



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, January 5, 2026

WELL WORK PLUGGING PERMIT
Vertical Plugging

DEEM, J. F. OIL & GAS, LLC
4545 C EMERSON AVE.

PARKERSBURG, WV 26104

Re: Permit approval for 1
47-085-01545-00-00

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.

H. Jason Harmon
Acting Chief

Operator's Well Number:
Farm Name: STARKEY, A. B.
U.S. WELL NUMBER: 47-085-01545-00-00
Vertical Plugging
Date Issued: 1/5/2026

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.

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 X

5) Location: Elevation 1117 Watershed North Fork Hughes River
District Union County Ritchie Quadrangle Harrisville

6) Well Operator Deem J.F Oil & Gas, LLC 7) Designated Agent Burner,Elizabeth
Address 4545 C Emerson Ave Address 4545C Emerson Ave.
Parkersburg, WV 26104 Parkersburg,WV 26104

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Jeremy Newlon Name Stalnaker Energy Corp.
Address 8402 Staunton Turnpike Address 220 West Main St.
MacFarlan, WV 26148 Glenville,WV 26351

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

***Please See Attached Work Order**

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

Work order approved by inspector _____ Date _____

Jeremy Newlon 12-31-2025 01/09/2026

API #47-085-01545
Ritchie County, WV

Objective: Plug and Abandon from 2,098' TD

Well Design:

- Elevation – 1090'
- 13" Conductor @ 17.5' – unknown
- 10" Surface Casing @ 391' – unknown
- 8 1/4" Intermediate Casing @ 1,196'
- 7" Casing to 1,994'
- Filled from 2,098' - 2,143'

Oil and Gas Zones:

1. Fresh Water Zone Based on Offset Well (4708510219) – 435', 649' adjusted based on offset elevation of 1183'
2. Salt Water – 1,799' based on OG-10 Well Record
3. Sand – 1,792' – 1,810'
4. Sand – 1,872' – 1,914'
5. Perforations – 1,924'-1,930
6. Sand – 2,064' – 2,108'
7. Coal – No coal present based on OG-10 well record and offset wells

Procedure:

1. Check and record casing surface pressures. Verify no pressure behind 10". Bleed off pressure and monitor any build-up prior to performing any more work.
2. Notify WV DEP 24 hours prior to commencing work.
3. Move in and rig up flat tank and frac tank (No pits will be utilized).
4. MIRU Service rig with JU Head and BOP's. Pressure test well control equipment.
5. RIH with 2 3/8" tubing and attempt to wash down to TD of 2,098' or max allowable depth. If unable to reach TD consult with inspector and decide on new course of action.
6. Ensure hole is filled with at least 6% Bentonite Gel from TD to surface.
7. Pull up off bottom to 1,772', MIRU cement services. Mix and pump a 100' cement plug to cap the producing zones (1,672' – 1,772') (Class A cement + 2% CaCl₂, zero excess, yield =1.15 ft³/sk, WR = 5.2 gal/sk, minimum 500 psi compressive strength)
 - a. 7" Casing Volume = 0.2331 ft³/ft
 - b. 100' plug = 24 ft³ cement.
 - c. Displace to balance plug with 8.33 ppg fluid
 - d. Slowly pull out of cement plug and lay down 150' of 2-3/8" tubing
 - e. Circulate tubing clear of cement with 8.33ppg fluid
8. TOOH with 2 3/8" tubing.
9. MIRU wireline services, run free point, cut 7" casing. Ensure casing is free and RDMO wireline. Adjust next plugs based on free point cut depth. Consult with inspector as needed.
10. TOOH while laying down 7" casing.
11. RIH with 2 3/8" tubing to 1,216'.

Jeremy Newlon

01/09/2026
12-31-2025

12. Mix and pump a 100' cement plug to cover the intermediate casing shoe (1,116' - 1,216') (Class A cement + 2% CaCl₂, zero excess, yield =1.15 ft³/sk, WR = 5.2 gal/sk, minimum 500 psi compressive strength)
 - a. 8 1/4" Casing Volume = 0.357 ft³/ft
 - b. 100' plug = 36 ft³ cement.
 - c. Displace to balance plug with 8.33 ppg fluid
 - d. Slowly pull out of cement plug and lay down 150' of 2-3/8" tubing
 - e. Circulate tubing clear of cement with 8.33ppg fluid
13. MIRU wireline services, run free point, cut 8 1/4" casing. Ensure casing is free and RDMO wireline. Adjust next plugs based on free point cut depth. Consult with inspector as needed
14. TOOH while laying down 8 1/4" casing.
15. Attempt to pull 10" surface casing to verify cement to surface. If unable to pull, consult with inspector. Future plugs may need adjusted.
16. RIH with 2 3/8" tubing to 536'.
17. Mix and pump a 100' cement plug to cover water zone at 649' (529' - 629') (Class A cement, zero excess, yield =1.15 ft³/sk, WR = 5.2 gal/sk, minimum 500 psi compressive strength)
 - a. 10" Casing Volume = 1.69 ft³/ft
 - b. 100' plug = 169 ft³ cement.
 - c. Displace to balance plug with 8.33 ppg fluid
 - d. Slowly pull out of cement plug and lay down 150' of 2-3/8" tubing
 - e. Circulate tubing clear of cement with 8.33ppg fluid
18. TOOH with 2 3/8" tubing to 415'.
19. Mix and pump a 100' cement plug to cover water zone at 435' (315' - 415') (Class A cement, zero excess, yield =1.15 ft³/sk, WR = 5.2 gal/sk, minimum 500 psi compressive strength)
 - a. 10" Casing Volume = 1.69 ft³/ft
 - b. 100' plug = 169 ft³ cement.
 - c. Displace to balance plug with 8.33 ppg fluid
 - d. Slowly pull out of cement plug and lay down 150' of 2-3/8" tubing
 - e. Circulate tubing clear of cement with 8.33ppg fluid
20. TOOH laying down tubing to 100'.
21. Mix and pump a 100' cement plug (0' – 100') (Class A cement, zero excess, yield =1.15 ft³/sk, WR = 5.2 gal/sk, minimum 500 psi compressive strength)
 - a. 10" Casing Volume = 1.69 ft³/ft
 - b. 100' plug = 169 ft³ cement.
 - c. Displace to balance plug with 8.33 ppg fluid
 - d. Slowly pull out of cement plug and lay down 100' of 2-3/8" tubing
 - e. Clean up tubing if possible
 - f. Install Monument Marker with API No.: 47-085-01545

Jeremy Newlon

01/09/2026
12-31-2025

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION /0

Quadrangle Harrisville

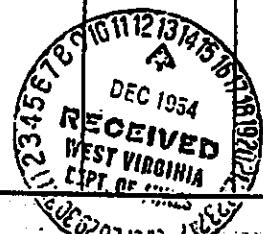
Permit No. RIT-1545

WELL RECORD

Oil or Gas Well Gas
(GIMB)

Company	E. J. Fitzgerald			Casing and Tubing	Used in Drilling	Left in Well	Packers
Address	Elkins, W. Va.			Size			
Farm	A. B. Starkey Acres 10			16			
Location (waters)	Rock Camp Run			13	17 $\frac{1}{2}$		Kind of Packer
Well No.	1 Elev. 1C70			10	391		
District	Union	County	Ritchie	8	1196		Size of
The surface of tract is owned in fee by A. B. Starkey				6 $\frac{1}{2}$	1994	1994	Depth set
Address Harrisville, W. Va.				5 3/16			Perf. top
Mineral rights are owned by				3			Perf. bottom
Address				2			Perf. top
Drilling commenced	October 1, 1954			Liners Used			Perf. bottom
Drilling completed	October 30, 1954						
Date Shot	From	To					
With							
Open Flow	/10ths Water in		Inch				
	/10ths Merc. in		Inch				
Volume			Cu. Ft.				
Rock Pressure		lbs.	hrs.				
Oil			lbs., 1st 24 hrs.				
Fresh water	feet		feet	FEET	INCHES	FEET	INCHES
Salt water	feet		feet	FEET	INCHES	FEET	INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Soil			0	10			
Red Rock			10	20			
Slate			20	40			
Red Rock			40	108			
Sand			108	130			
Red Rock			130	170			
Slate			170	190			
Sand			190	210			
Slate			210	220			
Red Rock			220	268			
Slate			268	320			
Red Rock			320	383			
Slate			383	420			
Red Rock			420	440			
Slate			440	447			
Sand			447	465			
Slate			485	505			
Sand			505	530			
Slate			530	540			
Red Rock			540	580			
Sand			580	610			
Slate & Shells			610	690			
Red Rock			690	720			
Slate & Shells			720	745			
Red Rock			745	756			
Sand			756	778			
Slate & Shells			778	820			
Sand			820	830			
Slate & Shells			830	860			
Red Rock			860	911			
Slate			911	930			
Red Rock			930	980			
Slate & Shells			980	1078			
Red Rock			1078	1120			
Slate & Shells			1120	1155			
Red Rock			1155	1162			
Slate & Shells			1162	1180			
Red Rock			1180	1186			
Lime & Sand			1186	1200			



01/09/2026

Formation	Color	Hard or Soft	Top 10	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate & Shells			1200	1302			
Sand			1302	1447			
Slate & Shells			1447	1500			
Sand			1500	1555			
Slate & Shells			1555	1590			
Sand			1590	1640			
Slate & Shells			1640	1755			
Sand			1755	1765			
Slate			1765	1780			
Sand			1780	1790			
Slate			1790	1792			
Sand			1792	1810			
Slate			1810	1845			
Sand			1845	1870			
Slate			1870	1872			
Sand			1872	1914			
Slate			1914	1920			
Sand			1920	1944			
Slate			1944	1950			
Big Lime			1950	2051			
Sand Limey & Hard			2051	2064			
Sand			2064	2108			
Slate & Sand mixed			2108	2123			
Slate			2123	2127			
Squaw Sand			2127	2140			
Slate			2140	2143			
Well sand fractured & filled			back in following manner				
Clay			2143	2106			
Stone			2106	2098			
Run tools on stone & washed			down good.				
Gas			1799	17/10	water in 1"		
Gas			1898	1912	Total 85/10 water in 1"		
Gas			2064	2071	Total 25/10 " in 2"		
Comb. wall & anchor on 7" pipe			set at 1785				
7" Perforation			1924	1930			
Well was fractured through 2"			tubing w/Larkin Fig. C-104 M.U.D. Packer				
Gas before fracture:							
Salt sand 20/10 Water in 1"							
Injun sand 75/10 Water in 1"							
Test on Injun sand gas after			fracture	100/10 Water in 2"			

Date Dec 8, 1954
 APPROVED Edmund J. Fitzgerald 01/09/2026
 By _____
 (Title) _____



Select County: (085) Ritchie	▼ Select datatypes: <input type="checkbox"/> (Check All)
Enter Permit #: 10219	<input type="checkbox"/> Location <input type="checkbox"/> Production <input type="checkbox"/> Plugging
<input type="button" value="Get Data"/>	<input type="checkbox"/> Owner/Completion <input checked="" type="checkbox"/> Stratigraphy <input type="checkbox"/> Sample
<input type="button" value="Reset"/>	<input checked="" type="checkbox"/> Pay/Show/Water <input type="checkbox"/> Logs <input type="checkbox"/> 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 = 85 Permit = 10219 [Link to all digital records for well](#)

Report Time: Wednesday, December 10, 2025 1:34:33 PM

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4708510219	8/23/2016	Water	Fresh Water	Vertical			342	Pennsylvanian System					
4708510219	8/23/2016	Water	Fresh Water	Vertical			556	Pennsylvanian System					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	7495	Marcellus Fm	7617	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	7645	Marcellus Fm	7767	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	7795	Marcellus Fm	7917	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	7945	Marcellus Fm	8067	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	8095	Marcellus Fm	8217	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	8245	Marcellus Fm	8367	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	8395	Marcellus Fm	8517	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	8545	Marcellus Fm	8667	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	8695	Marcellus Fm	8817	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	8845	Marcellus Fm	8968	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	8995	Marcellus Fm	9117	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	9145	Marcellus Fm	9267	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	9295	Marcellus Fm	9417	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	9445	Marcellus Fm	9567	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	9595	Marcellus Fm	9717	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	9745	Marcellus Fm	9867	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	9895	Marcellus Fm	10015	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	10045	Marcellus Fm	10167	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	10195	Marcellus Fm	10317	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	10345	Marcellus Fm	10467	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	10495	Marcellus Fm	10617	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	10645	Marcellus Fm	10767	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	10795	Marcellus Fm	10917	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	10945	Marcellus Fm	11067	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	11095	Marcellus Fm	11217	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	11245	Marcellus Fm	11367	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	11395	Marcellus Fm	11517	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	11545	Marcellus Fm	11667	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	11695	Marcellus Fm	11817	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	11845	Marcellus Fm	11967	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	11995	Marcellus Fm	12117	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	12145	Marcellus Fm	12267	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	12295	Marcellus Fm	12417	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	12445	Marcellus Fm	12565	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	12595	Marcellus Fm	12717	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	12745	Marcellus Fm	12867	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	12895	Marcellus Fm	13017	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	13045	Marcellus Fm	13167	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	13195	Marcellus Fm	13317	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	13345	Marcellus Fm	13467	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	13495	Marcellus Fm	13617	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	13645	Marcellus Fm	13767	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	13795	Marcellus Fm	13917	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	13945	Marcellus Fm	14065	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	14095	Marcellus Fm	14217	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	14245	Marcellus Fm	14365	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	14395	Marcellus Fm	14517	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	14545	Marcellus Fm	14667	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	14695	Marcellus Fm	14817	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	14845	Marcellus Fm	14967	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	14995	Marcellus Fm	15085	Marcellus Fm					
4708510219	8/23/2016	Pay	Oil & Gas	Deviated	15115	Marcellus Fm	15140	Marcellus Fm					

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4708510219	Dvt Orgnl Loc	Maxton	Well Record	1060	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Big Lime	Well Record	1117	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Big Injun (undiff)	Well Record	2319	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Gantz	Well Record	2672	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Fifty-foot	Well Record	2754	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Gordon	Well Record	2841	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Fifth	Well Record	3054	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Bayard	Well Record	3110	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Warren	Well Record	3456	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Speechley	Well Record	3534	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Balltown	Well Record	3782	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Bradford	Well Record	4080	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Riley	Well Record	4277	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Benson	Well Record	4538	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Alexander	Well Record	4746	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Angola Sh Mbr	Well Record	4757	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Rhinestreet Sh	Well Record	5327	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Sonyea Fm	Well Record	6116	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Middlesex Sh	Well Record	6208	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Genesee Fm	Well Record	6259	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Genesee Sh Mbr	Well Record	6305	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Tully Ls	Well Record	6331	Reasonable			1183	Ground Level
4708510219	Dvt Orgnl Loc	Marcellus Fm	Well Record	6341	Reasonable			1183	Ground Level

01/09/2026

1) Date: 8/22/2025
2) Operator's Well Number
A B Starkey 1H
3) API Well No.: 47 - 085 - 01545

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	Name
Address	Address
(b) Name	(b) Coal Owner(s) with Declaration
Address	Name
(c) Name	Address
Address	Name
Address	Address
6) Inspector	(c) Coal Lessee with Declaration
Address	Name
Telephone	Address

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 reverse side. However, you are not required to take any action at all.

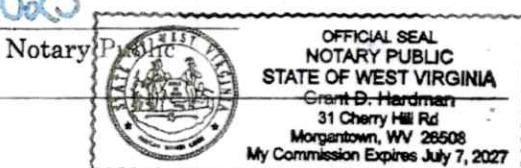
Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental 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 Deem J.F. Oil & Gas, LLC
By: *Grant D. Hardman*
Its: *Notary Public*
Address 4545 C Emerson Ave
Parkersburg, WV 26104
Telephone 304-428-0005

Subscribed and sworn before me this 3rd day of October 2025
My Commission Expires July 7th, 2027

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.



01/09/2026

SURFACE OWNER WAIVER

Operator's Well
Number

A B Starkey 1H

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...".

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,


Signature

Date 10/09/2025 Name _____
By _____
Its _____

Signature

Date
01/09/2026

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLANOperator Name Deem J.F Oil & Gas, LLC OP Code _____Watershed (HUC 10) North Fork Hughes River Quadrangle HarrisvilleDo 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, fluids stored in tanks, cuttings removed off site and taken to landfill.Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.-If oil based, what type? Synthetic, petroleum, etc.

Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc.-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)

-Landfill or offsite name/permit number? _____

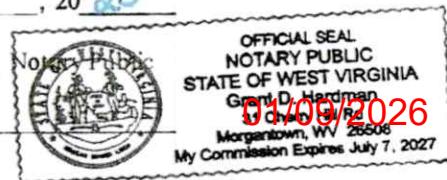
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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 JKR Test

Company Official (Typed Name) _____

Company Official Title Manager, NewlonSubscribed and sworn before me this 3rd day of October, 2025My commission expires July 7th, 2027
12-31-2025 Jeremy Newlon

Proposed Revegetation Treatment: Acres Disturbed 4.66 Prevegetation pH 6.5
Lime 2-3 Tons/acre or to correct to pH 6.5
Fertilizer type _____
Fertilizer amount 500 lbs/acre
Mulch 2-3 Tons/acre

Seed Mixtures

Temporary	Permanent
Seed Type	Seed Type
lbs/acre	lbs/acre
Annual Ryegrass	Crownvetch
40	10-15
Field Bromegrass	Tall Fescue
40	30

Please reference Table IV-3 on page 5 of the Well #1 Plugging Plan

Please reference Table IV-4A on page 5 of the Well #1 Plugging Plan

*or type of grass seed requested by surface owner

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:

Title: Oil & Gas Inspector

Date: 10-1-2025

Field Reviewed?

() Yes

(_____) No

Jeremy Newlon 12-31-2025 01/09/2026

API# 47-085-01545

WELL #1

WELL PLUGGING PLAN

STEWART RUN/NORTH FORK HUGHES RIVER WATERSHED

HARRISVILLE & PULLMAN USGS 7.5 QUAD MAP(S)

SHEET INDEX
 1 - COVER SHEET
 2 - COORDINATE AND EAS CONTROL NOTES
 3 - BOUNDARY
 4 - OVERALL PLAN SHEET INDEX & VOLUMES
 5 - CONTRACTOR PLAN SHEET

LOCATION COORDINATES

N 39°22'35.2" E 80°22'45.0" (UTM ZONE 17 METRIC)

GENERAL DESCRIPTION

THE ACCESS ROAD(S) AND WELL PAD ARE BEING UPGRADED TO ADD IN THE PLACEMENT OF EXISTING INDUSTRIAL GAS WELLS.

THE PROPOSED SITE IS LOCATED WITHIN FEMA FLOOD ZONE "X" PER FEMA FLOOD MAP.

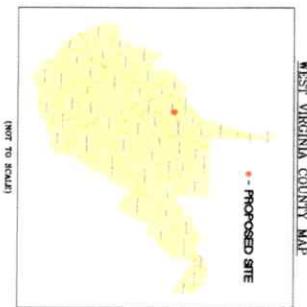
MISS. UTIL. STATEMENT
 MISS. UTIL. WILL NOTIFY MISS. UTIL. OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES PRIOR TO SITE PROJECT DESIGN. IN ADDITION, MISS. UTIL. WILL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

ENTRANCE PERMIT
 ANTERO RESOURCES CORPORATION WILL OBTAIN AN ENTRANCE PERMIT (FROM W. VA. DEPT. OF TRANSPORTATION) FOR THE CONSTRUCTION ACTIVITY.

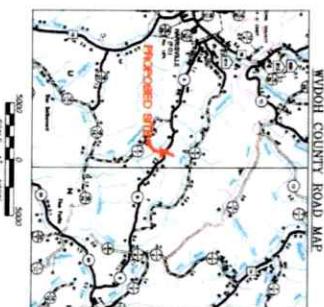
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PROJECT CONTACTS

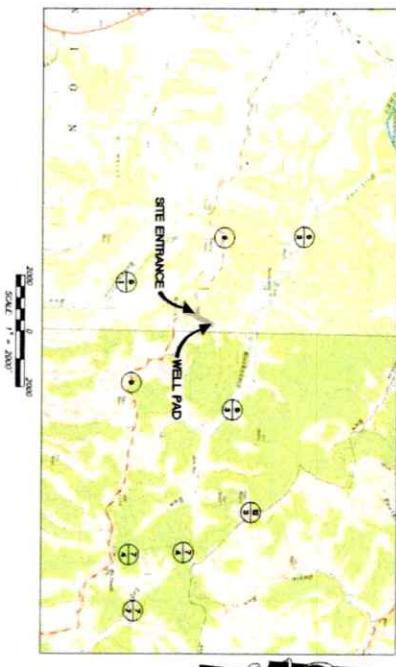
OPERATOR:
 ANTERO RESOURCES CORPORATION
 201 WHITE OAK ROAD
 DUNN, W. VA. 26043
 PHONE: (304) 462-4100
 FAX: (304) 462-4100
 ELI WAGNER - ENVIRONMENTAL ENGINEER &
 REEDUCTION MANAGER
 OFFICE: (304) 462-4100, CELL: (304) 479-9770
 ANN MARNER - SPP OPERATIONS
 OFFICE: (304) 462-4100
 AARON KUNKLER - CONSTRUCTION MANAGER
 OFFICE: (304) 462-4100
 ROBERT HORN - DESIGN MANAGER
 OFFICE: (304) 462-4100, CELL: (304) 477-3400
 SPOTTS: (304) 462-4000, CELL: (412) 509-0900



(NOT TO SCALE)



(NOT TO SCALE)



WEST VIRGINIA STATE PLANE COORDINATE SYSTEM
 NORTH ZONE, NAD83
 ELASTIC EARTH MODEL ON NAVFAR
 ESTABLISHED BY SURVEY GRADE GPS & OPUS
 POST-PROCESSING

WELL # Name	WELL # Name	WELL # Name	WELL # Name
WAD 27	WAD 27 Lat & Long	WAD 27 Lat & Long	WAD 27 Lat & Long
	(METERS)	(METERS)	(METERS)
WAD 27	Lat 39° 22' 35.2" N	Lat 39° 22' 35.2" N	Lat 39° 22' 35.2" N
	Long 80° 22' 45.0" E	Long 80° 22' 45.0" E	Long 80° 22' 45.0" E

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WELL # Name	WELL # Name	WELL # Name	WELL # Name
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LEGEND



LEGEND

**SAMPSON
WELL PAD
UNION DISTRICT
E COUNTY, WEST VIRGINIA**



NAVITUS
ENERGY ENGINEERING

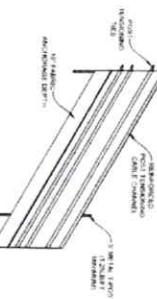
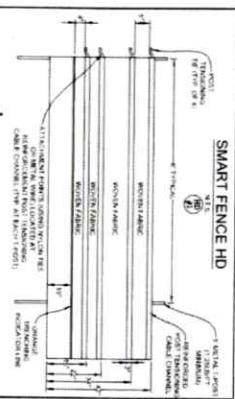
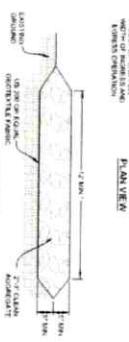
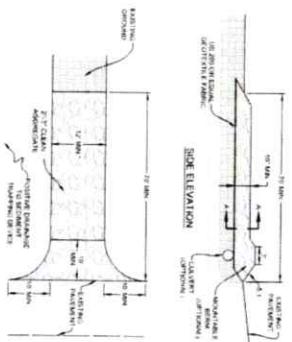
Telephone: (888) 562-4185 | www.NavitusEng.com

	LEGEND SAMPSON WELL PAD UNION DISTRICT RITCHIE COUNTY, WEST VIRGINIA	 <small>THE ANTERO MARCELLUS SHALE ANTERO RESOURCES COMPANY</small>	DATE	REVISION
DATE 01/20/2025	SCALE N/A	SHEET 3 OF 5	 <small>Telephone (888) 882-4185 www.NavitusEng.com</small>	

01/09/2026

ROCK CONSTRUCTION ENTRANCE

400



ANTERO'S PREFERRED SEED MIXTURE

Planning Details		Resource Allocation		Budgeting	
Month 1: April 1 - April 30	Q1	100	100	100	100
Month 2: May 1 - May 31	Q1	100	100	100	100
Month 3: June 1 - June 30	Q2	100	100	100	100
Month 4: July 1 - July 31	Q2	100	100	100	100
Month 5: August 1 - August 31	Q3	100	100	100	100
Month 6: September 1 - September 30	Q3	100	100	100	100
Month 7: October 1 - October 31	Q4	100	100	100	100
Month 8: November 1 - November 30	Q4	100	100	100	100
Month 9: December 1 - December 31	Q4	100	100	100	100
Month 10: January 1 - January 31	Q1	100	100	100	100
Month 11: February 1 - February 28	Q1	100	100	100	100
Month 12: March 1 - March 31	Q1	100	100	100	100

REVEGETATION

REVEGETATION

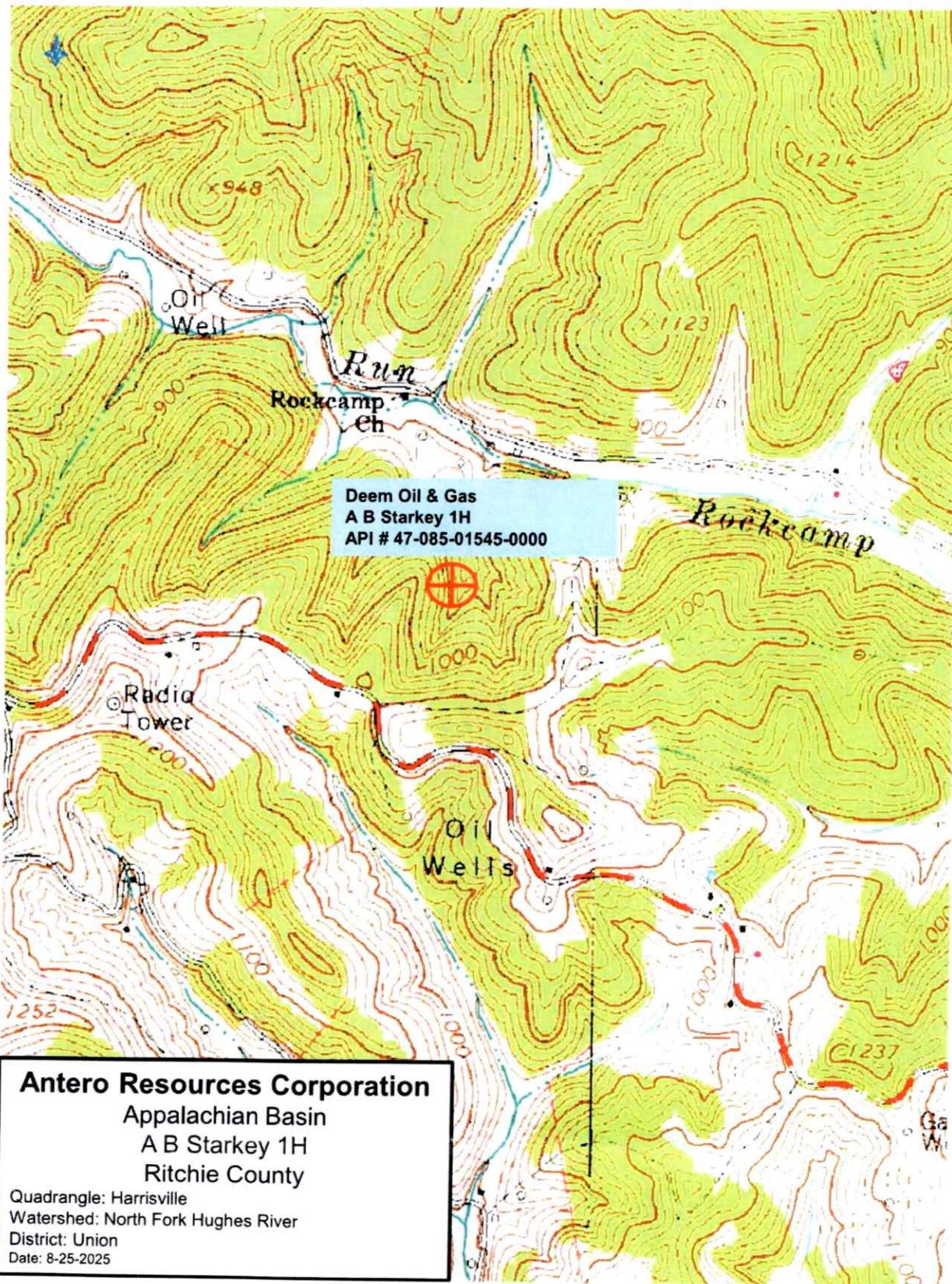
NAVITUS
ENERGY ENGINEERING
Telephone: (888) 462-4185 www.NavitusEng.com

01/09/2026

CONSTRUCTION DETAILS
SAMPSON
WELL PAD
UNION DISTRICT
TCHIE COUNTY, WEST VIRGINIA



SCALE: N/A
SHEET 5 OF 5



WW-7
8-30-06



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

API: 47-085-01545 WELL NO.: A B Starkey 1H

FARM NAME: Sampson

RESPONSIBLE PARTY NAME: Deem J.F Oil & Gas, LLC

COUNTY: Ritchie DISTRICT: Union

QUADRANGLE: Harrisville

SURFACE OWNER: Michael W. & Arletta K. Elder

ROYALTY OWNER: Deem J.F Oil & Gas, LLC.

UTM GPS NORTHING: 4339420.66 m

UTM GPS EASTING: 499927.47 m GPS ELEVATION: 1,117 ft

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

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

01/09/2026



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

plugging permit issued 4708501545

1 message

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

Mon, Jan 5, 2026 at 9:09 AM

To: rnutt@zoominternet.net, Jeremy D Newlon <jeremy.d.newlon@wv.gov>, AJ Carlson <acarlson@anteroresources.com>, amossor@wvassessor.com

To whom it may concern, a plugging permit has been issued for 4708501545.

--

James Kennedy

Environmental Resource Specialist III / Permitting

WVDEP Office of Oil and Gas

601 57th Street, SE

Charleston, WV 25304

304-926-0499 ext. 45025

james.p.kennedy@wv.gov

 4708501545.pdf
3827K

01/09/2026