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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, August 8, 2022

WELL WORK PLUGGING PERMIT  
Vertical Plugging

CHESAPEAKE APPALACHIA, L.L.C.  
6100 N. WESTERN AVE.  
OKLAHOMA CITY, OK 73118

Re: Permit approval for 22680  
47-023-00030-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin  
Chief

A blue ink signature of James A. Martin is written over the typed name and title.

Operator's Well Number: 22680  
Farm Name: BURGESS, LEON & JUDY C.  
U.S. WELL NUMBER: 47-023-00030-00-00  
Vertical Plugging  
Date Issued: 8/8/2022

Promoting a healthy environment.

08/12/2022

# 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

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

4702300030P

WW-4B  
Rev. 2/01

1) Date July 7, 2022  
2) Operator's Well No. LEON & LEROY BURGESS 1 22680  
3) API Well No. 47-23 - 00030

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 \_\_\_ or Underground storage \_\_\_) Deep \_\_\_ / Shallow \_\_\_

5) Location: Elevation 2670' Watershed \_\_\_  
District UNION County GRANT Quadrangle MOUNT STORM

6) Well Operator CHESAPEAKE APPALACHIA LLC 7) Designated Agent ERIC HASKINS - MANAGER REG OPS  
Address PO BOX 18496 Address 14 CHESAPEAKE LANE  
OKLAHOMA CITY, OK 73154-0496 SAYRE, PA 18840

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name GAYNE J KNITOWSKI Name PLANTS AND GOODWIN  
Address 601 57TH STREET SE Address 360 HIGH STREET  
CHARLESTON, WV 25304 BRADFORD, PA 16701

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

SEE ATTACHED

5 1/2" CASING MAY HAVE TOC ≈ 6700'

9 5/8" CASING MAY NOT BE CEMENTED TO SURFACE,

gum

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Environmental Protection

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

Work order approved by inspector Gayne Knitowski Date 7-11-2022  
Digitally signed by Gayne Knitowski Date: 2022.07.11 16:10:27 -0400

08/12/2022

# CHESAPEAKE

## ENERGY

### Leon & Leroy Burgess 1

Grant County, WV  
 Lat. 39.28545, -79.15268  
 API: 4702300030

#### Plug and Abandonment Procedure

PN: 822680  
 AFE: TBD  
 WO: TBD

#### EXECUTIVE SUMMARY

The Leon & Leroy Burgess 1 well in Grant County, West Virginia will be plugged and abandoned. Chesapeake has agreed to P&A this well in accordance to the request of the WVDEP. No future potential remains in this wellbore.

#### Operational Summary:

The Leon & Leroy Burgess 1 plug & abandonment procedure will consist of pulling 2-3/8" tubing and a CIBP will be set above the top perf. A cement plug will be set in the 5-1/2" casing above the CIBP. A CBL will be run to find TOC behind 5-1/2" casing and cut pipe 100' above and pull same. All free pipe should attempt to be pulled 1-1.5x string weight. Another CBL will be run on 9 5/8" casing to verify TOC behind 9 5/8" casing and will be pulled if the TOC is verified in open hole. A cement plug will be set in the open hole portion and across 9-5/8" shoe. There will be a final cement plug set at surface after ensuring no annular gas exists.

#### CASING AND TUBULAR DATA

Casing Detail										
String	OD (in)	ID (in)	Weight (lbs./ft)	Grade	Casing Cap (bbl/ft)	Annular Cap (bbl/ft)	Top (ft-MD)	Btm (ft-MD)	TOC	Hole Size
Conductor	20									
Surface	13.375			N/A			0	135	0	
Intermediate	9.625	8.84	38.7	N/A	0.0759	0.05578	0	2,205	0	12.25
Production	5.5	4.78	19.8	N/A	0.0222	0.04499	0	9,698	8,450	8.75

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## Plug and Abandonment Procedure

Cement Summary

TOC OF 5 1/2" CASING MAY BE ≈ 6700', IF SO PLUG 2 WILL BE FROM 6800' TO 6600'.

Estimated Plug Set Depths and Cement Needed								
Item	Plug Height	Top of Plug	Bottom of Plug	Cement Type	% Excess Cmt	Cement Sacks	Gel Volume (BBL)	Displacement Volume (BBL)
Plug 1	200'	9,180'	9,380'	Class H	0%	24	0	36
Plug 2	200'	8,350'	8,550'	Class H	20%	85	14.3	32
Plug 3	200'	2,105'	2,305'	Class A	0%	73	608	7
Plug 4	235'	0'	235'	Class A	0%	85	0	0

Plugging Details					
Plug #	Depth Code	Depth	Csg or Open Hole?	Peforate?	Cmt Behind Csg
Plug 1	CIBP	9,380'	Casing	N/A	Yes
Plug 2	5-1/2" Stub Plug	8,550'	Open Hole	N/A	No
Plug 3	9-5/8" Casing Plug	2,305'	Casing	N/A	Yes
Plug 4	Surface Plug	235'	Casing	N/A	Yes

\*All volumes assume 2-3/8" tubing is used

\*\* Class H assumes 16.4 ppg density, 1.05 cu-ft/sk yield

\*\*\*Class A assumes 15.6 ppg density, 1.18 cu-ft/sk yield

RKB	Variable
KOP	N/A
Depth of Top Perf (MD)	9,387'
Class H Cement Yield	1.05
Class H Density	16.4
Class A Cement Yield	1.18
Density	15.6

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**Plug and Abandonment Procedure****ABANDONMENT PROCEDURE**

1. All personnel on site are required to always have gas monitors during this operation.
2. **Safety is the highest priority.** Hold PJSA meetings each morning and prior to all significant operations. Review critical parameters, objectives and emergency action plans.
3. Prior to rig arriving on site:
  - a. Make sure all casing valves are readily accessible and suck down water from the cellar.
  - b. Perform 72-hour pressure build up test on all annuli. (done)
  - c. Make sure A, B, and C section flanges are properly identified.
  - d. Verify regulatory permit and approval to plug and abandon.
  - e. Notify WVDEP, municipality and Landowner 1 week prior to commencing operations.
4. MIRU on containment
5. Pump 212bbl FW through production tubing to kill well
6. RU slickline and remove 3 x pump-through plugs from production tubing
7. NU 7-1/16" 5k double ram BOP
8. POOH 2-3/8" tubing
9. RU wireline; run CBL on 5-1/2" casing to verify TOC @ 8,450'; set CIBP above perfs @ 9,380' TOC MAY BE ≈ 6700'
10. TIH w/ work string to 9,380'
11. **Plug #1 (Bottom Hole Plug)** Pump 4bbl (24sks) of **16.4ppg/1.05 yield** Class H neat slurry on top of CIBP from **9,380' – 9,180'**. Displace with 36bbl of FW for a slight under displacement. PU to 8,680' and reverse circulate 70bbl. WOC.
12. Tag cement; RU wireline; cut 5-1/2" casing @ ~8,450'.
13. ND double ram BOP. RD work floor. Spear 5-1/2" casing and PU to remove head slips. ND well head. NU 7-1/16" 5k annular and double ram BOPs. RU work floor.
14. POOH 5-1/2" casing.
15. TIH with 2-3/8" work string to 9,180'.
16. **Plug #2 (5-1/2" Casing Stub Plug)** Pump 14.3bbl of gel from 9,180' to 8,550'. PU with work string to 8,550'. PLUG 2 MAY BE FROM 6800' TO 6600'  
**Pump 15.9bbl (85sks) of 16.4ppg/1.05 yield Class H slurry with LCM from 8,550' – 8,350'** across the stub and into 8-3/4" open hole (includes 20% excess). Displace with 32bbl fresh water for a 1.5bbl under displacement. PU to 7,850' and reverse circulate with 60bbl fresh water (two times tubing capacity). WOC.
17. Tag cement. RU wireline. Run CBL on 9-5/8" intermediate casing to verify cement to surface.
18. **Plug #3 (9-5/8" Casing Seat Plug)** TIH with tubing to 8,350'. Pump 608bbl of gel. PU with work string to 2,305'. Pump 15.2bbl (73sks) of **15.6ppg/1.18 yield Class A neat slurry from 2,305' – 2,105'**. Displace with 7bbl FW for a 1.5bbl under displacement. POOH (do not reverse circulate). WOC.
19. Tag plug. In the event that intermediate casing is not cemented to surface, cut intermediate casing 100' above TOC and pull casing

**Plug and Abandonment Procedure**

- 20. RIH with work string to 235'.
- 21. **Plug #4 (13-3/8" Casing Shoe Plug)** Pump 17.8bbl (85sks) of 15.6ppg/1.18 yield Class A neat slurry from 235' - 0'.

*Set monument per WVDEP specifications*

Gayne  
Knitowski

Digitally signed by  
Gayne Knitowski  
Date: 2022.07.11  
16:16:07 -0400

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Environmental Protection

Plug and Abandonment Procedure

ATTACHMENTS

- Current Well Bore Diagram Schematic
- Proposed Plugged Well Bore Diagram Schematic

Original Hole, 7/2/2022

MD (ft KB )	Vertical schematic (actual)	Vertical schematic (proposed)	Column list (proposed)			
			Des	Depth MD	Length	OD
	Casing Joints; 13.0-134.0; 121.00; 13 3/8; 1-1 Float Shoe; 134.0-135.0; 1.00; 13 3/8; 1-2  Casing Joints; 13.0-2,204.0; 2,191.00; 9 5/8; 8.84; 2-1 Float Shoe; 2,204.0-2,205.0; 1.00; 9 5/8; 8.84; 2-2  Casing Joints; 13.0-9,697.0; 9,684.00; 5 1/2; 4.78; 3-1  Plug & Perf; 9,387.0-9,448.0; 12/7/1993  Plug & Perf; 9,580.0-9,590.0; 12/7/1993  Float Shoe; 9,697.0-9,698.0; 1.00; 5 1/2; 4.78; 3-2		100' Surf Cmt Plug Cement Plug  100' Int Shoe Cmt Plug from 2,155' - 2,205.0' Cement Plug  100' Elevation Cmt Plug from 2,620' - 2,670.0' Cut and Pull 5 1/2" Csg @ 8,350' kb 100' Cement Plug from 8,300' - 8,400' kb  Gelled Water Cement Plug Cast Iron Bridge Plug  263' Cement Plug from 9,287' - 9,550' kb	50.0 13.0-235.0  2,205.0 2,105.0-2,305.0  2,670.0 8,350.0 8,350.0  8,550.0-9,180.0 9,180.0-9,380.0 9,380.0-9,381.0  9,500.0	0.00 222.00  0.00 200.00  0.00 0.00 0.00  630.00 200.00 1.00  0.00	 8  8 3/4    8 3/4 4.78 4.78    

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**Plug and Abandonment Procedure****PERSONNEL / PHONE LIST**

<b>Title</b>	<b>Name</b>	<b>Office</b>	<b>Mobile</b>
Production Superintendent	Chris Sprute	-	(318)-771-2769
Production Manager	John Van Gels	(405)-766-8012	(636)-448-1104
Production Supervisor	Keeley Bergman	(405)-766-8438	(918)-991-5520
Production Engineer	Rachel Greening	(405) 935-2202	(817) 357-2288
Support Production Engineer	Brent Antolik	(405)-400-7461	(570)-592-1589

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WR-35

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AUG 03 1994  
Permitting  
Office of Oil & Gas

4702300030P

API 47-023-0030

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

Well Operator's Report of Well Work

Farm name: Burgess

Operator Well No.: 22680

LOCATION: Elevation 2670'

Quadrangle: MOUNT STORM

District: UNION

County: GRANT

Latitude: 79°50' Feet South of 79° Deg. 17 Min. 08 Sec.

Longitude: 22°50' Feet West of 79° Deg. 09 Min. 10 Sec.

Company: COLUMBIA NATURAL RESOURCES  
P. O. BOX 6070  
CHARLESTON, WV 25362-0070

Agent: JOSEPH E. CAMPBELL

Inspector: Phillip Tracy  
Permit Issued: 09/02/93  
Well Work Commenced: 10/11/93  
Well Work Completed: 02/01/94

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13/3/8	140	124	90
9-5/8	2239	2205	690
5-1/2	9720	9698	758
2-3/8	-	9395	-

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 9720  
Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): \_\_\_\_\_

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth (ft) 9386 - 9459  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 750 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 10 days test Hours  
Static rock Pressure 3460 psig (surface pressure) after 10 days test Hours

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

For: COLUMBIA NATURAL RESOURCES, INC.  
By: Joe Friend  
Date: 8-1-94

GRANT 0030

08/12/2022

4702300030P

Well 22680

Formations

716 - 1116	Greenbrier
1720 - 3356	Hampshire Fm
3356 - 5176	Fore Knobs Fm
5176 - 7370	Scherr Fm
7370 - 8214	Brallier Fm
8214 - 8404	Harrell Sh
8892 - 9018	Upper Marcellus Sh.
9018 - 9082	Purcell LS
9082 - 9149	Lower Marcellus Sh.
9149 - 9293	Needmore Sh.
9293 - 9720	Oriskany
DTD 9720'	

08/12/2022

WELL 22680

<u>Interval</u>	<u>Holes per foot*</u>	<u>No. of holes</u>
9387'-9395'	6	48
9398'-9403'	6	31
9430'-9435'	6	31
9437'	6	6
9439'	6	6
9442'-9445'	6	19
9448'	6	6
		147 Total holes 41"

Stage 1 thru Oriskany

Pump 300 Bbl Pad - 30# Pur - Gel 3  
w/ 2 Bbl/min CO<sub>2</sub>

Pump 2250 Bbl 30# Pur - Gel 3  
Ramp sand from 1/2# per gal to 5 3/4# per gal  
w/ 2 Bbl/min CO<sub>2</sub>

Pump Flush - cut CO<sub>2</sub> - screened out @ 6882# 5 Psi

Total Water 2753.4 Bbl  
Total Sand 180 SKS 80/100  
2268 SKS 20/40

Total CO<sub>2</sub> 80 TON

Ave Treating Rate 5500#

ISIP 6721#

5' SIP 4892

10' SIP 4628

15' SIP 4510#

Shut In for 20 hrs

GRANT 0030

Well #22680

<u>Interval</u>	<u>Holes per foot*</u>	<u>No. of Holes</u>
9580'-9582'	4	12
9584'-9586'	4	12
9588'-9590'	4	12

\*Phase shots every 90°

Total Holes - 36

Shriver Chart

Pump 1500 gal 15% HCL @ 2 Bbl/min

Breakdown 3190#

Broke to 3080#

climbed to 3380#

ISIP 3300#

5min SIP 3270#

gas flow after breakdown @ 20 mcf/d

Set Cast Iron Bridge Plug @ 9550

WR-35

API 47-023-0030

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 Environmental Protection  
 AUG 07 1997

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

Well Operator's Report of Well Work

Permitting  
 Office of Oil & Gas  
 Farm name: Burgess

Operator Well No.: 22680

LOCATION: Elevation 2670'      Quadrangle: MOUNT STORM

District: UNION      County: GRANT  
 Latitude: 7850 Feet South of 39 Deg. 17 Min. 08 Sec.  
 Longitude 2250 Feet West of 79 Deg. 09 Min. 10 Sec.

Company: COLUMBIA NATURAL RESOURCES  
P. O. BOX 6070  
CHARLESTON, WV 25362-0070

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13/3/8	140	124	90
9-5/8	2239	2205	690
5-1/2	9720	9698	758
2-3/8	-	9395	-

Agent: JOSEPH E. CAMPBELL

Inspector: Phillip Tracy  
 Permit Issued: 09/02/93  
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 Verbal Plugging  
 Permission granted on: \_\_\_\_\_  
 Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
 Total Depth (feet) 9720  
 Fresh water depths (ft) \_\_\_\_\_  
 \_\_\_\_\_  
 Salt water depths (ft) \_\_\_\_\_  
 \_\_\_\_\_  
 Is coal being mined in area (Y/N)? N  
 Coal Depths (ft): \_\_\_\_\_

OPEN FLOW DATA

Producing formation Oriskany      Pay zone depth (ft) 9386 - 9459  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 750 MCF/d      Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests 10 days Test Hours  
 Static rock Pressure 3460 psig (surface pressure) after 10 day Test Hours

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

For: COLUMBIA NATURAL RESOURCES, INC.  
 By: J. J. Friend  
 Date: 8-1-94



4702300030

Select County: (023) Grant Select datatypes: (Check All) Location Production Plugging Owner/Completion Stratigraphy Sample Pay/Show/Water Logs Btm Hole Loc

- Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
'Pipeline-Plus' New

WV Geological & Economic Survey:

Well: County = 23 Permit = 00030

Report Time: Monday, August 08, 2022 10:03:16 AM

Location Information: View Map

Table with columns: API, COUNTY, PERMIT, TAX\_DISTRICT, QUAD\_75, QUAD\_15, LAT\_DD, LON\_DD, UTM\_E, UTM\_N

There is no Bottom Hole Location data for this well

Owner Information:

Table with columns: API, CMP\_DT, SUFFIX, STATUS, SURFACE\_OWNER, WELL\_NUM, CO\_NUM, LEASE, LEASE\_NUM, MINERAL\_OWN, OPERATOR\_AT\_COMPLETION, PROP\_VD, PROP\_TRG

Completion Information:

Table with columns: API, CMP\_DT, SPUD\_DT, ELEV\_DATUM, FIELD, DEEPEST\_FM, DEEPEST\_FMT, INITIAL\_CLASS, FINAL\_CLASS, TYPE, RIG, CMP\_MTHD, TVD, TMD, NEW\_FTG, KOD, G\_1

Pay/Show/Water Information:

Table with columns: API, CMP\_DT, ACTIVITY, PRODUCT, SECTION, DEPTH\_TOP, FM\_TOP, DEPTH\_BOT, FM\_BOT, G\_BEF, G\_AFT, O\_BEF, O\_AFT, WATER\_QNTY

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

Table with columns: API, PRODUCING\_OPERATOR, PRD\_YEAR, ANN\_GAS, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DCM

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

Table with columns: API, PRODUCING\_OPERATOR, PRD\_YEAR, ANN\_OIL, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DCM

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

Table with columns: API, PRODUCING\_OPERATOR, PRD\_YEAR, ANN\_NGL, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DCM

08/12/2022

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

4702300030

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4702300030	Chesapeake Appalachia, LLC	2016	0												
4702300030	Chesapeake Appalachia, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300030	Chesapeake Appalachia, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300030	Chesapeake Appalachia, 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
4702300030	Original Loc	Greenbrier Group	Well Record	716	Reasonable	400	Reasonable	2670	Ground Level
4702300030	Original Loc	Hampshire Grp	Well Record	1720	Reasonable	1636	Reasonable	2670	Ground Level
4702300030	Original Loc	Foreknobs Fm	Well Record	3356	Reasonable	1820	Reasonable	2670	Ground Level
4702300030	Original Loc	Scherr Fm	Well Record	5176	Reasonable	2194	Reasonable	2670	Ground Level
4702300030	Original Loc	Brallier	Well Record	7370	Reasonable	844	Reasonable	2670	Ground Level
4702300030	Original Loc	Harrell Sh	Well Record	8214	Reasonable	190	Reasonable	2670	Ground Level
4702300030	Original Loc	Up Marcellus	Well Record	8892	Reasonable	126	Reasonable	2670	Ground Level
4702300030	Original Loc	Purcell Ls Mbr	Well Record	9018	Reasonable	64	Reasonable	2670	Ground Level
4702300030	Original Loc	lo Marcellus	Well Record	9082	Reasonable	67	Reasonable	2670	Ground Level
4702300030	Original Loc	Needmore Sh	Well Record	9149	Reasonable	144	Reasonable	2670	Ground Level
4702300030	Original Loc	Oriskany	Well Record	9293	Reasonable	0	Reasonable	2670	Ground Level
4702300030	Original Loc	Shriver Chert	Well Record	9580	Reasonable	10	Reasonable	2670	Ground Level

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

Sample Information:

API	CUT1_TOP	CUT1_BOT	CUT2_TOP	CUT2_BOT	CORE1_TOP	CORE1_BOT	FM1_TOP	FM1_BOT	CORE2_TOP	CORE2_BOT	FM2_TOP	FM2_BOT	SMPL	THN_SEC1	SCAN1	SLA
4702300030	7100	9720														



1) Date: 7/7/2022  
 2) Operator's Well Number 22680  
 3) API Well No.: 47 - 023 - 00030

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

<p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>LEON &amp; JUDY BURGESS</u>                  Address <u>18752 N WESTERN TPKE</u>  <u>ELK GARDEN, WV 26717</u></p> <p>(b) Name <u>LEROY &amp; LORETTA BURGESS</u>                  Address <u>20919 MCMULLEN HWY SW</u>  <u>RAWLINGS, MD 21557</u></p> <p>(c) Name _____                  Address _____</p>	<p>5) (a) Coal Operator</p> <p>Name _____                  Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>LEON &amp; JUDY BURGESS</u>                  Address <u>18752 N WESTERN TPKE</u>  <u>ELK GARDEN, WV 26717</u></p> <p>Name <u>LEROY &amp; LORETTA BURGESS</u>                  Address <u>20919 MCMULLEN HWY SW</u>  <u>RAWLINGS, MD 21557</u></p> <p>(c) Coal Lessee with Declaration</p> <p>Name _____                  Address _____</p>
<p>6) Inspector</p> <p>Address <u>GAYNE J KNITOWSKI</u>  <u>601 57TH STREET SE</u>  <u>CHARLESTON WV 25304</u></p> <p>Telephone <u>304-546-8171</u></p>	

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

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

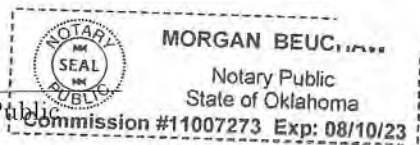
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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

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Office of Oil and Gas  
  
JUL 18 2022  
  
WV Department of  
Environmental Protection

Well Operator CHESAPEAKE APPALACHIA LLC  
 By: KERI FIENO  
 Its: REGULATORY SPECIALIST  
 Address PO BOX 18496  
OKLAHOMA CITY, OK 73154-0496  
 Telephone 405-935-1154

Subscribed and sworn before me this 11th day of July, 2022  
Morgan Beuchas  
 My Commission Expires 11007273

  
 Notary Public  
 State of Oklahoma  
 Commission #11007273 Exp: 08/10/23

**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

**Keri Fieno**

**From:** UPS <pkginfo@ups.com>  
**Sent:** Monday, July 11, 2022 10:31 AM  
**To:** Keri Fieno  
**Subject:** [EXTERNAL] UPS Delivery Notification, Tracking Number 1Z4352W50151213538

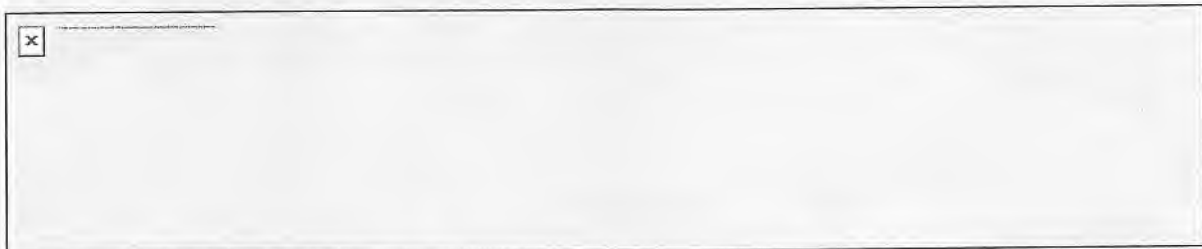
**Follow Up Flag:** Follow up  
**Flag Status:** Flagged



Hello, your package has been delivered.

**Delivery Date:** Monday, 07/11/2022

**Delivery Time:** 11:28 AM



[Set Delivery Instructions](#)

[Manage Preferences](#)

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**CHESAPEAKE ENERGY CORPORATION**

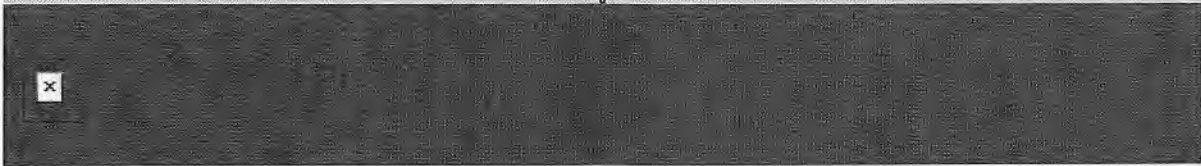
<b>Tracking Number:</b>	<a href="#">1Z4352W50151213538</a>
<b>Ship To:</b>	LEON & JUDY BURGESS 18752 N WESTERN TPKE ELK GARDEN, WV 26717 US
<b>Number of Packages:</b>	1
<b>UPS Service:</b>	UPS Next Day Air®
<b>Package Weight:</b>	0.3 LBS
<b>Reference Number:</b>	141007 LEON & LEROY BURGESS 1 P&A
<b>Reference Number:</b>	BW
<b>Reference Number:</b>	2022-07-07 15:53:02.050

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Office of Oil and Gas  
**JUL 18 2022**  
WV Department of  
Environmental Protection

4702300030P

**Keri Fieno**

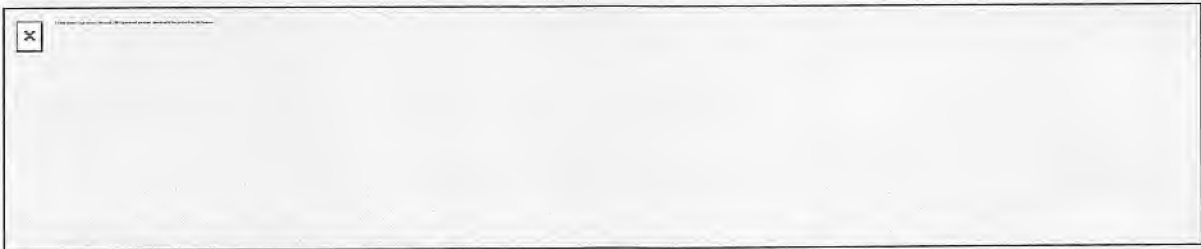
**From:** UPS <pkginfo@ups.com>  
**Sent:** Monday, July 11, 2022 9:47 AM  
**To:** Keri Fieno  
**Subject:** [EXTERNAL] UPS Delivery Notification, Tracking Number 1Z4352W51351463148



**Hello, your package has been delivered.**

**Delivery Date:** Monday, 07/11/2022

**Delivery Time:** 10:45 AM



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[Manage Preferences](#)

[View My Packages](#)

**CHESAPEAKE ENERGY CORPORATION**

<b>Tracking Number:</b>	<u>1Z4352W51351463148</u>
<b>Ship To:</b>	LEROY & LORETTA BURGESS 20919 MCMULLEN HWY RAWLINGS, MD 21557 US
<b>Number of Packages:</b>	1
<b>UPS Service:</b>	UPS Next Day Air Saver®
<b>Package Weight:</b>	0.3 LBS
<b>Reference Number:</b>	141008 LEON & LEROY BURGESS 1 P&A
<b>Reference Number:</b>	BW
<b>Reference Number:</b>	2022-07-07 15:54:51.233
<b>Reference Number:</b>	062615

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JUL 18 2022

WV Department of  
Environmental Protection

WW-9  
(5/16)

API Number 47 - 023 - 00030  
Operator's Well No. 22680

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

Operator Name CHESAPEAKE APPALACHIA LLC OP Code 22680

Watershed (HUC 10) \_\_\_\_\_ Quadrangle MOUNT STORM

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: DRILL CUTTINGS WILL BE CIRCULATED BACK INTO AN OPEN TANK

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

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? NONE

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. LANDFILL

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

-Landfill or offsite name/permit number? KIMBLE SANITARY LANDFILL OR MUD MASTERS

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 Keri Fieno

Company Official (Typed Name) KERI FIENO

Company Official Title REGULATORY SPECIALIST

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JUL 18 2022

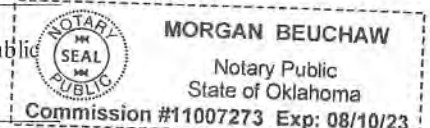
WV Department of  
Environmental Protection

Subscribed and sworn before me this 11<sup>th</sup> day of July, 20 22

Morgan Beuchaw

Notary Public

My commission expires 11007273



08/12/2022

Proposed Revegetation Treatment: Acres Disturbed 10 Prevegetation pH

Lime 3.90 Tons/acre or to correct to pH 7

Fertilizer type 8-16-16

Fertilizer amount 968 lbs/acre

Mulch 3 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

OATS/ANNUAL RYE 40LBS/ACRE

BIRDSFOOT TREFOIL 8LBS/ACRE

HAY/STRAW MULCH 3 TONS/ACRE

TALL FESCUE 40LBS/ACRE

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: Gayne Knitowski Digitally signed by Gayne Knitowski Date: 2022.07.11 16:09:36 -0400

Comments:

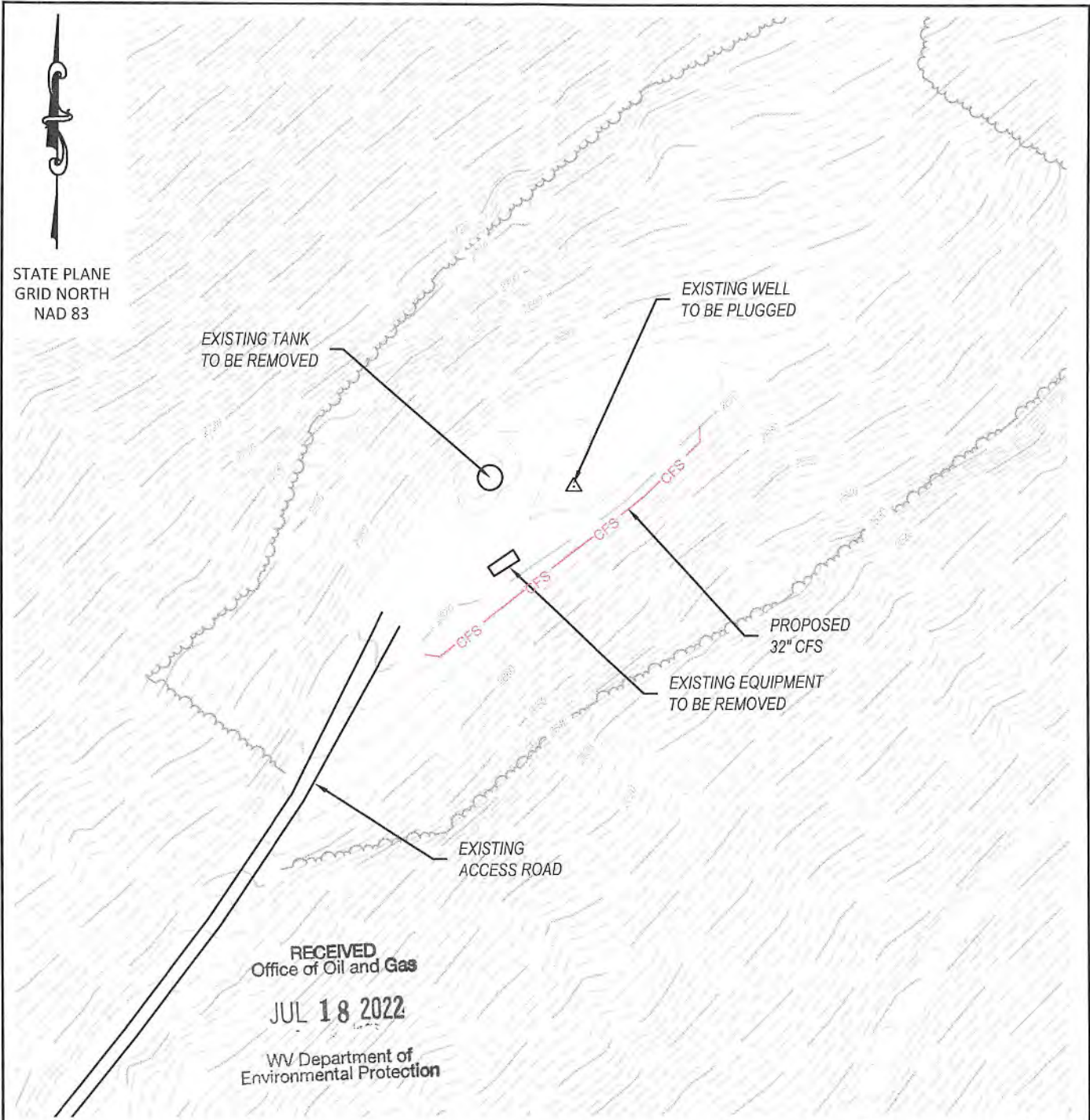
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JUL 18 2022

WV Department of Environmental Protection

Title: Inspector Date: 7-11-2022

Field Reviewed? (X) Yes ( ) No



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JUL 18 2022  
WV Department of  
Environmental Protection

NOTE: ALL PRODUCTION FACILITIES  
WILL BE REMOVED UPON COMPLETION  
OF THE PLUGGING OPERATIONS.

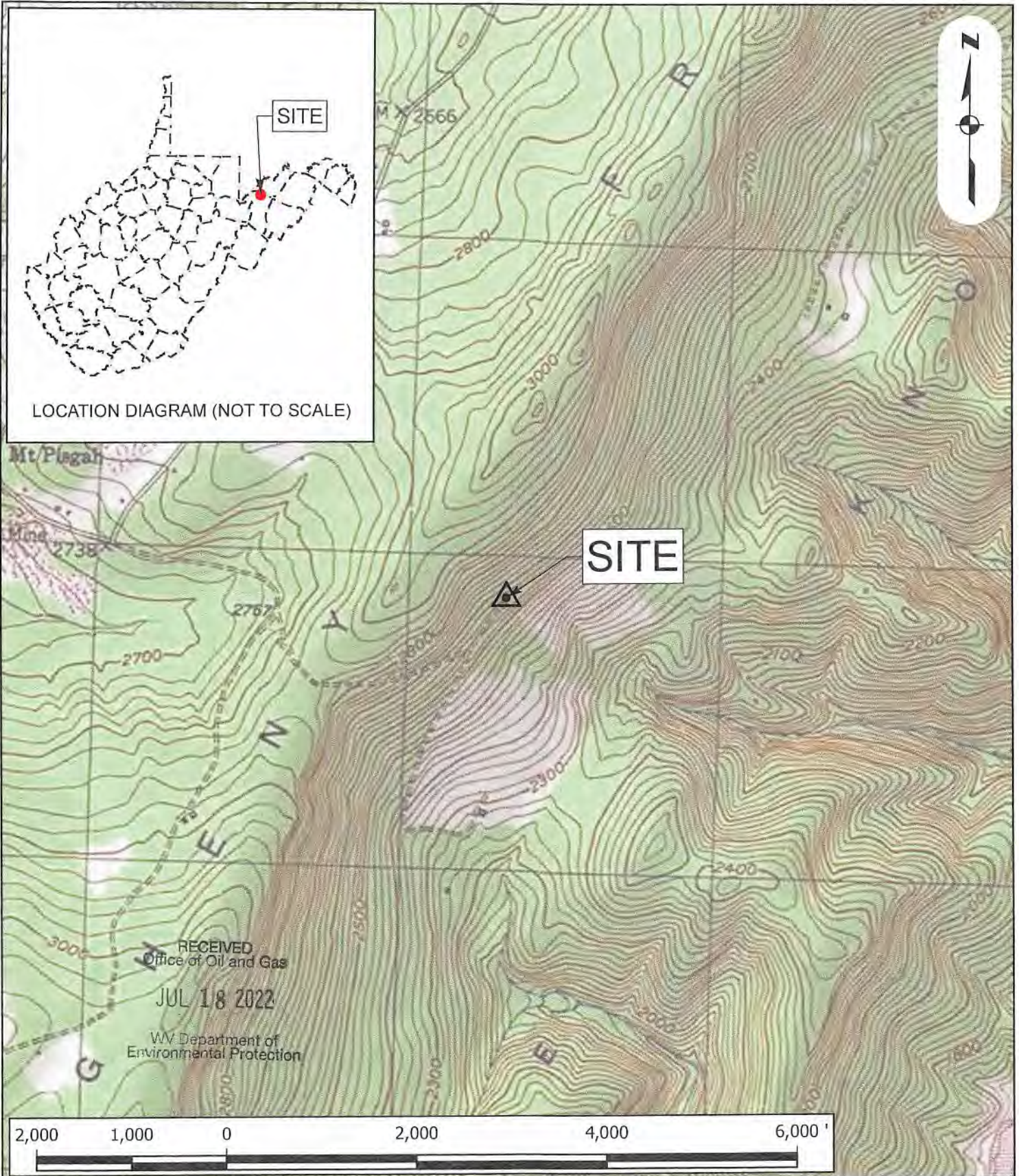


**LEON & LEROY BURGESS 1**  
**SITE RECLAMATION**  
**API# 47-023-00030**  
FOR  
**CHESAPEAKE ENERGY**  
LOCATED IN  
GRANT COUNTY, WEST VIRGINIA

LEGEND	
EXISTING CONTOUR	
EXISTING TREE LINE	
EXISTING ACCESS ROAD EDGE	
WELLHEAD	
COMPOSITE FILTER SOCK	

**JHA Companies** | ENGINEERS SURVEYORS ENVIRONMENTAL GIS MAPPING  
www.jhacompanies.com  
844-642-4757  
466 SOUTH MAIN STREET  
MONTROSE, PA 18801  
PA • OH • NY • WV • VA • MD

SITE PLAN		
FINAL	02/08/2022	1



<p><b>USGS LOCATION MAP</b>                  PREPARED FOR  <b>LEON &amp; LEROY BURGESS 1</b>                  GRANT COUNTY, WEST VIRGINIA                  MOUNT STORM USGS QUAD</p>	PROJECT -	LEON & LEROY BURGESS 1
	DATE -	2/8/2022
	SCALE -	1" = 1,330'
	DRAWN -	JKANE
	FILE -	LEON & LEROY BURGESS 1_USGS_LOCATION_MAP.mxd



(844) 542-4757  
**08/12/2022**

WW-7  
8-30-06



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

API: 47-023-00030 WELL NO.: 22680

FARM NAME: LEON & LEROY BURGESS 1

RESPONSIBLE PARTY NAME: CHESAPEAKE APPALACHIA LLC

COUNTY: GRANT DISTRICT: UNION

QUADRANGLE: MOUNT STORM

SURFACE OWNER: LEON & JUDY BURGESS, LEROY & LORETTA BURGESS

ROYALTY OWNER: LEON & JUDY BURGESS, LEROY & LORETTA BURGESS

UTM GPS NORTHING: 435 0090

UTM GPS EASTING: 659344 GPS ELEVATION: 2670'

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 X : Post Processed Differential X

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

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

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

- 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.

Kevin Leno  
Signature

REGULATORY SPECIALIST  
Title

7/11/2022  
Date

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Environmental Protection