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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, August 8, 2024  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

GREYLOCK CONVENTIONAL, LLC  
500 CORPORATE LANDING

CHARLESTON, WV 25311

Re: Permit approval for EASTERN 55  
47-039-04291-00-00

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

A blue ink signature of James A. Martin, Chief, is written over a blue circular stamp.

Operator's Well Number:  
Farm Name: EASTERN ASSOC. COAL  
U.S. WELL NUMBER: 47-039-04291-00-00  
Vertical Plugging  
Date Issued: 8/8/2024

# 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

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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.
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 May 28, , 2024  
2) Operator's  
Well No. Eastern # 55  
3) API Well No. 47-039 - 04291

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_\_ / Gas x / Liquid injection \_\_\_\_ / Waste disposal \_\_\_\_ /  
(If "Gas, Production x or Underground storage \_\_\_\_ ) Deep \_\_\_\_ / Shallow x

5) Location: Elevation 1051 Watershed Paint Creek  
District Cabin Creek County Kanawha Quadrangle Cedar Grove 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 Terry Urban  
Address P.O. Box 1207  
Clendenin, WV 25045  
9) Plugging Contractor Name R & R Well Services  
Address 42 Lynch Ridge Road  
Walton, WV 25286

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

**PLEASE SEE ATTACHED**

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

Work order approved by inspector  Date 7-25-24

08/09/2024

**Plugging Procedure Eastern #55**  
**API: 47-039-4291**

Casing	Depth (ft)	Cement for casing
9 5/8	888	180 sks
7	2047	2047 sks
4 1/2	4760	170 sks

1. Notify the inspector at least 24 hours prior to conducting abandonment operations.
2. Blow down well
3. POOH with Tubing, RIH and confirm TD and fill depth.
4. Prep for cement
5. Lead with 6% gel spacer on all cement plugs.
  - a. Note: Class L to be used, Alternative cement form submitted for Class L.
6. **PLUG 1** – Set cement plug from Approved tag depth - 2100' to cover perfs (4790 -2200')
  - a. **Note:** If cannot get cement to hold, discuss with inspector to set CIBP @ 2150' or cement plug over top perf (2300 – 1850')
7. Free point 4.5" casing, rip and pull pipe.
8. **PLUG (casing cut)** – Set 100' plug across casing cut (50' inside, 50' on top)
9. **PLUG 2** – Set cement plug from **2100 - 1850'** to cover casing shoe (2047') and Little Lime (1936')
10. **PLUG 3** – PU and set cement plug from **1350 – 1250'** to cover salt (1300')
11. **PLUG 4** – PU and set cement plug from **1101 – 1001'** to cover casing shoe (1051')
12. **PLUG 5** – PU and set cement plug from **100 – surface** to cover freshwater (50') and
13. Set monument ~30" above ground with Well Name, API and plug date

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*Set in stages*

*Can set as one plug*

*Elevation*

*Will cover all formation at Oil & Gas Formation with Cement including Elevation Salt Coals & Freshwater*

*Agreed with 7-25-24*



WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas X / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas," Production \_\_\_ / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow X /)

LOCATION: Elevation: 1051 Watershed Paint Creek  
District: Cabin Creek County Kanawha Quadrangle Cedar Grove

COMPANY Allegheny & Western Energy Corporation

ADDRESS P.O. Box 2587 Charleston, W.VA. 25329

DESIGNATED AGENT Dennis L. Mann

ADDRESS P.O. Box 2587 Charleston, W.VA. 25329

SURFACE OWNER Eastern Associated Coal Corp

ADDRESS P.O. Box 70, Beckley, W.VA.

MINERAL RIGHTS OWNER same

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WELL Carlos  
223 Pinch Ridge Rd  
Hivley ADDRESS Elkview, W.VA.

PERMIT ISSUED 2-13-86

DRILLING COMMENCED 3-28-86

DRILLING COMPLETED 4-14-86

IF APPLICABLE: PLUGGING OF DRY HOLES ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. Ft.
Size 20-16 Casing			
15-10"			
9 5/8	888	888	180sks
8 5/8			
7	2047	2047	275sks
5 1/2			
4 1/2	4760	4760	170sks
3			
2			
Liners used:			

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GEOLOGICAL FORMATION Devonian Shale Depth 5290 feet

Depth of completed well 4803 feet Rotary X / Cable Tools

Water source depth: Fresh 50 feet; Salt 1300 feet

Coal seam depths: N/A Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Lime / Weir Pay zone depth 2200/2460 feet

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

Final open flow 320 Mcf/d Final open flow \_\_\_ Bbl/d

Time of open flow between initial and final tests 24 hours

Static rock pressure 300 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation Devonian Shale Pay zone depth 3100 feet

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

08/09/2024

Perfs 2200-2280 w/ 10 holes frac w/ 10,000 gel acid + 140,000 scf n2  
 2460-2980 w/ 40 holes frac w/ 60,000 20/40 sd + 1,118,000 scf n2  
 3100-4790 w/ 60 holes frac w/ 60,000 20/40 sd + 1,210,000 scf n2

WELL LOG

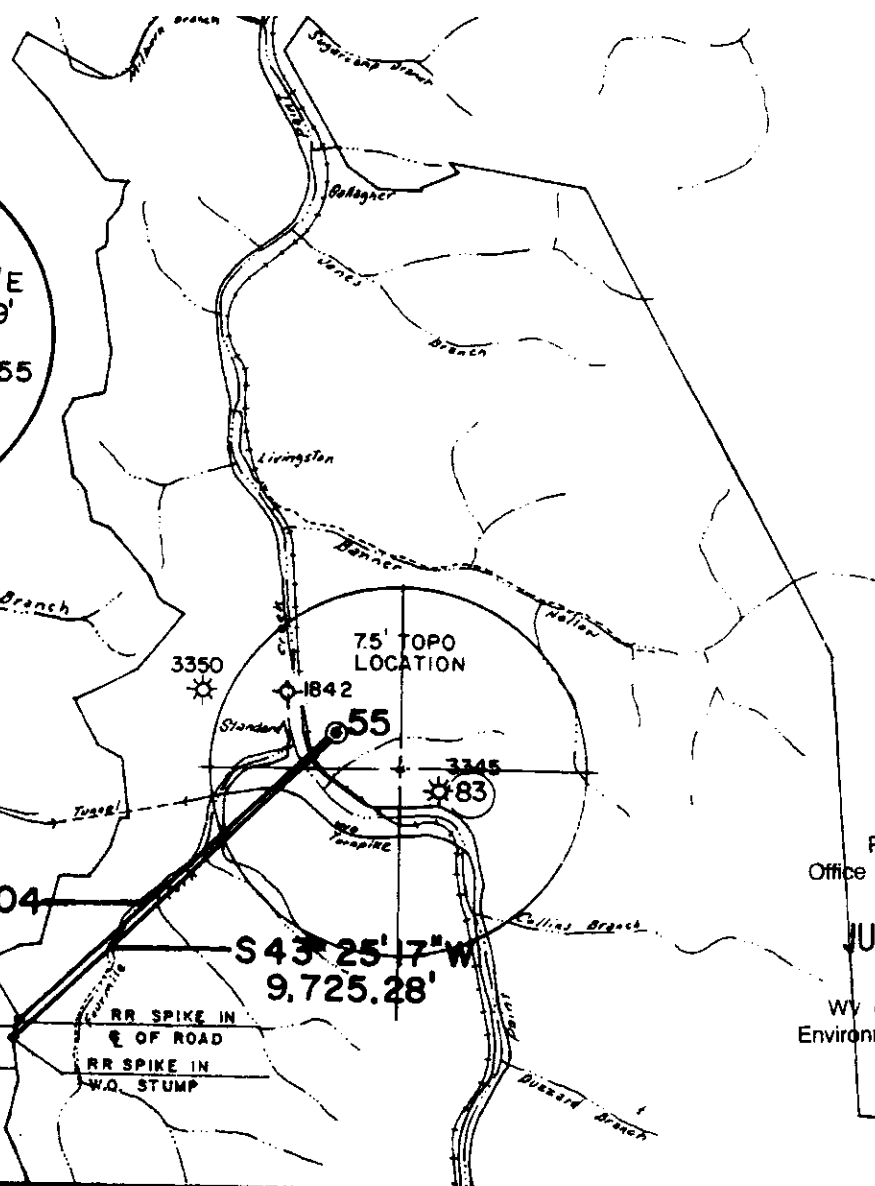
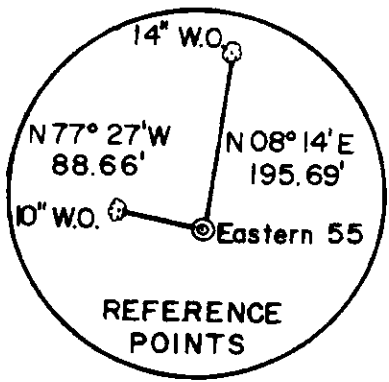
FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
sandstone & shale			0	979	
sakt sand			979	1100	
shale			1100	1130	
salt sand			1130	1458	
sand & shale			1458	1557	
lime & shale			1557	1591	
shale & sand			1591	1936	
little lime			1936	1979	
slate & lime			1979	2031	
big lime			2031	2279	
big injun			2279	2318	
shale			2318	2368	
weir			2368	2494	
shale			2494	2752	
sunbury shale			2752	2764	
bera sand			2764	2768	
siltstone & shale			2768	3020	
gordon sand			3020	3034	
grey & brown shale			3034	4803	T.D. 4803 K.B.

(Attach separate sheets as necessary)

Allegheny & Western Energy Corporation  
 Well Operator

08/09/2024

By: *David L. Mc...* Chief of Operations



S44° 13' 46" W 9,321.04'  
 S 31° 12' E 1193.5'  
 S 25° 36' W 434'  
 S 09° 38' E 896.3'

S43° 25' 17" W  
 9,725.28'

LONGITUDE 81° 22' 30"  
 10,450'

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 Environmental Protection

FILE NO. 10-002  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 4000'  
 MINIMUM DEGREE OF ACCURACY 1 in 2500'  
 PROVEN SOURCE OF ELEVATION USGS BM 9SKS 1963  
 ELEV. 731

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 DEPARTMENT OF MINES.  
 (SIGNED) \_\_\_\_\_  
 R. P. E. \_\_\_\_\_ L. L. S. \_\_\_\_\_

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8-78)



Department of Mines  
 Oil & Gas Division

DATE JANUARY 23 19 86  
 OPERATOR'S WELL NO. 55  
 API WELL NO. 47-039-4291  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_\_\_ GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS", PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION ELEVATION 1051 WATER SHED PAINT CREEK  
 DISTRICT CABIN CREEK COUNTY KANAWHA  
 QUADRANGLE CEDAR GROVE 7.5'  
 SURFACE OWNER Eastern Associated Coal Corporation ACREAGE 21,238  
 OIL & GAS ROYALTY OWNER Eastern Associated Coal Corporation LEASE ACREAGE 2230  
 LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE  
 STIMULATE  PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW  
 FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ 08/09/2024

1) Date: May 28, 2024  
2) Operator's Well Number  
Eastern # 55

3) API Well No.: 47 - 039 - 04291

**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>Quercus</u>	Name <u>Central Appalachia</u>
Address <u>19045 Stone Mountain Road</u>	Address <u>210 W. Washington Street</u>
<u>Abingdon, VA 24210</u>	<u>Charleston, WV 25302</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Quercus</u>
	Address <u>19045 Stone Mountain Road</u>
	<u>Abingdon, VA 24210</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Terry Urban</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 1207</u>	Name _____
<u>Clendenin, WV 25045</u>	Address _____
Telephone <u>304-549-5915</u>	

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

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

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

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

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Well Operator Greylock Conventional, LLC.  
 By: Gavin M. Reed  
 Its: Asset Development Manager  
 Address 500 Corporate Landing  
Charleston, WV 25311  
 Telephone (304) 925-6100

JUL 31 2024

WV Department of  
Environmental Protection

Subscribed and sworn before me this 28th day of May 2024  
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](mailto:depprivacyofficer@wv.gov).

08/09/2024



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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 Central Appalachia

Street and Apt. No. or PO Box No. 510 W Washington Street

City, State, ZIP+4® Charleston WV 25302

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

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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 Quercus

Street and Apt. No. or PO Box No. 15015 Stone Mountain Rd

City, State, ZIP+4® Roanoke VA 24060

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

9122 2267 2002 1377 2225

7022 2410 0002 1377 2225

7022 2410 0002 1377 2225

9122 2267 2002 1377 2225

7022 2410 0002 1377 2225

7022 2410 0002 1377 2225

7022 2410 0002 1377 2225

7022 2410 0002 1377 2225

**SURFACE OWNER WAIVER**

Operator's Well  
Number

47-039-04291

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

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.  
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION**

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

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Office of Oil and Gas

**JUL 31 2024**

WV Department of  
Environmental Protection

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

**If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.**

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON  
ETC.

FOR EXECUTION BY A CORPORATION,

	Date	Name	
Signature		By	
		Its	Date

Signature

Date

**08/09/2024**



WW-9  
(5/16)

API Number 47 - 039- 04291  
Operator's Well No. \_\_\_\_\_

**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) Paint Creek Quadrangle Cedar Grove 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 \_\_\_\_\_ )

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 cuttings 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 or rejected on 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 Gavin M. Reed

Company Official (Typed Name) Gavin M. Reed

Company Official Title Asset Development Manager

Subscribed and sworn before me this 20th day of May

Melissa A. Knuckles

My commission expires July 20, 2025



08/09/2024



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	LNDINO 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: *[Signature]*

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

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JUL 31 2024

WV Department of  
Environmental Protection

Title: *Inspector Oil & Gas* Date: *7-25-24*

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): Paint Creek Quad: Cedar Grove 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

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

Daily inspections of equipment will be preformed

Signature: \_\_\_\_\_

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

08/09/2024

May 10, 2024

WV Department of Environmental Protection  
601 57<sup>th</sup> Street  
Charleston, WV 25304

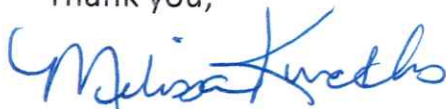
Re: 2022-13 Variance that allows the use of Class L cement in place of Class A cement for well plugging.

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

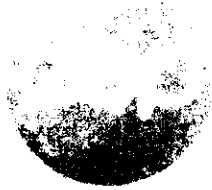
Greylock Energy, LLC.

[mknuckles@greylockenergy.com](mailto:mknuckles@greylockenergy.com)

(304) 925-6100 Office

(304) 389-1441 Cell





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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**JUL 31 2024**

**WV Department of  
Environmental Protection**

**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.

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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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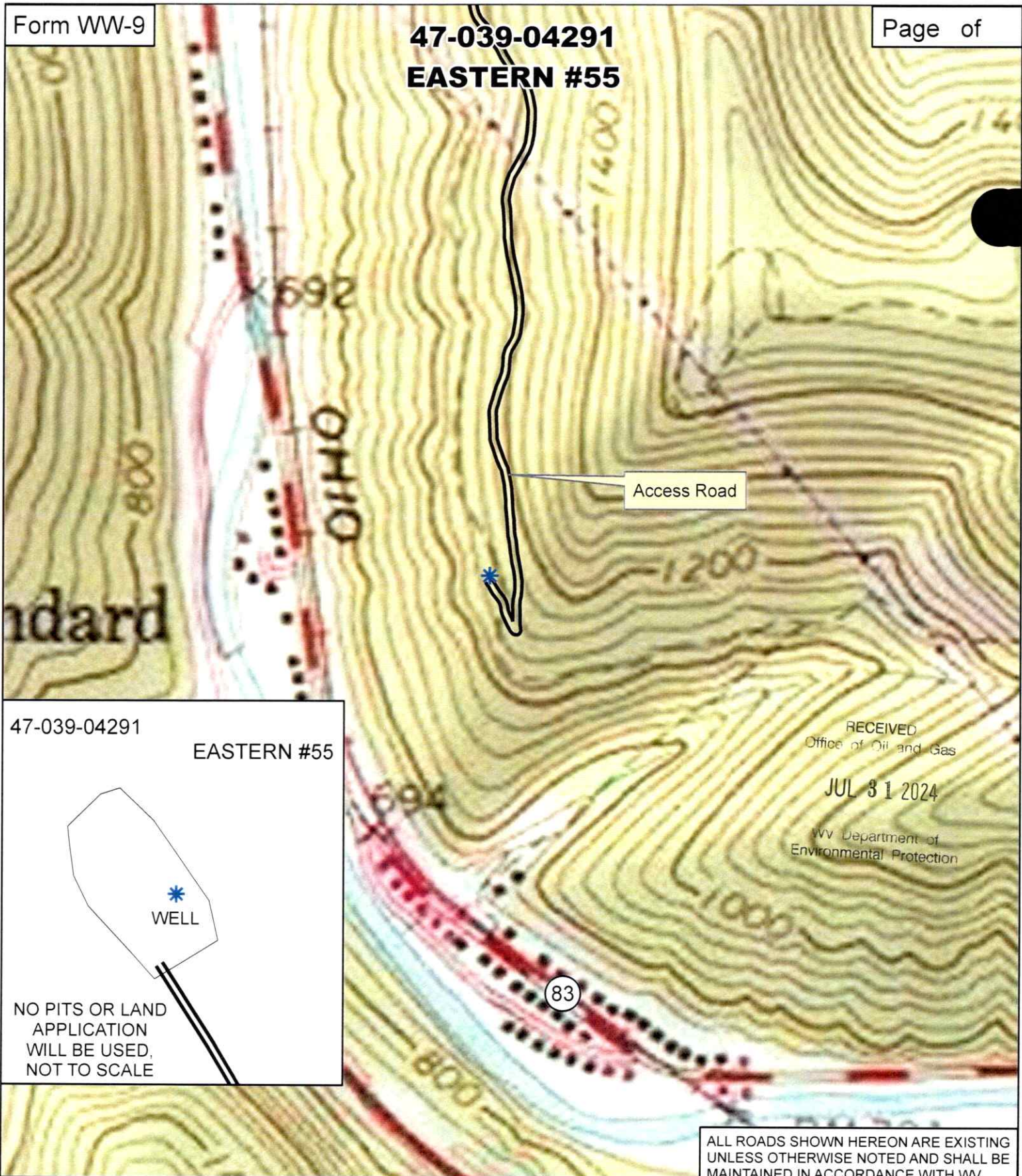
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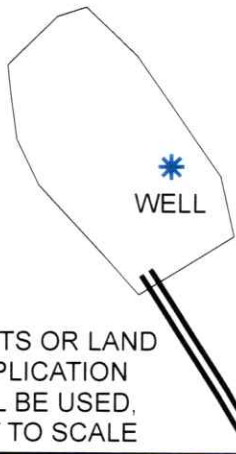
47-039-04291  
EASTERN #55



Access Road

47-039-04291

EASTERN #55



NO PITS OR LAND APPLICATION WILL BE USED, NOT TO SCALE

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83

**GREYLOCK**  
ENERGY

Greylock Conventional, LLC

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

Date: 6/11/2024

0 150 300 600 900 1,200



Feet

1:6,000

TOPO SECTION OF USGS  
CEDAR GROVE 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 AND IN ACCORDANCE WITH WV D.O.T. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY D.O.T.

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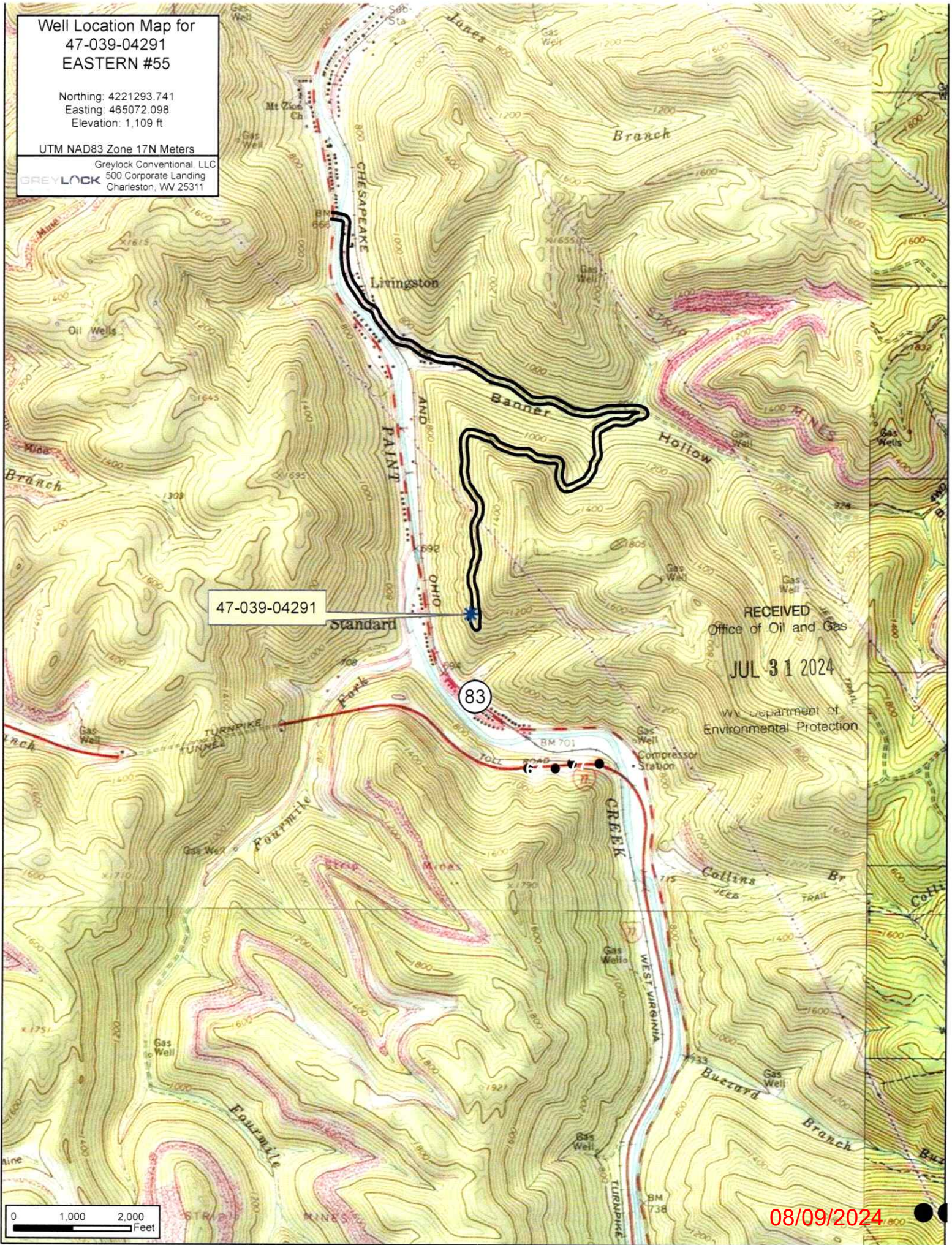


Well Location Map for  
47-039-04291  
EASTERN #55

Northing: 4221293.741  
Easting: 465072.098  
Elevation: 1,109 ft

UTM NAD83 Zone 17N Meters

Greylock Conventional, LLC  
500 Corporate Landing  
Charleston, WV 25311



47-039-04291

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WW-7  
8-30-06



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

API: 47-039-04291 WELL NO.: 55

FARM NAME: Eastern

RESPONSIBLE PARTY NAME: Greylock Conventional, LLC

COUNTY: Kanawha DISTRICT: Cabin Creek

QUADRANGLE: Cedar Grove

SURFACE OWNER: Eastern Assoc. Coal

ROYALTY OWNER: \_\_\_\_\_

UTM GPS NORTHING: 4221293.74

UTM GPS EASTING: 449443.26 GPS ELEVATION: 1,109 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:

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

Survey grade GPS \_\_\_\_\_: Post Processed Differential \_\_\_\_\_

Real-Time Differential \_\_\_\_\_

Mapping Grade GPS X: Post Processed Differential \_\_\_\_\_

Real-Time Differential X

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- 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.

G-M 14  
Signature

Asset Development Manager  
Title

5/28/24  
Date

08/09/2024

May 29, 2024

Central Appalachia  
210 W. Washington Street  
Charleston, WV 25302

To Whom It May Concern:

This letter is to inform you that Greylock Conventional, LLC. will be plugging the Eastern # 55 well located in Kanawha County WV. Should you have questions regarding this matter, please feel free to contact me at (304) 925-6100.

Thank you,



Melissa Knuckles



500 Corporate Landing  
Charleston, WV 25311  
(304) 925.6100  
mknuckles@greylockenergy.com

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JUL 31 2024

WV Department of  
Environmental Protection

08/09/2024

May 29, 2024

Quercus  
19045 Stone Mountain Road  
Abingdon, VA 24210

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This letter is to inform you that Greylock Conventional, LLC. will be plugging the Eastern # 55 well located in Kanawha County WV. Should you have questions regarding this matter, please feel free to contact me at (304) 925-6100.

Thank you,



Melissa Knuckles



500 Corporate Landing  
Charleston, WV 25311  
(304) 925.6100  
mknuckles@greylockenergy.com

08/09/2024

PLUGGING PERMIT CHECKLIST

Plugging Permit

- WW-4B
- WW-4B signed by inspector
- WW-4A
  
- SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- WW-9 PAGE 1 (NOTARIZED)
- WW-9 PAGE 2 with attached drawing of road, location, pit and proposed area for land application
- WW-9 GPP PAGE 1 and 2 if well effluent will be land applied
- RECENT MYLAR PLAT OR WW-7
- WELL RECORDS/COMPLETION REPORT
- TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED
- MUST HAVE VALID BOND IN OPERATOR'S NAME
- CHECK FOR \$100 IF PIT IS USED

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JUL 31 2024

WV Department of  
Environmental Protection

08/09/2024



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

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## plugging permits issued 4703904291 04292

1 message

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

Thu, Aug 8, 2024 at 9:31 AM

To: Terry W Urban <terry.w.urban@wv.gov>, sallierobinson@kanawha.us, "Knuckles, Melissa" <mknuckles@greylockenergy.com>


To whom it may concern, plugging permits have been issued for 4703904291 04292.


James Kennedy

WVDEP OOG

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### 2 attachments

 **4703904292.pdf**  
2913K

 **4703904291.pdf**  
2922K

08/09/2024