



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

Wednesday, June 15, 2022
WELL WORK PLUGGING PERMIT
Vertical Plugging

GREYLOCK CONVENTIONAL, LLC
500 CORPORATE LANDING
CHARLESTON, WV 25311

Re: Permit approval for PARDEE 3 TR 404
47-101-00104-00-00

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: PARDEE 3 TR 404
Farm Name: PARDEE & CURTIN REALTY
U.S. WELL NUMBER: 47-101-00104-00-00
Vertical Plugging
Date Issued: 6/15/2022

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

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.

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

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Office of Oil and Gas
JUN 09 2022

WV Department of
Environmental Protection

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 ___ / Shallowx

5) Location: Elevation 1577 Watershed Right Fork of Holly River
District Holly County Webster Quadrangle Hacker Valley

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 Jeremy James Name R & R Well Services
Address P.O. Box 36 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

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

Work order approved by inspector



Date

6-7-22

06/17/2022



Well Preparation and Plugging Procedure

Well Name: Pardee #3

API Number: 47-101-00104

County/State: Webster County, WV.

Service Date:

Inspector: Jeremy James 1 (304)951-2596

Lat/Long: Lat 80 ° 29 ' 20.3 Long 38 ° 39 ' 39.7 "

Note: Marcellus well drilled and frac'd in 2007. Well test performance did not indicate project to be economic. Well left shut in with no pipeline to produce. 1700psi on tubing string.

Section	Size	Weight/Grade	Depth	Hole Size	TOC	CMNT
Conductor	13 3-8"		36'		Fill	
Surface	9-5/8"		696'	12-3/8"	Surface	
Intermediate	7"	17#/ft	2,367'	8-7/8"	Surface/verify	
Production	4-1/2"	11.6#/ft	6746'	6-1/2"	3700'	
Tubing	2-3/8"		6437'			



06/17/2022

Plugging Procedure

Procedure:

1. Prepare location for service rig
 2. Blow well down
 3. Rig up and RIH with tubing string to TD
 4. Tag Bottom and cleanout if needed
 5. POOH with tubing and prep for cement
 6. RIH and cement from 6697 – 6250'
 7. Pull up and wash tools, WOC
 8. Tag and verify TOC
 - a. Note: Use gel spacer between cement plugs
 9. Free point of 4.5" casing, rip and pull pipe TOC IS 3700' PER CBL JMM
 10. Pump cement plug from 2500' – 2300' ACROSS 7" SHOE.
 11. Free point of 7" casing, rip and pull pipe, IF CASING IS CUT SET 100' CEMENT PLUG ACROSS CUT.
 - a. If not able to pull, PERF and balance squeeze behind casing (PERFORATE & SQUEEZE)
 12. Pump cement plug from 1175' – 1075'
 13. Pump cement plug from 800 – 495'
 14. Pump cement plug from 350' – Surface
 15. Set monument 30" above ground with Well Name, API and plugged date
- 9a. FREE POINT OF 4 1/2" CASING IS AT 3700'. CUT 4 1/2" @ 3600' & SET 200' CLASS A CEMENT PLUG ACROSS CUT FROM 3700' TO 3500'.

Total estimated cement volume:

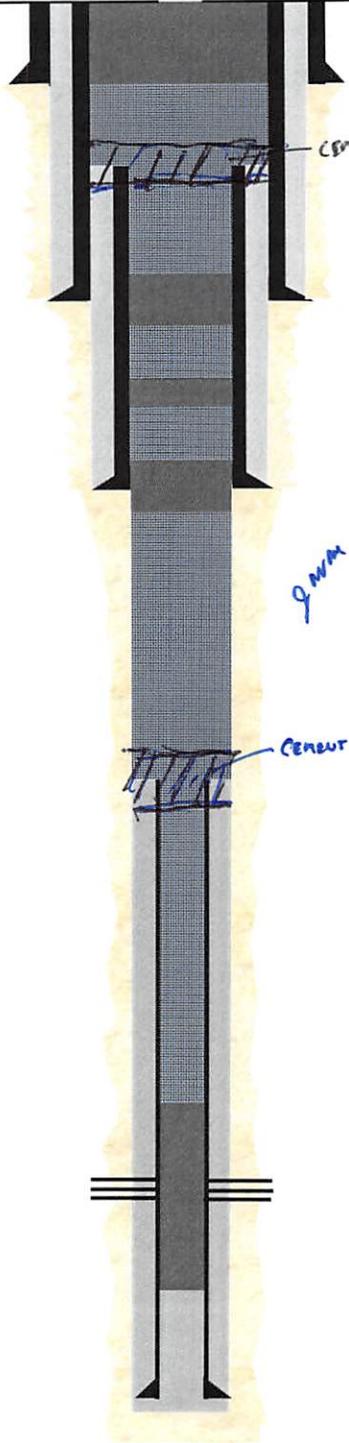
Total Volume for Cement/Gel									
Depths	Total Depth	bbbl/ft	ft ³ /ft	Total bbls	Total ft ³	Yield	Total Cement	Comments	
3700 - 6247'	450	0.02	0.09	6.98	39.29	1.18	33.29	Cover Perfs	
2450 - 2150'	300	0.04	0.23	12.45	69.13	1.18	58.58	Cover 7" shoe	
1175-1075'	100	0.04	0.23	4.15	23.31	1.18	19.75	Cover Salt water @ 1124'	
800 - 496	304	0.04	0.23	12.62	70.86	1.18	60.05	Cover Coal String	
0-350'	350	0.08	0.43	27.06	151.94	1.18	128.76	Cover water zone and fill to surface	
							Total Cement	300	

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Plugged Wellbore Diagram 4710100104P

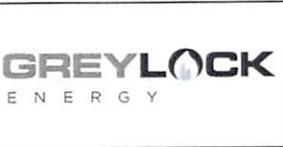
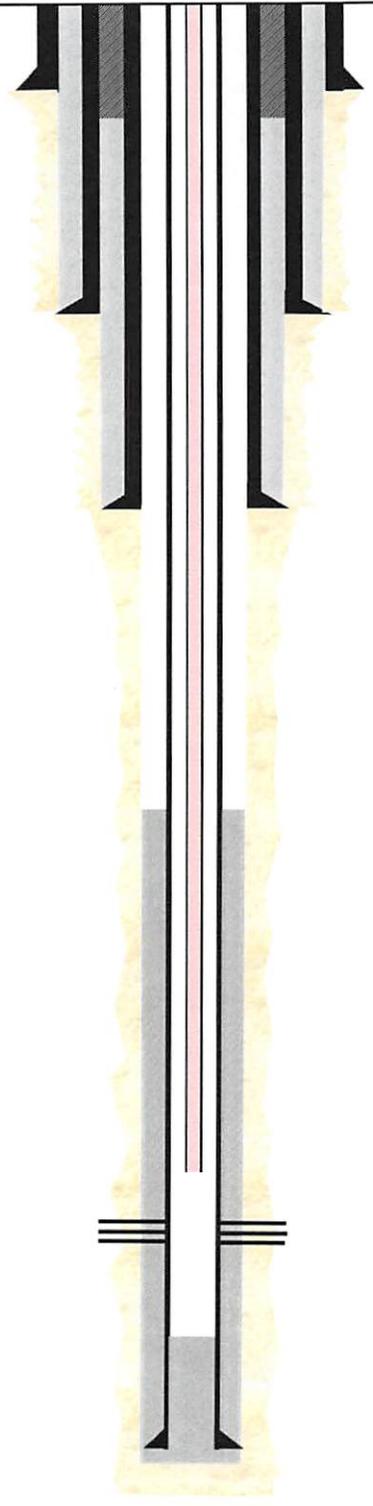
	Greylock Energy, LLC Pardee #3 API #: 47-101-00104 Casing and Cementing Details (Current) Webster County, WV		
	Casing Size	Hole Size	Detailed Description
	13-3/8" Conductor @ 36'		Water @ 140' Water @ 295' Back filled in
	9-5/8" Casing @ 696'	12 3/8"	Circulated cement to surface Salt water 1124'
	7" Casing @ 2367'	8 7/8"	Casing LS-R3 7" 17#/ft. Enough cement pumped for volume, but no mention of circulation
TOC from 8/10/07 CBL @ 3700'			
2 3/8" EOT @ 6437' (5' perf sub)			
Perfs @ 6450 - 6500'			
TOC plug @ 6697'			
TD @ 6746'	6 1/2"	Cemented w/ 300 sks, 500# gel 11.6#/ft N-80, 4.5"	



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Current Wellbore

4710100104P

			Greylock Energy, LLC	
			Pardee #3	
			API #: 47-101-00104	
			Casing and Cementing Details (Current)	
			Webster County, WV	
Casing Size	Hole Size	Detailed Description		
13-3/8" Conductor @ 36'		Back filled in		
9-5/8" Casing @ 696'	12 3/8"	Circulated cement to surface		
7" Casing @ 2367'	8 7/8"	Casing LS-R3 7" 17#/ft. Enough cement pumped for volume, but no mention of circulation		
TOC from 8/10/07 CBL @ 3700'				
2 3/8" EOT @ 6437' (5' perf sub)				
Perfs @ 6450 - 6500'				
TOC plug @ 6697'				
TD @ 6746'	6 1/2"	Cemented w/ 300 sks, 500# gel 11/.6#/ft N-80, 4.5"		

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4710100104P

WR-35

07 Nov 2007

API # 47-10100104

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Farm name: Pardee

Operator Well No.: ECA/Pardee 3

LOCATION: Elevation: 1577' Quadrangle:Hacker Valley
District:Holly County:Webster
Latitude: 80° 29' 20.3 "
Longitude: 38° 39' 39.7 "

Company: EASTERN AMERICAN ENERGY CORPORATION
501 56th Street
Charleston, WV 25328

Table with 4 columns: Casing & Tubing, Used in Well, Left in Well, Cement Fill Up Cu. Ft.
Rows: 9-5/8", 7", 4-1/2"

Agent: John Paletti

Inspector: Craig Duckworth

Permit Issued: 01/11/2007

Well work commenced: 07/13/2007

Well work completed: 10/11/2007

Verbal plugging

Permission granted on:

Rotary X Cable Rig

Total Depth (feet): 6876'

Fresh water depths (ft): 140', 295'

Salt-water depths (ft): 1124'

Is coal being mined in area? (Y/N) No

Coal Depths (ft): N/A

Open Flow Data

Gas: Initial open flow N/A MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests Day
Static rock pressure N/A psi (surface pressure) after Hours
1st Producing Formation Marcellus Pay zone depth (ft) 6450' - 6500'
2nd Producing Formation Pay zone depth (ft)
3rd Producing Formation Pay zone depth (ft)
4th Producing Formation Pay zone depth (ft)

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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 WELLBORE.

John Paletti, Agent
For: EASTERN AMERICAN ENERGY CORPORATION

By: Designated Agent
Date: 09 Jan 2007

06/17/2022

4710100104P

ECA/Pardee

ECA/Pardee 3 WR35

STAGE ONE: Marcellus
Shots 6450' - 6500'
60Q Foam Frac 71482 lbs sand. 1.778 MMcf
N2

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06/17/2022

FORMATION COLOR, HARD OR SOFT	TOP FEET	BOTTOM FEET
K.B.	0	10
Fill	10	20
Sand	20	50
Sandy Shale	50	63
Sand	63	172
Sandy Shale	172	444
Salt Sand	444	641
Salt Sand	641	756
Coal	756	760
Salt Sand	760	800
Sandy Shale	800	815
Shale "R.R."	815	955
Sandy Shale	955	1021
Sand	1021	1037
Sandy Shale	1037	1170
Shale	1170	1250
Little Lime	1250	1290
Blue Monday	1290	1340
Big Lime	1340	1570
Sandy Shale	1570	1655
Shale	1655	1765
Gantz	1765	1825
Shale	1825	1840
Gordon	1840	1870
Shale	1870	

REMARKS
Including indication of all fresh & salt
water, coal, oil & gas

Hole damp @ 140'
2" H₂O @ 295'
Damp @ 1124'

Gas Checks:

1000' - N/S
1325' - N/S
2100' - N/S
4020' - N/S
4979' - N/S
5578' - N/S
5795' - N/S
6009' - N/S
6630' - N/S
Collars' - N/S

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4710100104P

4710100104	Energy Corporation of America	2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4710100104	Greylock Conventional, LLC	2017	0	0												
4710100104	Greylock Conventional, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4710100104	Greylock Conventional, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4710100104	Greylock Conventional, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2021 data for H6A wells only. Other wells are incomplete :

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4710100104	Energy Corporation of America	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4710100104	Energy Corporation of America	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4710100104	Energy Corporation of America	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4710100104	Greylock Conventional, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4710100104	Greylock Conventional, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4710100104	Greylock Conventional, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2021 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4710100104	Greylock Conventional, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4710100104	Greylock Conventional, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4710100104	Greylock Conventional, LLC	2020	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
4710100104	Original Loc	unidentified coal	Well Record	756	Reasonable	4	Reasonable	1577	Ground Level
4710100104	Original Loc	Little Lime	Well Record	1250	Reasonable	40	Reasonable	1577	Ground Level
4710100104	Original Loc	Blue Monday	Well Record	1290	Reasonable	50	Reasonable	1577	Ground Level
4710100104	Original Loc	Big Lime	Well Record	1340	Reasonable	230	Reasonable	1577	Ground Level
4710100104	Original Loc	Gantz	Well Record	1765	Reasonable	60	Reasonable	1577	Ground Level
4710100104	Original Loc	Gordon	Well Record	1840	Reasonable	30	Reasonable	1577	Ground Level
4710100104	Original Loc	Fifth	Well Record	2029	Reasonable	54	Reasonable	1577	Ground Level
4710100104	Original Loc	Benson	Well Record	3930	Reasonable	25	Reasonable	1577	Ground Level
4710100104	Original Loc	Alexander	Well Record	4327	Reasonable	33	Reasonable	1577	Ground Level
4710100104	Original Loc	Burket Sh Mbr	Electric Log: RI35 Dvn Sh	6462	Reasonable	38	Reasonable	1587	Log Datum
4710100104	Original Loc	Tully Ls	Electric Log: RI35 Dvn Sh	6500	Reasonable	2	Reasonable	1587	Log Datum
4710100104	Original Loc	Hamilton Grp	Electric Log: RI35 Dvn Sh	6502	Reasonable	118	Reasonable	1587	Log Datum
4710100104	Original Loc	Mahantango Fm	Electric Log: RI35 Dvn Sh	6502	Reasonable	54	Reasonable	1587	Log Datum
4710100104	Original Loc	Marcellus Fm	Well Record	6556	Reasonable	61	Reasonable	1577	Ground Level
4710100104	Original Loc	Marcellus Fm	Electric Log: RI35 Dvn Sh	6556	Reasonable	64	Reasonable	1587	Log Datum
4710100104	Original Loc	upper Marcellus A	Electric Log: RI35 Dvn Sh	6556	Reasonable	20	Reasonable	1587	Log Datum
4710100104	Original Loc	Up Marcellus	Electric Log: RI35 Dvn Sh	6556	Reasonable	32	Reasonable	1587	Log Datum
4710100104	Original Loc	upper Marcellus B	Electric Log: RI35 Dvn Sh	6576	Reasonable	12	Reasonable	1587	Log Datum
4710100104	Original Loc	drillers' Cherry Vly	Electric Log: RI35 Dvn Sh	6588	Reasonable	1	Reasonable	1587	Log Datum
4710100104	Original Loc	lo Marcellus	Electric Log: RI35 Dvn Sh	6589	Reasonable	26	Reasonable	1587	Log Datum
4710100104	Original Loc	Marcellus trans zone	Electric Log: RI35 Dvn Sh	6615	Reasonable	5	Reasonable	1587	Log Datum
4710100104	Original Loc	Onondaga Ls	Well Record	6617	Reasonable	3	Qstnble Pick	1577	Ground Level
4710100104	Original Loc	Onesquethaw Grp	Electric Log: RI35 Dvn Sh	6620	Reasonable			1587	Log Datum
4710100104	Original Loc	Huntersville Chert	Well Record	6620	Reasonable			1577	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O
4710100104	0	6759		G,D,N,I,T,SC*	Y	N	0	6759	690	6759	690	6759	690	6759	690	6759	3730	6680	

Comment: *logs: caliper, tension,CCL, amplitude, VDL, bit size, PE, audio, travel time

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click [here](#)

4710100104

FILENAME
4710100104gbo.tif
4710100104gdneitco1.tif
4710100104gdneitco2.tif
4710100104gdnisco.tif

geologic log types:

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other¹
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

- b cement bond
- c caliper
- o other¹
- p perforation depth control or perforate

¹other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

1) Date: April 19, 2022
2) Operator's Well Number
Pardee # 3

3) API Well No.: 47 - 101 - 00104

RECEIVED
Office of Oil and Gas

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

JUN 09 2022

WV Department of Environmental Protection

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Pardee & Curtain Timberlands</u>	Name _____
Address <u>135 Corporate Center Drive</u>	Address _____
<u>Scott Depot, WV 25560</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Pardee Minerals, LLC.</u>
	Address <u>135 Corporate Center Drive</u>
	<u>Scott Depot, WV 25560</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Jeremy James</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 36</u>	Name _____
<u>Clendenin, WV 25045</u>	Address _____
Telephone _____	

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

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

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

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

Well Operator Greylock Conventional, LLC
 By: Travis Wendel
 Its: Permitting Supervisor
 Address 500 Corporate Landing
Charleston, WV 25311
 Telephone 304-985-6100

Subscribed and sworn before me this 9th day of May 2022

My Commission Expires July 20, 2025 Notary



Oil and Gas Privacy Notice Melissa A. Knuckles

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.

4710100104P

7021 2720 0002 8278 8521

7021 2720 0002 8278 8514

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 Certified Mail Restricted Delivery \$10.00
 Adult Signature Required \$0.00
 Adult Signature Restricted Delivery \$4.00
 Postage \$1.76
 Total Postage and Fees \$8.56
 25303 06/03 16

Sent To Purdue Minerals LLC
 Street and Apt. No. 135 Corporate Center DR
 City, State, ZIP+4® Scott Depot WV 25560
 PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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 Return Receipt (electronic) \$0.00
 Certified Mail Restricted Delivery \$10.00
 Adult Signature Required \$0.00
 Adult Signature Restricted Delivery \$4.00
 Postage \$1.76
 Total Postage and Fees \$8.56
 2930316/03/2022

Sent To Purdue + Orphan Timberlands
 Street and Apt. No. or PO Box No. 135 Corporate Center DR
 City, State, ZIP+4® Scott Depot WV 25560
 PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

4710100104P

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

*Pardee + Curtis Timberlands
135 Corporate Center Dr
Sault Depot, WI 55600*



9590 9402 5486 9249 1569 80

2. Article Number (Transfer from service label)

702J 2720 0002 827B 852J

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Agent

B. Received by (Printed Name)

Addressee

C. Date of Delivery

D. Is delivery address different from item 1? If YES, enter delivery address below:

Yes
 No

3. Service Type

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

Domestic Return Receipt

RECEIVED
Office of Oil and Gas

JUN 09 2022

WV Department of
Environmental Protection

06/17/2022

CERTIFIED MAIL

PREYLOCK

500 Corporate Landing
Charleston, WV 25311

E N E R G Y



7021 2720 0002 8278 8521

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OFFICIAL

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Return Receipt (hardcopy) \$

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Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent to Pardee + Curtain Tim

Street and Apt. No., or PO Box No. 135 Corporate Center Dr

City, State, ZIP+4[®] Scott Depot WV 26047

PS Form 3800, April 2015 PSN 7450-02-000-9047 See Reverse

7021 2720 0002 8278 8521

Pardee + Curtain Timberlands
135 Corporate Center Drive
Scott Depot, WV 26047

4710100104P

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Office of Oil and Gas

JUN 09 2022

WV Department of
Environmental Protection

06/17/2022

SURFACE OWNER WAIVER

4710100104P

Operator's Well
Number

47-101--00104

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

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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		Pardee & Curtain Timerlands
		By _____
		Its _____

		Date _____

Signature

Date

06/17/2022

WW-4B

4710100104P

API No. 47-101-00104
 Farm Name PARDEE # 3
 Well No. PARDEE # 3

**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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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 _____

06/17/2022

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) Right Fork of Holley River Quadrangle Hacker Valley

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 _____)

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

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

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

Additives to be used in drilling medium? _____

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

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

-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]
Company Official (Typed Name) Travis Wendel
Company Official Title Permitting Supervisor

Subscribed and sworn before me this 9th day of May, 2022

Melissa A. Knuckles

My commission expires July 20, 2025



Proposed Revegetation Treatment: Acres Disturbed 1.0 Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-10-20

Fertilizer amount 500 lbs/acre

Mulch Hay Bales Tons/acre

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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:

Seed & mulch all ~~at~~ disturbed areas
reclaim Road w/ water breaks ~~at~~ on hill to location

Title: inspector OOG

Date: 6-7-22

Field Reviewed? () Yes

() No

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

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Environmental Protection

Operator Name: Greylock Conventional, LLC.

Watershed (HUC 10): Right Fork of Holley River

Quad: Hacker Valley

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

- 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

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

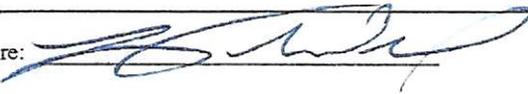
Greylock will not use any waste material for deicing or fill material on property

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

N/A SEE SECTION 2

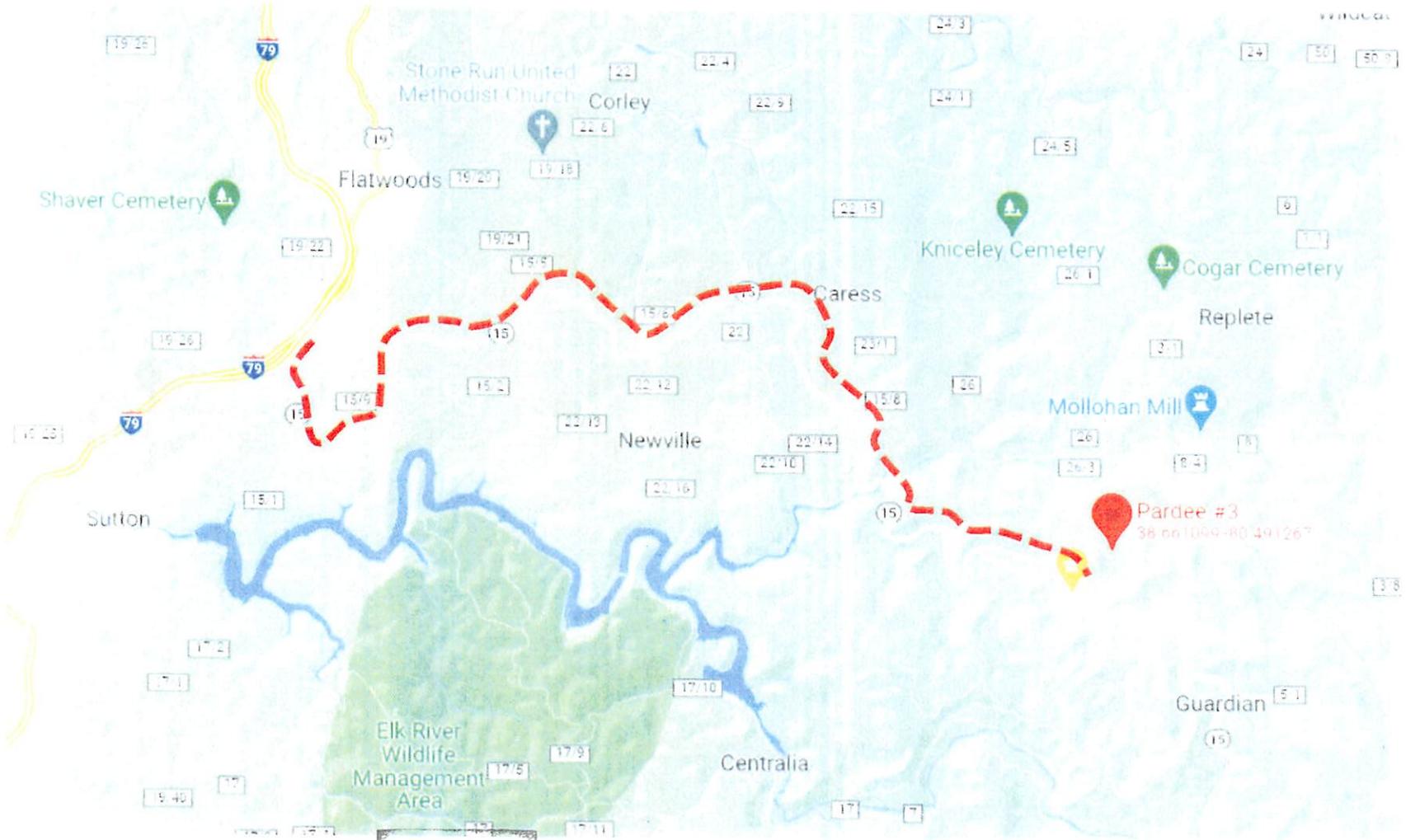
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

Daily inspections of equipment will be preformed

Signature: 

Date: 5-9-22

Truck Route – Pardee #3



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4710100104P

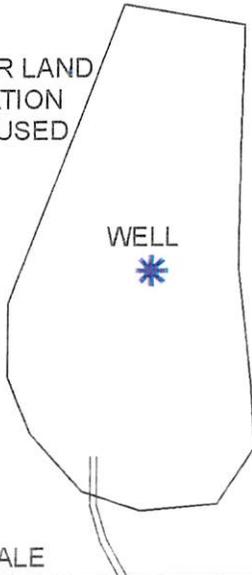
PARDEE #3



47-101-00104

PARDEE #3

NO PITS OR LAND APPLICATION WILL BE USED



NOT TO SCALE

Access Road

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1 inch = 500 feet



BM
1054

15

SUTTON
LAKE

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
HACKER VALLEY 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 D.E.P. PRIOR TO ANY CEVIATION FROM THIS PLAN.

06/17/2022

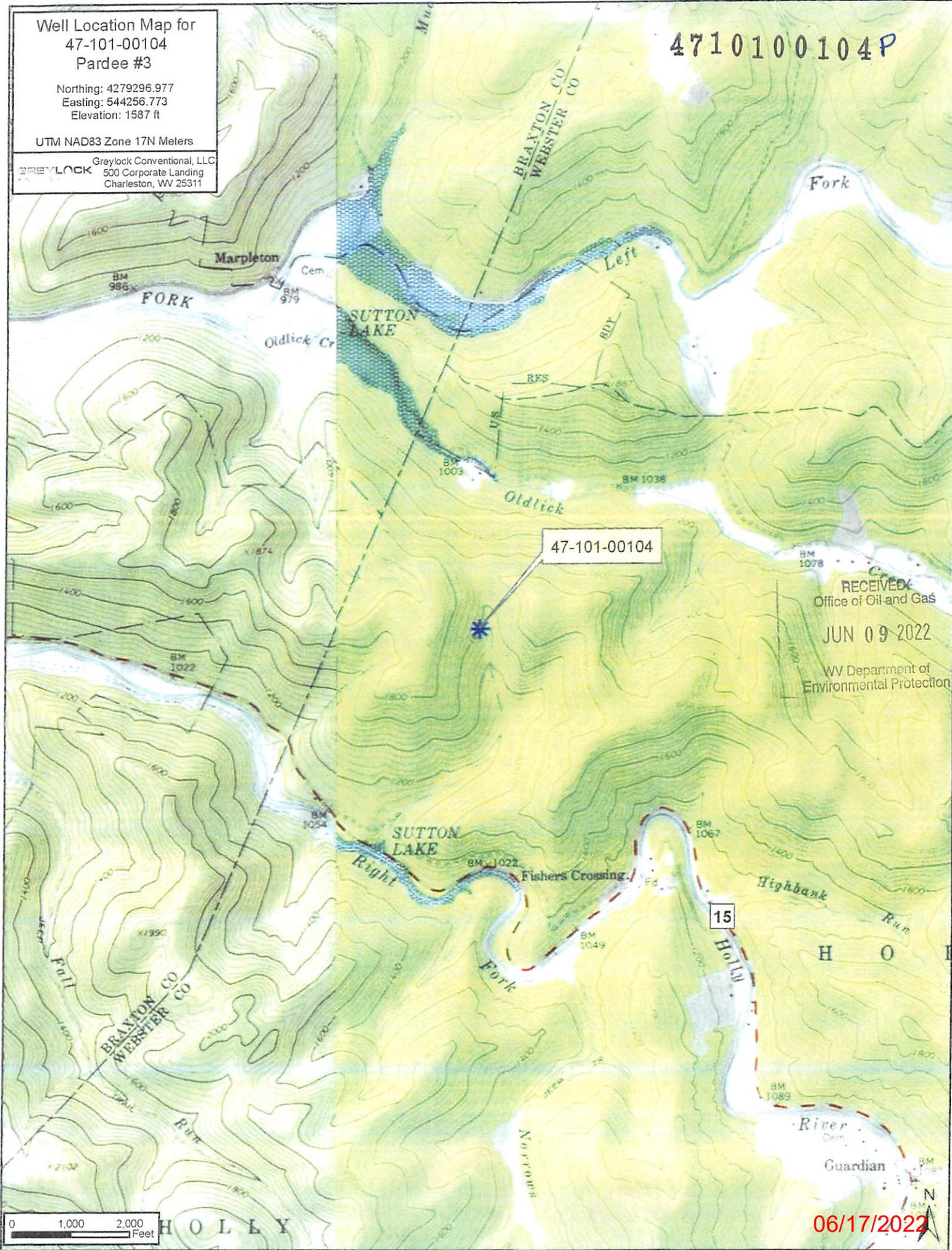
Well Location Map for
47-101-00104
Pardee #3

Northing: 4279296.977
Easting: 544256.773
Elevation: 1587 ft

UTM NAD83 Zone 17N Meters

Greylock Conventional, LLC
500 Corporate Landing
Charleston, WV 25311

4710100104P



47-101-00104

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WV Department of
Environmental Protection

0 1,000 2,000 Feet

06/17/2022

WW-7
8-30-06



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

API: 47-101-00104 WELL NO.: _____

FARM NAME: Pardee & Curtain Realty, LLC.

RESPONSIBLE PARTY NAME: Greylock Conventional, LLC

COUNTY: WEBSTER DISTRICT: Holly

QUADRANGLE: Hacker Valley

SURFACE OWNER: Pardee & Curtain Timberlands

ROYALTY OWNER: Pardee Minerals, LLC.

UTM GPS NORTHING: 4279296.97

UTM GPS EASTING: 544256.77 GPS ELEVATION: 483.7 (1587.05 ft)

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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.

Signature

Title

Date

Permitting Supervisor

5-9-22

06/17/2022

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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



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

Plugging Vertical Well Work Permit API: (47-101-00104)

1 message

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

Wed, Jun 15, 2022 at 7:49 AM

To: Travis Wendel <twendel@greylockenergy.com>, Max Cochran <cochran@assessor.state.wv.us>, "James, Jeremy E" <jeremy.e.james@wv.gov>

I have attached a copy of the newly issued well [permit](#) numbers:

47-101-00104 - PARDEE 3 TR 404

These will serve as your copy.

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE

Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

2 attachments

 **47-101-00104 - Copy.pdf**
6038K

 **IR-8 Blank.pdf**
237K

06/17/2022



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

Fwd: Plugging Vertical Well Work Permit API: (47-101-00104)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>
To: mcochran@wvassessor.com

Wed, Jun 15, 2022 at 7:51 AM

Thank you,

Wade A. Stansberry**Environmental Resource Specialist 3****West Virginia Department of Environmental Protection****Office of Oil & Gas****601 57th St. SE****Charleston, WV 25304****(304) 926-0499 ext. 41115****(304) 926-0452 fax****Wade.A.Stansberry@wv.gov**

----- Forwarded message -----

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

Date: Wed, Jun 15, 2022 at 7:49 AM

Subject: Plugging Vertical Well Work Permit API: (47-101-00104)

To: Travis Wendel <twendel@greylockenergy.com>, Max Cochran <cochran@assessor.state.wv.us>, James, Jeremy E <jeremy.e.james@wv.gov>

I have attached a copy of the newly issued well permit numbers:

47-101-00104 - PARDEE 3 TR 404

These will serve as your copy.

Thank you,

Wade A. Stansberry**Environmental Resource Specialist 3****West Virginia Department of Environmental Protection****Office of Oil & Gas****601 57th St. SE****Charleston, WV 25304****(304) 926-0499 ext. 41115****(304) 926-0452 fax****Wade.A.Stansberry@wv.gov**

2 attachments **47-101-00104 - Copy.pdf**
6038K **IR-8 Blank.pdf****06/17/2022**

6/15/22, 7:52 AM
237K

State of West Virginia Mail - Fwd: Plugging Vertical Well Work Permit API: (47-101-00104)

06/17/2022