



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

Thursday, April 25, 2024
WELL WORK PLUGGING PERMIT
Vertical Plugging

GREYLOCK CONVENTIONAL, LLC
500 CORPORATE LANDING

CHARLESTON, WV 25311

Re: Permit approval for DEEM 1
47-085-10024-00-00

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:
Farm Name: COASTAL LUMBER COMPANY
U.S. WELL NUMBER: 47-085-10024-00-00
Vertical Plugging
Date Issued: 4/25/2024

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.
4. 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.

1) Date April 25, 2022
2) Operator's
Well No. ~~YAWKEY-FREEMAN-06~~
3) API Well No. ~~47-008-00522~~
47-085-10024

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 1105 Watershed North Fork Hughes River & Hushers Run
District Grant County Ritchie Quadrangle Harrisville 7.5

6) Well Operator Greylock Conventional, LLC. 7) Designated Agent Joe Farris
Address 500 Corporate Landing Address 500 Corporate Landing
Charleston, WV 25311 Charleston, WV 25311

8) Oil and Gas Inspector to be notified Name Jeremy Newlon 9) Plugging Contractor Name R & R Well Services
Address 8402 Staunton Turnpike Address 42 Lynch Ridge Road
MacFarlan, WV 26148 Walton, WV 25286

10) Work Order: The work order for the manner of plugging this well is as follows:
PLEASE SEE ATTACHED

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APR 09 2024

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Environmental Protection

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

Work order approved by inspector  Date 4-3-24

05/03/2024

Deem #1 P&A Procedure:

1. Notify the inspector at least 24 hours prior to conducting abandonment operations.
2. Blow down well
3. RIH and confirm TD and fill depth.
4. Prep for cement. NOTIFY INSPECTOR OF TAG DEPTH
5. Lead 6% with gel spacer on all cement plugs.
 - a. Note: Class A, Type I, II or Type IL can be used for cement plugs. *Class L*
6. **PLUG 1** – Set cement plug from TD or Approved Tag Depth - 3470' to cover toe and Warren formation
7. **PLUG 2** – Set cement plug from 2620 – 2500' to cover Gantz Sandstone.
8. **PLUG 3** – Set cement plug from 2100 – 2000' to cover Big Injun
9. **PLUG 4** – Set cement plug from 1750 – 1650' to cover casing shoe
10. **PLUG 5** – Set cement plug from 1350'- 1100' to cover oil show & elevation
11. **PLUG 5** – Set cement plug from 470 – 370' to cover casing shoe
12. **PLUG 6** – Set cement plug from 150' - Surface
13. Set monument 30" above ground with Well Name, API and plug date

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Section	Size	Weight/Grade	Depth	Hole Size	TOC
Conductor	13 3/8"	43#/ft	40'	NA	NA
Surface	9 5/8"	26#/ft	420'	12 3/8"	Surface
intermediate	7"	17#/ft	1700'	8 7/8"	Surface
Open Hole	6 1/2"	NA	3800'	6 1/2"	NA

James M. [Signature]

4-3-24

JR

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-085-10024 County Ritchie District Grant
Quad Harrisville 7.5' Pad Name na Field/Pool Name na
Farm name Coastal Lumber Company Well Number Deem #1
Operator (as registered with the OOG) Energy Corporation of America
Address 501 56th St. City Charleston State WV Zip 25304

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4343017.5 Easting 491144.4
Landing Point of Curve Northing na Easting na
Bottom Hole Northing na Easting na

Elevation (ft) 1105 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other Not completed
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)

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Date permit issued 2/14/13 Date drilling commenced 3/22/13 Date drilling ceased 3/29/13
Date completion activities began well was not completed Date completion activities ceased na
Verbal plugging (Y/N) na Date permission granted na Granted by na

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 100 Open mine(s) (Y/N) depths na
Salt water depth(s) ft na Void(s) encountered (Y/N) depths na
Coal depth(s) ft na Cavern(s) encountered (Y/N) depths na
Is coal being mined in area (Y/N) n

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JUN 06 2024
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Reviewed by:

06/13/2014

05/03/2024

API 47-085 - 10024

Farm name Coastal Lumber Company

Well number Deem #1

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	17 1/2"	13 3/8"	40	N	43.6#/ft	na	Driven
Surface	12 1/4"	9 5/8"	420	N	26#/ft	40'	Y, Circ 10 bbl stayed at surface
Coal							
Intermediate 1	8 7/8"	7"	1700	N	17#/ft	40'	Y, Circ 7 bbl, stayed at surface
Intermediate 2							
Intermediate 3							
Production	6 1/2"						
Tubing							
Packer type and depth set							

Comment Details Drilled well to a TD of 3800' w/ 6.5" Bit, Logged well, logs did not show zones to be productive, plan to plug back and kickoff horizontally were canceled. Hole loaded with 3% KCl

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Driven						
Surface	Class A	190	15.6	1.20	228	Surface	8
Coal							
Intermediate 1	Class A	255	14.8	1.40	357	Surface	8
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) 3800

Loggers TD (ft) 3805

Deepest formation penetrated Warren

Plug back to (ft) na

Plug back procedure na

Kick off depth (ft) na

Check all wireline logs run

- caliper
- density
- deviated/directional
- induction
- neutron
- resistivity
- gamma ray
- temperature

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Well cored Yes No

Conventional Sidewall

Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING Centralizers placed on Shoe and every 200' to surface on both the surface and intermediate. Production casing was not run.

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS

JUN 06 2014

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED

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06/13/2014
05/03/2024

API 47- 085 - 10024 Farm name Coastal Lumber Company Well number Deem #1

PRODUCING FORMATION(S)

DEPTHS

na _____ na _____ TVD na _____ MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface na _____ psi Bottom Hole na _____ psi DURATION OF TEST na _____ hrs

OPEN FLOW Gas na _____ mcfpd Oil na _____ bpd NGL na _____ bpd Water na _____ bpd
 GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
Fill	0	32	0	32	Fill
Sandstone	32	500	32	500	Sandstone/Clay stringers with little water present
Siltstone	500	750	500	750	Siltstone/Shale
Sandstone	750	900	750	900	Sandstone
Silty Shale	900	1300	900	1300	Siltstone/Shale Stringers
Sandstone	1300	1700	1300	1700	Sandstone/Oil Show
Siltstone	1700	1894	1700	1894	Silty/Shale
Big Lime	1894	2050	1894	2050	Limestone
Big Injun	2050	2130	2050	2130	Sandstone/Oil Show
Weir Sandstone	2130	2270	2130	2270	Sandstone
Berea Sandstone	2460	2480	2460	2480	Sandstone
Gantz Sandstone	2567	2592	2567	2592	Sandstone/Oil Show
Gordon	2718	2850	2718	2850	Sandstone
Warren	3529	3625	3529	3625	Siltstone/Slight Oil Show

Please insert additional pages as applicable.

Drilling Contractor R&R Well Services L.L.C.

Address 42 Lynch Ridge City Walton State WV Zip 25280

Logging Company Weatherford US LP

Address 584 Hackers Creek Rd. City Jane Lew State WV Zip 26378

Cementing Company Universal Well Services

Address RT. 5 Hall Road City Buckhannon State WV Zip 26201

Stimulating Company NA

Address _____ City _____ State _____ Zip _____

Completed by Lowell Warden

Signature [Signature] Title VP of Business Development Telephone 304-925-6100 Date 6/5/14

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS 06/05/2014

05/03/2024

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11/20/2013
API #: 47-085-10024

Farm name: Coastal Lumber Company Operator Well No.: Deem #1

LOCATION: Elevation: 1105ft Quadrangle: Harrisville 7.5'

District: Grant County: Ritchie
Latitude: 0 Feet South of 39 Deg. 14 Min. 11.1 Sec.
Longitude: 0 Feet West of 81 Deg. 08 Min. 09.4 Sec.

Company: Energy Corporation of America

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>501 56th Street SE, Charleston, WV</u>	<u>13-3/8"</u>	<u>40</u>	<u>40</u>	<u>Driven</u>
Agent: <u>Rod Winters, VP of Business Development</u>	<u>9-5/8"</u>	<u>420</u>	<u>420</u>	<u>228</u>
Inspector: <u>David Cowan</u>				
Date Permit Issued: <u>2/14/2013</u>				
Date Well Work Commenced: <u>3/9/2013</u>				
Date Well Work Completed: <u>11/19/2013</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): <u>3800</u>				
Total Measured Depth (ft): <u>3800</u>				
Fresh Water Depth (ft.): <u>100</u>				
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>N/A</u>				
Void(s) encountered (N/Y) Depth(s) <u>N/A</u>				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation N/A Pay zone depth (ft) N/A
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 0 psig (surface pressure) after N/A Hours

Second producing formation N/A Pay zone depth (ft) N/A
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 0 psig (surface pressure) after N/A Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments 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.

Rod Winters
Signature

11/20/2013
Date

05/03/2024

Were core samples taken? Yes _____ No **X**

Were cuttings caught during drilling? Yes **X** No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list electric, rotary sidewall

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

No fracturing or stimulation.

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth _____
Surface: _____

Big Lime: 1994/2050

Big Injun: 2059/2220

Weir: 2281/2370

Berea: 2561/2580

Gantz: 2667/2692


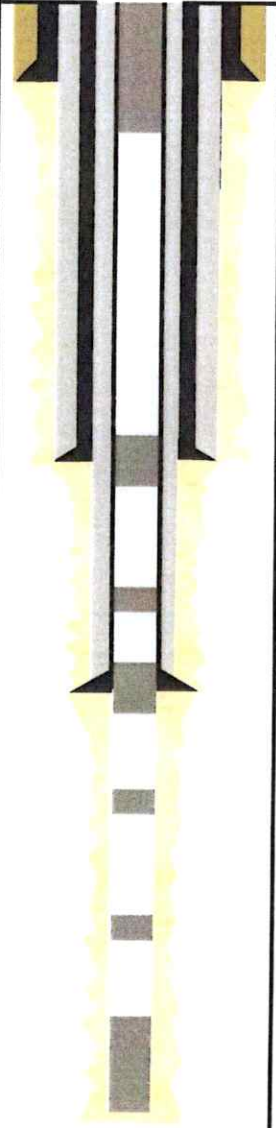
Gordon: 2818/2974

Warren: 3629/3725

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			Greylock Conventional LLC	
			Deem #1	
			API #: 4708510024	
			Casing and Cementing Details	
			Ritchie County, WV.	
Casing Size		Hole Size	Detailed Description	
13 3/8" conductor @ 40'				Plug #7: 100' - surface (surface plug) 150
9 5/8" casing @ 420'		12 3/8"	Plug #6: 470' - 370' (covers casing shoe)	
7" casing @ 1700'		8 7/8"	Plug #5: 1350' - 1100' (covers oil show & elevation) Plug #4: 1750' - 1650' (covers casing shoe) Plug #3: 2100' - 2000' (covers Big Injun) Plug #2: 2620' - 2500' (covers Gantz Sandstone)	
Drilled TD @ 3800'		6 1/2"	Plug #1: 3800' - 3470' (covers toe/Warren formation)	

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WV Department of
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05/03/2024

1) Date: April 25 2022
2) Operator's Well Number
Deem # 1
3) API Well No.: 47 - 085 ~~085-10024~~ - 10024

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>Coastal Forest Resources Company</u>	Name _____
Address <u>P.O. Box 1023</u>	Address _____
<u>Havana, FL 32333</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>JF Deem Oil and Gas, LLC.</u>
_____	Address <u>4541 Emerson Avenue</u>
(c) Name _____	<u>Parkersburg, WV 26104</u>
Address _____	Name _____
_____	Address _____
6) Inspector <u>Jeremy Newton</u>	(c) Coal Lessee with Declaration
Address <u>8402 Staunton Turnpike</u>	Name _____
<u>MacFarlan, WV 26148</u>	Address _____
Telephone _____	_____

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator	<u>Greylock Conventional, LLC.</u>	RECEIVED Office of Oil and Gas <u>APR 09 2024</u> WV Department of Environmental Protection
By:	<u>Gavin M. Reed</u> <i>G.M.R.</i>	
Its:	<u>Asset Development Manager</u>	
Address	<u>500 Corporate Landing</u>	
Telephone	<u>Charleston, WV 25311</u> <u>(304) 925-6100</u>	

Subscribed and sworn before me this 1st day of April
Melissa A. Knuckles
My Commission Expires July 20, 2025



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.

05/03/2024

GREYLOCK

E N E R G Y

500 Corporate Landing
Charleston, WV 25311



7022 2410 0002 1377 3379



Coastal Forest Resources Company
PO BOX 1023
Havana, FL 32333

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APR 05 2024

WV Department of
Environmental Protection

05/03/2024

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 Coastal Forest Res. Co.
 PO Box 1033
 Havana, FL 32333



9590 9402 8423 3156 9389 90

2. Article Number (Transfer from service label)
 7022 2410 0002 1377 3379

PS Form 3811, July 2020 PSN 7530-02-000-9053

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APR 05 2024

WV Department of
 Environmental Protection

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee

B. Received by (Printed Name) Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
- Adult Signature Restricted Delivery
 - Certified Mail®
 - Collect on Delivery Restricted Delivery
 - Collect on Delivery Restricted Delivery
 - Insured Mail
 - Insured Mail Restricted Delivery (over \$500)
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery

Domestic Return Receipt

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05/03/2024

CERTIFIED MAIL



7022 2410 0002 1377 3409

GREYLOCK
ENERGY

500 Corporate Landing
Charleston, WV 25311



JF Deem Oil + Gas, LLC
4541 Emerson Avenue
Parkersburg, WV 26104

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Environmental Protection

05/03/2024

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JF Deem Oil & Gas, LLC
4541 Emerson Ave
Parkerburg WV 26104



9590 9402 8423 3156 9390 03

2. Article Number (Transfer from service label)

7022 2410 0002 1377 3409

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

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

OFFICIAL USE

Postmark Here

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	\$
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Street and Apt. No., or P.O. Box No.
JF Dean Oil & Gas, LLC

City, State, ZIP+4[®]
Petersburg WA 98104

PS Form 3800, April 2015 PSN 7530-02-000-9047
 See Reverse for Instructions

7022 2420 0002 1377 3409

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 APR 09 2024
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For delivery information, visit our website at www.usps.com
OFFICIAL USE

Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To: **Coastal Forest Resources Co.**

Street and Apt. No., or PO Box No. **PO Box 1023**

City, State, ZIP+4® **Havana FL 32333**

PS Form 3800, April 2015 PSN 7530-02-000-8047 See Reverse for Instructions

7022 2410 0002 1377 3379

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 APR 09 2024
 U.S. Department of
 Environmental Protection

05/03/2024

SURFACE OWNER WAIVER

Operator's Well
Number

~~47-085-10024~~

47-085-10024

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..."

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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 _____
Signature		By _____
		Its _____
		Date _____

Signature

Date

05/03/2024

WW-4B

API No. 47-085-~~10024~~ 10024
Farm Name _____
Well No. Deem # 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.

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.

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Date: _____

_____ APR 09 2024

By: _____
Its _____ WV Department of
Environmental Protection

05/03/2024

WW-9
(5/16)

API Number 47 - 085
Operator's Well No. _____

~~10024~~ 10024

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

Operator Name Greylock Conventional, LLC. OP Code 494521205

Watershed (HUC 10) North Fork Hughes River & Hushers Run Quadrangle Harrisville 7.5

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: _____

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

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 Spirit Services LLC 4 Plant RD Nitro WV 25143)

Will closed loop system be used? If so, describe: Yes, tank returns at tanks

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

-If oil based, what type? Synthetic, petroleum, etc. n/a

Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. No cuttns expected

-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.

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Company Official Signature G.M.R.

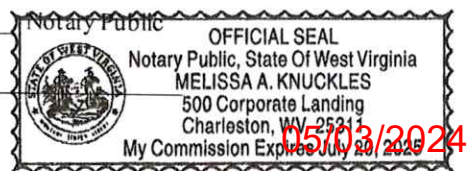
Company Official (Typed Name) Gavin M. Reed

Company Official Title Asset Development Manager

Subscribed and sworn before me this 1st day of April, 20 24

Melissa A. Knuckles

My commission expires July 20, 2025



Proposed Revegetation Treatment: Acres Disturbed 1.0 Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-10-20

Fertilizer amount 500 lbs/acre

Mulch Hay Bales Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
ORCHARD GRASS	12	ORCHARD GRASS	12
LANDINO CLOVER	3	LANDINO CLOVER	3
TIMOTHY	10	TIMOTHY	10

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: Douglas Newlon

Comments: _____

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Title: 006 inspector Supervisor

Date: 4-12-2024

Field Reviewed? () Yes () No

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

Operator Name: Greylock Conventional, LLC.
Watershed (HUC 10): North Fork Hughes River & Hushers Run Quad: Harrisville 7.5
Farm Name: _____

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

N/A - no discharge of fluids

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

Closed loop system, all returns will be taken in tanks and hauled to WVDEP approved facility.

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

N/A

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

N/A

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

N/A

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

Greylock will not use any waste material for deicing or fill material on property

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

N/A SEE SECTION 2

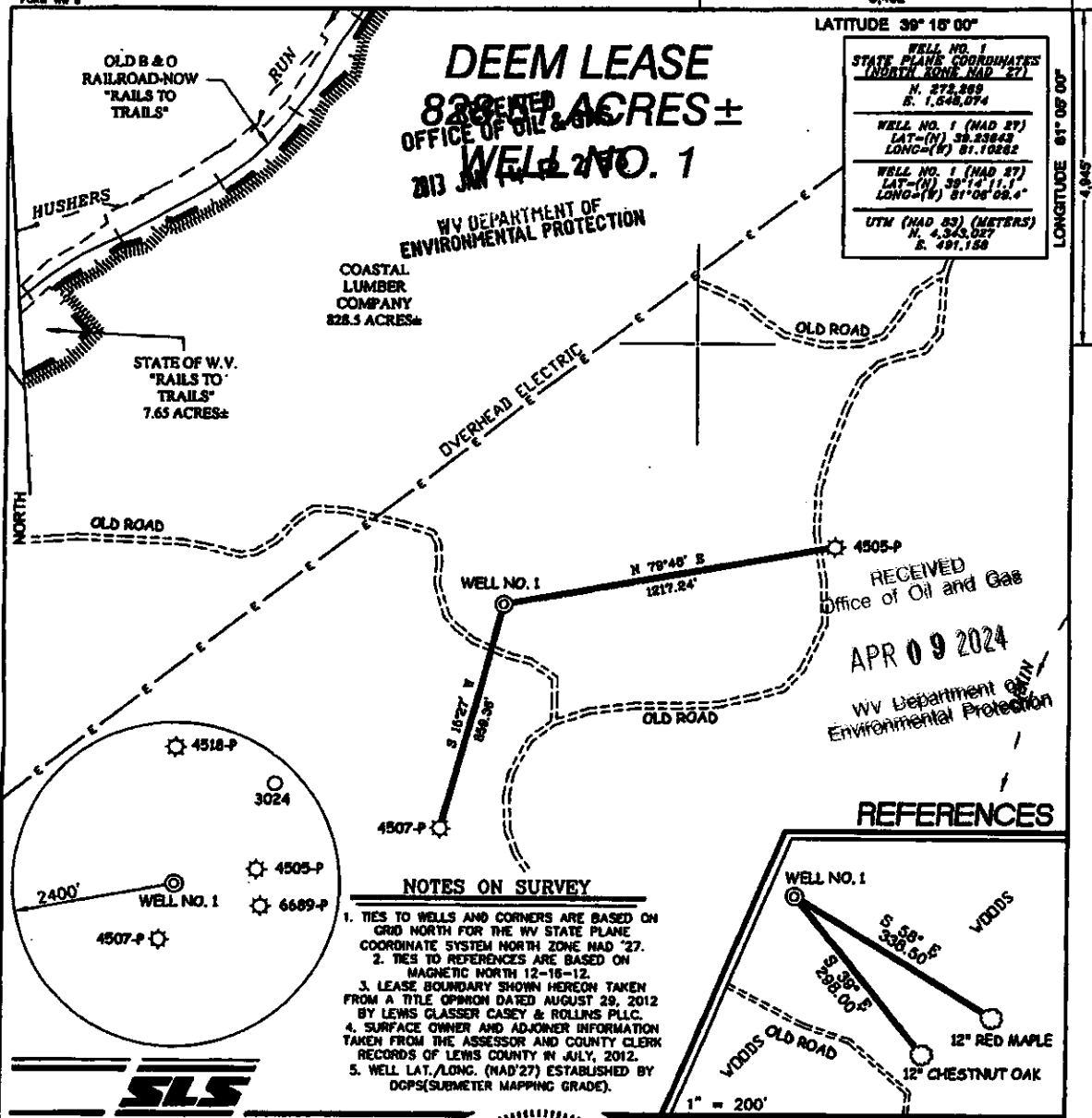
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

Daily inspections of equipment will be preformed

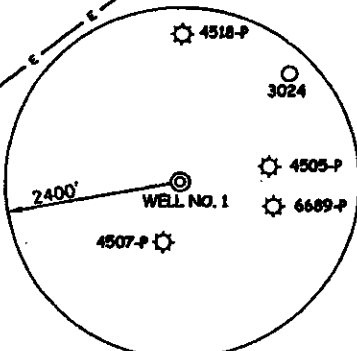
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Signature: _____

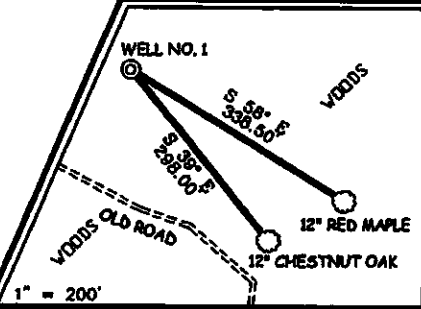
Date: _____



WELL NO. 1 STATE PLANE COORDINATES (NORTH ZONE NAD '27)
N. 272,289 E. 1,648,074
WELL NO. 1 (NAD 87) LAT-(N) 39.23843 LONG-(W) 81.10282
WELL NO. 1 (NAD 87) LAT-(N) 39°14'11.1" LONG-(W) 81°08'02.4"
UTM (NAD 83) (METERS) N. 4,343,027 E. 491,158

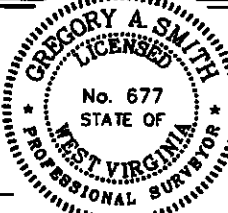


- NOTES ON SURVEY**
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
 2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 12-18-12.
 3. LEASE BOUNDARY SHOWN HEREOF TAKEN FROM A TITLE OPINION DATED AUGUST 29, 2012 BY LEWIS GLASSER CASEY & ROLLINS PLLC.
 4. SURFACE OWNER AND ADJONER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF LEWIS COUNTY IN JULY, 2012.
 5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).



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. *Gregory A. Smith*
677



(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE DECEMBER 27, 20 12
OPERATORS WELL NO. DEEM #1
API WELL NO. 47 - 085 - 10024
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7985P1(448-02)
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 500'

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

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

LOCATION: ELEVATION 1,106' WATERSHED NORTH FORK HUGHES RIVER & HUSHERS RUN
DISTRICT GRANT COUNTY RICHE QUADRANGLE HARRISVILLE 7.5'

SURFACE OWNER COASTAL LUMBER COMPANY ACREAGE 828.51±
ROYALTY OWNER J.F. DEEM ETAL LEASE ACREAGE 828.51±

PROPOSED WORK: LEASE NO. _____
DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION WARREN
ESTIMATED DEPTH 3,800'

WELL OPERATOR ENERGY CORPORATION OF AMERICA DESIGNATED AGENT RODNEY A. WINTERS
ADDRESS 501 56TH STREET S.E. ADDRESS 501 56TH STREET S.E.
CHARLESTON, WV 25304 CHARLESTON, WV 25304

WW-7
8-30-06



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

API: 47-085-10024 WELL NO.: 1

FARM NAME: Deem

RESPONSIBLE PARTY NAME: Greylock Conventional, LLC

COUNTY: Ritchie DISTRICT: Grant

QUADRANGLE: Harrisville 7.5

SURFACE OWNER: Coastal Forest Resources Company

ROYALTY OWNER: _____

UTM GPS NORTHING: 4343027.49

UTM GPS EASTING: 491157.33 GPS ELEVATION: 1100 ft

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.

[Signature]
Signature

Asset Development Manager
Title

Date

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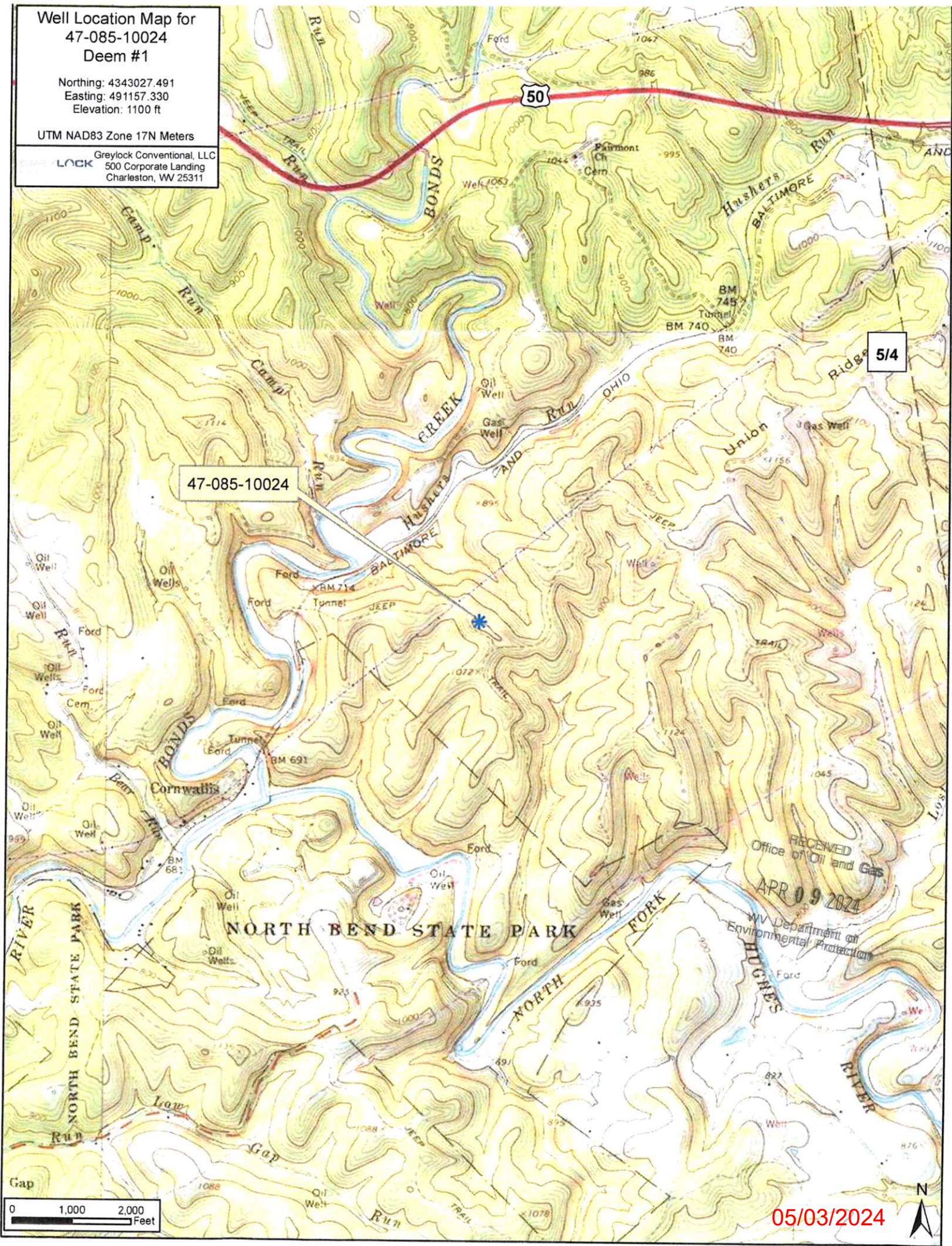
05/03/2024

Well Location Map for
47-085-10024
Deem #1

Northing: 4343027.491
Easting: 491157.330
Elevation: 1100 ft

UTM NAD83 Zone 17N Meters

LOCK Greylock Conventional, LLC
500 Corporate Landing
Charleston, WV 25311



47-085-10024

5/4

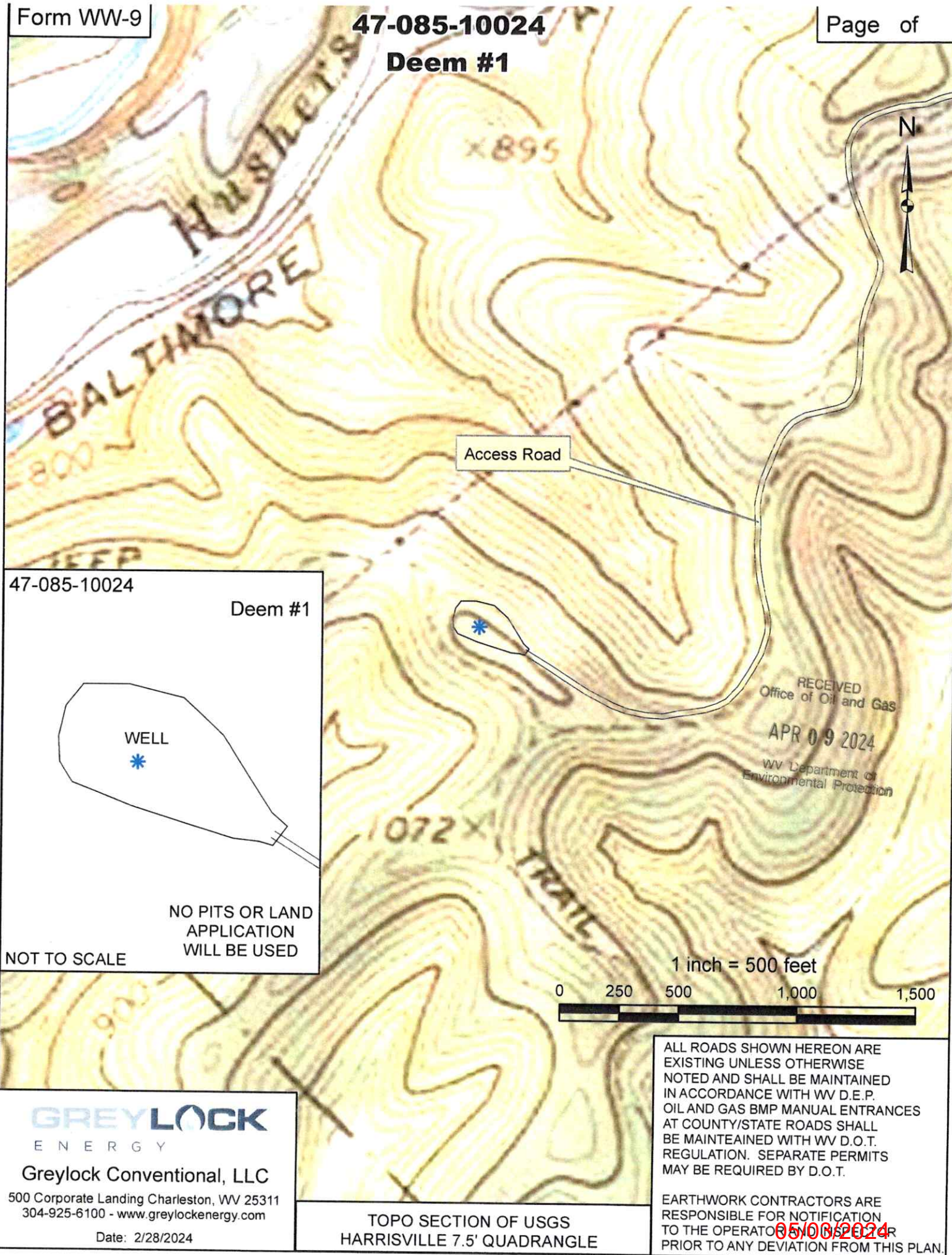
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0 1,000 2,000
Feet

05/03/2024

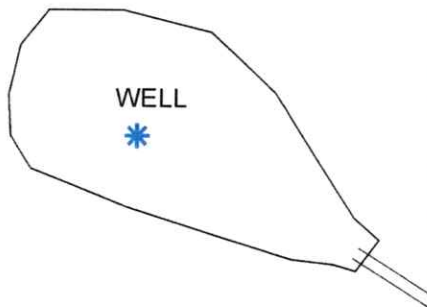


Deem #1



47-085-10024

Deem #1



WELL

NO PITS OR LAND APPLICATION WILL BE USED

NOT TO SCALE

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WV Department of
Environmental Protection

1 inch = 500 feet



GREYLOCK
ENERGY

Greylock Conventional, LLC

500 Corporate Landing Charleston, WV 25311
304-925-6100 - www.greylockenergy.com

Date: 2/28/2024

TOPO SECTION OF USGS
HARRISVILLE 7.5' QUADRANGLE

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED WITH WV D.O.T. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY D.O.T.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR **05/06/2024** PRIOR TO ANY DEVIATION FROM THIS PLAN.

April 4, 2024

WV Department of Environmental Protection
601 57th Street
Charleston, WV 25304

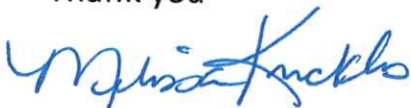
Re: 2022-13 Variance that allows the use of Class L cement in place of Class A cement for well plugging.

To Whom It May Concern:

Please see the attached order 2022-13 Variance that allows the use of Class L cement in place of Class A cement for well plugging. Greylock Conventional, LLC. wishes to use the Class L option at the time of plugging.

If you have questions, or need any additional information, please feel free to contact me.

Thank you



Melissa Knuckles
Permitting & Bond Specialist
Greylock Energy, LLC.
mknuckles@greylockenergy.com
(304) 925-6100 Office
(304) 389-1441 Cell

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west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
Phone (304) 926-0450

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

**BEFORE THE OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA**

**IN THE MATTER OF A VARIANCE FROM)
LEGISLATIVE RULE 35CSR4)
SECTION 14.1. AND LEGISLATIVE RULE)
35CSR8 SECTION 20.1,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

ORDER NO. 2022-13

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WV Department of
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REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well plugging.

FINDINGS OF FACT

1. On July 28, 2022, Diversified Gas & Oil Co. (DGO) submitted a variance request from Legislative Rule 35CSR4 for the use of API Class L cement in place of API Class A cement, relating to the plugging of conventional wells.
2. Laboratory analysis submitted by DGO on July 28, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR8 Section 20.1., for the use of API Class L cement in place of API Class A cement, relating to the plugging of horizontal wells.

4. On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.


ORDER

It is ordered that the Class L cement product approved and monogrammed by API is approved for use in place of API Class A cement for well plugging subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OF THE STATE OF WEST VIRGINIA



James Martin, Chief
Office of Oil and Gas

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Office of Oil and Gas

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WV Department of
Environmental Protection

05/03/2024

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Discharge Monitoring Report
Oil and Gas General Permit

Company Name: Energy Corporation of America
API: 47-085-10024 County: Ritchie
District: Grant Well No: Deem # 1
Farm Name: Coastal Lumber Co.
Discharge Dates/s From: (MMDDYY) 11/15/13 TO: (MMDDYY) 11/20/13
Discharge Times : From 9:00am TO: 5:00pm
Total Volume to be Disposed from this facility (gallons): 28,800
Disposal Option(s) Utilized (write volumes in gallons):

- (1) Land Application: X 28,800 (Include a topographical map of the Area.)
(2) UIC: _____ Permit No. _____
(3) Offsite Disposal: _____ Site Location: _____
(4) Reuse: _____ Alternate Permit Number: _____
(5) Centralized Facility: _____ Permit No. _____
(6) Other method: _____ (Include an explanation)

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Follow Instructions below to determine your treatment category.

Optional Pretreatment test: < 500 Cl- mg/l 4.0 DO mg/l

1. Do you have permission to use expedited treatment from the Director or his representative?
(Y/N) N If yes, who? _____ and place a four (4) on line 7.
If not go to line 2
2. Was Frac. Fluid or flowback put into the pit? (Y/N) N If yes, go to line 5. If not, go to line 3.
3. Do you have a chloride value pretreatment (see above)? (Y/N) Y If yes, go to line 4
If not, go to line 5.
4. Is the Chloride level less than 5000 mg/l? (Y/N) Y If yes, then enter a one (1) on line 7.
5. Do you have a pretreatment value for DO? (See above) (Y/N) Y If yes, go to line 6
If not, enter a three (3) in line 7.
6. Is the DO level greater than 2.5 mg/l? (Y/N) Y If yes, enter a two (2) on line 7. If not, enter a three (3) on line 7.
7. 1 is the category of your pit. Use the Appropriate section.
8. Comments on Pit condition: _____

Name of Principal Exec. Officer: _____
Title of Officer: _____
Date Completed: _____

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments 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 and imprisonment.

Signature of a Principal Exec. Officer or Authorized agent.

S. S. SERVICES
5433 US HIGHWAY 33 EAST
GLENNVILLE, WV 26351
05/03/2024

Category 1
Sampling Results
API NO: 47-085-10024

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	7.5	6-10	10.0	S.U
Settling Time	5	5.0	N/A	N/A	Days
Fe	6	2.0	6	0.13	mg/l
D.O.	2.5	4.0	2.5	5.0	mg/l
Settleable Sol.	0.5	0	0.5	ND	mg/l
Cl	5,000	<500	5,000	140	mg/l
Oil	Trace	0	Trace	0	Obs.
TOC**			Monitor	NA	mg/l
Oil and Grease			Monitor	ND	mg/l
Total Al***			Monitor	.60	mg/l
TSS			Monitor	14	mg/l
Total Mn	Monitor		Monitor	ND	mg/l
Volume			Monitor	28,800	Gal
Flow			Monitor	60	Gal/min
Disposal Area			Monitor	3.0	Acres

*** Al is only reported if the pH is above 9.0

Aeration technique = #51

Category 2
Sampling Results
API NO :

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10		6-10		S.U
Settling Time	10		N/A	N/A	Days
Fe	6		6		mg/l
D.O.	2.5		2.5		mg/l
Settleable Sol.	0.5		0.5		mg/l
Cl*	12,500		12,500		mg/l
Oil	Trace		Trace		Obs.
TOC**			Monitor		mg/l
Oil and Grease			Monitor		mg/l
Total Al***			Monitor		mg/l
TSS			Monitor		mg/l
Total Mn	Monitor		Monitor		mg/l
Volume			Monitor		Gal
Flow			Monitor		Gal/min
Disposal Area			Monitor		Acres

* Can be 25,000 with inspector's approval,

(Inspector): _____

Date: _____

** Include a description of your aeration technique.

*** Al is only reported if the pH is above 9.0

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WV Department of
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Category 3
 Sampling Results
 API NO :

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	20	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

* Can be 25,000 with inspector's approval,

(Inspector): _____

Date: _____

** Include a description of your aeration technique.

*** Al is only reported if the pH is above 9.0.

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Category 4
 Sampling Results
 API NO :

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	1	_____	N/A	N/A	Days
Fe	Monitor	_____	Monitor	_____	mg/l
D.O.	Monitor	_____	Monitor	_____	mg/l
Settleable Sol.	Monitor	_____	Monitor	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Activated Carbon 0.175		_____	N/A	N/A	lb/Bl
Date Site Reclaimed	N/A	N/A			10 days from dis.
Disposal Area		_____	Monitor	_____	Acres

* Can be 25,000 with inspector's approval,

(Inspector): _____

Date: _____



Reliance Laboratories, Inc.
 2044 Meadowbrook Road | P.O. Box 4657
 Bridgeport, WV 26330
 Phone: 304.842.5285 | Fax: 304.842.5351

Martinsburg Laboratory
 Ridgefield Business Center | 25 Crimson Circle
 Martinsburg, WV 25403
 Phone: 304.596.2084 | Fax: 304.596.2086

Certifications: WV Department of Health #: 00354, 00443 | WV Department of Environmental Protection #: 158, 181
 MD Department of Environment #: 336, 337 | US Environmental Protection Agency #: WV00042, WV00901

S. S. SERVICES
 5436 US HIGHWAY 33 EAST

Wednesday, December 04, 2013
 Page 3 of 4

GLENVILLE, WV 26351-

Lab Number: 204565-2013-W Sample ID: DEEM

Parameter	Value	Units	Method	Date/Time Analyzed	Analyst	MDL	MCL
Analyte Group: Inorganics							
Total Aluminum	0.60	mg/l	EPA 200.7 R4.4	11/25/2013	15:04 TH	0.009	
Total Iron	0.13	mg/l	EPA 200.7 R4.4	11/25/2013	15:04 TH	0.004	
Total Manganese	ND	mg/l	EPA 200.7 R4.4	11/25/2013	15:04 TH	0.007	
Field pH@@	10.0	S.U.			SS		
Oil and Grease	ND	mg/l	EPA 1664A	11/25/2013	9:30 CT	8.23	
Total Chloride	140	mg/l	SM4500CLB-97	12/4/2013	10:30 KV	2.52	
Total Settleable Solids	ND	ml/l	SM2540F-97	11/21/2013	12:00 CT	0.5	
Total Suspended Solids	14	mg/l	SM2540D-97	11/22/2013	11:45 CT	4	

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 APR 09 2024
 WV Department of
 Environmental Protection

Remarks:

Date Sample Collected: 11/20/2013 AM
 Sample Submitted By: S. SINK
 Date Sample Received: 11/21/2013 11:45

ND = Not Detected at the MDL or MRL

MDL - Minimum Detectable Limit

MCL - Maximum Contaminant Level, USEPA Regulated

MRL - Minimum Reporting Limit

[MCL] = Maximum Contaminant Level, Non-Regulated

*Method Code: STANDARD METHODS 19TH ED; US EPA METHODS FOR THE CHEMICAL ANALYSIS OF WATER AND WASTES, Rev. 83; US EPA METHODS FOR THE DETERMINATION OF METALS IN ENVIRONMENTAL SAMPLES, May 1994; TEST METHODS FOR EVALUATING SOLID WASTE, SW-846, 3rd ED; USEPA Manual for Certification of Laboratories Analyzing Drinking Water, 5th ED. In accordance with EPA Regulations, all reports, including raw data and quality control data, are maintained by the laboratory for a minimum of 5 years.

@@ Values supplied by client

05/03/2024

S.S. Services
 Rt. 71 Box 28B
 Glenville, WV 26351
 Phone: (304) 462-7178

*Drill Pit
 NO Frac*

TREATED

DISCHARGE

MATERIALS

Company Eastern American
 Well Name Deam #1
 Date 11/15/13
 Time 9:00am 9:00pm
 Weather Cold

Date 11/20/13
 Time 9:00am 5:00pm
 Weather _____
 Discharge Vegetation Woods
 Acres 3.0

Lime 50 #
 Carbon 200 #
 Floc _____
 Misc _____
 Oil Cleanup-Hours 0

Testing

Starting

Ending

Limits

PH
 DO
 FE
 Chloride
 Set. Sol
 MG
 Oil

7.5
4.0
2.0
4500
0
0

10.0
5.0
1.0
4500
0
0

6 - 10
 2.5
 6.0
 12,500
 .5

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 Office of Oil and Gas
 APR 09 2024
 WV Department of
 Environmental Protection

Pit Category

1

Comments on Pit condition Clear pit - Good Shape needed
to remove Tee

Description of pit location; and surrounding terrain Woods/Hillside
Off Rt. 50 Ellenboro turn UP behind Dairy Queen
Follow for about 3 miles turn right follow to well



Kennedy, James P <james.p.kennedy@wv.gov>

plugging permit issued 4708510024

1 message

Kennedy, James P <james.p.kennedy@wv.gov>


Mon, Apr 29, 2024 at 9:40 AM

To: "Knuckles, Melissa" <mknuckles@greylockenergy.com>, Jeremy D Newlon <jeremy.d.newlon@wv.gov>, amossor@wvassessor.com

To whom it may concern, a plugging permit has been issued for 4708510024.

James Kennedy

WVDEP OOG

 **4708510024.pdf**
4232K

05/03/2024