



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

Monday, August 19, 2024
WELL WORK PLUGGING PERMIT
Vertical Plugging

GREYLOCK CONVENTIONAL, LLC
500 CORPORATE LANDING

CHARLESTON, WV 25311

Re: Permit approval for LML 8
47-039-04387-00-00

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: LML 8
Farm Name: LAFOLLETTE, L. M.
U.S. WELL NUMBER: 47-039-04387-00-00
Vertical Plugging
Date Issued: 8/19/2024

Promoting a healthy environment.

08/23/2024

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 May 20, 2024
2) Operator's
Well No. LML #4
3) API Well No. 47-039 - 04387

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 1182 Watershed Pond Fork
District Elk County Kanawha Quadrangle Mammoth 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

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Office of Oil and Gas

JUL 31 2024

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  Date 7-25-24

08/23/2024

Plugging Procedure LML #4
API: 47-039-4387

Casing	Depth (ft)	Cement for casing
9 5/8	1223	410 sks
7	2752	175 sks
4 1/2	5570	270 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 - 3000' to cover perfs (5497 -3132')
 - a. **Note:** If cannot get cement to hold, discuss with inspector to set CIBP @ 3082' or cement plug over top perf (3200 – 2550')
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** – PU and set cement plug from **2810 – 2550'** to cover casing shoe (2752') and little lime (2607')
10. **PLUG 3** – PU and set cement plug from **1910 – 1810'** to cover salt (1860')
11. **PLUG 4** – PU and set cement plug from **1639 – 1539'** to cover Elevation (1589')
12. **PLUG 5** – PU and set cement plug from **1273 – 1173'** to cover casing shoe (1223')
13. **PLUG 6** – PU and set cement plug from **1010 – 910'** to cover Fresh Water (960')
14. **PLUG 7** – PU and set cement plug from **100' – surface** to cover surface
15. Set monument ~30" above ground with Well Name, API and plug date

5630'

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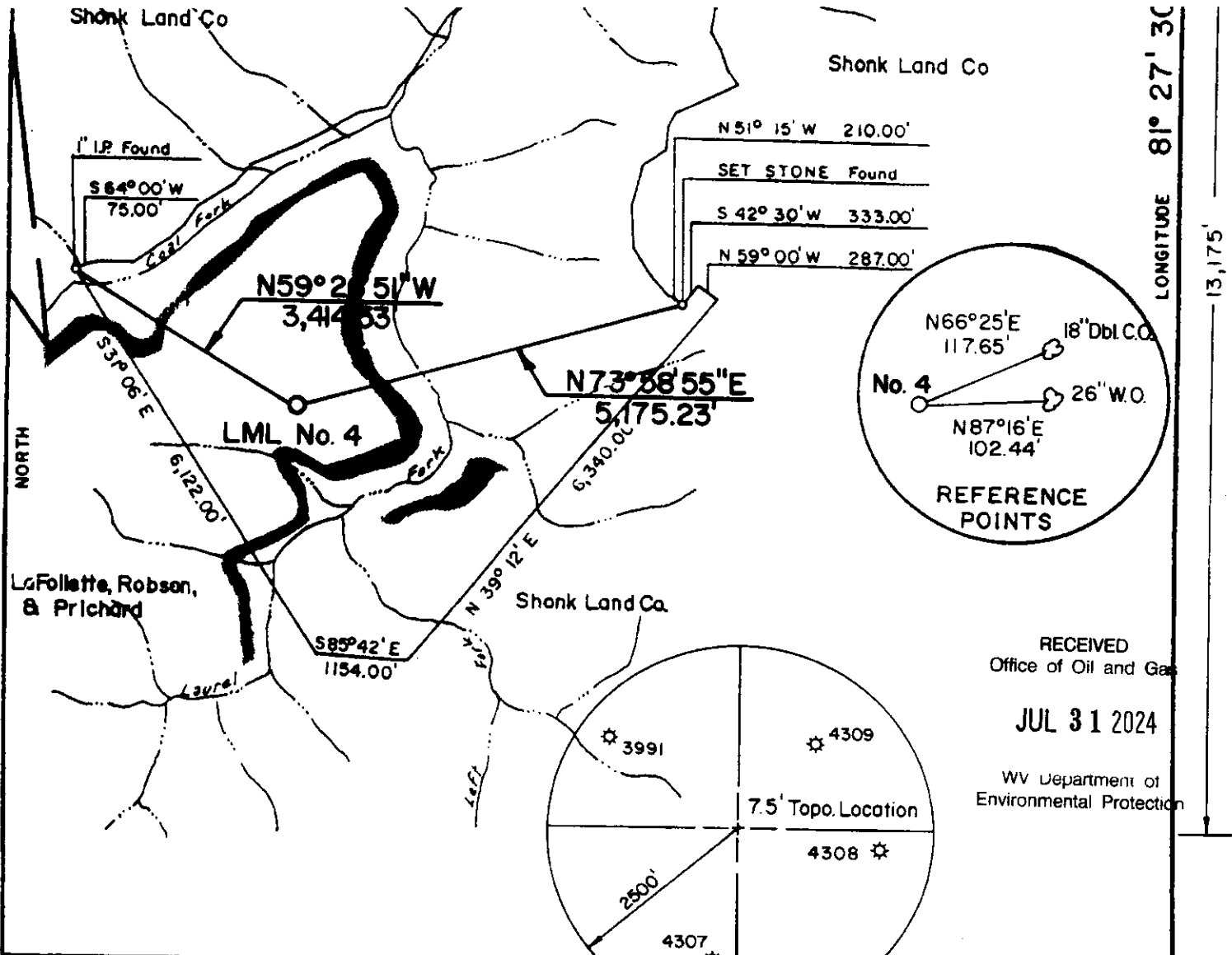
CAN Set AS ONE Plug

CAN Set AS ONE Plug

Will cover with Cement All oil & Gas formation including Salt, Elevation Coal & Freshwater

August 2024
7-25-24

08/23/2024



LONGITUDE 81° 27' 30"
13,175'

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FILE NO. 10-002-014
DRAWING NO. _____
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY 1:2500
PROVEN SOURCE OF ELEVATION USGS BM 95KS 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) Gregory Bailey
R.P.E. 9318 L.L.S. _____

10/16/86
PLACE SEAL HERE

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



DATE OCTOBER 16, 1986
OPERATOR'S WELL NO. LML No. 4
API WELL NO. 47-039-4387
STATE COUNTY PERMIT

DEPARTMENT OF ENERGY
Oil & Gas Division

WELL TYPE: OIL _____ GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS", PRODUCTION STORAGE _____ DEEP _____ SHALLOW
LOCATION: ELEVATION 1589 WATER SHED Laurel Fork
DISTRICT CABIN CREEK COUNTY KANAWHA
QUADRANGLE ESKDALE 7.5'
SURFACE OWNER L.M. LaFollette, et al ACREAGE 1003
OIL & GAS ROYALTY OWNER L.M. LaFollette LEASE ACREAGE 1003
LEASE NO. _____

PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ **08/23/2024**

APR 15 1987

DEPARTMENT OF MINES

WELL NO. LML 4

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Department of Mines
Oil and Gas Division

Farm LaFollette etal

API No. 47 - 039 - 4387

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 X / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 1589 Watershed Laurel Fork

District: Cabin Creek County Kanawha Quadrangle Eskdale 7.5

COMPANY Allegheny & Western Energy Corp

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 L.A.Follette etal

ADDRESS 410 10th St Huntington, W.Va.

MINERAL RIGHTS OWNER Same

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Carlos
223 Pinch Ridge Rd.

Hivley ADDRESS Elkview, W.Va

PERMIT ISSUED November 14, 1986

DRILLING COMMENCED 12/4/86

DRILLING COMPLETED 12/10/86

IF APPLICABLE: PLUGGING OF DRY HOLE 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 Cond.			
13-10"			
9 5/8	1223	1223	410 sks
8 5/8			
7	2752	2752	175 sks
5 1/2			
4 1/2	5570	5570	270 sks
3			
2			
Liners used			

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GEOLOGICAL TARGET FORMATION Devonian Shale

DEPTH 5290 feet

Depth of completed well 5630 feet Rotary X / Cable Tools

Water strata depth: Fresh 960 feet; Salt 1860 feet

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

OPEN FLOW DATA

Producing formation Weir Pay zone depth 3132 feet

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

Final open flow 105 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 24 hours

Static rock pressure 375 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)

Second producing formation Devonian Shale Pay zone depth 3358 feet

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

Final open flow 470 Mcf/d Oil: Final open flow Bbl/d

08/23/2024

3825-5497 perf w/ 32 holes frac w/ 60,000# 20/40 sd + 1,092,000 scf n2
 3825-5497 perf w/ 70 holes frac w/ 60,000# 20/40 sd + 1,092,000 scf n2

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 APR 15 1987

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

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	1517	
salt sand			1517	1638	
shale			1638	1668	
salt sand			1668	1996	
shale			1996	2095	
limestone			2095	2129	
sand & shale			2129	2607	
little lime			2607	2657	
slate & lime			2657	2697	
big lime			2697	2959	
big injun			2959	2962	
shale			2962	3124	
weir			3124	3209	
shale			3209	3396	
sunbury shale			3396	3404	
bera			3404	3413	
sandysiltstone & shale			3413	3652	
gordon			3652	3660	
grey & brown shale			3660	5630	

T.D. 5630 K.B.

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(Attach separate sheets as necessary)

Allegany & Western Energy Corp
 Well Operator
 By: Devin K. Man Vice President
 Date: April 6, 1987

08/23/2024

WW-4A
Revised 6-07

1) Date: May 20, 2024
2) Operator's Well Number
LML # 4
3) API Well No.: 47 - 039 - 04387

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>Sustainable Surface</u>	Name <u>unknown</u>
Address <u>303 W. Washington Street</u>	Address _____
<u>Charleston, WV 25302</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Sustainable Surface Development Land, LLC.</u>
_____	Address <u>unknown</u>
_____	_____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>TERRY URBAN</u>	(c) Coal Lessee with Declaration
Address _____	Name _____
_____	Address _____
Telephone <u>304 549-3915</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	<u>Greylock Conventional, LLC.</u>	RECEIVED Office of Oil and Gas JUL 31 2024 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>	
	<u>Charleston, WV 25311</u>	
Telephone	<u>(304) 925-6100</u>	

Subscribed and sworn before me this 20th 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 depprivacyoffier@wv.gov.

08/23/2024

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OFFICIAL USE

7022 2410 0002 1377 2976

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

\$

LML#4

Sent To

Sustainable Surface

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

803 W. Washington St

City, State, ZIP+4®

Chas W 25302

JUL 20 2024
Postmark
Here

SURFACE OWNER WAIVER

Operator's Well
Number

47-039-04387

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:**

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Office of Oil and Gas

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

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,
ETC.

_____	Date _____	Name _____
Signature		By _____
		Its _____
		Date _____

Signature

Date

08/23/2024

WW-4B

API No.	<u>47-039-04387</u>
Farm Name	_____
Well No.	<u>LML # 4</u>

**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 ____ / 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: _____

By: _____
 Its _____

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08/23/2024

WW-9
(5/16)

API Number 47 - 039 - 04423
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) Pond Fork Quadrangle Mammoth 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? _____

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

JUL 31 2024

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

-Landfill or offsite name/permit number? _____

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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 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, 2024

Melissa A. Knuckles Notary Public

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

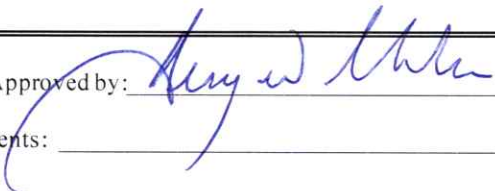
Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
ORCHARD GRASS	12	ORCHARD GRASS	12
LANDINO CLOVER	3	LANDINO CLOVER	3
TIMOTHY	10	TIMOTHY	10

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: _____



Comments: _____

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Title: Inspect 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): Pond FORk Quad: Mammoth 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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JUL 31 2024
Wv Department of
Environmental Protection

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

Daily inspections of equipment will be preformed

Signature: _____

Date: _____

08/23/2024

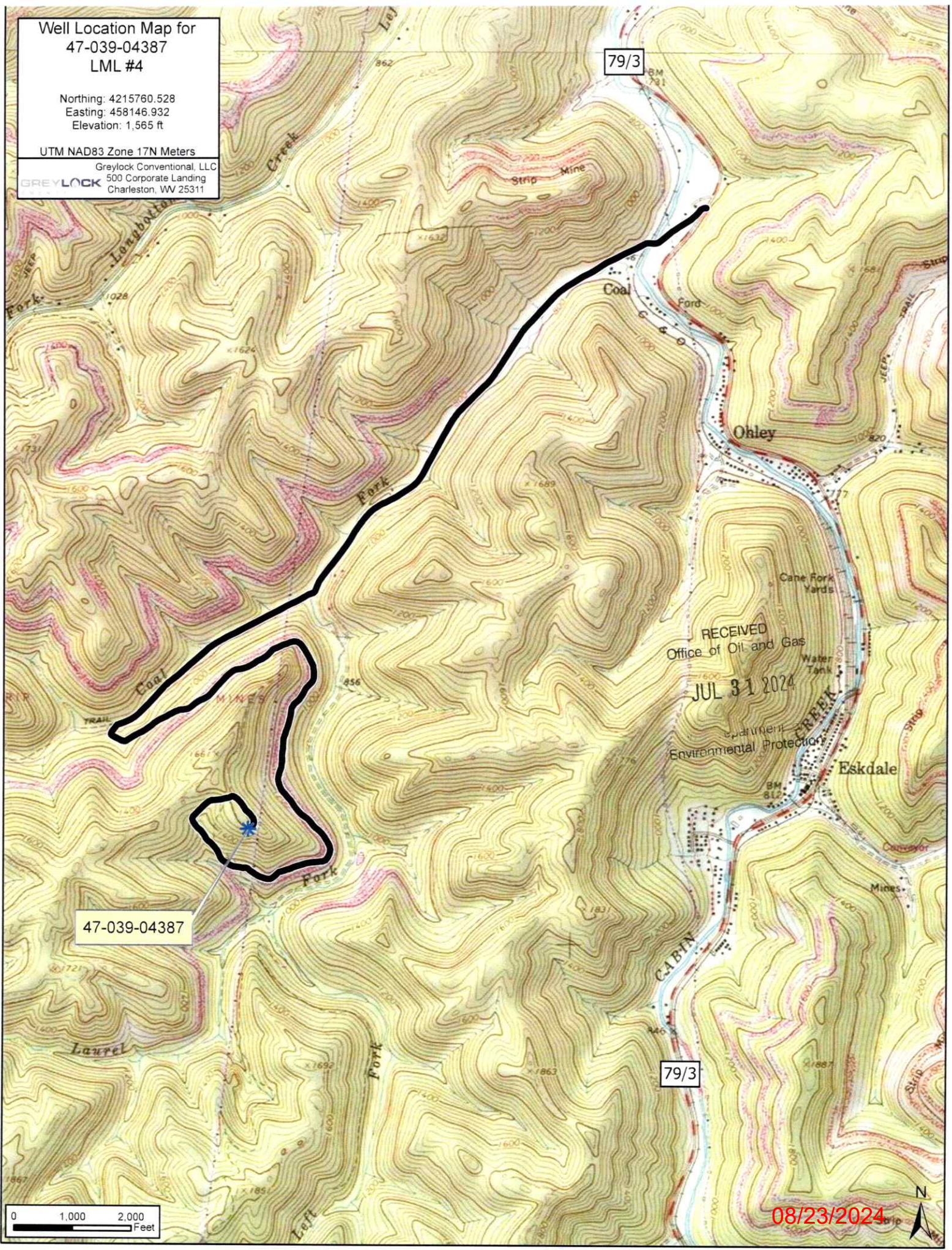
Well Location Map for
47-039-04387
LML #4

Northing: 4215760.528
Easting: 458146.932
Elevation: 1,565 ft

UTM NAD83 Zone 17N Meters

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

79/3



47-039-04387

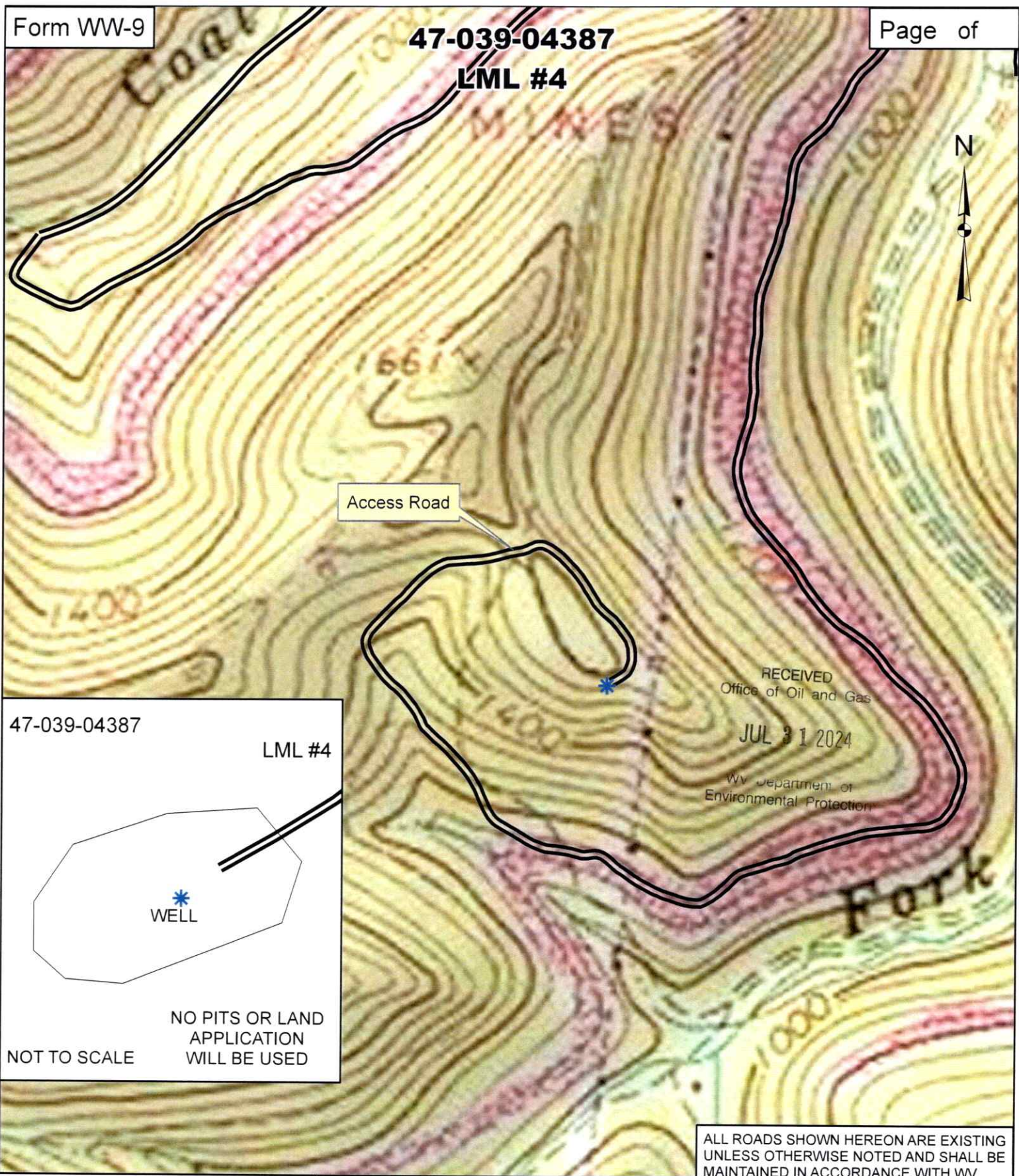
79/3

0 1,000 2,000
Feet

08/23/2024

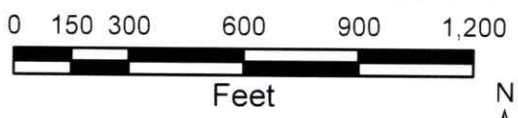
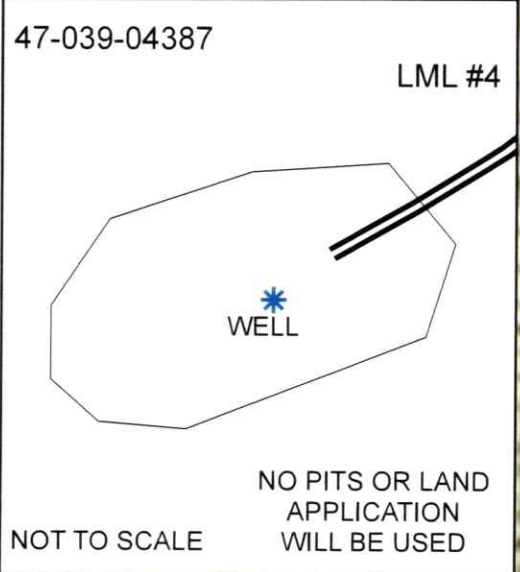


LML #4



Access Road

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1:6,000



TOPO SECTION OF USGS ESKDALE 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 INSPECTION PRIOR TO ANY DEVIATION FROM THIS PLAN.

08/23/2024



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

Date: 7/23/2024

WW-7
8-30-06



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

API: 47-039-0438 17 WELL NO.: 4

FARM NAME: LAFOLLETTE, L. M.

RESPONSIBLE PARTY NAME: Greylock Conventional, LLC

COUNTY: Kanawha DISTRICT: Cedar Grove

QUADRANGLE: Eskdale

SURFACE OWNER: _____

ROYALTY OWNER: _____

UTM GPS NORTHING: 4215760.528

UTM GPS EASTING: 458146.932.64 GPS ELEVATION: 1,565 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

- 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. W. 24
Signature

Asset Development Manager
Title

5/20/24
Date

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08/23/2024

May 10, 2024

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

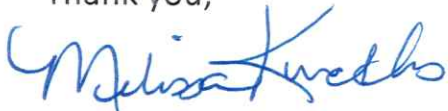
Re: 2022-13 Variance that allows the use of Class L cement in place of Class A cement for well plugging.

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. Greyllock 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

Greyllock Energy, LLC.

mknuckles@greyllockenergy.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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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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May 29, 2024

Sustainable Surface
303 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 LML # 4 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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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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Kennedy, James P <james.p.kennedy@wv.gov>

plugging permits issued 4703904387 04401

1 message

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

Mon, Aug 19, 2024 at 12:45 PM


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


To whom it may concern, plugging permits have been issued for 4703904387 04401.

James Kennedy

WVDEP OOG

2 attachments

 **4703904387.pdf**
2827K

 **4703904401.pdf**
2983K

08/23/2024