



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, May 1, 2023
WELL WORK PLUGGING PERMIT
Vertical Plugging

GREYLOCK CONVENTIONAL, LLC
500 CORPORATE LANDING

CHARLESTON, WV 25311

Re: Permit approval for POCAHONTAS 14
47-005-01479-00-00

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: POCAHONTAS 14
Farm Name: WESTERN POCAHONTAS, L^{LD}
U.S. WELL NUMBER: 47-005-01479-00-00
Vertical Plugging
Date Issued: 5/1/2023

Promoting a healthy environment.

05/05/2023

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 March 1, , 2023
2) Operator's
Well No. Western Pocahontas #14
3) API Well No. 47-006-01479

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 2465 Watershed Matts Creek
District Crook County Boone Quadrangle Pilot Knob 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 9) Plugging Contractor
Name Terry Urban Name R & R Well Services
Address P.O. Box 1207 Address 42 Lynch Ridge Road
Clendenin, WV 25045 Walton, WV 25286

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

PLEASE SEE ATTACHED



THE COMPLETION REPORT FROM THE OPERATOR STATES THAT 9 5/8" CASING (CORL STRING & FRESH WATER STRING) WAS SET @ 1240' AND CEMENTED WITH 265 SK OF CEMENT. THIS WOULD SUGGEST THAT CEMENT DID NOT REACH THE SURFACE (TOC @ 250-300' FROM SURFACE). HOWEVER, THE STATE INSPECTOR SUBMITTED A REPORT ON 5/15/1989 SHOWING 1244 FEET OF 9 5/8" WAS SET ON 6/26/1988 AND CEMENTED W/ 365 SKS OF CEMENT, THIS WOULD BE SUFFICIENT CEMENT TO REACH THE SURFACE.

THEREFORE, 9 5/8" CASING NEEDS TO HAVE A CEMENT BOND LOG RUN, THAT SHOWS CEMENT TO SURFACE OR FREE POINT, CUT AND PULL FREE 9 5/8" CASING AND CEMENT FROM 50' BELOW CUT TO SURFACE.

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Office of Oil and Gas
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WV Department of
Environmental Protection

JNM
5/1/2023

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

Work order approved by inspector [Signature] Date 3-22-23

05/05/2023



500 Corporate Landing
Charleston WV 25311

- MINIMUM PLUG IS 100' AND MUST BE CLASS A CEMENT W/ NO MORE THAN 3% CALCIUM CHLORIDE.
- GEL => FRESHWATER W/ AT LEAST 6% BENTONITE, BY WEIGHT.

Western Pocahontas #14 P&A Procedure:

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. NOTIFY INSPECTOR OF TAG DEPTH
5. Lead with gel spacer on ALL cement plugs
6. **PLUG 1** - Set cement plug from Approved Tag Depth -3880' to cover perfs located 4320-4314' & 3938-3920'. - 100ft above Cement
 - a. WOC and tag TOC to confirm perfs are covered. Pump another plug if cement fell below 3820'.
7. **PLUG 2** - PUH and set balance plug from 2515' - 2415' to cover elevation @ 2465'
8. Free point 4.5" casing, rip and pull pipe. Note: Pull pipe after cement plugs below are set.
9. **Casing Cut PLUG 3** - Set 100' plug across casing cut
10. **PLUG 4** - PUH and set balance plug from 1290' - 898' to casing shoe and coal zones @ 1240, 1170, 1070, 1010, 948'
11. **PLUG 5** - PUH and set balance plug from 555' - 315' to cover coal tops @ 509, 505 and 365'
12. **PLUG 6** - PUH and set balance plug from 270' - surface' to cover coal @ 220, 105 and surface plug
13. Set monument 30" above ground with Well Name, API and plug date

SEE → ★
WW-4B 10)

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WV Department of Environmental Protection

Section	Size	Weight/Grade	Depth	Hole Size	TOC
Conductor	13 3/8"	NA	40'	NA	Fill
Surface	9-5/8"	NA	1240'	NA	265 sks
Production	4-1/2"	NA	4380'	NA	75 sks

Operator to Core with Cement All Oil & Gas Bearing Formation including Salt, Elevation, Coals & Freshwater

Handwritten signature
3-22-23

05/05/2023

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Form name: WESTERN POCAHONTAS LTD. Operator Well No.: POCAHONTAS 14

LOCATION: Elevation: 2465.00 Quadrangle: P1LDT KNDB

District: CROOK County: BOONE
Latitude: 2030 Feet South of 37 Deg. 52Min. 30 Sec.
Longitude: 8375 Feet West of 81 Deg. 32 Min. 30 Sec.

Company: NATURAL RESOURCE MANEGEME	61 Casings	Used in	Left	Cement
681 ANDERSON DR. FOSTER PLAZA				Fill Up
PITTSBURGH, PA				in Well
Agent: DAVE CASH				Cu. Ft.
Inspector: JERRY HOLCOMB	Size			
Permit Issued: 06/07/88	13-3/8"	40'	-	Conductor
Well work Commenced: June 24, 1988				
Well work Completed: July 14, 1988				
Verbal Plugging	9-5/8"	1240'	1240'	265 SX
Permission granted on:				
Rotary Cable Rig				
Total Depth (feet) 4372 DTD	4-1/2"	4380'	4380'	75 SX
Fresh water depths (ft) 90				
Salt water depths (ft) None reported				
Is coal being mined in area (Y/N)? Y				
Coal Depths (ft): 105, 220, 365, 505, 509, 948, 1010, 1070, 1170				

OPEN FLOW DATA

Producing formation Berea Pay zone depth (ft) 4315
 Gas: Initial open flow 1311 MCF/d Oil: Initial open flow Bbl/d
 Final open flow 169 MCF/d Final open flow Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock Pressure 570 Psid (surface pressure) after 22 Hours

Second producing formation WEIR Pay zone depth (ft) 3920
 Gas: Initial open flow 1311 MCF/d Oil: Initial open flow Bbl/d
 Final open flow 2900 MCF/d Final open flow Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock Pressure 700 Psid (surface pressure) after 72 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS; FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS; INCLUDING COAL ENCOUNTERED BY THE WELLSHORE.

For: NATURAL RESOURCE MANAGEMENT CORP.
By: Paul J. Shuleski, Regional Geology Manager
9/20/88

BOONE 1479

DETAILS OF PERFORATED INTERVALS, FRACTURING, PHYSICAL CHANGES


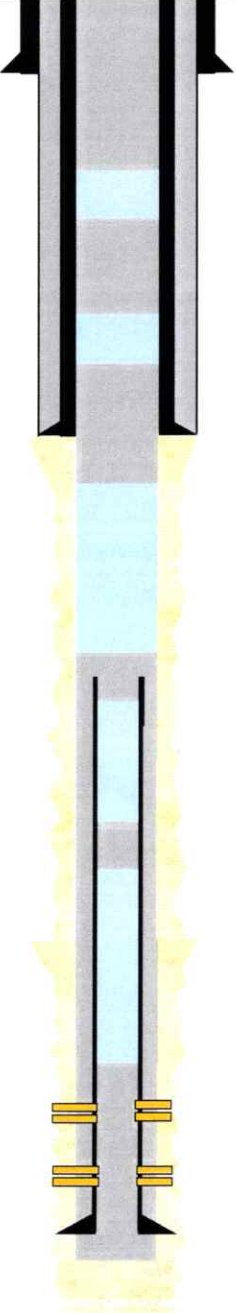
First Stage: Spotted 500 gal. 15% HCL and 500 gal. MeOH. Perfed 4314' to 4320' with 10 holes. Pumped 304 bbls. water, 10,000# 20/40 sand, 225 SCFH₂/bbl. Brokedown formation at 3280 psig. Average treating rate 10.7 BPM. Average pressure 1025 psig ISIP A/F 550 psig.

Second Stage: Spotted 500 gal. 15% HCL and 500 gal. MeOH. Perfed 3920' to 3938' with 16 holes. Pumped 659 bbls. water, 60,000# 20/40 sand, 250 SCFH₂/bbl. Brokedown on hydrostatic. Average treating rate 23 BPM. Average pressure 1500 psig. ISIP A/F 530 psig.


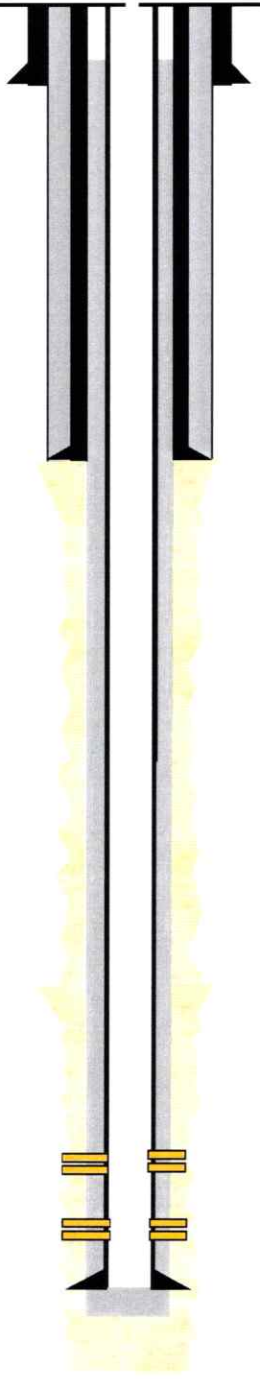
WELL LOG

FORMATION COLOR HARD/SOFT	TOP FEET	BOTTOM FEET	REMARKS
<u>DRILLER'S LOG:</u>			FW @ 90'
Shale	0	670	
Sand and Shale	670	1480	
Shale	1430	2080	
Salt Sand	2080	2530	
Sand and Shale	2530	2940	
Maxton Sand	2940	3300	
Sand and Shale	3300	3430	
Line	3430	3820	GC @ 3995' - TSTM
Sand and Shale	3820	4100	GC @ TD - TSTM
Shale	4100	4375	
	DTD	4375	
	LTD	4420	
<u>FROM CDL:</u>			
Princeton SS	2568	2714	
Ravencliff SS	2732	2803	
Avis LS	2842	2876	
Maxton SS	2942	3302	
Little Line	3398	3454	
Big Line	3489	3823	
Upper Weir	3920	3967	
Lower Weir	4049	4094	
Sunbury Sh	4290	4308	
Berea SS	4308	4321	

7157

			Greylock Conventional, LLC.
			Western Pocahontas #14
			API #: 4700501479
			Casing and Cementing Details (Current)
			Boone Co., WV
Casing Size		Hole Size	Detailed Description
13 3/8" Set @ 40'			← SEE WW-4B 10)
			PLUG 6: 270 - 0' (covers coal @ 220', 105')
			PLUG 5: 559 - 315' (covers coal @ 509, 505, 365')
9 5/8" set @ 1240'			PLUG 4: 1290' - 898' (covers casing shoe and coal @ 1170, 1070, 1010, 948)
		PLUG 3: Casing Cut (50' inside, 50' outside)	
		PLUG 2: 2515 - 2415' (covers elevation @ 2465')	
Perfs @ 3938' - 3920'		PLUG 1: Approved Tag Depth - 3820' (covers perfs)	
Perfs @ 4320-4314'			
4 1/2" set @ 4380'			
TD 4380'			

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WV Department of
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			Greylock Conventional, LLC.
			Western Pocahontas #14
			API #: 4700501479
			Casing and Cementing Details (Current)
			Boone Co., WV
Casing Size		Hole Size	Detailed Description
13 3/8" Set @ 40'			
9 5/8" set @ 1240'			
Perfs @ 3938' - 3920'			
Perfs @ 4320-4314' 4 1/2" set @ 4380'			
TD 4380'			
			Elevation 2465'

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IR-26
OBVERSE

4700501479P

INSPECTOR'S PERMIT SUMMARY

WELL TYPE _____ API# 47- 5-01479
ELEVATION: 2465.00 OPERATOR: NATURAL RESOURCE MANAGEMENT CORP.
DISTRICT: CROOK TELEPHONE: (304)925-4901
QUADRANGLE: PILOT KNOB FARM: WESTERN POCAHONTAS, LTD.
COUNTY: BOONE WELL NO.: POCAHONTAS 14

SURFACE OWNER _____ COMMENTS (Y/N) _____ TELEPHONE _____
TARGET FORMATION _____ DATE APPLICATION RECEIVED 06/06/88
DATE PERMIT ISSUED: 06/07/88

WELL LOCATION STARTED 6/6/88 NOTIFIED ✓ DRILLING COMMENCED 6/23/88

WATER DEPTHS 320 _____
COAL DEPTHS 115, 230, 365, 515, 960 1190'

CASING
RAN 1244 FEET OF 9 5/8" PIPE ON 6-26 WITH 365 S/C FILL UP
RAN _____ FEET OF _____ PIPE ON _____ WITH _____ FILL UP
RAN _____ FEET OF _____ PIPE ON _____ WITH _____ FILL UP
RAN _____ FEET OF _____ PIPE ON _____ WITH _____ FILL UP
RAN _____ FEET OF _____ PIPE ON _____ WITH _____ FILL UP

PITS
PIT DISCHARGE DATE _____ TYPE _____
FIELD ANALYSIS PH _____ Fe _____ mg/l Cl _____ mg/l
I.O. _____ mg/l TOC _____ mg/l

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MAY 31 1989
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL RECORD RECEIVED _____
DMR RECEIVED _____

DATE RELEASED 5-15-89 Reclamation Score 75

Ann Holcomb

05/05/2023

4700501479P
005-1479

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: Natural Resource Management Corporation *34550, 1, 576*
- 2) Operator's Well Number: Western Pocahontas #14 3) Elevation: 2465
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): WEIR
- 6) Proposed Total Depth: 4215 feet
- 7) Approximate fresh water strata depths: 60', 520' 1040'
- 8) Approximate salt water depths: None reported
- 9) Approximate coal seam depths: 145', 260', 405', 545', 550', 990', 1050', 1115', 1215'
- 10) Does land contain coal seams tributary to active mine? Yes / No
- 11) Proposed Well Work: DRILL
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	13-3/8		48	30'	30'	
Fresh Water						38CSR18-11 38CSR18-11
Coal	9-5/8		32.3	1250'	1250'	CTS
Intermediate	7		20	2650'	2650'	100 SKS
Production	4-1/2		10.5	4215'	4215'	38CSR18-11 As required
Tubing						
Liners						

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JUN 06 1988

PACKERS : Kind _____
Sizes _____
Depths set _____

1) Date: March 1, 2023
2) Operator's Well Number
Western Pocahontas 14
3) API Well No.: 47 - 005 - 01479

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>Berwind Land Corp.</u>	Name <u>Lexington Coal Company, LLC</u>
Address <u>300 Summers Street #1050</u>	Address <u>1051 Main St. Suite 2</u>
<u>Charleston, WV 25301</u>	<u>Milton, WV 25541</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Berwind Land Corp</u>
(c) Name _____	Address <u>300 Summers Street # 1050</u>
Address _____	<u>Charleston, WV 25301</u>
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.

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WV Department of Environmental Protection

The reason you received these documents is that you have rights regarding the application which are summarized in the instrument on the reverse. 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 Greylock Conventional, LLC.
By: G.M. Reed
Its: Gavin M. Reed Asset Development Manager
Address 500 Corporate Landing
Charleston, WV 25311
Telephone (304) 925-6100

Subscribed and sworn before me this 22nd day of March 2023
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.

05/05/2023

7019 1120 0001 1698 6790

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<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	\$

Sent To Berwind Land Corp
 Street and Apt. No. or PO Box No. 300 Summers St.
 City, State, ZIP+4® Charleston W 25301

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

7019 1120 0001 1698 6752

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<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	\$

Sent To Berwind Land Co
 Street and Apt. No. or PO Box No. 300 Summers St.
 City, State, ZIP+4® Charleston W 25301

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

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<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	\$

Sent To Lexington Coal Co.
 Street and Apt. No. or PO Box No. 1051 Main St.
 City, State, ZIP+4® Milton W 25541

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

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SURFACE OWNER WAIVER

Operator's Well
Number

47-005-01479

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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WV Department of
Environmental Protection

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

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

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

_____	Date	_____	Name	_____
Signature		By		
		Its		_____
				Date

Signature

Date

05/05/2023

WW-4B

API No. 47-005-01479
Farm Name _____
Well No. Western Pocahontas # 14

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

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Office of Oil and Gas

MAR 24 2023

WV Department of
Environmental Protection

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 _____

WW-9
(5/16)

API Number 47 - 005 - 01479
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) Matts Creek Quadrangle Pilot Knob 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 cutngs expected

-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 G.M. Reed

Company Official (Typed Name) Gavin M. Reed

Company Official Title Asset Development Manager

Subscribed and sworn before me this 22nd day of March, 2023

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 2 Tons/acre *JWA*

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: *[Signature]*
Comments: _____

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Title: *Inspector Delebas* Date: *3-22-23*

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): Matts Creek Quad: Pilot Knob 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.

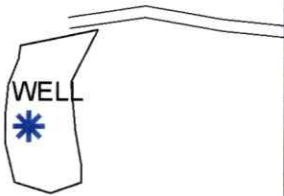
Daily inspections of equipment will be preformed

Signature: _____

Date: _____

Western Pocahontas #14

47-005-01497
WESTERN POCAHONTAS #14



NO PITS OR LAND APPLICATION WILL BE USED

NOT TO SCALE

Access Road

N

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1 inch = 500 feet



GREYLOCK ENERGY

Greylock Conventional, LLC

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

Date: 06/29/21

TOPO SECTION OF USGS
PILOT KNOB 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.

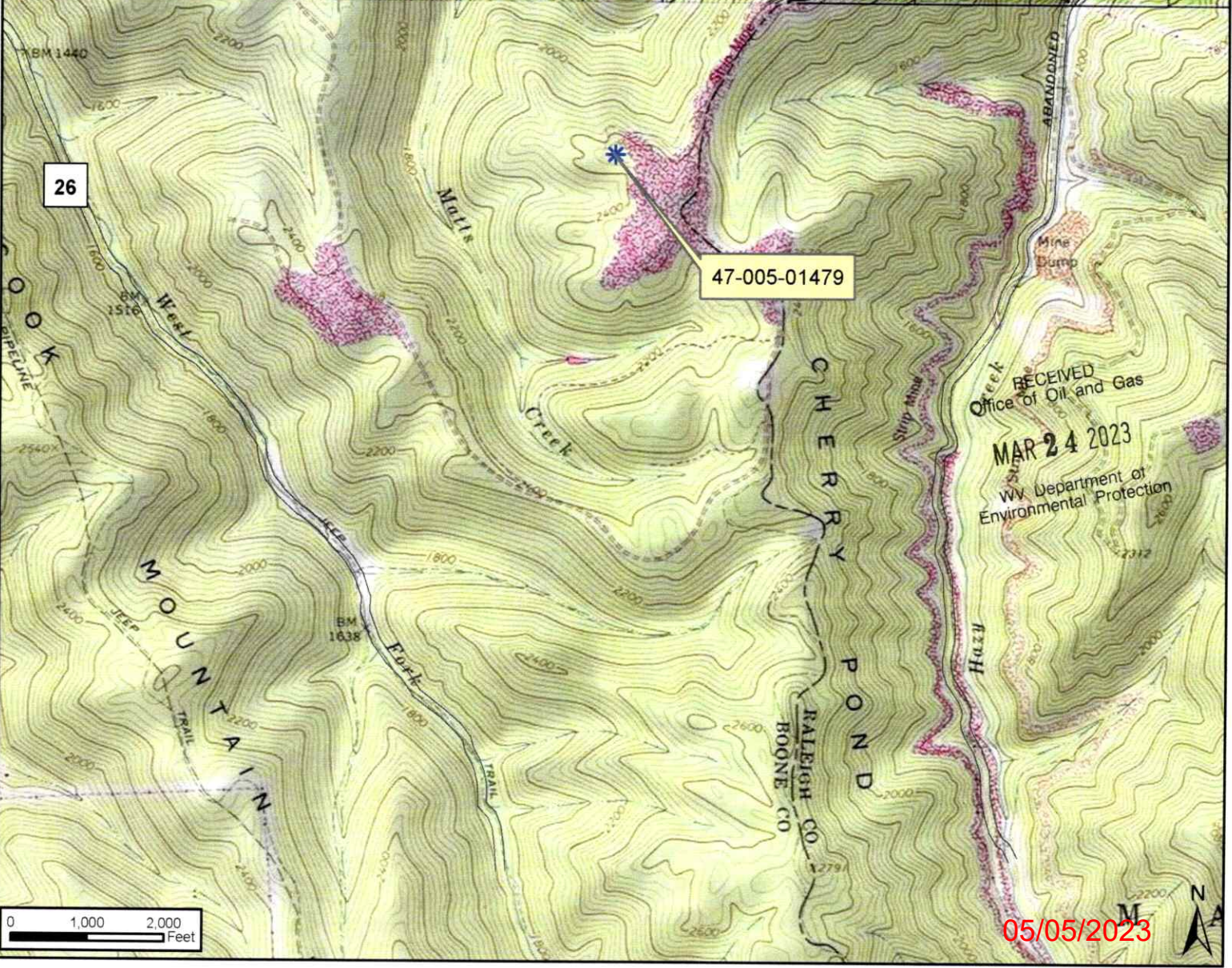
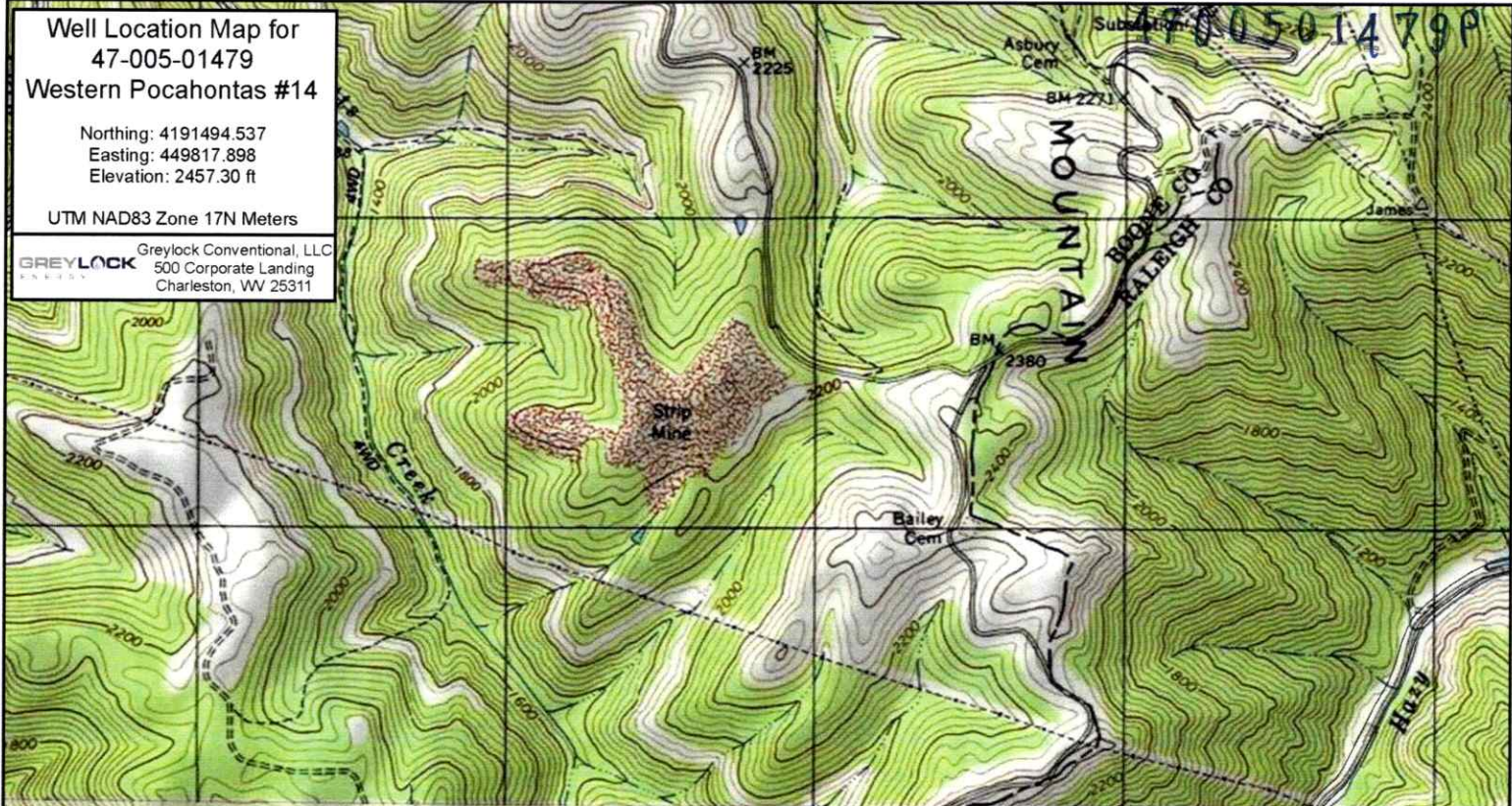
EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR **05/05/2023** PRIOR TO ANY DEVIATION FROM THIS PLAN.

Well Location Map for
 47-005-01479
 Western Pocahontas #14

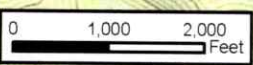
Northing: 4191494.537
 Easting: 449817.898
 Elevation: 2457.30 ft

UTM NAD83 Zone 17N Meters

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



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05/05/2023

4700501479P

WW-7
8-30-06



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

API: 47-005-01479 WELL NO.: 14

FARM NAME: Western Pocahontas

RESPONSIBLE PARTY NAME: Greylock Conventional LLC

COUNTY: Boone DISTRICT: Crook

QUADRANGLE: Pilot Knob

SURFACE OWNER: Berwind Land Corp

ROYALTY OWNER: Energen Resources MAQ, Inc

UTM GPS NORTHING: 4191494.54

UTM GPS EASTING: 449817.90 GPS ELEVATION: 2457.3ft

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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.

G.M. R
Signature

Asset Development Mgr.
Title

3/24/2023
Date

05/05/2023

Production Water Information: (Volumes in Gallons) * 2022 data for H6A wells only. Other wells are incomplete at this time.

4700501479P

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4700501479	Energy Corporation of America	2016	0												
4700501479	Greylock Conventional, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4700501479	Greylock Conventional, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4700501479	Greylock Conventional, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0
4700501479	Greylock Conventional, LLC	2021	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4700501479	Original Loc	Salt Sands (undiff)	Well Record	2080	Reasonable	450	Reasonable	2465	Ground Level
4700501479	Original Loc	Princeton	Drillers E-log pick	2568	Reasonable	146	Reasonable	2465	Ground Level
4700501479	Original Loc	Ravenciff/Avis Ss	Drillers E-log pick	2732	Reasonable	71	Reasonable	2465	Ground Level
4700501479	Original Loc	Avis Ls	Drillers E-log pick	2842	Reasonable	34	Reasonable	2465	Ground Level
4700501479	Original Loc	Maxton	Drillers E-log pick	2942	Reasonable	360	Reasonable	2465	Ground Level
4700501479	Original Loc	Little Lime	Drillers E-log pick	3398	Reasonable	56	Reasonable	2465	Ground Level
4700501479	Original Loc	Big Lime	Drillers E-log pick	3489	Reasonable	334	Reasonable	2465	Ground Level
4700501479	Original Loc	Up Weir	Drillers E-log pick	3920	Reasonable	47	Reasonable	2465	Ground Level
4700501479	Original Loc	Lo Weir	Drillers E-log pick	4049	Reasonable	45	Reasonable	2465	Ground Level
4700501479	Original Loc	Sunbury Sh	Drillers E-log pick	4290	Reasonable	18	Reasonable	2465	Ground Level
4700501479	Original Loc	Berea Ss	Drillers E-log pick	4308	Reasonable	13	Reasonable	2465	Ground Level
4700501479	Original Loc	UDev undfBer/LoHURN	WVGES Staff Geologist	4321	Reasonable	0	Reasonable	2465	Ground Level

Wireline (E-Log) Information:

* There is no Scanned/Paper Log data for this well

* There is no Digitized Log data for this well

* There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

There is no Sample data for this well

4700501479P

PLUGGING PERMIT CHECKLIST

Plugging Permit

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- 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

05/05/2023



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

plugging permit issued 4700501479

1 message

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

Mon, May 1, 2023 at 10:51 AM


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


to whom it may concern, a plugging permit has been issued for 4700501479.

James Kennedy

WVDEP OOG

2 attachments

 **4700501479.pdf**
4771K

 **ir-8 4700501479.pdf**
120K

05/05/2023