



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Friday, May 7, 2021
WELL WORK PLUGGING PERMIT
Vertical Plugging

CM ENERGY HOLDINGS, LP
200 GEORGE ST. SUITE 4

BECKLEY, WV 25801

Re: Permit approval for RITTER 507828
47-109-02148-00-00

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

Operator's Well Number: RITTER 507828
Farm Name: PLUM CREEK TIMBERLAND
U.S. WELL NUMBER: 47-109-02148-00-00
Vertical Plugging
Date Issued: 5/7/2021

H

4710902148P

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.

05/07/2021

4710902148P

WW-4B
Rev. 2/01

1) Date February 1, 2021
2) Operator's
Well No. Ritter Lumber Co 507828
3) API Well No. 47-100 - 02148

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 / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production or Underground storage ___) Deep ___ / Shallow

5) Location: Elevation 1953.41ft 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

RECEIVED
Office of Oil and Gas
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 Gary Kennedy Date 4/9/21

05/07/2021

Well # WV-507828
 API# 47-109-02148
 Elevation: 1950'
 Coal: 664', 791'
 Water: 70', 468'

Casing Schedule:

13 3/8" 37' Grouted
 9 5/8" 1244' CTS
 4 1/2" 6337' Estimated TOC @ 2300'

TD 6330

- 1) Notify WV State Inspector Gary Kennedy 48 hrs prior to commencing plugging ops.
- 2) MIRU. Check TD. TOOH w/ 2 3/8" tubing. TIH w/ WS to 5365'. Pump 6% gel water as needed to kill well, approx. 30 bbls. Set 100' cement plug from 5365' to 5265' covering Lower Huron. TOOH w/ 900' of tubing. WOC. Tag TOC, add cement as needed.
- 3) TIH w/ WS to 4158'. Pump 100' cement plug from 4158' to 4058' covering Upper Huron. TOOH w/ 900' of tubing. WOC. Tag TOC, add cement as needed.
- 4) TIH w/ tubing to 4002'. Pump 30 bbls of 6% gel. Set 100' cement plug from 4002' 3902' covering Berea. TOOH w/ tubing to 3163'. WOC. Tag TOC, add cement as needed.
- 5) Pump 25 bbls of 6% gel. Set 100' cement plug from 3163' to 3063' covering Big Lime. TOOH w/ 30 jnts of tubing. WOC. Tag TOC, add cement as needed.
- 6) TOOH w/ tubing. Free-point and shoot 4 1/2" casing. TOOH w/ casing. Approx 2300'.
- 7) TIH w/ tubing to casing cut. Pump 50 bbls of 6% gel. Set 100' plug 50' in and out of casing cut.
- 8) TOOH w/ tubing to 1950'. Pump 20 bbls of 6% gel. Set 100' cement plug from 1950' to 1850' covering Elevation.
- 9) TOOH w/ tubing to 1294'. Pump 20 bbls of 6% gel. Set plug 100' cement plug from 1294' to 1194' covering 9 5/8" casing seat.
- 10) TOOH w/ tubing to 841'. Pump 20 bbls of 6% gel. Set 241' cement plug from 841' to 600' covering coal show @ 791' and 664'.
- 11) TOOH w/ tubing to 518'. Circulate hole w/ 6% gel. Set 100' cement plug from 518' to 418' covering water show @ 468'.
- 12) TOOH w/ WS to 150'. Circulate cement to surface.
- 13) TOOH w/ tubing. Top off with cement as needed. Install monument to WV DEP Specs.



RECEIVED
 Office of Oil and Gas

APR 12 2021

WV Department of
 Environmental Protection

05/07/2021

LOCATION: Elevation: 1,950.00

Operator well NO.: WV-507825

4710902148P

District: Clear Fork

County: Wyoming

Latitude: 210 Feet South of
Longitude: 2200 Feet West of

Deg. 37 Minutes 40 Seconds 0
Deg. 61 Minutes 42 Seconds 30

Company: EQUITABLE PRODUCTION COMPANY
P.O. Box 2347, 1710 Pennsylvania Avenue
Charleston, WV 25325

Agent: Stephen Perdue

Inspector: Ofie Helmick

Permit issued: 03/18/2002
Well work commenced: 06/20/02
Well work completed: 07/24/02

Verbal Plugging Permission granted on: _____

Rotary Rig Cable Rig _____

Total Depth 6330 feet _____

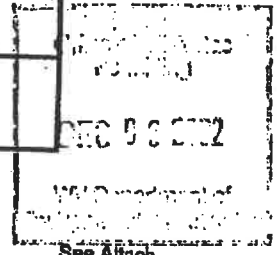
Fresh water depths (ft) 70', 466' _____

Salt water depths (ft) _____

Is coal being mined in area? _____

Coal Depths (ft): 664', 791' _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13-3/8"	37'	37'	Grd
9-5/8"	1244'	1244'	519 FT ³
4-1/2"	6337'	6337'	558 FT ³
2-3/8"		6243'	



OPEN FLOW DATA

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

Gas: Initial open flow _____ Odor _____ Pay Zone Depth (ft): _____
Final open flow 430 _____ Bbl/d
Time of open flow between initial and final tests _____ Final open flow: _____
Static rock pressure 230 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

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.

For: EQUITABLE PRODUCTION

By: Shane L. Thie
Date: 11/26/02

RECEIVED
Office of Oil and Gas

MAR 05 2021

WV Department of
Environmental Protection

05/07/2021

**EQUITABLE PRODUCTION COMPANY
WR-35 COMPLETION REPORT - Attachment
Well Treatment Summary**

Well: WV-507828

API# 47-109-02148

Date	7/12/2002	7/12/2002	7/12/2002	7/12/2002		
Type Frac	N ²	N ²	85/80/75 Q Foam	Acid		
Acid, N ₂ , Foam, Water						
Zone Treated	L Shale	U Shale	Berea	Big Lime		
# Perfs	50	40	31	30		
From - To:	5362-6300	4158-5269	4002-4032	3163-3389		
BD Pressure @ psi	2394	1750	1524	2083		
ATP psi	3100	2400	1210	1650		
Avg. Rate, B=B/M, S= SCF/M	60,000 S	58,000 S	20.4 B	8 B		
Max. Treat Press psi	3525	3501	1950	1836		
ISIP psi	2115	1720	1300	1500		
	Final	Final				
Frac Gradient	.42	.41	.32	.89		
10 min S-I Pressure	1840	1684	64	1263		
Material Volume						
Sand-sks			449			
Water-bbl			129			
SCF N ₂	905,000	804,700	317,600	159,500		
Acid-gal	630 gal 7.5% acid	1000 gal 7.5% acid	500 gal 15% acid	3000 gal 15% acid		
NOTES:						

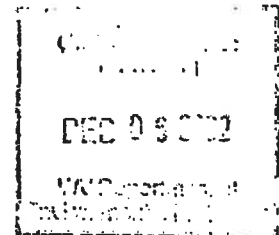
TOP	BASE	FORMATION	REMARKS*
Hole damp @ 70', 1/4" stream water @ 468'			
GT @ 2653', 3027', 3073', 3697'=NS, 5100', 5448', 5700', 6045', 6330'=odor			

SALT SAND:			2052
RAVENCLIFF:		2212	2370
AVIS:		2370	2392
UPPER MAXTON:		2454	2554
MIDDLE MAXTON:		2729	2772
LOWER MAXTON STRAY:			
LOWER MAXTON:		2914	2940
LITTLE LIME:		2987	3053
BIG LIME:		3074	3420
BIG INJUN:			
WEIR:		3534	3640
SUNBURY:		3973	3991
BEREA:		3991	4032
GORDON		4303	4322
:			
LOWER HURON:		5149	5679

RECEIVED
Office of Oil and Gas

MAR 05 2021

WV Department of
Environmental Protection



05/07/2021

(SURFACE)

4710902148

LONGITUDE
LAT. 37.39

WV 507828
STATE PLANE
COORDINATES

(N) 243,922
(E) 1,792,782

TIOGA LUMBER COMPANY
2106.70 ACRES±
(SURFACE)

PLUM CREEK TIMBERLANDS, L.P.
893.23 ACRES±
(SURFACE)

PLUM CREEK TIMBERLANDS, L.P. 47-109-0450
1238.58 ACRES±
(SURFACE)

NORTH

NORFOLK AND WESTERN RAILROAD
BIG CUB CREEK

COAL MOUNTAIN
McDONALD FORK

ACCESS ROAD

WV 507828

47-109-0452
452

T-RAILS (FOUND)

(DEED) S 06°44' E 814.02'
S 50°58'40" E 1004.14'
(SURVEYED) S 50°58'40" E 1005.30'

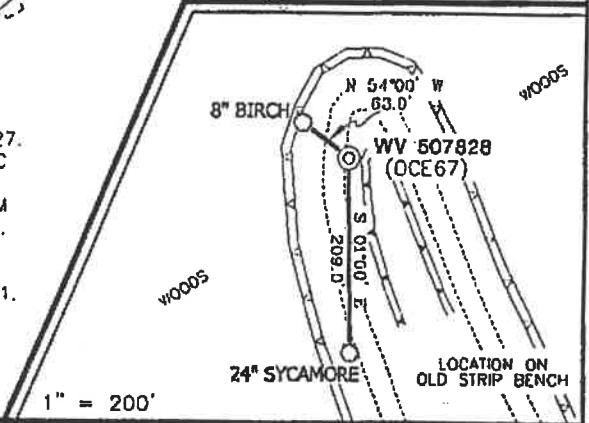
RECEIVED
Office of Oil and Gas

MAR 05 202

WV Department of
Environmental Protection

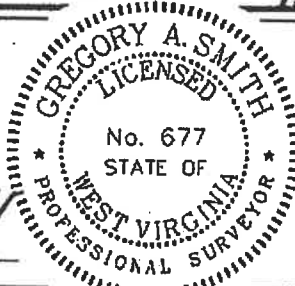
REFERENCES

- NOTES ON SURVEY
1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
 2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 1-30-02.
 3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM WYOMING COUNTY DEED BOOK 211 ON PAGE 164.
 4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF WYOMING COUNTY IN DECEMBER, 2001.
 5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
 6. SURFACE LINES SHOWN HEREON ARE APPROXIMATE DUE TO NO METES AND BOUNDS DESCRIPTIONS.



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.

P.S. 677
Gregory A. Smith



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

DATE FEBRUARY 25, 20 02

OPERATORS WELL NO. WV 507828

API WELL NO. 47 - 109 - 02148
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 3999P507828 (118-20)

PROVEN SOURCE OF ELEVATION BENCH MARK ELEVATION 1320' SCALE 1" = 2000'

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



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

LOCATION : ELEVATION 1950' WATERSHED McDONALD FORK OF BIG CUB CREEK

DISTRICT CLEAR FORK COUNTY WYOMING QUADRANGLE OCEANA 7.5'

SURFACE OWNER PLUM CREEK TIMBERLANDS, L.P. ACREAGE 1238.58±

ROYALTY OWNER PLUM CREEK TIMBERLANDS, L.P. LEASE ACREAGE 65,000±

PROPOSED WORK : LEASE NO. WV-4157

DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE PLUG OFF ___

COUNTY NAME

05/07/2021

WW-4A
Revised 6-07

1) Date: February 1, 2021
2) Operator's Well Number
Ritter Lumber Co 507828
3) API Well No.: 47 - 109 - 02148

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>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 _____
6) Inspector <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>

RECEIVED
Office of Oil and Gas
MAR 05 2021

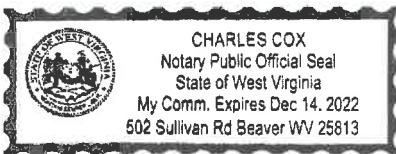
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:
1) Department of Environmental Protection

- (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 CM Energy Holdings, LP
 By: Jim Higgins
 Its: Designated Agent
 Address 200 George Street, Suite 4
Beckley, WV 25801
 Telephone 681-207-7393 ext 4



Subscribed and sworn before me this 8th day of February 2021
Charles Cox 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.

4710902148P

7016 2140 0000 2518 0962

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Huntington, WV 25705

OFFICIAL USE

Certified Mail Fee	\$3.60
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
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$2.20
Total Postage and Fees	\$8.65

0306
12

Postmark
Here

03/01/2021

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 7530-02-000-9047 See Reverse for Instructions

7016 2140 0000 2518 0979

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Hanover, NH 03755

OFFICIAL USE

Certified Mail Fee	\$3.60
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
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$2.20
Total Postage and Fees	\$8.65

0306
12

Postmark
Here

03/01/2021

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 7530-02-000-9047 See Reverse for Instructions

RECEIVED
Office of Oil and Gas

MAR 05 2021

WV Department of
Environmental Protection

05/07/2021

SURFACE OWNER WAIVER

API# 47-109-02148P

Operator's Well
Number

Ritter Lumber Co 507828

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 57th 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 the Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey

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,

RECEIVED
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
	05/07/2021

WW-4B

API No. 47-109-02148 P
Farm Name _____
Well No. Ritter Lumber Co 507828

**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.

RECEIVED
Office of Oil and Gas
MAR 05 2021
WV Department of
Environmental Protection

WAIVER

The undersigned coal operator X / owner _____ / lessee X / 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: 2/8/21

CM Energy Operations, LP

By: Jim Higgins
Its Chief Engineer

05/07/2021

WW-9
(5/16)

RECEIVED
Office of Oil and Gas

APR 12 2021

API Number 47 - 109 - 02148
Operator's Well No. Ripser 507928

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 property) *JLK*

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

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

Charles Cox Notary Public

My commission expires Dec. 14, 2022



05/07/2021

Form WW-9

APR 12 2021

API No 47-109-02148

Operator's Well No. Bitter Lumber Co
501828

WV Department of
Environmental Protection

Proposed Revegetation Treatment: Acres Disturbed 1 +/- Preveg etation 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.

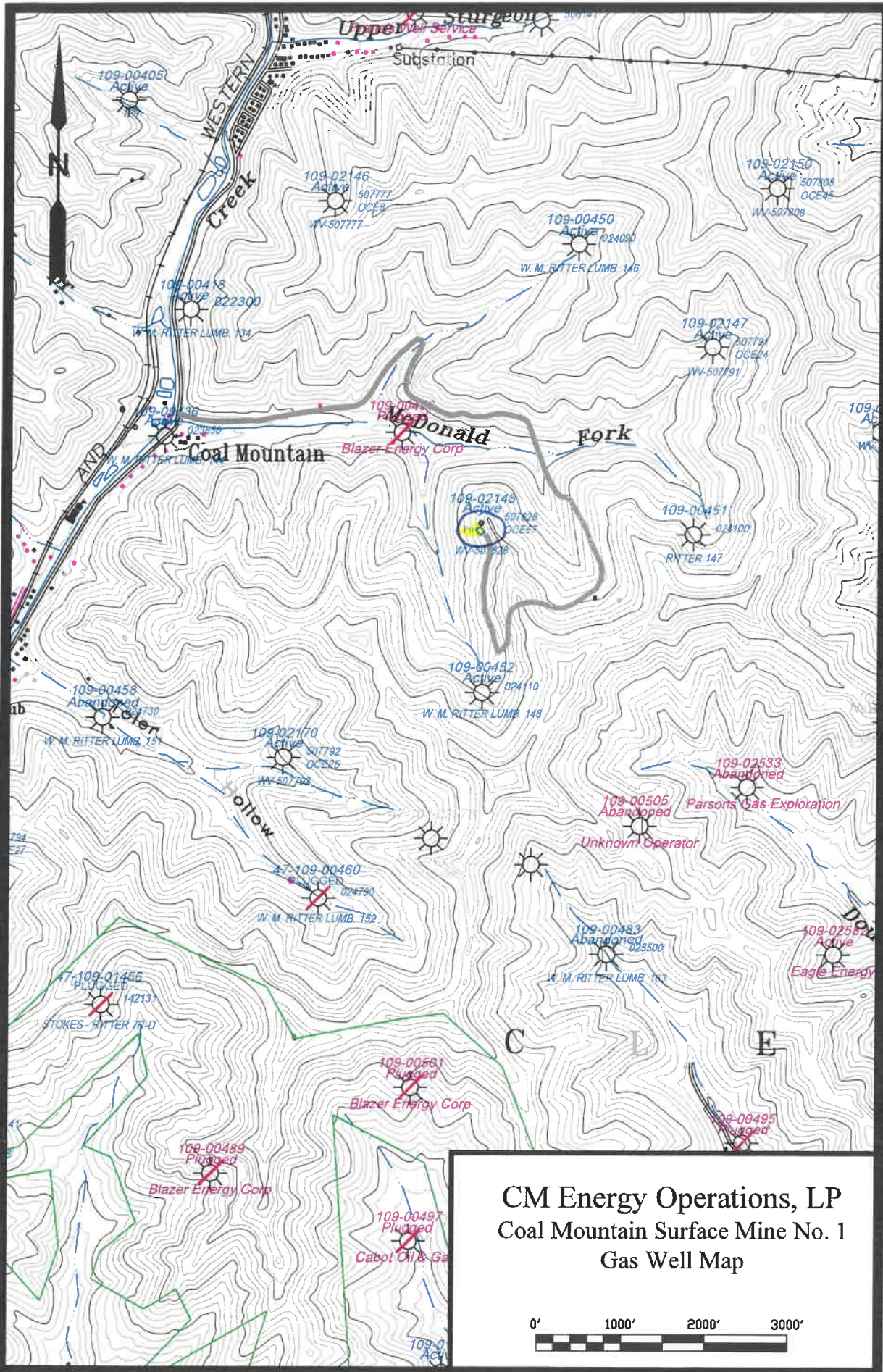
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: _____

Title: Inspector Date: 4/9/21

Field Reviewed? () Yes () No



PIT 20' x 20' x 6' deep
LOCATION
60' x 150'

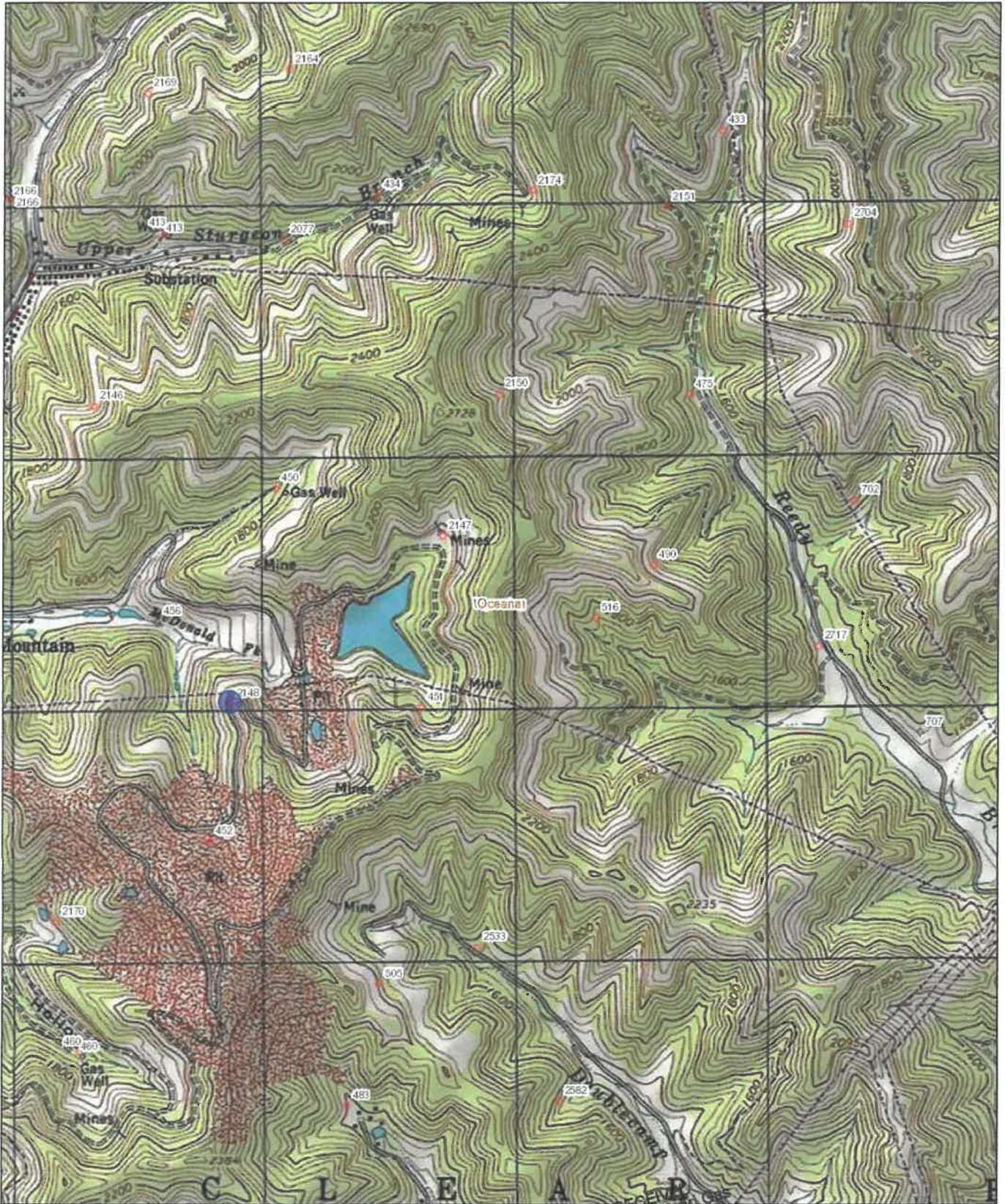
RECEIVED
 Office of Oil and Gas

MAR 05 2021

WV Department of
 Environmental Protection

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





1/28/2021, 12:25:12 PM

Individual Wells

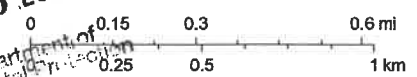
- ★ Gas
- ▲ Service
- Oil
- Oil and Gas Combination

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

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

RESERVE
Office of Oil and Gas
MAR 05 2021
WV Department of Environmental Protection

1:18,056



Copyright © 2013 National Geographic Society, I-cubed, The West Virginia Geological and Economic Survey (WVGES), West Virginia Geological and Economic Survey (WVGES)

05/07/2021

WW-7
8-30-06

4710902148P



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-109-02148-00 WELL NO.: 1156296

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: 4,169,018.19

UTM GPS EASTING: 436,874.71 GPS ELEVATION: 595.4m (1953')

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:

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

Survey grade GPS : Post Processed Differential _____
Real-Time Differential

Mapping Grade GPS _____ : Post Processed Differential _____
Real-Time Differential _____

RECEIVED
Office of Oil and Gas

MAR 05 2021

WV Department of
Environmental Protection

- 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

05/07/2021