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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, February 16, 2021  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

CM ENERGY HOLDINGS, LP  
200 GEORGE ST. SUITE 4

BECKLEY, WV 25801

Re: Permit approval for STKS 8-S142141  
47-109-01429-00-00

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: STKS 8-S142141  
Farm Name: ETTINGER, HELEN MORRIS   
U.S. WELL NUMBER: 47-109-01429-00-00  
Vertical Plugging  
Date Issued: 2/16/2021

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## 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.

1) Date September 25, 2020  
2) Operator's  
Well No. Stokes-Ritter 8  
3) API Well No. 47-109 - 01429

**4710901429P**

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 2009.2 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**

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 1/25/21

**Plugging Prognosis**  
**West Virginia, Wyoming County**  
**Well # 8-5142141**  
**API # 47-109-01429**

**Casing Schedule:**

16" 41' CTS  
 11 3/4" 628' CTS  
 8 5/8" 2064' CTS  
 5 1/2" 6384' Cemented with 658 Cu. Ft. RFC Cement  
 TD 6396'

**Completion:**

Rhinstreet Perforated 6320'-6072'  
 Lower Huron Perforated 5625'-5104'  
 Upper Dev. Shale Perforated 4544'-4318'  
 Berea Perforated 4006'-3984'  
 Fresh Water None noted  
 Saltwater 1961'  
 Gas Shows None noted  
 Oil Shows None noted  
 Coal Open Mine 300'-305'  
 Elevation 1891.69'

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- 1) Notify State Inspector Gary Kennedy @ 304-382-8402, 48 hours prior to commencing operations.
- 2) MIRU. Check TD.
- 3) Pull and inspect 2 3/8" tubing. TIH w/ tubing to 6072'.
- 4) Pump 30 bbls of 6% gel water. Set 100' cement plug from 6072' to 5972' (Rhinstreet Perfs). Tag plug, add cement if necessary.
- 5) TIH w/ tubing to 5164'. Set 100' cement plug from 5164' to 5064' (Lower Huron Perfs). Tag plug, add cement if necessary.
- 6) TIH w/ tubing to 4318'. Set 100' cement plug from 4318' to 4218' (Upper Dev Shale Perfs). Tag plug, add cement if necessary.
- 7) TIH w/ tubing to 3984'. Set 100' cement plug from 3984' to 3884' (Berea Perfs). Tag plug, add cement if necessary.
- 8) TOOH w/ tubing.
- 9) Free-point 5 1/2" casing. Shoot off and pull casing.
- 10) TIH w/ tubing to casing cut. Set 100' cement plug 50' in

ALL PLUGS MUST  
 HAVE 6% GEL WATER  
 SPACERS.

*gmm*

and 50' out of casing cut.

4710901429

- 11) TOO H w/ tubing to 2114'. Set 157' cement plug from 2114' to 1961' (Saltwater and 8 5/8" casing seat). Tag plug, add cement if necessary.
- 12) TOO H w/ tubing to 1891'. Set 100' cement plug from 1891' to 1791' (Elevation). Tag plug, add cement if necessary.
- 13) TOO H w/ tubing to 350'. Set cement plug from 350' to Surface (Coal 300'-305').
- 14) TOO H w/ tubing. Top off as needed w/ cement. Set monument to WV DEP Specs.

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WR-35

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NOV 10 1994

Permitting  
Office of Oil & Gas

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

23-May-94  
API # 47-109-01429

Well Operator's Report of Well Work

Farm Name: ETTENGER, HELEN MORRISON

Operator Well No.: STKS #8-S142141

Location: Elevation: 1,891.69

Quadrangle: OCEANA

District: CLEAR FORK

County: WYOMING

Latitude: 7610 Feet South of 37

Deg. 40 Min. 0 Sec.

Longitude: 8240 Feet West of 81

Deg. 42 Min. 30 Sec.

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Company: ASHLAND EXPLORATION, INC.  
P.O. BOX 391, AT-9  
ASHLAND, KY 41114-0391

WV Department of  
Environmental Protection

Agent: B. E. Widener

Inspector: OFIE HELMICK

Permit Issued: 05-27-94

Well Work Commenced: 09-09-94

Well Work Completed: 10-19-94

Verbal Plugging

Permission granted on:

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

Total Depth (feet) 6400

Fresh water depths (ft) None Noted

Salt water depths (ft) Damp @ 1961'

Is coal being mined in area (Y/N)? N

Coal Depths (ft): Open mine 300-305

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size 16"	41'	41'	9.4
11 3/4"	628'	628'	310
8 5/8"	2064'	2064'	662
5 1/2"	6384'	6384'	658
2 3/8" @ 6288'			

OPEN FLOW DATA

Dev. Shale

4318-6323

Producing formation Berea Pay zone depth (ft) 3984-4006

Gas: Initial open flow 59 MCF/d Oil: Initial open flow -- Bbl/d

Final open flow 1540 MCF/d Final open flow -- Bbl/d

Time of open flow between initial and final tests 3 Hours

Static Rock Pressure 360 psig (surface pressure) after 72 Hours

Second producing formation None Pay zone depth (ft) --

Gas: Initial open flow -- MCF/d Oil: Initial open flow -- Bbl/d

Final open flow -- MCF/d Final open flow -- Bbl/d

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.

formation or rock type

Top

Base

Sand and Shale (base Lee Sand)	0	2014
Pennington	2014	2966
U. Maxton	2406	2488
M. Maxton	2595	2654
L. Maxton	2882	2922
Little Lime	2966	3054
Big Lime	3054	3401
Borden	3401	3953
Sunbury Shale	3953	3973
✓ Berea	3973	4015
✓ Devonian Shale	4015	6381
Onondaga Lime	6381	T.D.

Drillers TD 6400

Loggers TD 6396

8 5/8" and 113/4" cmt'd to surface on primary job.

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Perf Rhinestreet sf 1 spf @ 6323, 6320, 6306, 6298, 6288, 6267, 6244, 6224, 6212, 6202, 6186, 6176, 6164, 6153, 6123, 6093, 6087, 6074, 6072, 19 shots total. Pump 300 gal 7½% HCl-Fe acid. N<sub>2</sub> Frac Rhinestreet w/853,000 scf N<sub>2</sub> @ 78,500 scf/min. BD @ 3035#, ATP 3200, MTP 3276 & ISIP 2600.

Perforated L. Huron w/SF HCG 3½" JRC jets 1 spf @ 5625, 5616, 5607, 5577, 5566, 5556, 5542, 5530, 5516, 5498, 5496, 5455, 5350, 5276, 5248, 5234, 5206, 5199, 5183, 5173, 5170 & 5164. Total 19 holes. Pump 500 gal 7½% HCl-Fe acid. N<sub>2</sub> frac using 825,000 scf N<sub>2</sub> @ 78500 scf/min. BD @ 3983, ATP 2725, MTP 3983 & ISIP 2200.

Perf U. Dev. Shale w/ SF HCG 3½" JRC jets 1 spf @ 4544, 4542, 4536, 4520, 4502, 4500, 4471, 4455, 4451, 4424, 4421, 4399, 4390, 4378, 4362, 4343, 4329 & 4318, total 18 holes. N<sub>2</sub> frac U. Dev. Shale using 250 gal 7½% HCl-Fe acid, 855,000 scf N<sub>2</sub> @ 80,000 scf/min. BD 2294, ATP 2300, MTP 2362 & ISIP 1850.

Perf Berea w/4" HCG 2 spf, 7H/3984-3987 & 21H/3996-4006, 28H total. Set RBP @ 4050' - BWD. GT 2/10 wtr 1" = 15 Mcf/d. Dump 500 gal 15½% HCl-Fe acid & 65Q foam frac Berea using 162,000 scf N<sub>2</sub> @ 6400 scf/m & 56,000# 20/40 sand. BD @ 990#, ATP 935# @ 20 E/M foam, MTP 1700#, ISIP 1375#, 10 min 1050#, TF 154 Bbl.

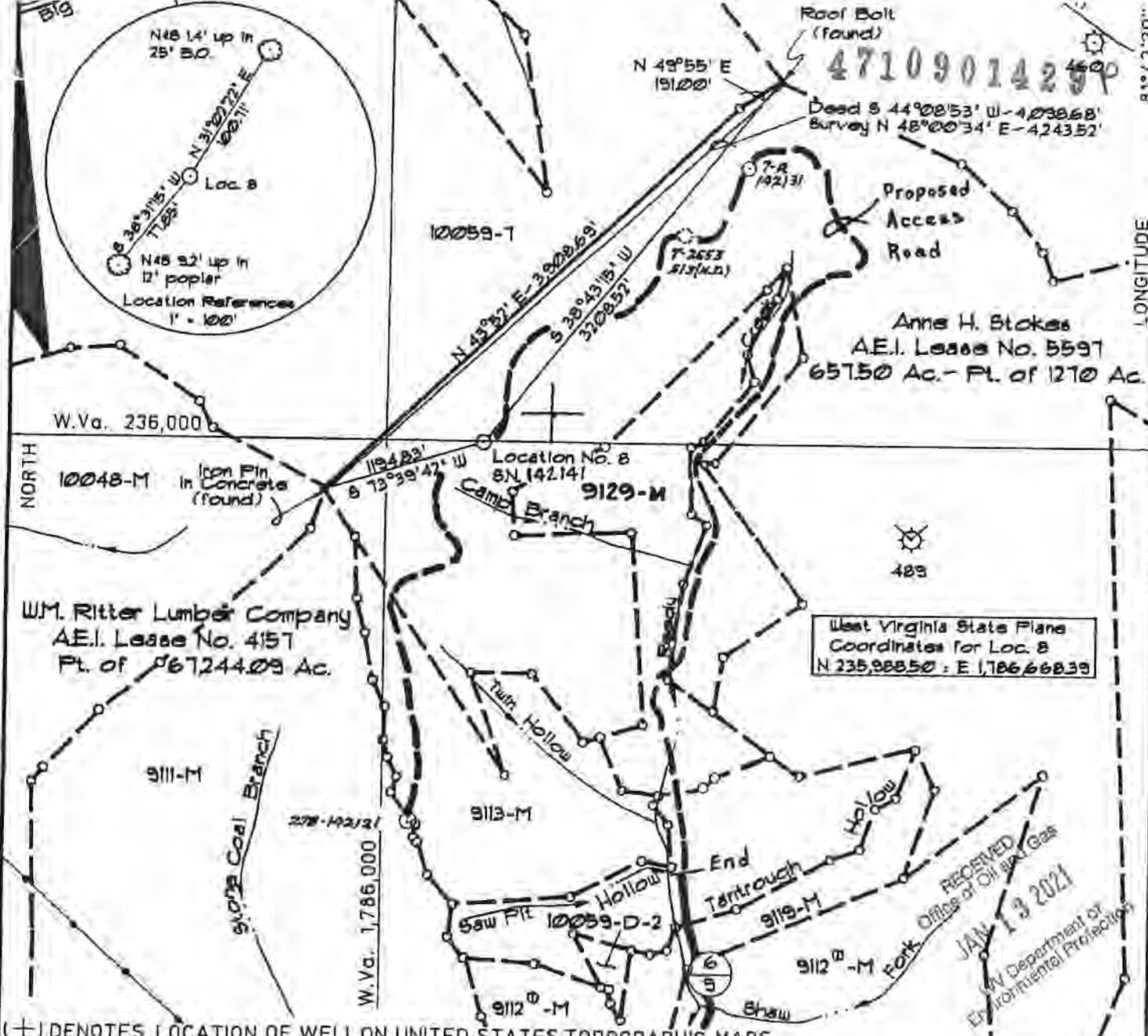
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ET 11.





FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1:51,686  
 PROVEN SOURCE OF ELEVATION C.C.C. Sta. PP 57  
Elev. = 2177.49

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 THE LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.

(SIGNED) Ronald L. Eastman  
 R.P.E. \_\_\_\_\_ L.L.S. 150



PLACE SEAL HERE

**STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION**



DATE August 20 1992  
 OPERATOR'S WELL NO. Anne H. Stokes No. B  
 API WELL NO. SN 142141

**47-109-1429**  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 IF "GAS, I" PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1891.69 WATER SHED Camp Branch of Reedy Creek of the Guyandotte River  
 DISTRICT Clear Fork COUNTY Wyoming  
 QUADRANGLE Ossana  
 SURFACE OWNER Anne H. Stokes Heirs ACREAGE 65750  
 OIL & GAS ROYALTY OWNER Anne H. Stokes LEASE ACREAGE 1270  
 LEASE NO. 5597  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW

FORM WW-5

COUNTY NAME

P

WW-4A  
Revised 6-07

1) Date: September 25, 2020  
2) Operator's Well Number  
Stokes-Ritter 8  
3) API Well No.: 47 - 109 - 01429

**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>CM Energy Holdings, LP</u>	Name <u>CM Energy Operations, LP</u>
Address <u>200 George Street, Suite 4</u>	Address <u>200 George Street, Suite 4</u>
<u>Beckley, WV 25801</u>	<u>Beckley, WV 25801</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>CM Energy Holdings, LP</u>
	Address <u>200 George Street, Suite 4</u>
	<u>Beckley, WV 25801</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 Holdings, 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.

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Well Operator	<u>CM Energy Holdings, LP</u>
By:	<u>Jim Higgins</u> <i>Jim Higgins</i>
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 11<sup>th</sup> day of January 2021

My Commission Expires June 30, 2024 *Leah E. Yoakum*



**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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).

**SURFACE OWNER WAIVER**

4710901429F

Operator's Well  
Number

Stokes-Ritter 8

**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

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**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,

_____	Date _____	Name <u>CM Energy Holdings, LP</u>	_____
Signature		By <u>Jim Higgins, Chief Engineer</u>	_____
		Its <u><i>Jim Higgins</i></u>	Date _____
		Signature	<u>1/10/21</u> Date

WW-4B

API No. ~~47-109-01492~~

Farm Name \_\_\_\_\_

Well No. Stokes-Ritter 8

4710901429P

**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.

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**WAIVER**

The undersigned coal operator X / owner X / 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: 1/10/21

CM Energy Operations, LP

By: Jim Higgins  
Its Chief Engineer

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

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

Watershed (HUC 10) Buffalo Creek-Guyandotte River Quadrangle Oceana WV Department of Environmental Protection

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

ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS BEFORE DISPOSED OFF-SITE. JEM

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)

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 11th day of January, 2021

Leah E Yoakum

Notary Public

My commission expires June 30, 2024



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
Red Fescue	40
Alsike	5
Annual Rye	15

Seed Type	lbs/acre
Red Fescue	15
Alsike	5

**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.

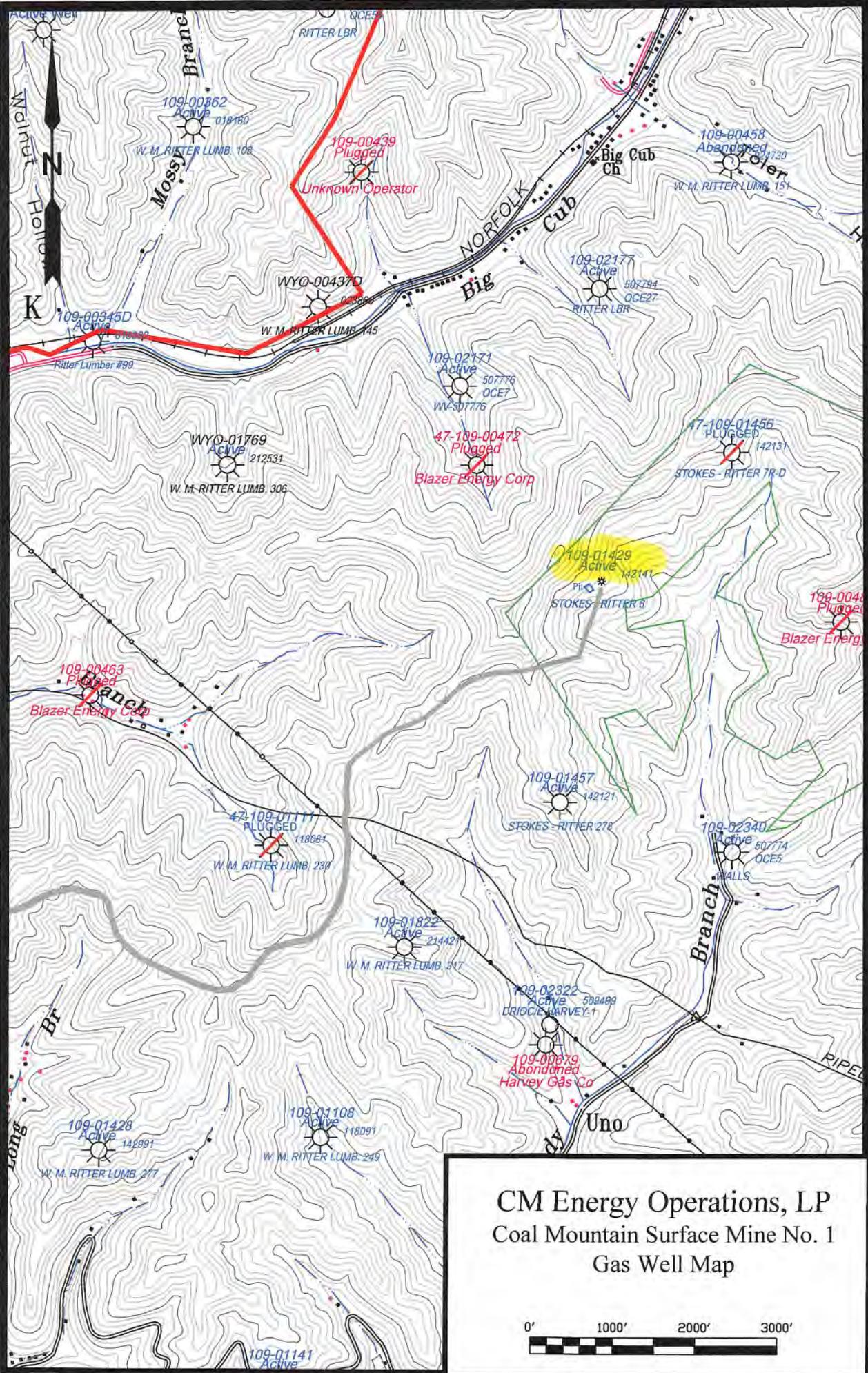
Plan Approved by: Gary Kennedy here

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: Inspector

Date: 1/25/21

Field Reviewed? ( ) Yes ( ) No



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

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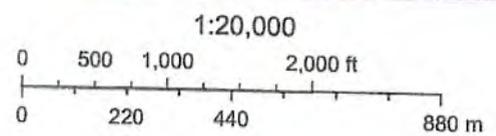
# WV Oil & Gas Wells (WVOG)

4710901429P



1/10/2021, 4:41:02 PM

- Individual Wells
  - Gas
  - Oil
  - Oil and Gas Combination
  - Dry
  - Service
  - Other ( including Permits)
- Labels (7.5' Quadrangles)
- 7.5' Quadrangles
- State Boundary
- Counties
- County Labels



GLK

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

API: 47-109-01429-00 WELL NO.: 1153845

FARM NAME: Ettinger

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: 4,166,779.99 (1958')

UTM GPS EASTING: 435,012.71 GPS ELEVATION: 579.7 meters

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 \_\_\_\_\_

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WV Department of  
Environmental Protection

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.

James C. Higgins, II Designated Agent 1/11/2021  
Signature Title Date