

SS:

Kyle Clark and George Finnigan
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by The Mfrs. Light & Heat Co, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 30th day of March, 19 55, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD FORMATION	FILLING MATERIAL		PLUGS USED SIZE & KIND	CASING	
	CONTENT	FROM TO		CSG PULLED	CSG LEFT IN
From Total Depth of 2667 to the Depth of 2587	Cement	2667 2480		2471	194' of 4"
	Stone	2480 2450			
	Cement	2450 2250			
	Lead Plug	2250	6" Lead		
	Clay & Stone	2250 2200			
	Cement	2200 2150			
	Clay & Stone	2150 2100			
	Cement	2100 2050			
	Clay & Stone	2050 2025			
	Cement	2025 1960			
	Stone	1960 1945			
	Lead Plug	1945			
	Cement	1945 1660			
	Lead Plug	1660			
	Cement	1660 1587			
COAL SEAM	DESCRIPTION OF MONUMENT				
(NAME) Pittsburgh	561-569				
(NAME)					
(NAME)					
(NAME)					

and that the work of plugging and filling said well was completed on the 13 day of April, 19 55.

And further deponents saith not.

Sworn to and subscribed before me this 1 day of June, 19 55

My commission expires:
April 27, 1960

Kyle Clark
Geo. R. Finnigan
Chad Blumrich
Notary Public.
Permit No. MR 5-372

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The Manufacturers Light & Heat Company

Division # 4
 Record of Well No. # 2265 (#2) on Geo. and A.M. Miller Farm Acres
 Cameron Field Liberty District Marshall County W.Va. State
 Rig Commenced Oct. 1, 19 18 Completed Oct. 12, 19 18
 Drilling Commenced Feb. 17, 19 19 Completed Mar. 12, 19 19
 Cost per Foot \$ 2.25 Contractor A.J. Karl Address Sistersville, W.Va.
 Drillers' Names J.S. Canley, A.F. Karl

BOILER			ENGINE				RIG			
H. P.	No.	Name of Maker	H. P.	No.	Name of Maker	New	Old	Height	Name of Builder	

CONDUCTOR AND CASING USED IN DRILLING										
Conductor	13 inch	10 inch	8 1/2 inch	6 3/4 inch	6 1/2 inch	5 3/4 inch	5 1/2 inch	5 inch	4 inch	
18		304	1072						1623	

CONDUCTOR AND CASING LEFT IN WELL										
Conductor	13 inch	10 inch	8 1/2 inch	6 3/4 inch	6 1/2 inch	5 3/4 inch	5 1/2 inch	5 inch	4 inch	3 inch
		304	1072	1041						

OIL WELL				GAS WELL						
When Shot	Size of Torpedo	1st Day's Production	Tubing	Rods	Tanks	Size of Packer	Depth Set	Packed with	1st Minute Pressure	Rock Pressure

FORMATION	Cubic Feet Per 24 Hours			REMARKS
	Top	Bottom	Thickness	
Clay	16	16		
Lime and Slate	16	120		
Coal	120	122		
Slate and Lime	122	163		
Sand	163	168		
Slate	168	178		
Coal	178	188		
Slate and Lime	188	250		
Sand	250	275		
Slate and Lime	275	459		
Coal	459	464		
Slate and Lime	464	561		
P.G.M. Coal	561	569		
Slate and Lime	561	569		
Slate and Lime	569	677		
Sand	677	690		
Slate and Lime	690	1064		
Sand	1064	1089		
Slate	1089	1146		
Coal	1146	1151		Small show off Gas 1074 Small show of gas at 1146
Slate and Lime	1151	1230		
Sand	1230	1245		
Slate	1245	1360		
Sand	1360	1390		Small show of gas at 1365
Slate and Lime	1390	1565		
Mozom Sand	1565	1590		
Slate	1590	1603		Gas 1580

Examined above information and measurements and found to be correct by _____ Contractor _____ Superintendent of Co.
 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.
 Make no memoranda of boiler and engine if owned by contractor.

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The Manufacturers Light & Heat Company

Division # 4
 Record of Well No. # 2265 on Geo. and A. Miller Farm Acres
 Cameron Field District Township County State
 Rig Commenced Oct. 1, 1918, Completed Oct. 12, 1918
 Drilling Commenced Feb. 17, 1919, Completed Mar. 12, 1919
 Cost per Foot \$ 2.25 Contractor A.J. Karl Address Sistersville, W.Va.
 Drillers' Names J.S. Ganley, A.F. Karl

BOILER			ENGINE				RIG			
H. P.	No.	Name of maker	H. P.	No.	Name of maker	New	Old	Height	Name of Builder	

CONDUCTOR AND CASING USED IN DRILLING										
Conductor	13 inch	10 inch	8 1/4 inch	6 3/4 inch	6 1/2 inch	5 1/2 inch	5 1/4 inch	5 inch	4 inch	
16										

CONDUCTOR AND CASING LEFT IN WELL										
Conductor	13 inch	10 inch	8 1/4 inch	6 3/4 inch	6 1/2 inch	5 1/2 inch	5 1/4 inch	5 inch	4 inch	3 inch

OIL WELL				GAS WELL							
When Shot	Size of Torpedo	1st Day's Production	Tubing	Rods	Tanks	Size of Packer	Depth Set	Packed with	1st Minute Pressure	Rock Pressure	

Initial Open Flow Production Cubic Feet Per 24 Hours Shut In Pressure Cubic Feet Per 24 Hours

FORMATION	Cubic Feet Per 24 Hours		REMARKS
	Top	Bottom	
Clay	16		
Lime and Slate	122	163	
Coal	178	188	
Slate and Lime	188	260	
Sand	250	275	
Slate and Lime	275	459	
Coal	459	464	
Slate and Lime	464	561	
Sand			
Slate and Lime			
P.G.M. Coal	561	589	
Sand			
Slate and Lime			
Sand			
Slate			
Coal			
Slate and Lime			
Sand			
Slate			
Sand			
Slate and Lime			
Maxon Sand			
Slate			

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Examined above information and measurements and found to be correct by _____ Contractor
 Examined and approved by _____ Superintendent of Co.
 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.
 Make no memoranda of boiler and engine if owned by contractor.

The Manufacturers Light & Heat Company (cont'd)

Division #4
 Record of Well No. # 2265 (233) on Geo. and A.M. Miller Farm Acres
 Cameron Field Liberty District Marshall County W. Va. State
 Rig Commenced 19 Completed 19
 Drilling Commenced 19 Completed 19
 Cost per Foot Contractor Address
 Drillers' Names

BOILER			ENGINE			RIG			
H. P.	No.	Name of Maker	H. P.	No.	Name of Maker	New	Old	Height	Name of Builder

CONDUCTOR AND CASING USED IN DRILLING										
Conductor	13 inch	10 inch	8 1/2 inch	6 3/4 inch	6 inch	5 1/4 inch	5 1/8 inch	5 inch	4 inch	

CONDUCTOR AND CASING LEFT IN WELL										
Conductor	13 inch	10 inch	8 1/2 inch	6 3/4 inch	6 inch	5 1/4 inch	5 1/8 inch	5 inch	4 inch	3 inch

OIL WELL				GAS WELL						
When Shot	Size of Torpedo	1st Day's Production	Tubing	Rods	Tanks	Size of Packer	Depth Set	Packed with	1st Minute Pressure	Rock Pressure

Initial Open Flow Production Cubic Feet Per 24 Hours Shut In Pressure Cubic Feet Per 24 Hours

FORMATION	Top	Bottom	Thickness	REMARKS
				Mar. 23, 1919. Well tubed with 1623-05 ft. of 4" tubing packed in lime at 1558-06 with 1-8 4" anchor packer.
				2 joints 44-06
				Above packer 80 " 1578-09
				Total 82 " 1623-08
				Cage on top 2nd joint Packer on top of cage. Made with spring wg gauge 40-80-100-112-120- for 1/8 hr. 180 and 5/10 water 8" casing shut in, Mar. 13, 1919
				Packer set at 2539 - 1578 1/4 anchor.
				Anchor 107' 10" - 5' to
				Above packer 2576' 10"
				126 yds 4" Tubing
				Total 2684' 8" 1578 ft.
				Gas in Fifth sand at 2654 - 50 pps in 2" casing

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Examined above information and measurements and found to be correct by _____
 Examined and approved by _____ Superintendent of Co.
 Contractor
 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.
 Make no memoranda of boiler and engine if owned by contractor.

WW-4A
Revised 6-07

1) Date: 7/3/18
2) Operator's Well Number
Victory B 2265
3) API Well No.: 47 - 051 - 00763

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Mason Dixon Farms LLC</u>	Name <u>not operated</u>
Address <u>PO Box 360911</u>	Address <u>RECEIVED</u>
<u>Melbourne, FL 32936</u>	<u>Office of Oil and Gas</u>
(b) Name <u>Jeremiah and Andrea Magers</u>	(b) Coal Owner(s) with Declaration <u>JUL 30 2018</u>
Address <u>145 Millers Cove Ln</u>	Name <u>Consolidated Coal</u>
<u>Cameron, WV 26033</u>	Address <u>1000 Consol Energy Dr</u>
(c) Name <u>Rodney J. Wallace, et ux</u>	<u>WV Department of</u>
Address <u>1066 Fork Ridge Rd</u>	<u>Environmental Protection</u>
<u>Moundsville, WV 26041</u>	
6) Inspector <u>James Nicholson</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 44</u>	Name <u>not leased</u>
<u>Moundsville, WV 26041</u>	Address _____
Telephone <u>304-552-3874</u>	_____

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 Columbia Gas Transmission, LLC
 By: James Amos
 Its: Senior Engineer
 Address 48 Columbia Gas Rd
Sandyville, WV 25275
 Telephone 304-373-2412

Subscribed and sworn before me this 13th day of July 2018
Michael D. McClung Notary Public
 My Commission Expires 6/19/2022

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.

47-051-00763P

WW-9
(5/16)

API Number 47 - 051 - 000763
Operator's Well No. Victory B 2265

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: fresh water, cement returns, bentonite gel, NaCl salt

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 20

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Undergound Injection (UIC Permit Number 34-119-28776, 34-167-23862)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Appalachian Water Services, Station W1 Ronco WTP, Masontown, PA - Permit 2608201)

Will closed loop system be used? If so, describe: no

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

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

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Additives to be used in drilling medium? _____

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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) subsoils

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-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.

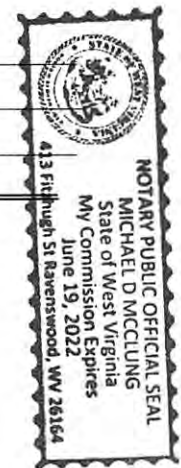
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations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

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

Company Official Signature James E. Amos
Company Official (Typed Name) James E. Amos
Company Official Title Senior Engineer, Well Engineering & Technology

Subscribed and sworn before me this 13th day of July, 2018
Michael McClung Notary Public

My commission expires 6/19/2022



Proposed Revegetation Treatment: Acres Disturbed 1.0 Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 7

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
Annual Rye	40	Orchard Grass and/or Tall Fescue	29
		Birdsfoot Trefoil (empire)	9
		Annual Rye	12

Upland

For wetland areas: Annual Rye (40 lbs/acre) until indigenous plants re-establish cover.

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]
Comments: _____

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Title: Oil + Gas Impacts Date: 7/26/18

Field Reviewed? Yes No

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

Operator Name: Columbia Gas Transmission, LLC
Watershed (HUC 10): Fish Creek Quad: Cameron, WV
Farm Name: Miller, George M.

- 1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

No fertilizer will be stored on site. Small quantities of fuel, oil, and lubrications will be stored on site, but located within secondary containment.
Spills from construction equipment is the only source of contaminate to groundwater.

- 2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

All construction equipment will be inspected daily for leaks. Spill kits will be on site.

- 3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Fish Creek is +/-225 north of wellhead. The PA PWSID's that intersect protection area are WV9925016 (Covestro - FKA Bayer Material) and WV3304803 (Sistersville Municipal Water). Refer to enclosed assessment letter from Department of Health and Human Resources, Source Water Assessment and Protection department.

- 4. Summarize all activities at your facility that are already regulated for groundwater protection.

N/A

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- 5. Discuss any existing groundwater quality data for your facility or an adjacent property.

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

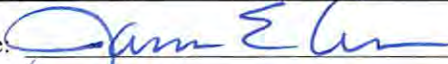
No waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

During routine tailgate meetings groundwater protection will be a topic of discussion.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

No fertilizer will be stored on site. Small quantities of fuel, oil, and lubrications will be stored on site, but located within secondary containment. Construction equipment will be inspected daily for leaks or spill.

Signature: 

Date: 7/3/18

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STATE OF WEST VIRGINIA
 DEPARTMENT OF HEALTH AND HUMAN RESOURCES
 Bureau for Public Health

Bill J. Crouch
 Cabinet Secretary

Office of Environmental Health Services

Rahul Gupta, MD, MPH, MBA, FACP
 Commissioner
 State Health Officer

February 16, 2018

William Timmermeyer
 TransCanada - Columbia Pipeline Group
 1700 MacCorkle Ave., SE
 Charleston, WV 25314

Re: WV DEP SWAP Info Request
 Protection Areas for 8 wells
 Randolph/Preston/Marshall Counties,

Dear Mr. Timmermeyer:

This is a response to the informational request dated February 15, 2018 concerning protection areas near eight wells.

Based on the current information, we have found the following:

Well	PA PWSID	PA Type	System Name	County	Note
Glady 7455	WV9942049	ZPC	USFS Middle Mountain Cabins HP	Randolph	Distance 1 mile, does not intersect any PA
Glady 7459					Out of WV State
Terra Alta South 7500	WV3303908	ZPC	Kingwood Water Board Primary	Preston	Intersects Protection Area
Victory B 2265	WV9925016	ZPC	Covestro (FKA Bayer Material)	Marshall	Intersects Protection Area
	WV3304803	ZPC	Sistersville Municipal Water	Marshall	Intersects Protection Area
Victory B 2345	WV9925016	ZPC	Covestro (FKA Bayer Material)	Marshall	Intersects Protection Area
	WV3304803	ZPC	Sistersville Municipal Water	Marshall	Intersects Protection Area
Victory B 2589	WV9925016	ZPC	Covestro (FKA Bayer Material)	Marshall	Intersects Protection Area
Victory B 3522	WV9925016	ZPC	Covestro (FKA Bayer Material)	Marshall	Intersects Protection Area
Victory B 4502	WV9925016	ZPC	Covestro (FKA Bayer Material)	Marshall	Distance 250 feet, does not intersect any PA

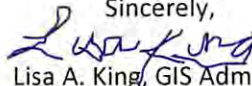
I hope the information provided helps you with the completion of your project. If you have any questions, please do not hesitate to contact me at (304) 356-4309.

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WV Department of
 Environmental Protection

CC: William J. Toome

Sincerely,

 Lisa A. King, GIS Administrator
 Source Water Assessment and Protection

47-051-00763P



Google Earth

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WV DEP Reclamation Plan - Overview

Victory B storage well 2265

- Existing road surface and culverts to be maintained
- BMPs to be utilized per WV DEP guidelines

900 ft



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Limits of Work Area

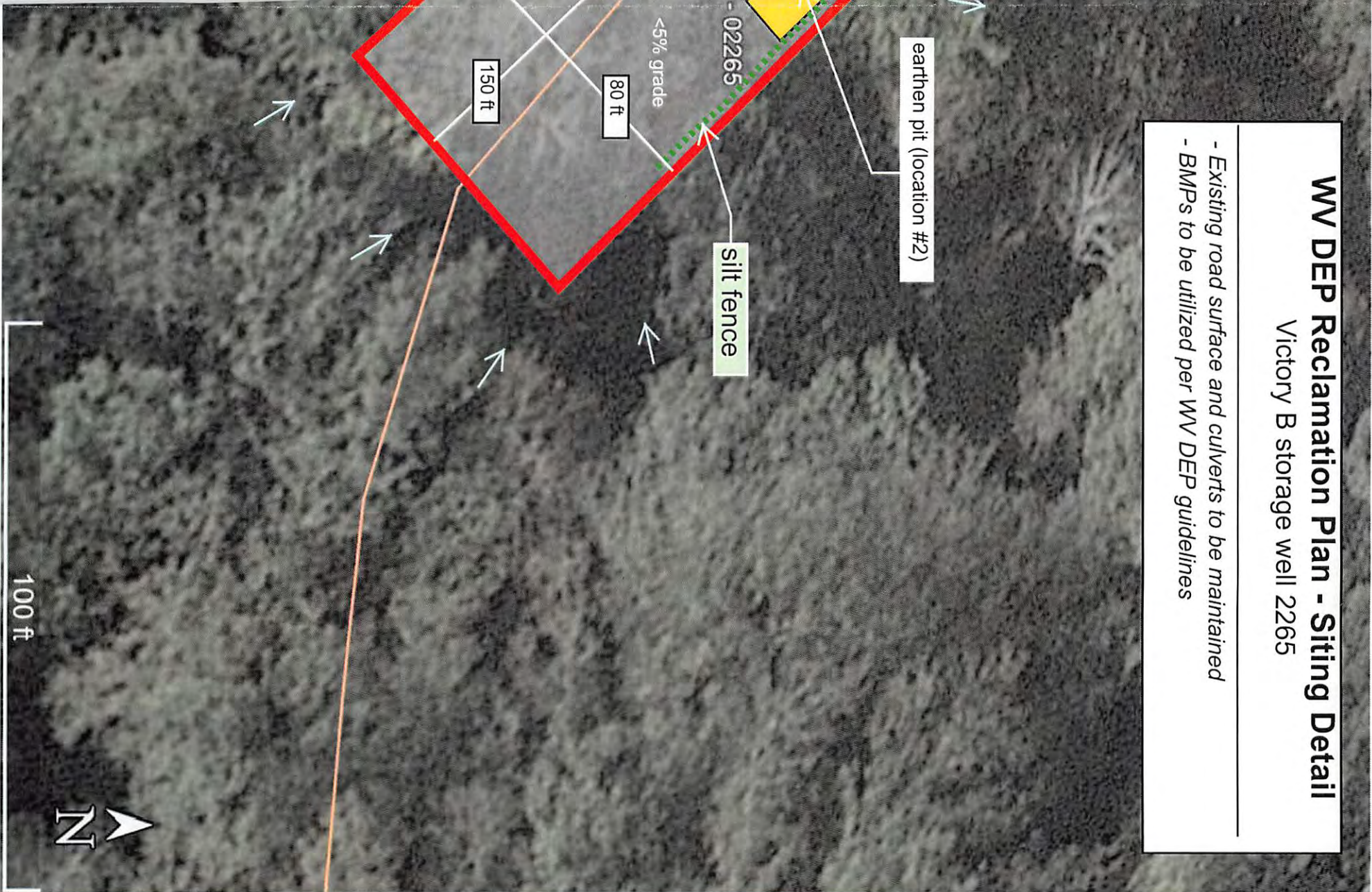
silt fence

earthen pit (location #1)

Victory B

Google Earth

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WV DEP Reclamation Plan - Siting Detail
 Victory B storage well 2265

- Existing road surface and culverts to be maintained
- BMPs to be utilized per WV DEP guidelines

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CAMERON QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES

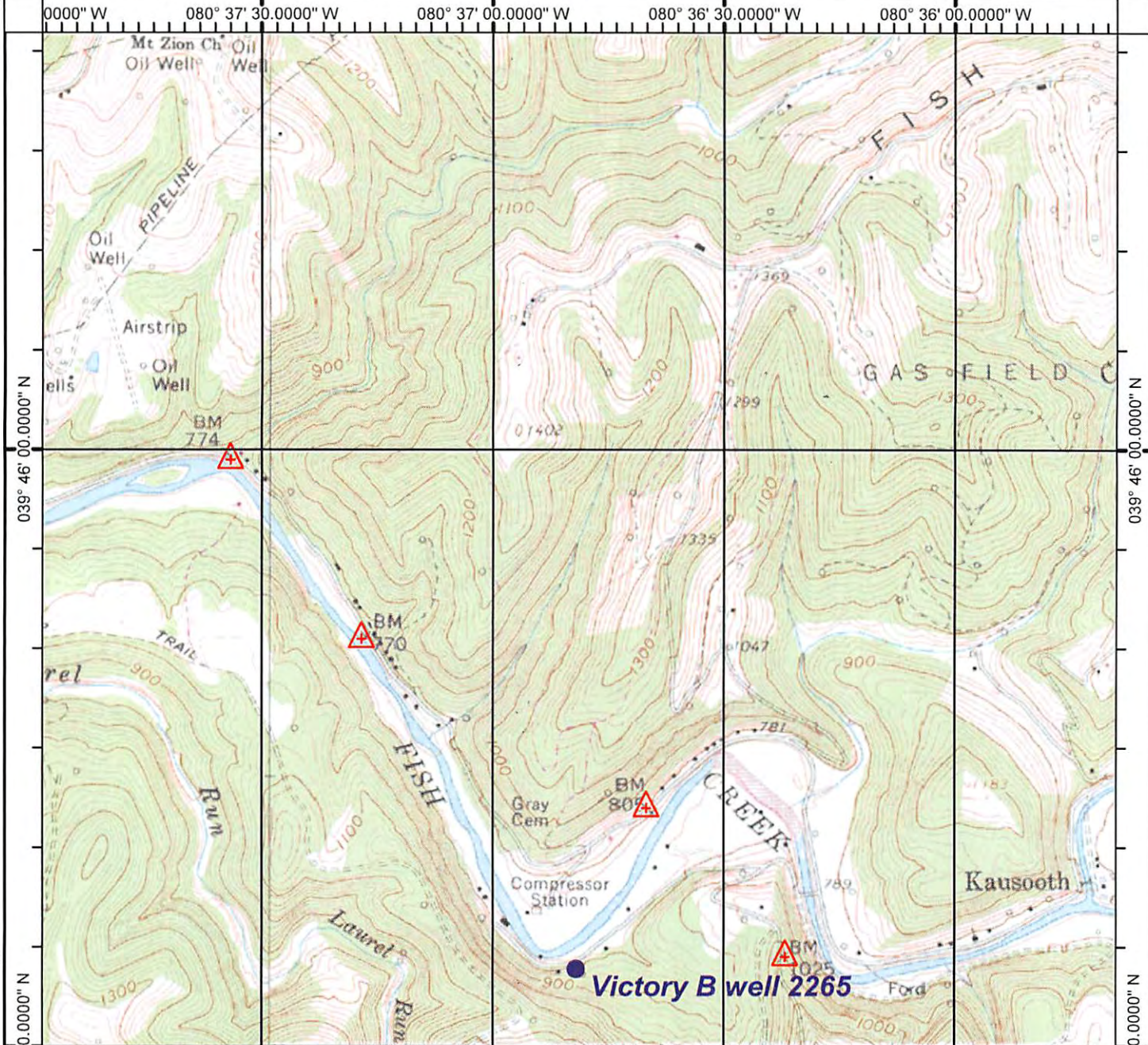
(Outdoor Contour Map)

(MOUNDSVILLE)

(MAJORSVILLE)

080° 37' 58.4761" W 080° 37' 30.0000" W 080° 37' 00.0000" W 080° 36' 30.0000" W 080° 36' 00.0000" W 080° 35' 38.3239" W

039° 46' 41.8747" N 039° 46' 00.0000" N 039° 46' 00.0000" N 039° 46' 00.0000" N 039° 46' 00.0000" N 039° 46' 41.8747" N



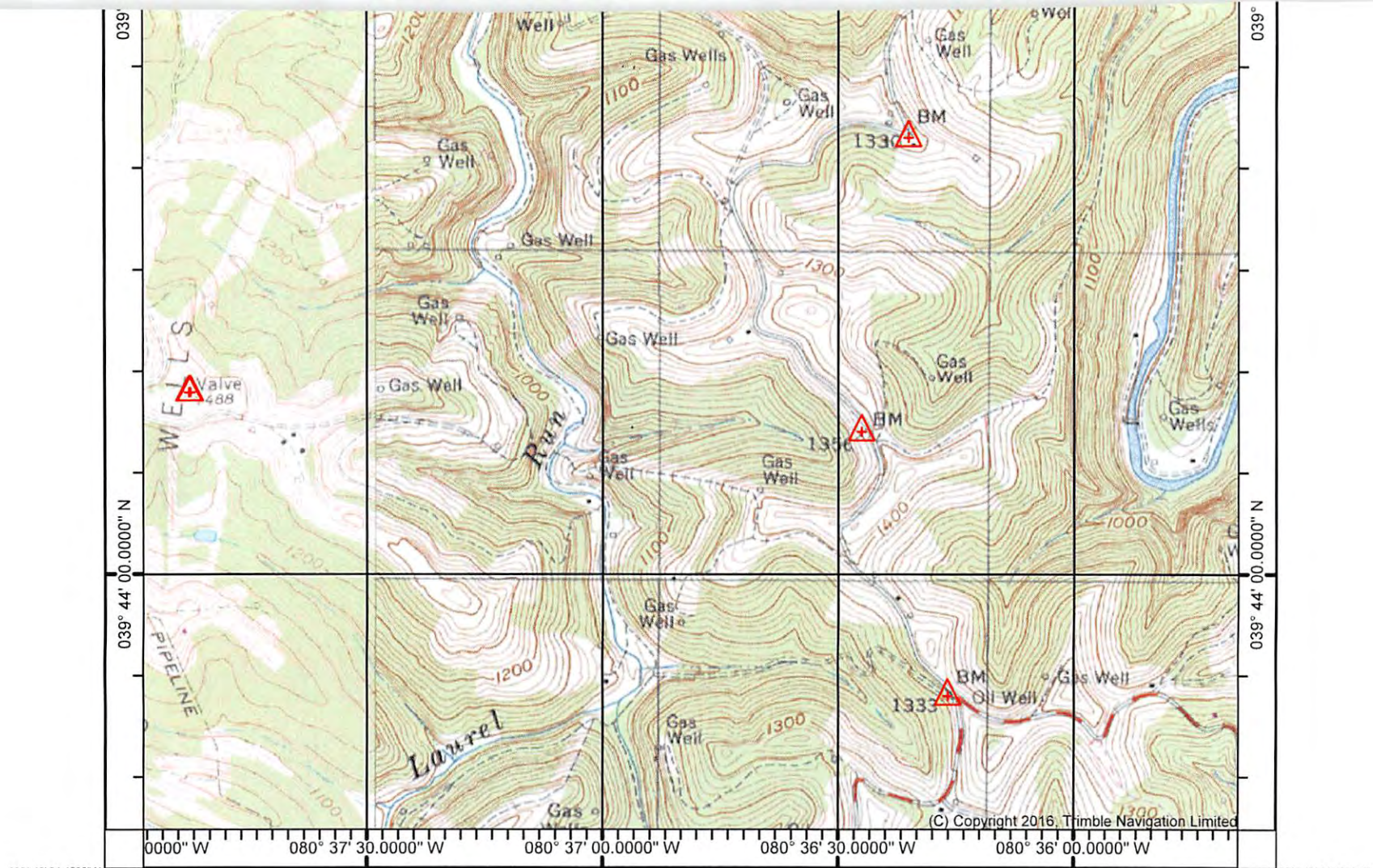
(GLEN EASTON)

(Outdoor Contour Map)

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039° 43' 34.4532" N 080° 37' 58.4761" W (WILEYVILLE) 080° 37' 30.0000" W 080° 37' 00.0000" W (LITTLETON) 080° 36' 30.0000" W 080° 36' 00.0000" W 080° 35' 38.3239" W (HUNDRED) 039° 44' 00.0000" N 039° 43' 34.4532" N

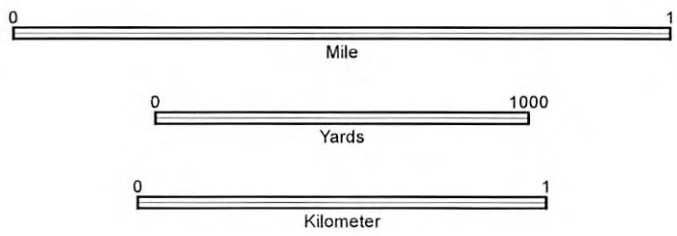
(WILEYVILLE)

(HUNDRED)

Produced by Trimble Terrain Navigator Pro
 Topography based on USGS 1:24,000 Maps
 North American 1983 Datum (NAD83)
 To place on the predicted North American 1927 move the
 projection lines 9M N and 17M E



(LITTLETON)
 SCALE 1:18056

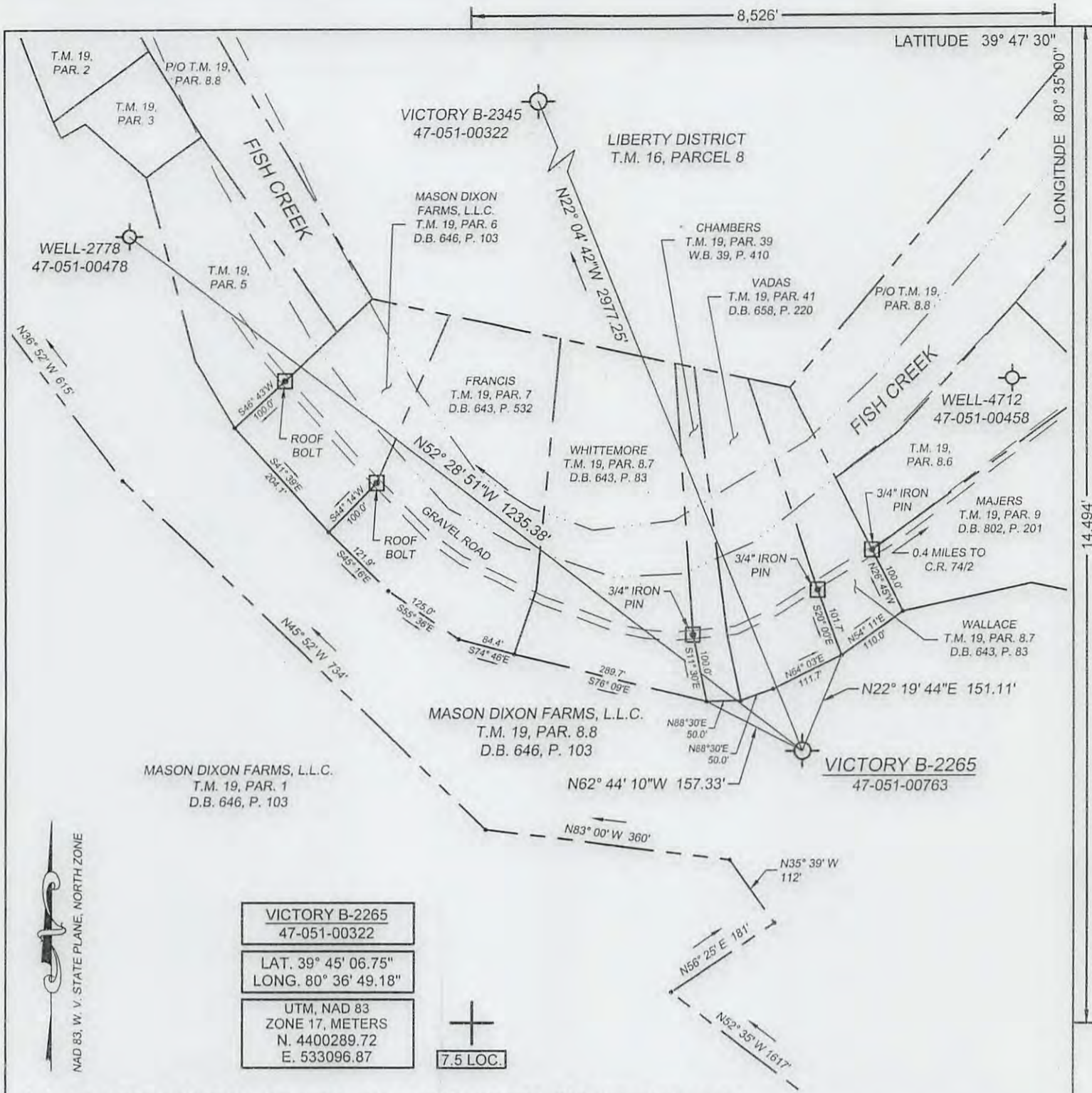


CONTOUR INTERVAL 20 FT

39080-G4-TM-024
 CAMERON, WV
 JAN 1, 1988

(C) Copyright 2016, Trimble Navigation Limited

Printed Fri Nov 10, 2017

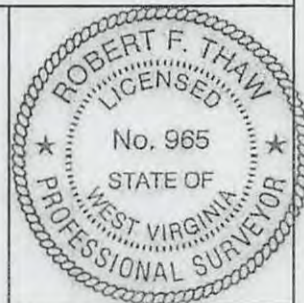


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No 1701-2345-001-024
 DRAWING No. VICTORY B-2265
 SCALE 1"=200'
 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 8/3/2018
ROBERT F. THAW PS #965



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



DATE MAY 16 2018
 OPERATOR'S WELL No. 2265
 API WELL No. 47 051 - 00763
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 762.0' WATER SHED FISH CREEK
 DISTRICT LIBERTY COUNTY MARSHALL
 QUADRANGLE CAMERON, WV

SURFACE OWNER MASON DIXON FARMS, LLC ACREAGE 60 AC.±
 OIL & GAS ROYALTY OWNER NELSON M. RICHARDS (75%), STEPHEN W. BURGE AND JUDITH A. BURGE (25%)
 LEASE ACREAGE 88.19 LEASE No. 3002298-000

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

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION MAXTON/BIG INJUN ESTIMATED DEPTH 1587
 WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT JAMES AMOS
 ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS P.O. BOX 1273, CHARLESTON W.V.
25325-1273 25325-1273