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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Tuesday, May 11, 2021

WELL WORK PLUGGING PERMIT  
Vertical Plugging

CM ENERGY HOLDINGS, LP  
200 GEORGE ST. SUITE 4

BECKLEY, WV 25801

Re: Permit approval for RITTER 507791  
47-109-02147-00-00

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.

A handwritten signature in blue ink, appearing to read 'James A. Martin'.

James A. Martin  
Chief

Operator's Well Number: RITTER 507791  
Farm Name: PLUM CREEK TIMBERLANDS  
U.S. WELL NUMBER: 47-109-02147-00-00  
Vertical Plugging  
Date Issued: 5/11/2021

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4710908147P

## 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

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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.

05/14/2021

4710902147P

WW-4B  
Rev. 2/01

1) Date February 1, 2021  
2) Operator's  
Well No. Ritter Lumber Co 507791  
3) API Well No. 47-109 - 02147

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 x or Underground storage \_\_\_) Deep \_\_\_ / Shallow x

5) Location: Elevation 1950.13 ft Watershed Big Cub Creek  
District Clear Fork County Wyoming Quadrangle Oceana

6) Well Operator CM Energy Holdings, LP 7) Designated Agent Jim Higgins  
Address 200 George Street, Suite 4 Address 200 George Street, Suite 4  
Beckley, WV 25801 Beckley, WV 25801

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Gary Kennedy Name R & J Well Service, Inc  
Address 66 Old Church Lane Address P.O. Box 40  
Pipestem, WV 25979 Hueysville, KY 41640

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

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**APR 12 2021**  
WV Department of  
Environmental Protection

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

Work order approved by inspector  Date 4/9/21

05/14/2021

Well # WV-507791  
 API# 47-109-02147  
 Elevation: 1945'  
 Coal: 142', 367'  
 Gas Shows: Big Lime, Berea, Devonian Shale  
 Oil: None Reported  
 Water: 139'

## Casing Schedule:

16"	89' Grouted
13 3/8"	139' Grouted
9 5/8"	1209' CTS
4 1/2"	6294' Apprx TOC @ 2300'

## TD 6335

- 1) Notify WV State Inspector Garry Kennedy at least 48 hrs prior to commencing plugging operations.
- 2) MIRU plugging equipment. Check TD. Pump 6% gel to kill well, approx. 30 bbls,
- 3) TOO H w/ 2 3/8" tubing. TIH w/ WS to 5224'. Pump 100' cement plug 5224' to 5124' (Lower Shale). TOO H w/ 30 jnts of tubing. Let cement set. Tag TOC, add cement as needed.
- 4) TIH w/ tubing to 4143'. Pumped 30 bbls of 6% gel. Set 100' cement plug from 4143' to 4043' covering the Upper Shale. TOO H w/ 30 jnts of tubing. Let cement set up. Tag TOC, add cement as needed.
- 5) TIH w/ WS to 3992'. Set 100' cement plug from 3992' to 3892' covering the Berea. TOO H w/ 30 jnts. Let cement set up. Tag TOC, add cement as needed.
- 6) TIH w/ WS to 3330'. Pump 30 bbls of 6% gel. Set 100' cement plug from 3330' to 3230' covering the Big Lime. TOO H w/ 30 jnts of tubing. Let cement set up. Tag TOC, add cement if needed.
- 7) TOO H w/ tubing. Free-point 4 1/2" casing. Shoot off casing and pull.
- 8) TIH w/ WS to casing cut. Pump 50 bbls of gel. Set 100' cement plug 50' in and out of casing cut.
- 9) TOO H w/ tubing to 1945'. Set 100' cement plug from 1945' to 1845' covering elevation.
- 10) TOO H w/ tubing to 1259'. Pump 20 bbls of 6% gel. Set 100' plug from 1259' to 1159' covering 9 5/8" casing seat.
- 11) TOO H w/ tubing to 417'. Circulate hole with 6% gel. Set 100' cement plug from 417' to 317' covering coal show @ 367'.
- 12) TOO H w/ tubing to 192'. Circulate cement to surface.
- 13) TOO H w/ tubing. Top off with cement as needed. Install monument to WV DEP Specs.



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05/14/2021

4710902147P

WR-35

API # 47- 109-02147

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Reviewed Am 17

Well Operator's Report of Well Work

Farm Name: Plum Creek Timberlands Operator Well No.: WV-507791  
LOCATION: Elevation: 1,945.00 Quadrangle: Oceana  
District: Clear Fork County: Wyoming  
Latitude: 13200 Feet South of Deg. 37 Minutes 42 Seconds 30  
Longitude: 11500 Feet West of Deg. 81 Minutes 40 Seconds 0

Company: EQUITABLE PRODUCTION COMPANY  
P.O. Box 2347, 1710 Pennsylvania Avenue  
Charleston, WV 25328

Agent: Stephen Perdue

Inspector: Ofie Helmick

Permit issued: 03/18/2002  
Well work commenced: 05/10/02  
Well work completed: 06/07/02

Verbal Plugging Permission granted on: \_\_\_\_\_

Rotary Rig X Cable Rig \_\_\_\_\_

Total Depth 6335' feet \_\_\_\_\_

Fresh water depths (ft) 139' \_\_\_\_\_

Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area? \_\_\_\_\_

Coal Depths (ft): 142', 367'

Casing & Tubing Size	Used In Drilling	Left In Well	Cement Fill Up Cu. Ft.
16"	89'	89'	Grtd
13-3/8"	139'	139'	Grtd
9-5/8"	1209'	1209'	525 FT <sup>3</sup>
4-1/2"	6294'	6294'	533 FT <sup>3</sup>
2-3/8"		6201'	

OPEN FLOW DATA

Producing formation L Shale/U Shale/Berea/Big Lime

Pay Zone Depth (ft): \_\_\_\_\_

Gas: Initial open flow \_\_\_\_\_ Odor \_\_\_\_\_ Bbl/d

Final open flow 375 Final open flow: \_\_\_\_\_

Time of open flow between initial and final tests \_\_\_\_\_ Hours

Static rock pressure 200 psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_

Pay Zone Depth (ft): \_\_\_\_\_

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow: \_\_\_\_\_ MCF/d Final open flow: \_\_\_\_\_

Time of open flow between initial and final tests \_\_\_\_\_ Hours

Static rock pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

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See Attach. MAR 05 2021  
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NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Barbara A. Husband  
For: EQUITABLE PRODUCTION

05/14/2021

4710802147P

Date	5/29/2002	5/29/2002	5/29/2002	5/29/2002
Type Frac	N <sub>2</sub>	N <sub>2</sub>	85/80/75 @ Foam	Acid/N <sub>2</sub>
Acid, N <sub>2</sub> , Foam, Water				
Zone Treated	L Shale	U Shale	Berea	Big Lime
# Perfs	60	40	20	50
From - To:	5224-6248	4143-5174	3992-4018	3330-3394
BD Pressure @ psi	2000	1845	1921	760
ATP psi	2409	2500	1790	1112
Avg. Rate, B=B/M, S= SCF/M	51,200 S	52,000 S	30.7 B	20 B
Max. Treat Press psi	2751	3374	1958	1149
ISIP psi	2100	2250	1500	1277
	Final	Final		
Frac Gradient	.42	.56	.42	.62
10 min S-I Pressure	1758	1547	1314	1112
Material Volume:				
Sand-sks			400	
Water-bbl			117	
SCF N <sub>2</sub>	1,004,400	805,400	605,000	160,000
Acid-gal	750 gal 7.5% acid	1000 gal 7% acid	500 gal 14% acid	6000 gal 14% acid
NOTES:				

TOP                      BASE                      FORMATION                      REMARKS\*

¼" stream water @ 139'

GT @ 2712', 2900', 3111', 3301'=NS, 3428', 3655', 3842', 4759', 5292', 4065', 4379', 5292', 5636', 6074'=odor

6335'=40 mcf/d

SALT SAND:			
RAVENCLIFF:		2202	2270
AVIS:		2353	2378
UPPER MAXTON:		2244	2262
MIDDLE MAXTON:		2716	2766
LOWER MAXTON STRAY:			
LOWER MAXTON:		2902	2928
LITTLE LIME:		2978	3046
BIG LIME:		3068	3406
BIG INJUN:			
WEIR:		3500	3621
SUNBURY:		3963	3981
BEREA:		3981	4020
GORDON:		4282	4300
LOWER HURON:		5080	5696
LOWER HURON SILTSTONE:		5122	5184
JAVA:		5696	5861
ANGOLA:		5861	6122
RHINESTREET:		6122	
TD:		6335	

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MAR 05 2021

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WW-4A  
Revised 6-07

1) Date: February 1, 2021  
2) Operator's Well Number  
Ritter Lumber Co 507791

3) API Well No.: 47 - 109 - 02147

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

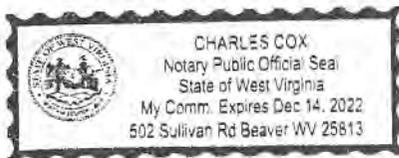
<b>4) Surface Owner(s) to be served:</b>	<b>5) (a) Coal Operator</b>
(a) Name <u>Lyme Mountaineer Timberlands I, LLC</u>	Name <u>CM Energy Operations, LP</u>
Address <u>23 South Main Street</u>	Address <u>200 George Street, Suite 4</u>
<u>Hanover, NH 03755</u>	<u>Beckley, WV 25801</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>WPP, LLC</u>
	Address <u>5260 Irwin Road</u>
	<u>Huntington, WV 25705</u>
(c) Name _____	Name _____
Address _____	Address _____
<b>6) Inspector</b> <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>66 Old Church Lane</u>	Name <u>CM Energy Operations, LP</u>
<u>Pipestem, WV 25979</u>	Address <u>200 George Street, Suite 4</u>
Telephone <u>304-382-8402</u>	<u>Beckley, WV 25801</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	<u>CM Energy Holdings, LP</u>	
By:	<u>Jim Higgins</u>	<b>RECEIVED</b> Office of Oil and Gas <b>MAR 05 2021</b> WV Department of Environmental Protection
Its:	<u>Designated Agent</u>	
Address	<u>200 George Street, Suite 4</u>	
	<u>Beckley, WV 25801</u>	
Telephone	<u>681-207-7393 ext 4</u>	

Subscribed and sworn before me this 8<sup>th</sup> day of February 2021  
[Signature] Notary Public  
My Commission Expires Dec 14, 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](mailto:depprivacyofficer@wv.gov).

4710902147P

7016 2140 0000 2518 0962

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Huntington, WV 25705

**OFFICIAL USE**

Certified Mail Fee	\$3.60	0306 12  Postmark Here  03/01/2021
Extra Services & Fees (check box, add fee as appropriate)	\$2.85	
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
Postage	\$2.20	
<b>Total Postage and Fees</b>	<b>\$8.65</b>	

Sent To **WPP, LLC**  
 Street and Apt. No., or PO Box No.  
**5260 Irwin Rd.**  
 City, State, ZIP+4®  
**Huntington, WV 25705**

PS Form 3800, April 2015 PSN 7530-01-000-9047 See Reverse for Instructions

7016 2140 0000 2518 0979

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Hanover, NH 03755

**OFFICIAL USE**

Certified Mail Fee	\$3.60	0306 12  Postmark Here  03/01/2021
Extra Services & Fees (check box, add fee as appropriate)	\$2.85	
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
Postage	\$2.20	
<b>Total Postage and Fees</b>	<b>\$8.65</b>	

Sent To **LYME MT LLC**  
 Street and Apt. No., or PO Box No.  
**23 South Main St.**  
 City, State, ZIP+4®  
**Hanover, NH 03755**

PS Form 3800, April 2015 PSN 7530-01-000-9047 See Reverse for Instructions

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 WV Department of  
 Environmental Protection

05/14/2021

**SURFACE OWNER WAIVER**

4710902147P

Operator's Well  
Number

Ritter Lumber Co 507791

API No. 47-109-02147

**INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A**

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (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 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

**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 **FIVE (5) 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.**

**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 Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

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  
ETC.

FOR EXECUTION BY A CORPORATION,

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Office of Oil and Gas

MAR 05 2021

WV Department of  
Environmental Protection

_____	Date _____	Name _____	Lyme Mountaineer Timberlands I, LLC
Signature		By _____	
		Its _____	_____
			Date _____
		Signature _____	Date 05/14/2021

API No. 47-109-02147 P  
Farm Name \_\_\_\_\_  
Well No. Ritter Lumber Co 507791

**INSTRUCTIONS TO COAL OPERATORS  
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

**WAIVER**

The undersigned coal operator \_\_\_\_\_ / owner X / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed plugging work order. 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.

Date: \_\_\_\_\_

WPP, LLC

By: \_\_\_\_\_

Its \_\_\_\_\_

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MAR 05 2021  
WV Department of  
Environmental Protection

API No. 47-109-02147 P  
 Farm Name \_\_\_\_\_  
 Well No. Ritter Lumber Co 507791

**INSTRUCTIONS TO COAL OPERATORS  
 OWNERS AND LESSEE**

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**WAIVER**

The undersigned coal operator  / owner \_\_\_\_\_ / lessee  / of the coal under this well location has examined this proposed plugging work order. 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.

Date: 2/8/2021

CM Energy Operations, LP  
 By: Jim Higgins *Jim Higgins*  
 Its Chief Engineer

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 MAR 05 2021  
 WV Department of  
 Environmental Protection

WW-9  
(5/16)

API Number 47 - 109 - 02147  
Operator's Well No. Ritter 507791

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CM Energy Holdings LP OP Code \_\_\_\_\_

Watershed (HUC 10) Buffalo Creek-Guyandotte River Quadrangle Oceana

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

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)
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Any fluid recovered will be hauled to a core tank battery and disposed of properly)

*[Handwritten signature]*

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

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. fresh water

-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 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 C. Higgins, II

Company Official (Typed Name) James C Higgins, II

Company Official Title Designated Agent

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Office of Oil and Gas

APR 12 2021

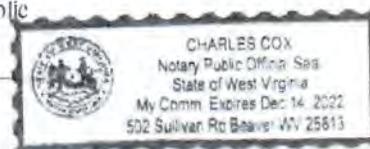
WV Department of  
Environmental Protection

Subscribed and sworn before me this 8th day of February, 20 21

*[Handwritten signature]*

Notary Public

My commission expires Dec. 14, 2022



Operator's Well No. Ritter Lumber 507791  
API NO 47-109-02147

Proposed Revegetation Treatment: Acres Disturbed 1 +/- Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 650 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike	5	Alsike	5
Annual Rye	15		

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: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

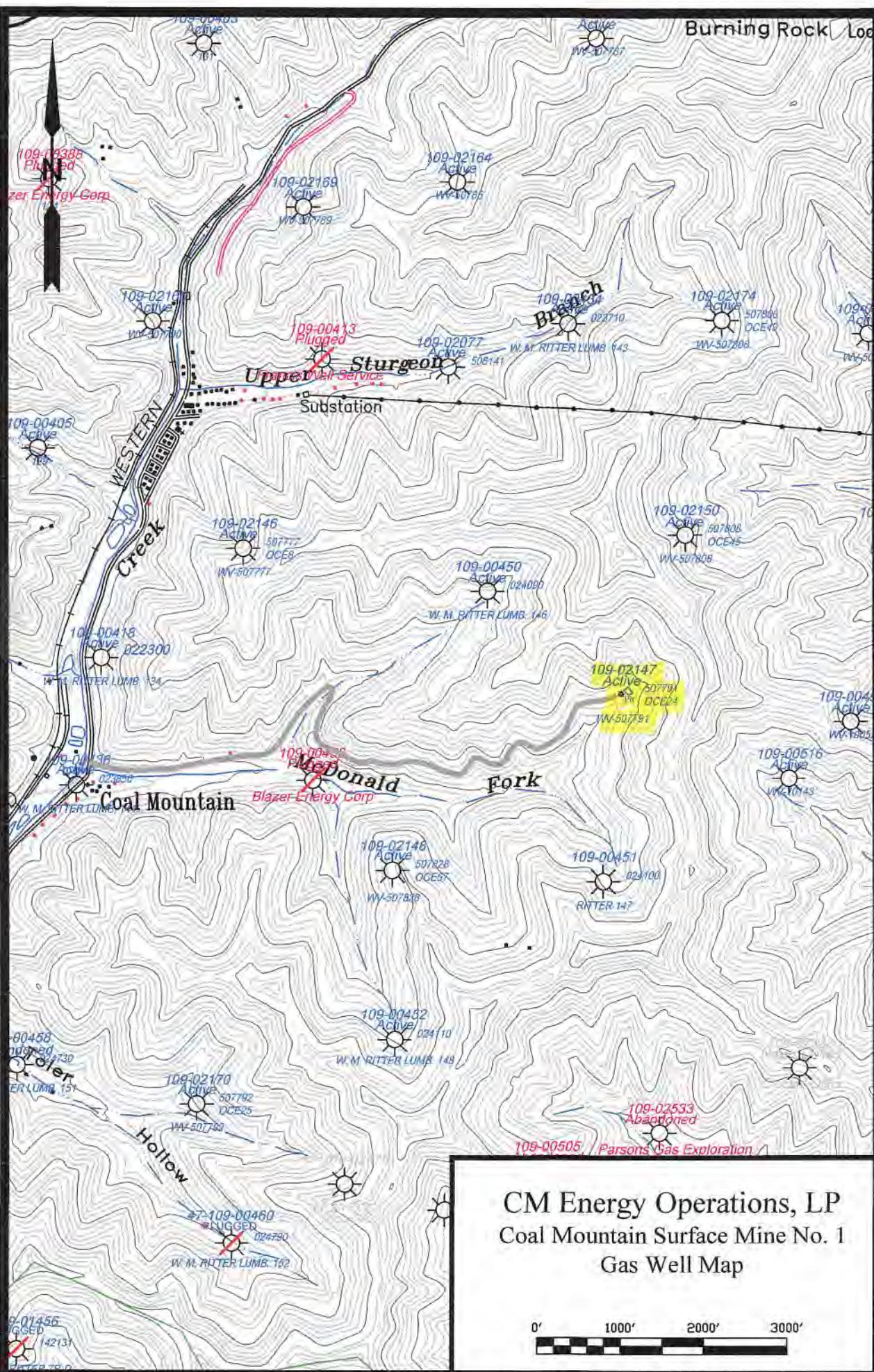
Title: Inspector Date: 4/9/21

Field Reviewed? ( ) Yes ( ) No

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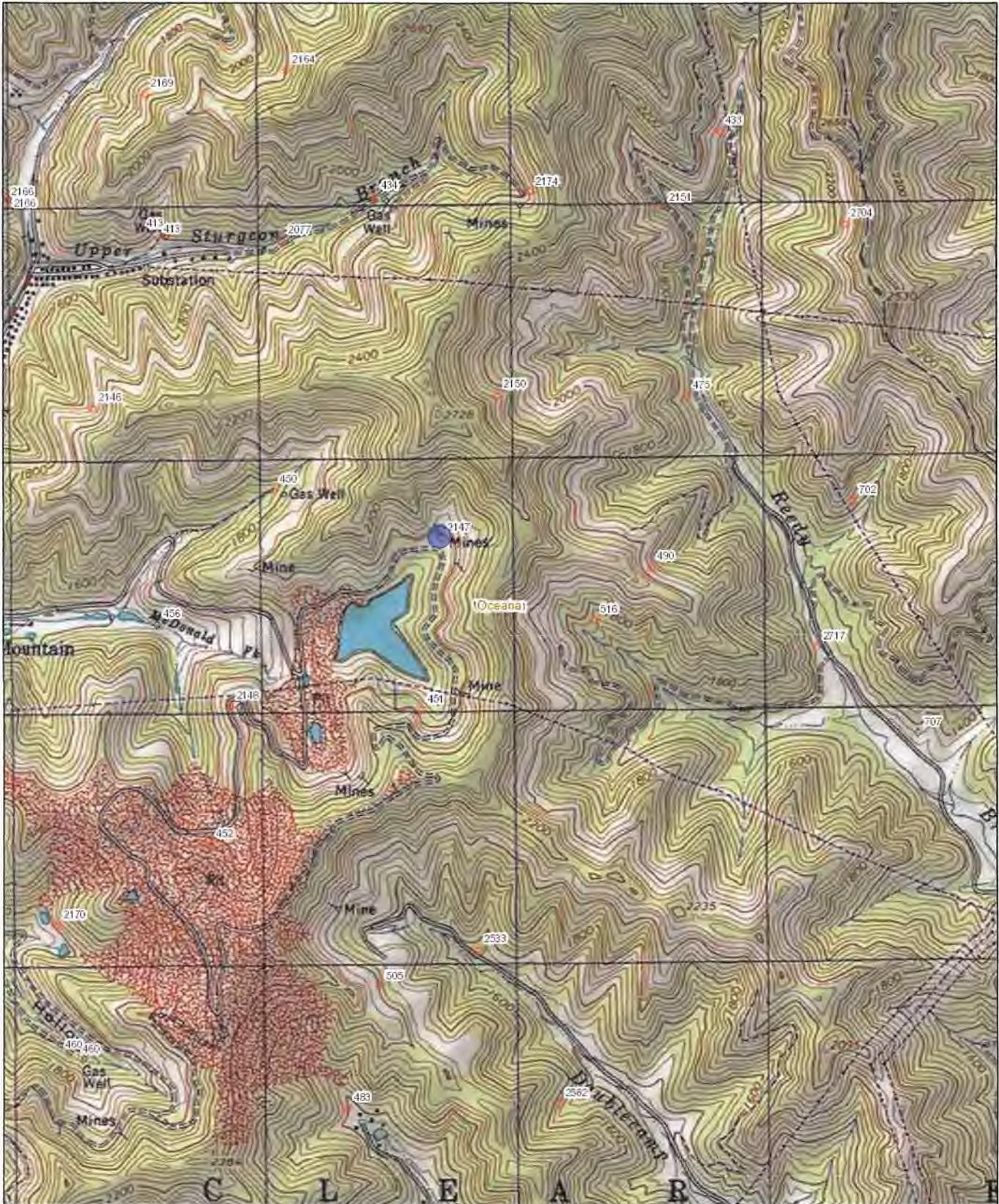


Plt 20' x 25' x 6  
 Location  
 60' x 150'

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CM Energy Operations, LP  
 Coal Mountain Surface Mine No. 1  
 Gas Well Map

05/14/2021



1/28/2021, 12:03:13 PM

Individual Wells

- ◊ Dry
- ◊ Gas
- ◊ Oil
- ◊ Oil and Gas Combination

- ◊ Dry
- ◊ Service
- ◊ Other (including Permits)
- ◊ Labels (7.5' Quadrangles)

- ◊ 7.5' Quadrangles
- ◊ State Boundary
- ◊ Counties
- ◊ County Labels

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1:18,056  
0 0.25 0.5 1 km  
0.3 0.6 mi  
WV Department of Environmental Protection  
© 2013 National Geographic Society, i-cubed, The West Virginia Geological and Economic Survey (WVGES), West Virginia Geological and Economic Survey (WVGES)

05/14/2021



West Virginia Department of Environmental Protection  
Office of Oil and Gas  
**WELL LOCATION FORM: GPS**

API: 47-109-02147-00 WELL NO.: 1156284

FARM NAME: Plum Creek Timberlands

RESPONSIBLE PARTY NAME: CM Energy Holdings, LP

COUNTY: Wyoming DISTRICT: Clear Fork

QUADRANGLE: Oceana

SURFACE OWNER: CM Energy Holdings, LP

ROYALTY OWNER: CM Energy Holdings, LP

UTM GPS NORTHING: 4,169,661.45

UTM GPS EASTING: 437,713.89 GPS ELEVATION: 594.6 m

(1950')

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS ; Post Processed Differential \_\_\_\_\_  
Real-Time Differential

Mapping Grade GPS \_\_\_\_\_; Post Processed Differential \_\_\_\_\_  
Real-Time Differential \_\_\_\_\_

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Jim Higgins  
Signature

Chief Engineer  
Title

2/8/2021  
Date

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