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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)

Friday, April 22, 2022

WELL WORK PLUGGING PERMIT  
Vertical Plugging

CM ENERGY HOLDINGS, LP  
200 GEORGE ST. SUITE 4  
BECKLEY, WV 25801

Re: Permit approval for 1  
47-109-00505-00-00

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: 1  
Farm Name: TOLER, I. H.  
U.S. WELL NUMBER: 47-109-00505-00-00  
Vertical Plugging  
Date Issued: 4/22/2022

Promoting a healthy environment.

04/22/2022

## 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.

4710900505P

WW-4B  
Rev. 2/01

1) Date February 16, 2022  
2) Operator's  
Well No. 1  
3) API Well No. 47-109 - 00450

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 2100 ft Watershed Clear Fork  
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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Office of Oil and Gas

APR 21 2022

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 4/21/2022

04/22/2022

**CM Energy**

**47-109-00505**

**Elevation: 2100'**

**TD: 4200'**

**Casing Schedule:**

**13 3/8" @ 11'**

**8 5/8" @ 2226'**

**6 5/8" @ 3176'**

**Water @ 267' and 895'**

**Coal @ 100'**

**Gas**

**Procedure:**

- 1) Notify WV State Inspector Gary Kennedy 48 hours prior to commencing plugging ops.
- 2) MIRU. Check CSIP's. Check TD.
- 3) TIH w/ WS to 4132'. Pump 35 bbls of 6% gel water. Set 100' cement plug from 4132' to 4032' (Top of shot in Berea). Pull 25 jnts. WOC. Tag TOC, top off as needed.
- 4) TOOH w/ tubing to 3226'. Pump 50 bbls of 6% gel water. Set 100' plug from 3226' to 3126' (6 5/8" casing seat). Pull 25 jnts. WOC. Tag TOC, top off as needed.
- 5) TOOH w/ tubing. Free-point 6 5/8" casing. Cut/Pull 6 5/8" casing.
- 6) TIH w/ tubing to casing cut. Set 100' cement plug 50' in and 50' out of casing cut.
- 7) TOOH w/ tubing to 2276'. Pump 35 bbls of 6% gel water. Set 100' cement plug from 2276' to 2176' (8 5/8" casing seat).
- 8) TOOH w/ tubing. Free-point 8 5/8" casing. Cut/Pull 8 5/8" casing. If 8 5/8" casing will not pull @ or below elevation @ 2040', perforate 8 5/8" casing @ 2040', 2000', and 1975'. Set 100' Plug.
- 9) TIH w/ tubing to casing cut. Set 100' cement plug covering casing cut.
- 10) TOOH w/ tubing to 895'. Set 100' cement plug (Water Show @ 895').
- 11) TOOH w/ tubing to 270'. Circulate cement to surface. TOOH w/ tubing.
- 12) Top off, install monument to WV DEP Specs, RDMO.

*Gary Kennedy*

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Office of Oil and Gas

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WV Department of  
Environmental Protection

04/22/2022



**CM Energy**

47-109-00505

Elevation: 2100'

TD: 4200'

**Casing Schedule:**

13 3/8" @ 11'

8 5/8" @ 2226'

6 5/8" @ 3176' - MAY HAVE BEEN PULLED, PREVIOUSLY.  
JMM

Water @ 267' and 895'

Coal @ 100'

Gas

**Procedure:**

- 1) Notify WV State Inspector Gary Kennedy 48 hours prior to commencing plugging ops.
- 2) MIRU. Check CSIP's. Check TD.
- 3) TIH w/ WS to 4132'. Pump 35 bbls of 6% gel water. Set 100' cement plug from 4132' to 4032' (Top of shot in Berea). Pull 25 jnts. WOC. Tag TOC, top off as needed.
- 4) TOOH w/ tubing to 3226'. Pump 50 bbls of 6% gel water. Set 100' plug from 3226' to 3126' (6 5/8" casing seat). Pull 25 jnts. WOC. Tag TOC, top off as needed.
- 5) TOOH w/ tubing. Free-point 6 5/8" casing. Cut/Pull 6 5/8" casing.
- 6) TIH w/ tubing to casing cut. Set 100' cement plug 50' in and 50' out of casing cut.
- 7) TOOH w/ tubing to 2276'. Pump 35 bbls of 6% gel water. Set 100' cement plug from 2276' to 2176' (8 5/8" casing seat).
- 8) TOOH w/ tubing. Free-point 8 5/8" casing. Cut/Pull 8 5/8" casing. **If 8 5/8" casing will not pull @ or below elevation @ 2040', perforate 8 5/8" casing @ 2040', 2000', and 1975'. Set 100' Plug.**
- 9) TIH w/ tubing to casing cut. Set 100' cement plug covering casing cut.
- 10) TOOH w/ tubing to 895'. Set 100' cement plug (Water Show @ 895').
- 11) TOOH w/ tubing to 270'. Circulate cement to surface. TOOH w/ tubing.
- 12) Top off, install monument to WV DEP Specs, RDMO.

FRESH WATER @ 267'.  
JMMRECEIVED  
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WV Department of  
Environmental Protection

04/22/2022



4710900505P

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Quadrangle Pineville

Permit No. WYO-505-REVISED

WELL RECORD

Oil or Gas Well Gas

Company Wetzel Lusher  
 Address Branchland, West Virginia  
 Farm I. H. Toler Acres 1159  
 Location (waters) \_\_\_\_\_  
 Well No. 1 Elev. 2040'  
 District Clear Fork County Wyoming  
 The surface of tract is owned in fee by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Mineral rights are owned by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Drilling commenced \_\_\_\_\_  
 Drilling completed July 11, 1959  
 Date Shot 7/14/59 From 4148 To 4180'  
 With 250 qts. of Gelatine  
 Open Flow 10ths Water in No Results Inch  
10ths Merc. in Inch  
 Volume 30,000 Cu. Ft.  
 Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil \_\_\_\_\_ bbls. 1st 24 hrs.  
 WELL ACIDIZED 3000 gal. of Acid 7/21/59  
 \_\_\_\_\_  
 WELL FRACTURED \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13	10'	10'	
10	72h'	72h'	Size of
8 1/2	2226'	2226'	
6			Depth set
5 1/2 16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Da \_\_\_\_\_  
 COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCH  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCH  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCH

RESULT AFTER TREATMENT 528,000 Cu. Ft. - Not in the line

ROCK PRESSURE AFTER TREATMENT 530# - 72 Hours

Fresh Water 267 Feet 895 Salt Water 2040' Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Coal			100	105			
Big Lime			3176	3576			
Berea			4148	4189			
Total Depth				4200	Gas 3290 - 3300'		30,000 Cu. Ft.

REPORT FROM UNITED FUEL GAS COMPANY



Form O&G-10



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION / 6

Quadrangle PINEVILLE

Permit No. WV-505-REN.

WELL RECORD

Oil or Gas Well G-3

Company Wetzel Lusher  
Address Branchland, West Virginia  
Farm I. H. Toler Acres 1160  
Location (waters) Gayan River  
Well No. One Elev. 2040.0  
District Clear Fork County Wyoming  
The surface of tract is owned in fee by I. H. Toler  
Address Oceana, W. Va.  
Mineral rights are owned by I. H. Toler  
Address Oceana, W. Va.  
Drilling commenced 7/21/58  
Drilling completed 7/2/59  
Date Shd. 7/15/59 From 4132 To 4175  
With 250 quarts  
Open Flow 1/10ths Water in No gas Inch  
1/10ths Merc. in                      Inch  
Volume No gas Cu. Ft.  
Rock Pressure 335 lbs. 1 hrs.  
Oil                      bbls., 1st 24 hrs.  
WELL ACIDIZED Yes  
WELL FRACTURED                     

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13	11'	11'	
10	750'	750'	Size of
8 3/4	2226'	2226'	
6 3/4	3176'	3176'	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED                      SIZE                      No. Ft.                      Di  
COAL WAS ENCOUNTERED AT                      FEET                      INCH  
                     FEET                      INCHES                      FEET                      INCH  
                     FEET                      INCHES                      FEET                      INCH

RESULT AFTER TREATMENT 4/10 Merc. in 3"

ROCK PRESSURE AFTER TREATMENT                     

Fresh Water 267 Feet Salt Water 895 Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Slate-Soft			0	30			
Sand		Soft	30	60			
Slate		Soft	60	75			
Sand		Soft	75	90			
Slate		Soft	90	100			
Coal		Soft	100	105			
Sand		Soft	105	120			
Black Lino			120	150			
Sand		Hard	150	170			
Slate		Soft	170	190			
Broken Lime			190	195			
Sand			195	205			
Lime broken			205	230			
Sand		Soft	230	242			
Lime broken			242	270			
Sand			270	300			
Sand & Shells			300	375			
Slate & Shells			375	460			
Sand			460	482			
Slate			482	495			
Sand			495	515			
Slate			515	650			
Shall		Hard	650	685			
Sand		Hard	685	726			
Slate		Soft	726	755			
Sand		Soft	755	775			
Sand		Soft	775	850			



4710900505P

Formation	Color	Hard or Soft	Top /s	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate		Soft	950	1030			
Slate		Soft	1030	1090			
Slate		Soft	1170	1290			
Sand		Soft	1300	1345			
Slate & Shell			1345	1345			
Sand		Hard	1315	1655			
Slate			1455	1450			
Sand		Hard	1390	1895			
Slate		Soft	1895	1923			
Slate		Soft	1923	1933			
Sand		Hard	1913	1938			
Sand	Soft	Soft	1938	1948			
Slate		Soft	1948	1958			
Broken Sand			1955	1976			
Slate & Shell			1978	2002			
Sand		Hard	2002	2020			
Slate		Soft	2020	2040			
Sand		Hard	2040	2160			
Slate & Shell			2160	2168			
Red Rock		Soft	2188	2210			
Slate		Soft	2210	2234			
Lime		Hard	2224	2241			
Slate & Shell			2241	2350			
Shells		Hard	2350	2432			
Lime-Slate		Soft	2432	2528			
Red Rock			2528	2562			
Lime		Hard	2562	2588			
Redrock			2638	2666			
Sand		Hard	2666	2700			
Slate & Shell			2700	2813			
Red Rock			2813	2958			
Slate		Soft	2958	2995			
Red Rock			2995	3032			
Lime Shell			3032	3090			
Slate & Shells			3090	3121			
Pencil cave			3121	3146			
Black Lime			3146	3570			
Slate		Soft	3570	3572			
Injun Sand			3572	3655			
Slate & Shell			3655	3699			
Red Rock			3699	3710			
Slate		Soft	3710	4120			
Brown Shale			4120	4132			
Berea Sand			4132	4175			
Slate			4175	4200			

Date 04/22/2022



WW-4A  
Revised 6-07

1) Date: February, 2022  
2) Operator's Well Number  
1  
3) API Well No.: 47 - 109 - 00505

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

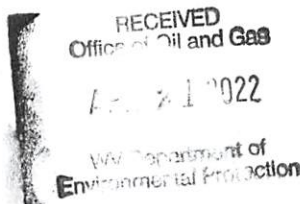
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Darrell &amp; Letha Cline</u>	Name <u>CM Energy Operations, LP</u>
Address <u>PO Box 17</u>	Address <u>200 George Street, Suite 4</u>
<u>Clear Fork, WV 24822</u>	<u>Beckley, WV 25801</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Darrell &amp; Letha Cline</u>
	Address <u>PO Box 17</u>
	<u>Clear Fork, WV 24822</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 Properties, 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 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

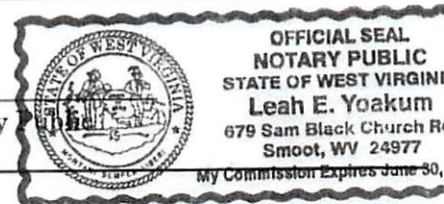
*Jim Higgins*

Subscribed and sworn before me this 11th day of April

My Commission Expires June 30, 2024

*Leah E. Yoakum*

Notary



**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).

04/22/2022



**SURFACE OWNER WAIVER**

4710900505

Operator's Well  
Number

1

**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..."

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Office of Oil and Gas

APR 21 2022

WV Department of  
Environmental Protection

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,

X Letha Cline  
Signature  
Darrell W Cline

Date 4-14-22 Name \_\_\_\_\_  
By \_\_\_\_\_  
It: \_\_\_\_\_

\_\_\_\_\_  
Signature Date  
04/22/2022

WW-4B

API No. 47-109-00505  
Farm Name \_\_\_\_\_  
Well No. 1

**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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Office of Oil and Gas

APR 21 2022

WV Department of  
Environmental Protection

**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: 4-14-22

Letha Clini X  
By: Darrell W Clini  
Its \_\_\_\_\_

04/22/2022



WW-4B

API No. 47-109-00505  
Farm Name \_\_\_\_\_  
Well No. 1

**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

APR 21 2022

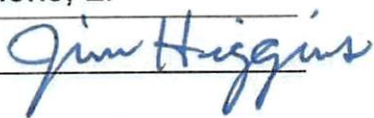
WV Department of  
Environmental Protection

**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: 2/16/22

CM Energy Operations, LP

By: Jim Higgins   
Its Chief Engineer

04/22/2022

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) Clear Fork-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)

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

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Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. n/a

APR 21 2022

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) \_\_\_\_\_

WV Department of  
Environmental Protection

-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 11<sup>th</sup> day of April, 2022

Leah E. Yoakum Notary Public

My commission expires June 30, 2024



OFFICIAL SEAL  
LEAH E. YOAKUM  
STATE OF WEST VIRGINIA  
04/22/2022  
Leah E. Yoakum

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]*

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

APR 21 2022

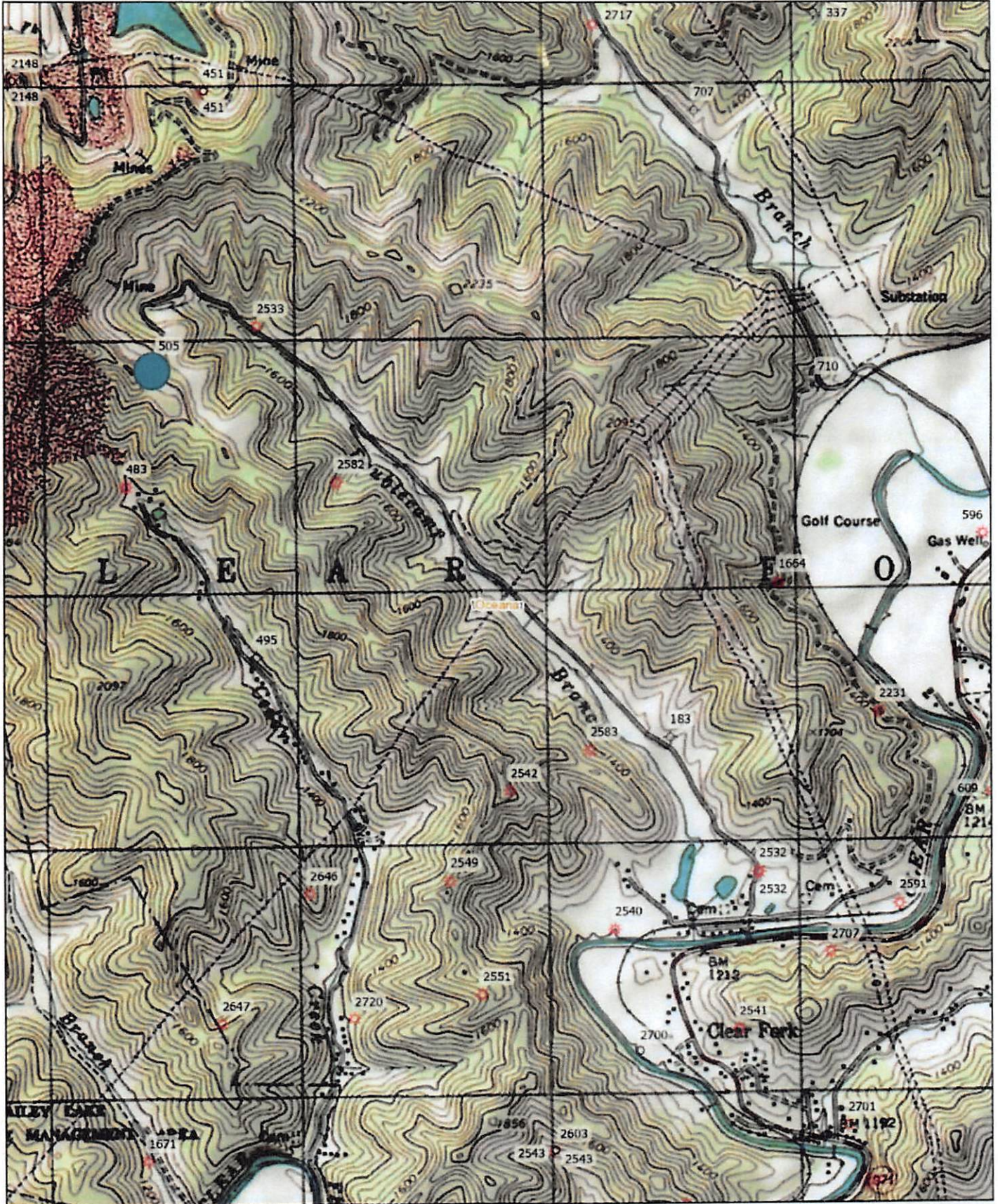
WW Department of  
Environmental Protection

Title: *Inspector*

Date: *4/22/22*

Field Reviewed? ( ) Yes ( ) No





4/11/2022, 4:32:35 PM

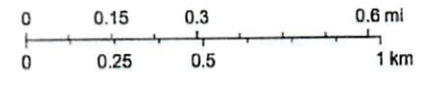
- |                           |                                     |
|---------------------------|-------------------------------------|
| Labels (7.5' Quadrangles) | County Labels                       |
| 7.5' Quadrangles          | WV Oil and Gas All Individual Wells |
| State Boundary            | Gas                                 |
| Counties                  | Dry                                 |

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APR 22 2022

WV Department of  
Environmental Protection

1:18,056



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04/22/2022



WW-7  
8-30-06



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

API: 47-109-00505-00 WELL NO.: 1

FARM NAME: I.H. Toler

RESPONSIBLE PARTY NAME: CM Energy Holdings, LP

COUNTY: Wyoming DISTRICT: Clear Fork

QUADRANGLE: Oceana

SURFACE OWNER: CM Energy Holdings, LP

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ROYALTY OWNER: CM Energy Holdings, LP

APR 21 2022

UTM GPS NORTHING: 4,167,905

WV Department of  
Environmental Protection

UTM GPS EASTING: 437,457.7 GPS ELEVATION: 2100.3

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 Heggins  
Signature

Chief Engineer  
Title

2/16/22  
Date **04/22/2022**

Department of Environmental Protection

This is to acknowledge that the well: API no. 47-109-00505

District Clear Fork

Well No 1 Farm name Toler, I. H.

Is hereby transferred To:

The transferee Company: CM Energy Holdings, LP

Code # Address 200 George Street, Suite 4, Beckley, WV 25801

Transfer approval shall be subject to the provisions in W. Va. Code §§ 22-6-26, 22-10-7 and 35 CSR 4 – 10.5, or as otherwise set forth by agreement with the Chief.

The transferee has registered and designated an agent on form OP-1, which is on file with the Office of Oil and Gas. The agent is:

Designated agent (name) Jim Higgins

Address: 200 George Street, Suite 4, Beckley, WV 25801

The transferee has bonded the said well by ( check one ):

Securities  Cash  Surety bond  Letter of credit

Identified by:

Amount:		Effective date :	
Issuing authority:		Id. No:	

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Office of Oil and Gas

APR 21 2022

Transferee: CM Energy Holdings, LP WV Department of Environmental Protection

By: Jim Higgins *Jim Higgins*  
Its: Designated Agent

Taken, subscribed and sworn before me this 11th day of April 2022

Notary Public Leah E. Yoakum

My Commission Expires June 30, 2024





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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)

Thursday, April 21, 2022

NOTICE OF FINAL ACTION TO TRANSFEREE

CM ENERGY HOLDINGS, LP  
200 GEORGE ST. SUITE 4

BECKLEY, WV 25801

This is to inform you that wells on the enclosed document met the transfer criteria and were transferred to your bond. Wells that did not meet transfer criteria were not transferred.

You are by this letter being informed that you have accepted all responsibility for compliance with the provisions of Chapter 22 et seq. of the West Virginia Code of 1931, as amended, and all the rules and regulations promulgated thereunder, for the wells transferred to your bond.

If you have any questions concerning this notice, contact this office at the above address. Please include the transfer number, effective date, and the API number(s) of the well(s) in question in your correspondence.

Thank you in advance for your cooperation.

A blue ink signature of James A. Martin, Chief, is written over the typed name and title.

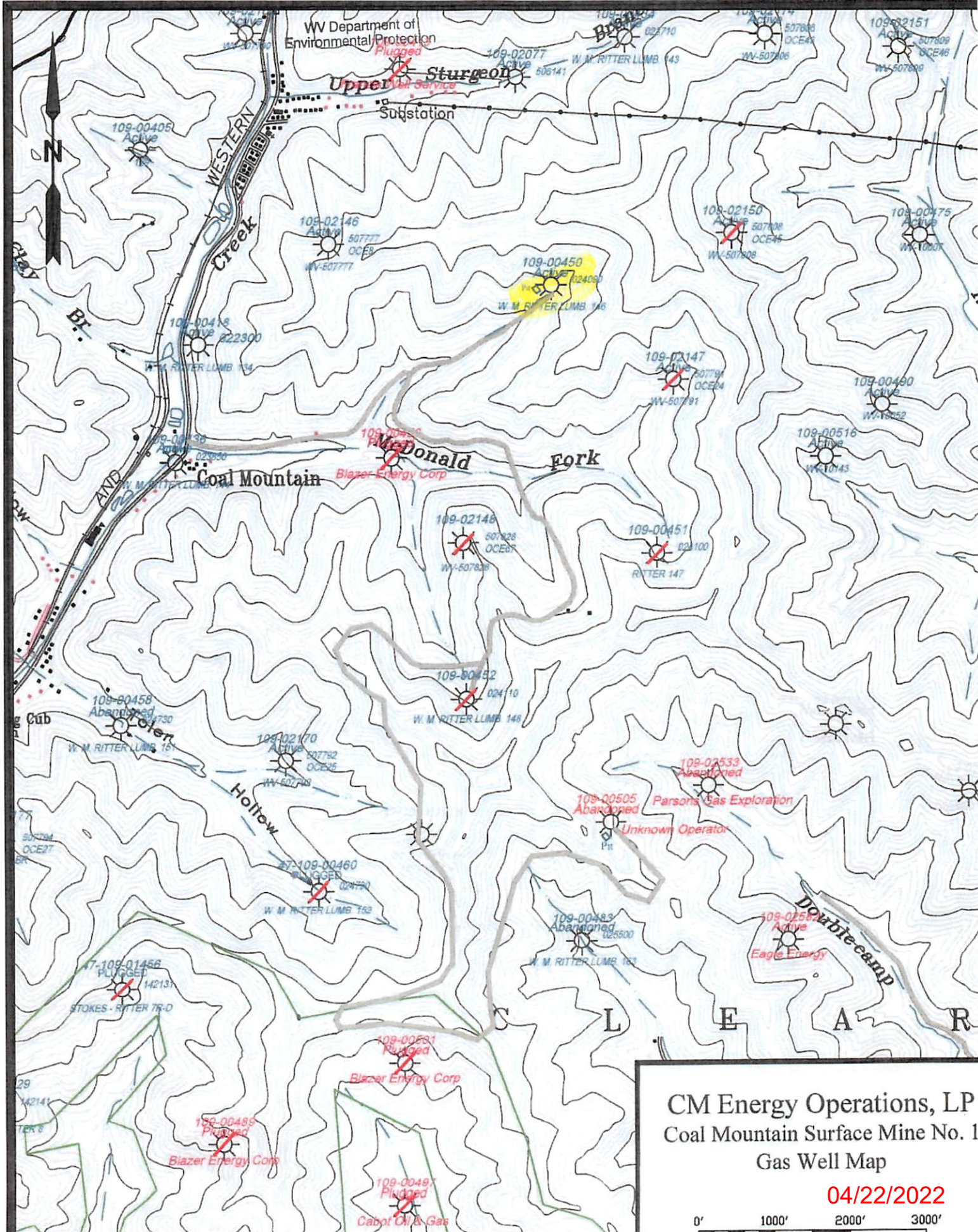
James A. Martin  
Chief

Transfer #	Transfer Status	API	WellType	WellStatus	WellName	Operator	County
152753	Approved	47-109-00505	VERT	AB	1	CM ENERGY HOLDINGS, LP	Wyoming

4710900505



APR 21 2022



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

04/22/2022







4710900 - P

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 9

*Benerville*

WELL RECORD

Permit No. WYO-450

Oil or Gas Well (48)  
(1938)

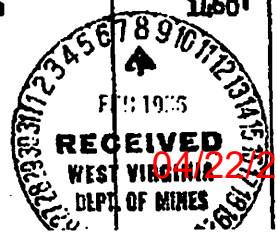
Company United Producing Company, Inc.  
 Address Box 1913, Charleston 27, W. Va.  
 Farm W. M. Ritter Lumber Company Acres 67.182  
 Location (waters) McDonald Fork of Big Cub Creek  
 Well No. 116 (2409) Elev. 1902.9' DF  
 District Clear Fork County Wyoming  
 The surface of tract is owned in fee by W. M. Ritter Lumber Co., 115 East Rich St Address Columbus 15, Ohio  
 Mineral rights are owned by Same  
 Address \_\_\_\_\_  
 Drilling commenced October 1, 1955  
 Drilling completed January 12, 1956  
 Acidized 1/19/56 From 3247' To 3365'  
 With 2000 gals. (Dowall)  
 Open Flow 130 /10ths Water in 3 Inch  
 \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
 Volume 1,082,000 Cu. Ft.  
 Rock Pressure 790 lbs. 96 hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water 40' 170 feet 912 feet  
 Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			10 3/4" bottom packer at 600
18	10'	10'	Kind of Packer
18 3/8"	133'	133'	Comb. wall & at
10 3/4"	600'	600'	Size of 3 1/2" X 7 1/2"
8 5/8"	2500'	2500'	
8 7/8" CD	3119'	3119'	Depth set 3247'
5 3/16"			
3 1/2"	3365'	3365'	Perf. top 3338'
			Perf. bottom 3360'
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 13 3/8" SIZE 53' No. Ft. 10/5/55 D  
 Cemented 8 5/8" 30' 12/5/55

COAL WAS ENCOUNTERED AT 15 FEET 24 INCH  
100 FEET 36 INCHES 660 FEET 36 INCH  
 FEET INCHES FEET INCH

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Rock			0	5			
Slate			5	15			
Coal			15	17			
Slate			17	35			
Sand			35	45	Water	40'	1 blr. per
Slate			45	50			
Sand			50	80			
Slate			80	100			
Coal			100	103			
Slate			103	123			
Sand			123	131			
Slate			131	133			
Sand			133	150			
Slate			150	155			
Lime		Gritty	155	190	Water	170'	1/2 blr. per
Slate			190	290			
Sand			290	353			
Slate & Shells			353	580			
Lime			580	628			
Slate & Shells			628	660			
Coal			660	663			
Slate & Shells			663	756			
Sand			756	855			
Lime		Broken	855	876			
Slate			876	888			
Lime			888	900			
Sand			900	1028	Water	912'	1 1/2 blrs. 8
Lime		Broken	1028	1145			
Slate & Shells			1145	1202			
Sand			1202	1475	Gas	1160'	show
Lime			1475	1500			
Sand			1500	1565			
Slate & Shells			1565	1575			
Sand			1575	1720			
Slate			1720	1727			
Sand			1727	1764			
Slate			1764	1807			
Sand			1807	1817			



Formation	Color	Hard or Soft	Top <sup>9</sup>	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime			2020	2125			
Lime Shells			2125	2172			
Red Rock			2172	2180			
Lime			2180	2195			
Sand			2195	2219			
Slate			2219	2227			
Lime			2227	2250			
Slate & Shells			2250	2287			
Lime			2289	2350			
Red Rock			2350	2398			
Slate			2398	2407			
Sand			2407	2417			
Slate			2417	2450			
Lime		Gritty	2450	2460			
Red Rock			2462	2480			
Slate			2480	2483			
Lime			2483	2514			
Slate & Shells			2514	2555			
Lime	Red		2555	2565			
Slate & Shells			2565	2592			
Lime			2592	2618			
Slate & Shells			2618	2635			
Red Rock			2635	2675			
Lime			2675	2705			
Lime	Red		2705	2760			
Lime			2760	2780			
RedRock			2780	2790			
Lime			2790	2852			
Slate			2852	2866			
Sand			2866	2892			
Slate			2892	2948			
Little Lime			2948	2987			
Big Lime			2987	3017			
Break			3017	3046			
Big Lime			3046	3374	Gas	3304-3340'	10/10 W 2" 13:
Injun Sand			3374	3458			
Slate & Shells			3458	3926			
Shale	Brown		3926	3937			
Berea Sand			3937	3950			
TOTAL DEPTH				3950'			
Plugged back to				3365'			



B-3



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Location Pineville

Permit No. WV-505-REVISED

WELL RECORD

Oil or Gas Well

Company Natco Lusher  
 Address Branchland, West Virginia  
 Farm L. H. Tolson Acres 1.159  
 Location (waters) \_\_\_\_\_  
 Well No. 1 Elev. 2040'  
 District Clear Fork County Wyoming  
 The surface of tract is owned in fee by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Mineral rights are owned by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Drilling commenced \_\_\_\_\_  
 Drilling completed July 11, 1959  
 Date Shot 7/14/59 From 4148 To 4180'  
 With 250 qts. of Gelative  
 Open Flow /10ths Water in No Results Inch \_\_\_\_\_  
/10ths Merc. in Inch \_\_\_\_\_  
 Volume 30,000 Cu. Ft. \_\_\_\_\_  
 Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 WELL ACIDIZED 3000 gal. of acid 7/21/59

Casing and Tubing	Used in Drilling	Left in Well	Pa
Size			
16			Kind of
18	10'	10'	Size of
10	72h	72h	Depth set
8 1/4	2226'	2226'	Perf. top
8 1/4			Perf. bott
6 3/16			Perf. top
8			Perf. bott
2			

CASING CEMENTED	SIZE	No. Ft.
COAL WAS ENCOUNTERED AT		FEET
	FEET	INCHES
	FEET	INCHES

WELL FRACTURED

RESULT AFTER TREATMENT 528,000 Cu. Ft. - Not in the line

ROCK PRESSURE AFTER TREATMENT 530' - 72 Hours

Fresh Water 267 Feet 895 Salt Water 2040' Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth
Coal			160	105		
Big Lime			3176	3576		
Berea			4148	4189		
Total Depth				4200	Gas 3290 - 3300'	30,000 Cu. Ft.

REPORT FROM UNITED FUEL GAS COMPANY





Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth
-----------	-------	--------------	-----	--------	------------------	-------

State-Soft		Soft	0	30		30
Sand		Soft	30	60		60
Slate		Soft	60	75		75
Sand		Soft	75	90		90
Slate		Soft	90	100		100
Coal		Soft	100	105		105
Sand		Soft	105	120		120
Black Lime			120	150		150
Sand		Hard	150	170		170
Slate		Soft	170	190		190
Broken Lime			190	195		195
Sand		Hard	195	205		205
Lime broken		Soft	205	230		230
Sand			230	242		242
Lime broken			242	270		270
Sand			270	300		300
Sand & Shells		Soft	300	375		375
Slate & Shells			375	460		460
Sand			460	482		482
Slate			482	495		495
Sand			495	515		515
Slate			515	600		600
Shells		Hard	600	650		650
Sand		Hard	650	725		725
Slate		Soft	725	755		755
Sand		Soft	755	775		775
Sand		Soft	775	855		855

Fresh Water / 267 Feet  
 ROCK PRESSURE AFTER TREATMENT  
 RESULT AFTER TREATMENT 4/10 Merc. In 3 in.

WELL FRACTURED  
 WELL ACIDIZED Yes  
 Oil 33 lbs. 1st 24 hrs.  
 Rock Pressure 33 lbs.  
 Volume No Gas  
 No Gas / 10ths Merc. in Inch  
 Open Flow No Gas / 10ths Water in Inch  
 With 250 quarts  
 Date Shot 7/25/59 from 4132 to 4175  
 Drilling completed 7/27/59  
 Drilling commenced 7/21/59  
 Address Oceana, W. Va.  
 Mineral rights are owned by I. H. Toler  
 The surface of tract is owned in fee by I. H. Toler  
 District Other Rock County W. Va.  
 Well No One 2040.0  
 Location (waters) Guyan River  
 Farm I. H. Toler  
 Address Branchland, West Virginia 26010  
 Company Water Transfer

Casing and Tubing	Used in Drilling	Left in Well
8 1/2	111	111
8 1/2	22261	22261
8 1/2	31761	31761

CASING COMMENTED SIZE  
 COAL WAS ENCOUNTERED AT FEET INCHES  
 FEET INCHES  
 WELL FRACTURED



Shirley Donick  
Shirley Donick

B-2

Formation	Color	Hard or Soft	Top 16	Bottom	Oil, Gas or Water
Slate		Soft	950	1030	
Sand		Soft	1030	1190	
Slate		Soft	1190	1200	
Sand		Soft	1200	1245	
Slate & Shell			1245	1315	
Sand		Hard	1315	1655	
Slate			1655	1850	
Sand		Hard	1850	1895	
Slate		Soft	1895	1923	
Slate		Soft	1923	1933	
Sand		Hard	1933	1938	
Sand	Soft	Soft	1938	1948	
Slate		Soft	1948	1958	
Broken Sand			1955	1978	
Slate & Shell			1978	2002	
Sand		Hard	2002	2020	
Slate		Soft	2020	2040	
Sand		Hard	2040	2160	
Slate & Shell			2160	2188	
Red Rock		Soft	2188	2210	
Slate		Soft	2210	2224	
Lime		Hard	2224	2241	
Slate & Shell			2241	2350	
Shells		Hard	2350	2432	
Lime-Slate		Soft	2432	2528	
Red Rock			2528	2562	
Lime		Hard	2562	2638	
Redrock			2638	2666	
Sand		Hard	2666	2700	
Slate & Shell			2700	2813	
Red Rock			2813	2958	
Slate		Soft	2958	2995	
Red Rock			2995	3032	
Lime Shell			3032	3090	
Slate & Shells			3090	3121	
Pencil cave			3121	3146	
Black Lime			3146	3570	
Slate		Soft	3570	3572	
Injun Sand			3572	3655	
Slate & Shell			3655	3699	
Red Rock			3699	3710	
Slate		Soft	3710	4120	
Brown Shale			4120	4132	
Berea Sand			4132	4175	
Slate			4175	4200	



B-4

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

INSPECTOR'S WELL REPORT

Permit No. WYO 505 R

Oil or Gas Well (Kind) Gas

Company Wetzel Lusher

Address Branchland W. Va

Farm I.H Toler

Well No. 1

District Clear Fork County Wyoming

Drilling commenced 7/7/58

Drilling completed \_\_\_\_\_ Total depth \_\_\_\_\_

Date shot \_\_\_\_\_ Depth of shot \_\_\_\_\_

Initial open flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch

Open flow after tubing \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch

Volume \_\_\_\_\_ Cu. Ft.

Rock pressure \_\_\_\_\_ lbs \_\_\_\_\_ hr.

Oil \_\_\_\_\_ bbls., 1st 24 hrs.

Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet

Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			Kind of Packer
16			
18			Size of
10			
8 1/4			Depth, feet
6 1/4	3176		Perf. top
5 3/16			Perf. bottom
8			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED	SIZE	No. FT.	D

COAL WAS ENCOUNTERED AT	FEET	INCH
	FEET	INCHES
	FEET	INCHES
	FEET	INCHES

Drillers' Names John Dingess J.C Brumfield

Remarks: Picked up a show of gas at 3470  
Drilling at 3497



04/22/2022

6/10/59

*Paul H. ...*





Stansberry, Wade A <wade.a.stansberry@wv.gov>

---

**Plugging Vertical Well Work Permit API: 47-109-00505)**

1 message

---

**Stansberry, Wade A** <wade.a.stansberry@wv.gov>

Fri, Apr 22, 2022 at 12:57 PM

To: rodney@rjwellservice.com, Michael Cook <mecook2@assessor.state.wv.us>, Gary L Kennedy <gary.l.kennedy@wv.gov>

I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.

**47-109-00505 - 1**

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

**Wade A. Stansberry**

**Environmental Resource Specialist 3**

**West Virginia Department of Environmental Protection**

**Office of Oil & Gas**

**601 57th St. SE**

**Charleston, WV 25304**

**(304) 926-0499 ext. 41115**


**(304) 926-0452 fax**

**[Wade.A.Stansberry@wv.gov](mailto:Wade.A.Stansberry@wv.gov)**

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**2 attachments**

 **IR-8 Blank.pdf**  
233K

 **47-109-00505 - Copy.pdf**  
8573K

**04/22/2022**