



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 24, 2026
WELL WORK PLUGGING PERMIT
Vertical Plugging

WOLF RUN MINING LLC
100 TYGART DR.

GRAFTON, WV 26354

Re: Permit approval for 2
47-001-00563-00-00

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
Chief

Operator's Well Number: 2
Farm Name: LAW, ROSALTA - HEIRS
U.S. WELL NUMBER: 47-001-00563-00-00
Vertical Plugging
Date Issued: 06/24/2026

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. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

WW-4B
Rev. 2/01

1) Date 5/5, 2026
2) Operator's
Well No. (2) #254-CH
3) API Well No. 47-001 - 00563

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 1,126.50 Watershed Stillhouse Run
District Pleasant County Barbour Quadrangle Philippi (545)

6) Well Operator Wolf Run Mining LLC 7) Designated Agent Dustin Kimble
Address 100 Tygart Drive Address 100 Tygart Drive
Grafton, WV 26354 Grafton, WV 26354

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Kenny Willett Name Coastal Well Services LLC
Address 2393 Tallmansville Road Address 120 Meadows Ridge Road
Buckhannon, WV 26201 Mt. Morris, PA 15349

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

See Exhibit No. 1, Exhibit No. 2 and MSHA 101-C Exemption

MSHA 101-C Docket No. M-2012-002-C

Approximate Lower Kittanning coal seam top= 650.55'

Approximate Lower Kittanning coal seam bottom=654.95

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

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

Work order approved by inspector

Kenny Willett

Date

5/6/26

06/26/2026

EXHIBIT NO. 1

From the experience and technology developed since 1970 in plugging oil and gas wells for mining through, Wolf Run Mining LLC will utilize the following method to plug all future wells.

SOLID PLUG METHOD

- a) If active well: clean out to total depth and plug back according to state regulations to a minimum of 200 feet below lowest minable coal seam.
- b) If abandoned well: clean out to first plug 200 feet below lowest minable coal seam.
- c) Circulate through tubing or drill steel an expanding cement plug from a minimum of 200 feet below minable coal seam to a point 100 feet above minable coal.

Circulate through tubing or drill steel from 100 feet above coal seam to surface.

A monument will be installed with API No. and stating "solid plug".

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

06/26/2026



EXHIBIT 2

4700100563P

Coastal Drilling East LLC • 130 Meadow Ridge Road, Mt. Morris, PA 15349

Phone 304-296-1120 Fax 304-413-0061

"A Shaft Drillers International Company"

Below is the proposed plugging plan that can be used on wells similar to the wells we have been plugging for the last few years. This is the procedure we will generally utilize to plug the 47-001-00563 gas well

Plugging Plan

- Move to site, rig up, mix mud, drill rathole
- Bullhead well and maintain static well head pressures
- Clean out well to original total depth (4521')
- Run cement bond lg on 4 1/2 casing to determine top of cement
- Set bottom hole cement plug as required by the WV DEP from TD to top of cement determined by the bond lg.
- Tag top of bottom hole plug to insure plug is at correct depth. Re-cement if necessary.
- Cut and pull 4 1/2" casing from the free point determined by the bond lg.
- Clean out wellbore to top of remaining 4 1/2" casing
- Run suite of logs to determine casing size, bottom of casing, depth of coal seams, deviation of wellbore and cement bond to casing.
- Cement hole from top of bottom hole plug to a depth within 50' of the bottom of the 8 5/8" casing.
- If necessary cut and pull any free casing.
- Perforate, cut, rip or mill any remaining casing at depths determined by MSHA's 101C Petition for the Leer South Mine
- Multiple cuts may be required to be placed with the bonded 8 5/8" casing string. The cuts will be placed in 18" increments through the mining area in the Lower Kittanning Coal Seam.
- Cement hole from top of intermediate plug to surface using cement required by MSHA's 101C Petition for the Leer South Mine.
- Rig down and set monument as required by WV DEP.
- Contractor will utilize Class A cement

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

06/26/2026



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Philippi

Permit No. BAR-563

Rotary X Oil _____
Cable _____ Gas X
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company <u>Union Drilling, Inc.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>P. O. Box 347</u>				
Farm <u>Rosaltha Law, Heirs</u> Acres <u>313</u>				
Location (waters) <u>Stillhouse Run - Simpson Creek</u>	Size			
Well No. <u>(2) # 254-CH</u> Elev. <u>1130'</u>	20-16			
District <u>Pleasant</u> County <u>Barbour</u>	Cond.			
The surface of tract is owned in fee by <u>Samuel E. Merra</u>	13 10" 13"	11'	11'	
<u>dba M & M Coal Company</u>	9 5/8			
Address <u>Brownston, W. Va., 26334</u>	8 5/8	1218'	1218'	LT
Mineral rights are owned by <u>Rosaltha Law Heirs</u>	7			
% Law <u>Helrick, Rt. 5, Ex. 193, Morgantown, W. Va.</u>	5 1/2			
Drilling Commenced <u>November 26, 1971</u>	4 1/2	4468'	4468'	LT
Drilling Completed <u>December 2, 1971</u>	3			
Initial open flow _____ cu. ft. _____ bbls.	2			
Final production <u>1,100,000</u> cu. ft. per day _____ bbls.	Liners Used			
Well open <u>14</u> hrs. before test <u>1100</u> RP.				

Well treatment details:

Attach copy of cementing record.

12/30/71 - Dowell - 2-stage, Riley & Benson - (1) 36,500 Gal. Waterfrac

(2) 27,800 Gal. Waterfrac - 750 CWT Sand "20-40"

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ h0' Feet _____ Salt Water _____ Feet _____
Producing Sand Riley & Benson Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale			0	852	Water @ 40'	
Sand			852	890		
Sand & Shale			890	905		
Sand			905	990		
Sand & Shale			990	1358		
Red Rock & Shale			1358	1410		
Sand, Shale & Red Rock			1410	1430		
Big Lime			1430	1613		
Sand			1613	1670		
Sand & Shale			1670	1890		
Sand			1890	1970		
Sand & Shale			1970	2750		
Shale			2750	3705		
Sand & Shale			3705	4081		
Riley Sand			4081	4093		
Sand & Shale			4093	4386		
Benson Sand			4386	4394		
Shale			4394	4521 T. D.		

(over)

* Indicates Electric Log tops in the remarks section.

RECEIVED
Office of Oil and Gas
MAY 15 2026
WV Department of
Environmental Protection

06/26/2026

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks

RE
Office of
MAY 1
WV Dep
Environmen

06/26/2026

Select County: (001) Barbour ☒ Select datatypes: ☐ (Check All)

Enter Permit #: 00563

☒ Location ☒ Production ☒ Plugging
☒ Owner/Completion ☒ Stratigraphy ☒ Sample
☒ Pay/Show/Water ☒ Logs ☒ Blm Hole Loc

WV Geological & Economic Survey:

Well: County = 1 Permit = 00563 [Link to all digital records for well](#)

Report Time: Wednesday, June 24, 2026 8:57:03 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4700100563	Barbour	563	Pleasant	Brownfon	Philippi	39.218516	-80.141191	574137.1	4341377.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4700100563	12/-1971	Original Loc	Completed	Rosaltha Law	2	254-CH				Union Drilling, Inc.			

Completion Information:

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_BE	G_AFT	O_BI
4700100563	12/-1971	-/-	1130 Ground Level	Elk Crk(Ovrfl)	Benson	Benson	Development Well	Development Well	Gas	Rotary	Fractured	4521		4521		0	1100	

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BE	G_AFT	O_BE	O_AFT	WATER_QNTY
4700100563	12/-1971	Water	Fresh Water	Vertical			40						0
4700100563	12/-1971	Pay	Gas	Vertical	4059	Riley	4063	Riley	0	0			
4700100563	12/-1971	Pay	Gas	Vertical	4404	Benson	4408	Benson	0	0			

Production Gas Information: (Volumes in Mcf) * 2025 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4700100563	Union Drilling, Inc.	1981	3,587	316	436	523	389	295	134	147	0	240	328	355	424
4700100563	Union Drilling, Inc.	1983	1,894	161	452	258	99	217	17	0	222	3	257	144	64
4700100563	Union Drilling, Inc.	1984	1,861	64	205	10	163	19	79	63	55	250	305	390	258
4700100563	Union Drilling, Inc.	1985	1,066	131	224	11	269	99	84	0	0	234	0	13	1
4700100563	Union Drilling, Inc.	1986	2,809	64	210	283	290	264	224	283	220	335	331	179	126
4700100563	Union Drilling, Inc.	1987	1,634	105	102	206	104	183	131	202	294	0	0	0	307
4700100563	Equitable Resources Exploration, Inc.	1988	1,238	159	0	104	53	79	140	0	0	0	6	386	311
4700100563	Equitable Resources Exploration, Inc.	1990	1,784	141	288	319	147	200	172	108	26	0	189	194	0
4700100563	Fuel Resources, Inc.	1990	1,887	141	288	319	147	200	172	108	26	0	189	194	103
4700100563	Fuel Resources, Inc.	1991	430	136	39	53	79	123	0	0	0	0	0	0	0
4700100563	Fuel Resources, Inc.	1991	2,211	136	39	53	79	123	93	116	169	168	299	446	490
4700100563	Fuel Resources, Inc.	1992	2,978	498	351	304	319	293	207	205	118	74	155	184	270
4700100563	Fuel Resources, Inc.	1993	3,820	286	76	388	405	391	305	327	308	362	352	329	291
4700100563	Fuel Resources, Inc.	1994	3,230	169	207	336	292	283	278	147	304	299	325	299	291
4700100563	Fuel Resources, Inc.	1995	2,096	247	80	43	3	75	219	232	188	158	248	159	444
4700100563	Fuel Resources, Inc.	1996	3,136	520	403	324	217	247	216	226	212	181	126	230	234
4700100563	Fuel Resources, Inc.	1997	3,303	186	92	113	208	467	405	330	329	310	295	299	269
4700100563	Fuel Resources, Inc.	1998	1,825	284	284	240	221	214	162	132	129	0	159	0	0
4700100563	Fuel Resources, Inc.	1999	2,533	504	205	242	91	51	258	273	265	109	189	111	235
4700100563	Houston Exploration Company	2000	3,489	276	180	118	168	0	599	407	489	325	291	297	339
4700100563	Houston Exploration Company	2001	2,493	246	172	182	177	161	180	170	173	165	145	151	571
4700100563	Houston Exploration Company	2002	4,387	482	356	363	277	282	299	260	481	489	409	378	311
4700100563	Houston Exploration Company	2003	4,099	333	281	338	463	430	387	357	351	302	268	290	299
4700100563	Seneca-Upshur Petroleum Corp.	2004	2,878	260	237	277	246	276	256	227	221	243	236	207	192
4700100563	Seneca-Upshur Petroleum Corp.	2005	3,865	217	228	418	367	349	298	282	237	457	373	318	321
4700100563	Seneca-Upshur Petroleum Corp.	2006	3,162	318	321	302	268	237	141	266	263	245	286	242	273
4700100563	Seneca-Upshur Petroleum Corp.	2007	2,898	326	317	290	285	284	213	247	52	250	206	221	207
4700100563	Seneca-Upshur Petroleum Corp.	2008	3,460	189	283	531	384	293	229	0	276	296	223	367	389
4700100563	Seneca-Upshur Petroleum Corp.	2009	2,710	286	290	277	56	449	187	214	245	177	194	178	157
4700100563	Seneca-Upshur Petroleum Corp.	2010	2,290	135	170	160	197	247	191	211	179	194	179	157	270
4700100563	Petroleum Development Corp.	2011	2,019	256	210	172	152	158	153	165	161	154	147	147	144
4700100563	Seneca-Upshur Petroleum, LLC	2012	1,978	297	221	199	147	179	182	76	180	143	116	114	124
4700100563	Seneca-Upshur Petroleum, LLC	2013	1,070	146	121	123	102	102	103	85	97	101	90	0	0
4700100563	Alliance Petroleum Co., LLC	2014	643	82	64	36	16	14	21	28	134	71	55	11	111
4700100563	Alliance Petroleum Co., LLC	2015	984	57	9	58	108	98	108	103	96	108	82	88	69
4700100563	Alliance Petroleum Co., LLC	2016	827	58	72	62	91	87	20	102	71	88	49	36	91
4700100563	Alliance Petroleum Co., LLC	2017	1,019	101	80	95	83	93	82	88	87	55	92	71	92
4700100563	Alliance Petroleum Co., LLC	2018	1,015	97	76	101	76	92	145	26	77	69	75	55	126
4700100563	Alliance Petroleum Co., LLC	2019	1,793	153	116	145	164	158	159	160	136	155	160	145	142
4700100563	Diversified Production, LLC	2020	1,492	151	155	146	116	127	108	114	113	109	110	121	122
4700100563	Diversified Production, LLC	2021	1,504	120	111	109	121	111	134	134	130	128	133	129	138
4700100563	Diversified Production, LLC	2022	1,582	158	131	143	129	130	120	125	121	127	128	124	141
4700100563	Diversified Production, LLC	2023	1,174	136	121	112	110	120	111	125	120	108	111	0	0
4700100563	WV Mineral Group, LLC	2024	209	7	169	15	0	0	0	0	0	0	18	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2025 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4700100563	Union Drilling, Inc.	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Union Drilling, Inc.	1983	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Union Drilling, Inc.	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Union Drilling, Inc.	1985	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Union Drilling, Inc.	1986	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Union Drilling, Inc.	1987	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Equitable Resources Exploration, Inc.	1988	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Equitable Resources Exploration, Inc.	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Fuel Resources, Inc.	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Fuel Resources, Inc.	1991	1,781	0	0	0	0	0	93	116	169	168	199	446	590
4700100563	Fuel Resources, Inc.	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Fuel Resources, Inc.	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Fuel Resources, Inc.	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Fuel Resources, Inc.	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Fuel Resources, Inc.	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Fuel Resources, Inc.	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Fuel Resources, Inc.	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Fuel Resources, Inc.	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Fuel Resources, Inc.	1999	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Houston Exploration Company	2000	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Houston Exploration Company	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Houston Exploration Company	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Houston Exploration Company	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Seneca-Upshur Petroleum Corp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Seneca-Upshur Petroleum Corp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Seneca-Upshur Petroleum Corp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Seneca-Upshur Petroleum Corp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Seneca-Upshur Petroleum Corp.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Seneca-Upshur Petroleum Corp.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Seneca-Upshur Petroleum Corp.	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Petroleum Development Corp.	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Seneca-Upshur Petroleum, LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Seneca-Upshur Petroleum, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Alliance Petroleum Co., LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Alliance Petroleum Co., LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4700100563	Alliance Petroleum Co., LLC	2016	0												

4700100563P

[illegible][illegible]

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4700100563	Original Loc	Greenbrier Group	Well Record	1426	Reasonable	244	Reasonable	1130	Ground Level
4700100563	Original Loc	Big Lime	Well Record	1426	Reasonable	178	Reasonable	1130	Ground Level
4700100563	Original Loc	Big Injun (Grnbr)	Well Record	1604	Reasonable	66	Reasonable	1130	Ground Level
4700100563	Original Loc	Fourth	Well Record	2334	Reasonable	23	Reasonable	1130	Ground Level
4700100563	Original Loc	Fifth	Well Record	2388	Reasonable	48	Reasonable	1130	Ground Level
4700100563	Original Loc	Rilley	Well Record	4058	Reasonable	13	Reasonable	1130	Ground Level
4700100563	Original Loc	Benson	Well Record	4403	Reasonable	18	Reasonable	1130	Ground Level

API	STATUS	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	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_TOP	O_BOT	INCH2	INC
4700100563	Regular Entry	1300	4518		G.D.T.C.*	Y	1300	4509	1300	4518					1400	4500			1300	4515	N	Y

Downloadable Log Images/Data: We advise you to save the scanned log or digitized log file(s) to your PC for viewing. To do so, right-click the file of interest and select the save option. Then you can direct the file to a location of your choice. Please note the scanned log images vary in size and some may take several minutes to download.

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 Sample data for this well

U.S. Department of Labor

Mine Safety and Health Administration
1100 Wilson Boulevard
Arlington, Virginia 22209-3939



SEP 30 2013

In the matter of:
Wolf Run Mining Company
Sentinel Mine
I. D. No. 46-04168

Petition for Modification

Docket No: M-2012-002-C

PROPOSED DECISION AND ORDER

On January 1, 2012, a petition was filed seeking a modification of the application of 30 CFR 75.1700 to Petitioner's Sentinel Mine located near Buckhannon in Upshur County, West Virginia. The petitioner alleges that the alternative method outlined in the petition will at all times guarantee no less than the same measure of protection afforded by the standard.

On July 3, 2012, MSHA conducted an investigation of the petition and filed a report of their findings and recommendations with the Administrator for Coal Mine Safety and Health. After a careful review of the entire record, including the petition and MSHA's investigative reports and recommendations, this Proposed Decision and Order (PDO) is issued.

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

Finding of Fact and Conclusion of Law

The alternative method proposed by the Petitioner (as amended by the recommendations of MSHA) will at all times guarantee no less than the same measure of protection afforded the miners under 30 CFR 75.1700.

The Sentinel Mine operates in the Clarion coal seam and the mining height averages approximately 84 inches. The mine has three working sections utilizing continuous miners and produces approximately 8,000 tons of raw coal per day. Oil and gas production in this area includes older wells completed in the salt sands and newer wells that are targeting the Marcellus shale.

On the basis of the petition and the findings of MSHA's investigation, Wolf Run Mining Company, is granted a modification of the application of 30 CFR 75.1700 to its Sentinel Mine.

ORDER

Under the authority delegated by the Secretary of Labor to the Administrator for Coal Mine Safety and Health; and under § 101(c) of the Federal Mine Safety and Health Act of 1977, 30 U.S.C. § 811(c), and 30 C.F.R. Part 44, a modification of the application of 30 C.F.R. § 75.1700 at the Sentinel Mine is hereby:

GRANTED, subject to the following terms and conditions:

1. DISTRICT MANAGER APPROVAL REQUIRED :

- a. A safety barrier of 300 feet in diameter (150 feet between any mined area and a well) shall be maintained around all oil and gas wells (defined herein to include all active, inactive, abandoned, shut-in, and previously plugged wells, and including water injection wells) until approval to proceed with mining has been obtained from the district manager.
- b. Prior to mining within the safety barrier around any well, the mine operator shall provide to the district manager a sworn affidavit or declaration executed by a company official stating that all mandatory procedures for cleaning out, preparing, and plugging each gas or oil well have been completed as described by the terms and conditions of this order. The affidavit or declaration must be accompanied by all logs described in subparagraphs 2(a)(2) and 2(a)(3) below and any other records described in those subparagraphs which the district manager may request. The district manager will review the affidavit or declaration, the logs and any other records that have been requested, and may inspect the well itself, and will then determine if the operator has complied with the procedures for cleaning out, preparing and plugging each well as described by the terms and conditions of this Order. If the district manager determines that the procedures have been complied with, he will provide his approval, and the mine operator may then mine within the safety barrier of the well, subject to the terms of this Order.

- c. The terms and conditions of this Order apply to all types of coal mining.

2. MANDATORY PROCEDURES FOR CLEANING OUT, PREPARING, PLUGGING AND REPLUGGING OIL OR GAS WELLS

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

06/26/2026

a. MANDATORY PROCEDURES FOR CLEANING OUT AND PREPARING
OIL AND GAS WELLS PRIOR TO PLUGGING OR REPLUGGING

- (1) If the total depth of the well is less than 4,000 feet, the operator shall completely clean out the well from the surface to at least 200 ft. below the base of the lowest mineable coal seam, unless the district manager requires cleaning to a greater depth based on his judgment as to what is required due to the geological strata, or due to the pressure within the well (the operator shall provide the district manager with all information it possesses concerning the geological nature of the strata and the pressure of the well). If the total depth of the well is 4,000 feet, or greater, the operator shall completely clean out the well from the surface to at least 400 feet below the base of the lowest mineable coal seam. The operator shall remove all material from the entire diameter of the well, wall to wall.
- (2) The operator shall prepare down-hole logs for each well. They shall consist of a caliper survey and log(s) suitable for determining the top, bottom, and thickness of all coal seams and potential hydrocarbon producing strata and the location for a bridge plug. The district manager may approve the use of a down-hole camera survey in lieu of down-hole logs. In addition, a journal shall be maintained describing the depth of each material encountered, the nature of each material encountered; bit size and type used to drill each portion of the hole; length and type of each material used to plug the well; length of casing(s) removed, perforated or ripped or left in place, any sections where casing was cut or milled; and other pertinent information concerning cleaning and sealing the well. Invoices, work orders, and other records relating to all work on the well shall be maintained as part of this journal and provided to MSHA upon request.
- (3) When cleaning out the well as provided for in subparagraph (a)(1), the operator shall make a diligent effort to remove all of the casing in the well. If it is not possible to remove all of the casing, then the operator must take appropriate steps to ensure that the annulus between the casing and between the casings and the well walls are filled with expanding (minimum 0.5% expansion upon setting) cement and contain no voids. If the casing cannot be removed, it must be cut or milled at all mineable coal seam levels. Any casing which remains shall be perforated or ripped. Perforations or rips are required at least every 50 feet from 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the lowest mineable

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

06/26/2026

coal seam up to 100 feet above the uppermost mineable coal seam. If the operator, using a casing bond log, can demonstrate to the satisfaction of the district manager that all annuli in the well are already adequately sealed with cement, then the operator will not be required to perforate or rip the casing for that particular well. When multiple casing and tubing strings are present in the coal horizon(s), any casing which remains shall be ripped or perforated and filled with expanding cement as indicated above. An acceptable casing bond log for each casing and tubing string is needed if used in lieu of ripping or perforating multiple strings.

- (4) If the district manager concludes that the completely cleaned-out well is emitting excessive amounts of gas (potential to cut uncured cement), the operator must place a mechanical bridge plug in the well. It must be placed in a competent stratum at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the lowest mineable coal seam, but above the top of the uppermost hydrocarbon-producing stratum, unless the district manager requires a greater distance based on his judgment that it is required due to the geological strata, or due to the pressure within the well (the operator shall provide the district manager with all information it possesses concerning the geological nature of the strata and the pressure of the well). If it is not possible to set a mechanical bridge plug, an appropriately sized packer may be used.

- (5) If the upper-most hydrocarbon-producing stratum is within 300 feet of the base of the lowest minable coal seam, the operator shall properly place mechanical bridge plugs as described in subparagraph (a)(4) to isolate the hydrocarbon producing stratum from the expanding cement plug. Nevertheless, the operator shall place a minimum of 200 feet (400 feet if the total well depth is 4,000 feet or greater) of expanding cement below the lowest mineable coal seam, unless the district manager requires a greater distance based on his judgment that it is required due to the geological strata, or due to the pressure within the well.

b. MANDATORY PROCEDURES FOR PLUGGING OR REPLUGGING OIL OR GAS WELLS TO THE SURFACE.

After completely cleaning out the well as specified in paragraph 2(a) above, the following procedures shall be used to plug or replug gas or oil wells to the surface:

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

06/26/2026

(1) The operator shall pump expanding cement slurry down the well to form a plug which runs from at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the lowest mineable coal seam (or lower if required by the district manager based on his judgment that a lower depth is required due to the geological strata, or due to the pressure within the well) to the surface. The expanding cement will be placed in the well under a pressure of at least 200 pounds per square inch. Portland cement or a lightweight cement mixture may be used to fill the area from 100 feet above the top of the uppermost mineable coal seam (or higher if required by the district manager based on his judgment that a higher distance is required due to the geological strata, or due to the pressure within the well) to the surface.

(2) The operator shall embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 4 1/2 inch or larger casing, set in cement, shall extend at least 36 inches above the ground level with the API well number engraved or welded on the casing. When the hole cannot not be marked with a physical monument (i.e. prime farmland), high-resolution GPS coordinates (one-half meter resolution) are required.

c. MANDATORY PROCEDURES FOR PLUGGING OR REPLUGGING OIL AND GAS WELLS FOR USE AS DEGASIFICATION BOREHOLES.

After completely cleaning out the well as specified in paragraph 2(a) above, the following procedures shall be utilized when plugging or replugging oil or gas wells that are used as degasification boreholes:

- (1) The operator shall set a cement plug in the well by pumping an expanding cement slurry down the tubing to provide at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) of expanding cement below the lowest mineable coal seam, unless the district manager requires a greater depth based on his judgment that a greater depth is required due to the geological strata, or due to the pressure within the well. The expanding cement will be placed in the well under a pressure of at least 200 pounds per square inch. The top of the expanding cement shall extend at least 50 feet above the top of the coal seam being mined, unless the district manager requires a greater distance based on his judgment that a greater distance is required due to the geological strata, or due to the pressure within the well.

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

- (2) The operator shall securely grout into the bedrock of the upper portion of the degasification well, a suitable casing in order to protect it. The remainder of this well may be cased or uncased.
- (3) The operator shall fit the top of the degasification casing with a wellhead equipped as required by the district manager in the approved ventilation plan. Such equipment may include check valves, shut-in valves, sampling ports, flame arrestor equipment, and security fencing.
- (4) Operation of the degasification well shall be addressed in the approved ventilation plan. This may include periodic tests of methane levels and limits on the minimum methane concentrations that may be extracted.
- (5) After the area of the coal mine that is degassed by a well is sealed or the coal mine is abandoned, the operator must seal degas holes using the following procedures:
 - (i) The operator shall insert a tube to the bottom of the drill hole or, if not possible, to at least 100 feet above the coal seam being mined. Any blockage must be removed to ensure that the tube can be inserted to this depth.
 - (ii) The operator shall set a cement plug in the well by pumping Portland cement or a lightweight cement mixture down the tubing until the well is filled to the surface.
 - (iii) The operator shall embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 4 1/2 inch or larger casing, set in cement, shall extend at least 36 inches above the ground level with the API well number engraved or welded on the casing.

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

d. MANDATORY ALTERNATIVE PROCEDURES FOR PREPARING AND PLUGGING OR REPLUGGING OIL OR GAS WELLS.

06/26/2026

4700100563

The following provisions apply to all wells which the operator determines, and the MSHA district manager agrees, cannot be completely cleaned out due to damage to the well caused by subsidence, caving or other factors.

(1) The operator shall drill a hole adjacent and parallel to the well, to a depth of at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the lowest mineable coal seam, unless the district manager requires a greater depth based on his judgment that a greater depth is required due to the geological strata, or due to the pressure within the well.

(2) The operator shall use a geophysical sensing device to locate any casing which may remain in the well.

(3) If the well contains casing(s), the operator shall drill into the well from the parallel hole. From 10 feet below the coal seam to 10 feet above the coal seam, the operator shall perforate or rip all casings at intervals of at least 5 feet. Beyond this distance, the operator shall perforate or rip at least every 50 feet from at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the lowest mineable coal seam up to 100 feet above the seam being mined, unless the district manager requires a greater distance based on his judgment that a greater distance is required due to the geological strata, or due to the pressure within the well. The operator shall fill the annulus between the casings and between the casings and the well wall with expanding (minimum 0.5% expansion upon setting) cement, and shall ensure that these areas contain no voids. If the operator, using a casing bond log, can demonstrate to the satisfaction of the district manager that the annulus of the well is adequately sealed with cement, then the operator will not be required to perforate or rip the casing for that particular well, or fill these areas with cement. When multiple casing and tubing strings are present in the coal horizon(s), any casing which remains shall be ripped or perforated and filled with expanding cement as indicated above. An acceptable casing bond log for each casing and tubing string is needed if used in lieu of ripping or perforating multiple strings.

(4) Where the operator determines, and the district manager agrees, that there is insufficient casing in the well to allow the method outlined in subparagraph (d)(3) to be used, then the operator shall use a horizontal hydraulic fracturing technique to intercept the original well. From at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the lowest mineable coal seam to a point at least 50 feet above the seam being mined, the operator shall fracture in at least six places (12 places if the total well depth is 4,000 feet or greater) at intervals to be agreed upon by the operator and the district manager after considering the

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

06/26/2026

4700100563

geological strata and the pressure within the well. The operator shall then pump expanding cement into the fractured well in sufficient quantities and in a manner which fills all intercepted voids.

(5) The operator shall prepare down-hole logs for each well. They shall consist of a caliper survey and log(s) suitable for determining the top, bottom, and thickness of all coal seams and potential hydrocarbon producing strata and the location for the bridge plug. The operator may obtain the logs from the adjacent hole rather than the well if the condition of the well makes it impractical to insert the equipment necessary to obtain the log. The district manager may approve the use of a down-hole camera survey in lieu of down-hole logs if in his judgment such logs would not be suitable for obtaining the above-listed data or are impractical to obtain due to the condition of the drill hole. A journal shall be maintained describing the depth of each material encountered, the nature of each material encountered; bit size and type used to drill each portion of the hole; length and type of each material used to plug the well; length of casing(s) removed, perforated or ripped or left in place; and other pertinent information concerning sealing the well. Invoices, work-orders, and other records relating to all work on the well shall be maintained as part of this journal and provided to MSHA upon request.

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

(6) After the operator has plugged the well as described in subparagraphs (d)(3) and/or (d)(4), the operator shall plug the adjacent hole, from the bottom to the surface, with Portland cement or a lightweight cement mixture. The operator shall embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 4 1/2 inch or larger casing, set in cement, shall extend at least 36 inches above the ground level.

A combination of the methods outlined in subparagraphs (d)(3) and (d)(4) may have to be used in a single well, depending upon the conditions of the hole and the presence of casings. The operator and the district manager should discuss the nature of each hole. The district manager may require that more than one method be utilized.

3. MANDATORY PROCEDURES AFTER APPROVAL HAS BEEN GRANTED BY THE DISTRICT MANAGER TO MINE WITHIN THE SAFETY BARRIER, OR TO MINE THROUGH A PLUGGED OR REPLUGGED WELL

06/26/2026

- a. A representative of the operator, a representative of the miners, the appropriate State agency, or the MSHA district manager may request that a conference be conducted prior to mining through any plugged or replugged well. Upon receipt of any such request, the district manager shall schedule such a conference. The party requesting the conference shall notify all other parties listed above within a reasonable time prior to the conference to provide opportunity for participation. The purpose of the conference shall be to review, evaluate, and accommodate any abnormal or unusual circumstance(s) related to the condition of the well or surrounding strata when such conditions are encountered.
- b. The operator shall mine through a well on a shift approved by the district manager. The operator shall notify the district manager and the miners' representative in sufficient time prior to mining through a well in order to provide an opportunity to have representatives present.
- c. When using continuous mining methods, the operator shall install drivage sights at the last open crosscut near the place to be mined to ensure intersection of the well. The drivage sites shall not be more than 50 feet from the well. When using longwall-mining methods, drivage sights shall be installed on 10-foot centers for a distance of 50 feet in advance of the well. The drivage sights shall be installed in the headgate.
- d. The operator shall ensure that fire-fighting equipment including fire extinguishers, rock dust, and sufficient fire hose to reach the working face area of the mine through (when either the conventional or continuous mining method is used) is available and operable during all well mine throughs. The fire hose shall be located in the last open crosscut of the entry or room. The operator shall maintain the water line to the belt conveyor tailpiece along with a sufficient amount of fire hose to reach the farthest point of penetration on the section. When the longwall mining method is used, a hose to the longwall water supply is sufficient.
- e. The operator shall ensure that sufficient supplies of roof support and ventilation materials shall be available and located at the last open crosscut. In addition, emergency plugs and suitable sealing materials shall be available in the immediate area of the well intersection.
- f. On the shift prior to mining through the well, the operator shall service all equipment and check it for permissibility. Water sprays, water pressures and water flow rates used for dust and spark suppression shall be examined and any deficiencies corrected.

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

- g. The operator shall calibrate the methane monitor(s) on the longwall, continuous mining machine, or cutting machine and loading machine on the shift prior to mining through the well.
- h. When mining is in progress, the operator shall perform tests for methane with a handheld methane detector at least every 10 minutes from the time that mining with the continuous mining machine or longwall face is within 30 feet of the well until the well is intersected and immediately prior to mining through it. During the actual cutting process, no individual shall be allowed on the return side until the mine through has been completed and the area has been examined and declared safe. All workplace examinations will be conducted on the return side of the shearer while the shearer is idle.
- i. When using continuous or conventional mining methods, the working place shall be free from accumulations of coal dust and coal spillages, and rock dust shall be placed on the roof, rib, and floor to within 20 feet of the face when mining through the well. On longwall sections, rock dusting shall be conducted and placed on the roof, rib, and floor up to both the headgate and tailgate gob.
- j. When the well is intersected, the operator shall de-energize all equipment, and thoroughly examine and determine the area is safe before mining is resumed.
- k. After a well has been intersected and the working place determined safe, mining shall continue in by the well a sufficient distance to permit adequate ventilation around the area of the well.
- l. If the casing is cut or milled at the coal seam level, the use of torches should not be necessary. However, in rare instances, torches may be used for inadequately or inaccurately cut or milled casings. No open flame shall be permitted in the area until adequate ventilation has been established around the well bore and methane levels of less 1.0% are present in all areas that will be exposed to flames and sparks from the torch. The operator shall apply a thick layer of rock dust to the roof, face, floor, ribs and any exposed coal within 20 feet of the casing prior to any use of torches.
- m. Non-sparking (brass) tools will be located on the working section and will be used to expose and examine cased wells.

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

- n. No person shall be permitted in the area of the mine through operation except those actually engaged in the operation, including company personnel, representatives of the miners, personnel from MSHA, and personnel from the appropriate State agency.
- o. The operator shall alert all personnel in the mine to the planned intersection of the well prior to their going underground if the planned intersection is to occur during their shift. This warning shall be repeated for all shifts until the well has been mined through.
- p. The mine through operation shall be under the direct supervision of a certified individual. Instructions concerning the mine through operation shall be issued only by the certified individual in charge.
- q. The provisions of this Order do not impair the authority of representatives of MSHA to interrupt or halt the mine through operation, and to issue a withdrawal order, when they deem it necessary for the safety of the miners. MSHA may order an interruption or cessation of the mine through operation and/or a withdrawal of personnel by issuing either a verbal or written order to that effect to a representative of the operator, which order shall include the basis for the order. Operations in the affected area of the mine may not resume until a representative of MSHA permits resumption of mine through operations. The mine operator and miners shall comply with verbal or written MSHA orders immediately. All verbal orders shall be committed to writing within a reasonable time as conditions permit.
- r. A copy of this Order shall be maintained at the mine and be available to the miners.
- s. Within 30 days after this Order becomes final, the operator shall submit proposed revisions for its approved 30 C.F.R. Part 48 training plan to the district manager. These proposed revisions shall include initial and refresher training regarding compliance with the terms and conditions stated in the Order. The operator shall provide all miners involved in the mine through of a well with training regarding the requirements of this Order prior to mining within 150 feet of the next well intended to be mined through.
- t. The responsible person required under 30 C.F.R. § 75.1501 is responsible for well intersection emergencies. The well intersection procedures should be reviewed by the responsible person prior to any planned intersection.

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

- u. Within 30 days after this Order becomes final, the operator shall submit proposed revisions for its approved mine emergency evacuation and firefighting plan required by 30 CFR § 75.1501. The operator will revise the plans to include the hazards and evacuation procedures to be used for well intersections. All underground miners will be trained in this revised plan within 30 days of the submittal of the revised evacuation plan.

Any party to this action desiring a hearing on this matter must file in accordance with 30 CFR 44.14, within 30 days. The request for hearing must be filed with the Administrator for Coal Mine Safety and Health, 1100 Wilson Boulevard, Arlington, Virginia 22209-3939.

If a hearing is requested, the request shall contain a concise summary of position on the issues of fact or law desired to be raised by the party requesting the hearing, including specific objections to the proposed decision. A party other than Petitioner who has requested a hearing shall also comment upon all issues of fact or law presented in the petition, and any party to this action requesting a hearing may indicate a desired hearing time. If no request for a hearing is filed within 30 days after service thereof, the Decision and Order will become final and must be posted by the operator on the mine bulletin board at the mine.



Charles J. Thomas
Deputy Administrator for
Coal Mine Safety and Health

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

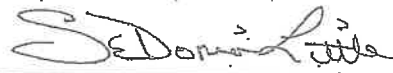
06/26/2026

4700100563

Certificate of Service

I hereby certify that a copy of this Proposed Decision and Order was served personally or mailed, postage prepaid, this 30th day of September, 2013, to:

Mr. Nathan Sypolt
Project Engineer
Wolf Run Mining Company
99 Edmiston Way
Buckhannon, WV 26201



SeDonia Little
Secretary

cc: Mr. C.A. Phillips, Acting Director
Office of Miners' Health Safety & Training,
Dept of Energy, Division of Mines & Minerals
1615 Washington Street
Charleston, WV 25311

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

06/26/2026

WW-4A
Revised 6-07

1) Date: 5/5/26
2) Operator's Well Number
(2) #254-CH

3) API Well No.: 47 - 001 - 00563

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:

(a) Name Shelia Marie Vukovich
Address 425 Highview Place
Morgantown, WV 26505

(b) Name Carol A. Spear
Address 115 N. View Drive
Bruceston, WV 26525

(c) Name _____
Address _____

6) Inspector

Kenny Willett
Address 2393 Tallmansville Road
Buckhannon, WV 26201
Telephone (681)-990-2567

5) (a) Coal Operator

Name Wolf Run Mining LLC
Address 100 Tygart Drive
Grafton, WV 26354

(b) Coal Owner(s) with Declaration

Name _____
Address _____

Name _____
Address _____

(c) Coal Lessee with Declaration

Name _____
Address _____

RECEIVED
Office of Oil and Gas
MAY 15 2026
WV Department of
Environmental Protection

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 Wolf Run Mining LLC

By: Dustin Kimble *Dustin Kimble*

Its: Designated Agent

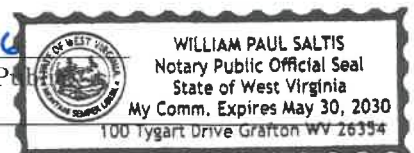
Address 100 Tygart Drive
Grafton, WV 26354

Telephone 304-265-9777

Subscribed and sworn before me this 5th day of May

2026
Notary Public

My Commission Expires May 30th 2030



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.

06/26/2026

SURFACE OWNER WAIVER

4700100563P

Operator's Well
Number

(2) #254-CH

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

RECEIVED
Office of Oil and Gas
MAY 15 2026
WV Department of
Environmental Protection

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

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

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

Signature

Date

Name
By
Its

Date

Signature

Date
06/26/2026

4700100563f

9589 0710 5270 0601 9822 45

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ™.	
OFFICIAL	
Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$
☐ Return Receipt (electronic)	\$
☐ Certified Mail Restricted Delivery	\$
☐ Adult Signature Required	\$
☐ Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage	\$
Sent To	
Street and	
City, State	
Shelia M. Vukovich 425 Highview Drive Morgantown, WV 26505	
PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions	

9589 0710 5270 0601 9822 21

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ™.	
OFFICIAL	
Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$
☐ Return Receipt (electronic)	\$
☐ Certified Mail Restricted Delivery	\$
☐ Adult Signature Required	\$
☐ Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage	\$
Sent To	
Street and	
City, State	
Carol A. Spear 115 N. View Drive Bruceton, WV 26525	
PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions	

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

06/26/2026



Dustin T. Kimble

Land Agent

P 304.265.9777

E dustinkimble@coreresources.com

4700100563P

May 5, 2026

Carol A. Spear
115 N. View Drive
Bruceton, WV 26525

Re: Plugging Permit- API 47-001-00563

Mrs. Spear,

As required by the permit process of the WV Department of Environmental Protection- Office of Oil and Gas, enclosed, please find a copy of the plugging permit applications for the above referenced well that Wolf Run Mining LLC plans to submit to the WV Department of Environmental Protection- Office of Oil and Gas.

If there are no objections to the plugging permit application, please sign the page titled Surface Owner Waiver and return in the enclosed self-addressed envelope.

If you have any questions concerning this application, please feel free to contact me at 304-265-9777 or at dustinkimble@coreresources.com.

Sincerely,

A handwritten signature in blue ink that reads 'Dustin Kimble'.

Dustin Kimble

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

06/26/2026



CORE
Natural Resources

Dustin T. Kimble

Land Agent

P 304-265-9777

E dustinkimble@coreresources.com

4700100563 P

May 5, 2026

Shelia M. Vukovich
425 Highview Place
Morgantown, WV 26505

Re: Plugging Permit- API 47-001-00563

Ms. Vukovich,

As required by the permit process of the WV Department of Environmental Protection- Office of Oil and Gas, enclosed, please find a copy of the plugging permit applications for the above referenced well that Wolf Run Mining LLC plans to submit to the WV Department of Environmental Protection- Office of Oil and Gas.

If there are no objections to the plugging permit application, please sign the page titled Surface Owner Waiver and return in the enclosed self-addressed envelope.

If you have any questions concerning this application, please feel free to contact me at 304-265-9777 or at dustinkimble@coreresources.com.

Sincerely,

Dustin Kimble

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

06/26/2026

WW-4B

4700100563 P

API No. 47-001-00563
Farm Name Law, Rosaltha- Heirs
Well No. (2) #254-CH

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.

RECEIVED
Office of Oil and Gas

MAY 15 2026

WAIVER

WV Department of
Environmental Protection

The undersigned coal operator X / 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: 5/11/2026

Wolf Run Mining LLC

By: [Signature]

Its VICE PRESIDENT

06/26/2026

4700100563P

WW-9
(5/16)API Number 47 - 001 - 00563
Operator's Well No. (2) #254-CHSTATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLANOperator Name Wolf Run Mining LLC OP Code _____Watershed (HUC 10) Camp Run Quadrangle Philippi (545)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: N/AWill 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 Tanks- See attached letter)

Will closed loop system be used? If so, describe: Yes, Gel circulated from tank thru well bore and returned to tankDrilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Freshwater-If oil based, what type? Synthetic, petroleum, etc.Additives to be used in drilling medium? Bentonite, Bicarbonate or SodaDrill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed offsite

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

-Landfill or offsite name/permit number? Wolf Run Mining LLC- Permit No O-113-83

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 Dustin KimbleCompany Official (Typed Name) Dustin KimbleCompany Official Title Designated AgentSubscribed and sworn before me this 5th day of May, 2026Nick Paul Sen Notary PublicMy commission expires May 30th 2030

06/26/2026

Operator's Well No. (2) #254-CH

Proposed Revegetation Treatment: Acres Disturbed 1.50/2.0 Prevegetation pH _____Lime 3 Tons/acre or to correct to pH 6.5Fertilizer type 10-20-20 or equivalentFertilizer amount 500 lbs/acreMulch Hay Bales Tons/acreSeed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	<u>12</u>	Orchard Grass	<u>12</u>
Landino Clover	<u>3</u>	Landino Clover	<u>3</u>
Timothy	<u>10</u>	Timothy	<u>10</u>

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: Kenny Willett

Comments: _____

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental ProtectionTitle: InspectorDate: 5/6/26Field Reviewed? ☒ Yes☐ No

06/26/2026



Dustin T. Kimble

Land Agent

P 304•265•9777

E dustinkimble@coreresources.com

4700100563P

May 5, 2026

WV Department of Environmental Protection
Office of Oil and Gas
601 – 57th Street, S.E.
Charleston, West Virginia 25304

To Whom It May Concern:

As per the WV Department of Environmental Protection, Office of Oil and Gas request, Wolf Run Mining LLC, submits the following procedures utilizing pit waste.

Upon submitting a well work application (without a general permit for Oil and Gas Pit Waste Discharge Application), Wolf Run Mining LLC will construct no pits, but instead will use mud tanks to contain all drilling muds.

Once the well plugging is completed, that material (minus the cave material) will be trucked to the next well to be plugged or to Wolf Run Mining LLC DEP impoundment facilities O011383 or to an approved facility that can handle the material.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Dustin Kimble', is written over a horizontal line.

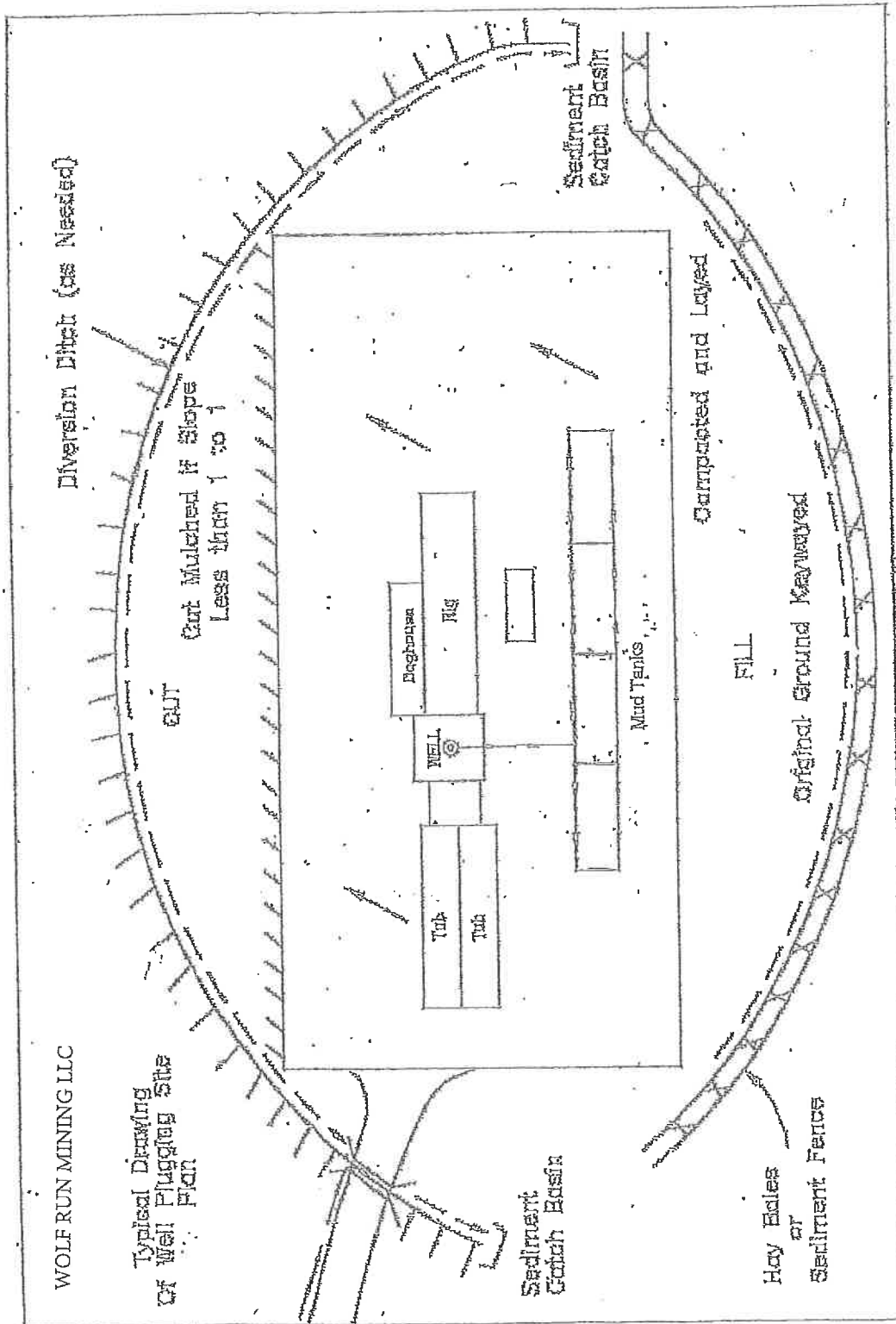
Dustin Kimble

RECEIVED
Office of Oil and Gas

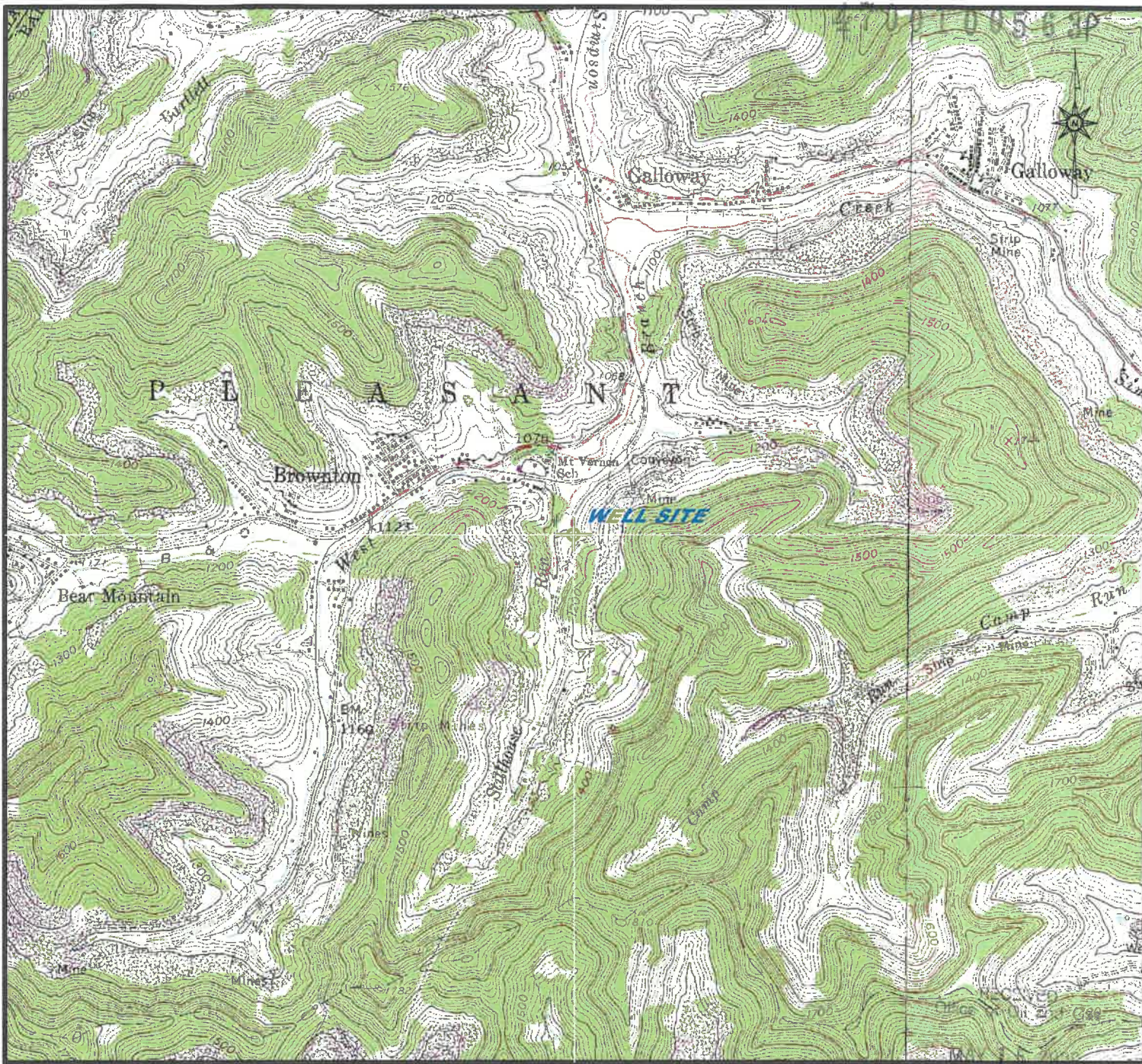
MAY 15 2026

WV Department of
Environmental Protection

06/26/2026



RECEIVED
Office of Oil and Gas
MAY 15 2026
WV Department of
Environmental Protection



LATITUDE: 39° 13' 05.53"
 LONGITUDE: 80° 08' 29.61"
 NEAREST WATERCOURSE: Stillhouse Run
 NEAREST TOWN: Galloway

WV Department of
 Environmental Protection

OPERATOR'S WELL NO. (2) #254-CH
 API WELL NO.

47 - 001 - 00563
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS ☒ LIQUID INJECTION WASTE DISPOSAL

(IF "GAS") PRODUCTION ☒ STORAGE DEEP SHALLOW ☒

LOCATION: ELEVATION 1126.60' WATERSHED Stillhouse Run

DISTRICT Pleasant COUNTY Barbour

QUADRANGLE Brownton and Phillip 7 1/2'

SURFACE OWNER: Sheila Marie Vuckovich and Carol A. Spear ACREAGE 313.00

OIL & GAS ROYALTY OWNER Sheila Marie Vuckovich and Carol A. Spear LEASE ACREAGE 313.00

LEASE NO.

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL

FRACTURE OR STIMULATE PLUG OFF OLD FORMATION

PERFORATE NEW FORMATION

OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUG AND ABANDON ☒ CLEAN OUT AND REPLUG

TARGET FORMATION Benson and Riley ESTIMATED DEPTH 4521'

WELL OPERATOR Wolf Run Mining LLC DESIGNATED AGENT Dustin Kimble

ADDRESS 100 Tygart Drive, Grafton, WV 26354 ADDRESS 100 Tygart Drive, Grafton, WV 26354

DRAWN	
DATE	BY
4/26	TAN
REVISED	
DATE	BY



Wolf Run Mining LLC
 A Subsidiary of Core Natural Resources, Inc.
 100 Tygart Drive, Grafton, WV 26354

API WELL NO. 47-001-00563
 WELL NO. (2) #254-CH
 LOCATION MAP

APPROVED		Pleasant District Phillip WV 7.5' Quadrangle		Barbour County West Virginia	
DATE	BY	TOPOGRAPHIC CONTOUR INTERVAL = 20'	Scale: 1"=2000'	File No.: 47-001-00563 Well (2) #254-CH.dgn	Sheet No.: 1 of 1

Path DWG\WOLF RUN\SENTINEL\SENTINEL PERMITS\WV OIL & GAS\SENTINEL PERMITS

06/26/2026

WW-7
8-30-06

4700100563P



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

API: 47-001-00563 WELL NO.: (2) #254-CH
FARM NAME: Law, Rosaltha- Heirs
RESPONSIBLE PARTY NAME: Wolf Run Mining LLC
COUNTY: Barbour DISTRICT: Pleasant
QUADRANGLE: Philippi
SURFACE OWNER: Sheila Marie Vukovich & Carol A. Spear
ROYALTY OWNER: Law, Rosaltha- Heirs
UTM GPS NORTHING: 4431123.18
UTM GPS EASTING: 574091.04 GPS ELEVATION: 1,126.50

RECEIVED
Office of Oil and Gas

MAY 15 2026

WV Department of
Environmental Protection

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.

Debi Khan
Signature

Designated Agent
Title

5/5/26
Date

06/26/2026