

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, July 23, 2025
WELL WORK PLUGGING PERMIT
Vertical Plugging

EXPAND OPERATING LLC 6100 N WESTERN AVE.

OKLAHOMA CITY, OK 73118

Re: Permit approval for 20616 47-057-00022-00-00

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

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

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

James A. Martin

Chief

Operator's Well Number: 20616

Farm Name: MASTELLAR COAL CO.

U.S. WELL NUMBER: 47-057-00022-00-00

Vertical Plugging Date Issued: 7/23/2025

PERMIT CONDITIONS

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

CONDITIONS

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.
- 4. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing.

1) Dat	e MAY	7			, :	20 25	
	rator				7	-	
Wel	l No.	MASTE	LLAR	COA	L CO	2	
3) APT	Well	No.	47	-	057	00022	

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

	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas X/ Liquid (If "Gas, Production or Und	derground storage) Deep/ Shallow
5)	Location: Elevation 1,862 District NEW CREEK	Watershed PURR SPRING RUN County MINERAL Quadrangle WESTERNPORT
6)	Well Operator Address Address EXPAND OPERATING LLC PO BOX 18496 OKLAHOMA CITY, OK 73154-0496	Address Boo Perspent Dr. S., + 201 Morgantawan W V 26508
8)	Oil and Gas Inspector to be notified Name GAYNE J KNITOWSKI	Name PLANTS AND GOODWIN
	Address 601 57TH STREET SE	Address 360 HIGH STREET
	CHARLESTON, WV 25304	BRADFORD, PA 16701
		Office of Oil and Gas
		JUN 23 2025
		WV Department of Environmental Protection
	fication must be given to the district of can commence.	il and gas inspector 24 hours before permitted
Work	Gayne corder approved by inspector Knitowski	Digitally signed by Gayne Knitowski Date: 2025.06.03 08:08:58 -04'00' Date 6-3-2025



Gayne Digitally signed by Gayne Knitowski Date: 2025.06.03 No.06:16-04:00

Plug & Abandon

County/State: MINERAL, WV Township: NEW CREEK BLM: NO Latitude: 39.402333725 Longitude: -79.0455659826 (NAD 83)

Property Number: 620616 API: 4705700022

AFE: WO:

Summary

The MASTELLAR COAL CO 2 will be plugged and abandoned. The well is located in MINERAL County, WV and was spud on 05-03-1979 by Columbia Natural Resource, targeting the Oriskany as a Vertical well. The last know production date for this well was 01-00-1900 where it produced MCF, BO, and BW.

Pull 8,580' of Production Tubing
Run CBL
Cut and Pull ~6,950' of 7" 26/23# Production Casing
(3) 200' & (1) 100' Cement Plugs. See detail on Page 9
Gel detail on Page 10

	Guideline
Step	Operation
	To align with the intended barrier design and designation in this procedure, on-site supervision is expected to review the relevant well history and parameters that could impact the efficacy of a barrier, or present mechanical issues with the wellbore. Per the Well Control Standard (OGB-CHK-STD-001): If any of the required minimum barriers fail or otherwise become non-operational, the well shall be immediately secured and operations suspended until a procedure to re-establish the minimum number of barriers is approved. Preferred Well Control Method – Bullhead Method. The goal will be to apply a volume of fluid with sufficient density to exceed reservoir pressure.
1	Hold safety meeting and PJSA prior to each significant operation. Review critical parameters and objectives as well as emergency action plans. Everyone on location has stop work authority. If work is stopped or course needs altered contact COI.
2	Observe condition of location before moving equipment onto location. Notify superintendent of any spills, trash, or tanks/equipment left on location. Clean and dress location.
3	Record and report all casing pressures in Wellview.
4	Negative pressure test all valves. Grease valves if necessary.

	Flow Path		
Barriers	Production Casing X Tubing	Tubing Office and Color	
Primary			
Secondary		JUN 23	
Tertiary		W/D-	

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	Pump KWF at Start of Job
Step	Operation
5	MIRU pump truck to production wing valve off. Prepare to leave rigged up until CIBP with cement is set in production casing.
6	Pump fluid down production casing until a Qualified Hydrostatic Barrier (QHB) is established and maintained, per Section 4.2 of Well Control Standard (OGB-CHK-STD-001).
7	Perform flow check to ensure QHB is established. a. Contact supervisor and OKC engineer if higher weight kill fluid is required.
8	Complete Well Control Standard (OGB-CHK-STD-001) Exception to remove casing wing needle valve and install 2" ball valve.

	Flow Path		
Barriers	Production Casing X Tubing	Tubing	
Primary	Tubing Hanger Seals	QHB	
Secondary	Master Valve	Master Valve	
Tertiary			

	Nipple Up WOR BOPs (Test against Master Valve)
Step	Operation
9	ND master valves and NU 7-1/16" 10K master valve to tubing head and close.

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Barriers	Production Casing X Tubing	Tubing	
Primary	QHB	QHB	
Secondary	Tubing Hanger Seals	Pump through plug	
Tertiary		TWC	

	Pre	essure test 7-1/16" 10K master valve against TWC to 250 / 4,500 psi.
10		If unable to install TWC in tubing hanger, NU wireline lubricator, wireline rams, primary pressure control, set
	a.	test plug with wireline ~100'-200'. Test 7-1/16" 10K flange against test plug to 250 / 4,500 psi.
	NU	J 7-1/16" WOR BOPs and 2.375 Annular. Function and pressure test each ram. (T to B)
44	a.	Annular - Test against closed 7-1/16" master valve to 250 / 2,500 psi.
11	b.	Pipe Ram - Test against closed 7-1/16" master valve to 250 / 4,500 psi.
	c.	Blind Ram - Test through kill port against closed 7-1/16" master valve to 250 / 4,500 psi.

	Flow Path		
Barriers	Production Casing X Tubing	Tubing	
Primary	QHB	QHB	
Secondary	Tubing Hanger Seals	Pump Through Plug	
Tertiary	Master Valve	TWC / Master Valve ///A	

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	Pull Tubing
Step	Operation
12	If applicable, release packer and let elastomers relax for 20 min.

	Flow Path		
Barriers	Production Casing X Tubing	Tubing	
Primary	QHB	QHB	
Secondary	Annular	Pump Through Plug	
Tertiary	Pipe Ram	TIW	

	TO	OH laying down tubing	
40	a.	Ensure appropriate TIW valve (in open position) w/ operating key is always on the rig floor.	
13	b.	To continuously maintain QHB, should utilize trickle fluid method or monitor fluid level.	
	c.	If pulling packer, ensuire pulling speeds are low enough to prevent swabbing.	

14 Close 7-1/16" Master valve and Blind Ram

· · · · · · · · · · · · · · · · · · ·	Flow Path
Barriers	Production Casing
Primary	QHB
Secondary	Master Valve
Tertiary	Blind Ram

	Set CIBPs
Step	Operation
Note:	: For slickline work detailing barrier envelope, barrier testing, surface equipment specs for this operation refer to
	Marcellus Production Wireline, Slickline, Braided Line Barrier Template."
15	Close master valve, NU wireline lubricator, wireline rams, primary pressure control, and test against upper
15	master valve to 250 psi low / and a high pressure to a minimum of well's SICP pre-job.

	Flow Path	
Barriers	Production Casing	
Primary	QHB	
Secondary	Master Valve	
Tertiary	Blind Ram	RECE

16 Round trip 6.20" OD gauge ring to 8,489'.

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47	Plug Details - Plug #1 - CIBP - CIBP Perf Isolation Make up and RIH with CIBP and set at depth defined in Plug Details. Using CCL do not place CIBP acros	V Department of onmental Protection s collar.
18	Pressure test CIBP to 1,500 psi or 80% of casing burst pressure accounting for hydrostatic to CIBP depth ever is less.	ı, which

19	Run pressurized CBL log from CIBP to surface. Reported estimated TOC at 7,000'.
20	ND wireline lubricator, wireline rams, primary pressure control.

	Pump Cement and Spacer and Tac Weld Slips
Step	Operation
21	Prep 8,387' of 2-3/8" 4.7# L-80 workstring.
22	Change out pipe rams to handle 2-3/8" 4.7# L-80 workstring.
	TIH w/ 2-3/8" workstring and tag TOC/CIBP.
23	a. Ensure appropriate TIW valve with the operating key always on the rig floor. TIW valve must be in open
	b. To continuously maintain QHB, should utilize trickle fluid method or monitor fluid level.

Barriers	Flow Path	
	Production Casing X Workstring	Workstring
Primary	CIBP	CIBP
Secondary	QHB	QHB
Tertiary	Annular / Pipe Ram	TIW

	Plug Details - Plug #2 - Cement - Cement Perf Isolation
24	Pump balanced cement plug as directed in Plug Detials, displace tubing with specified volume. POOH 1,500'
	above estimated TOC. Close pipe ram. WOC for at least 8 hours.
25	Tag top of cement. Record depth.
26	TIH w/ workstring to bottom of spacer #1 and pump spacer as defined in Spacer Details.
27	POOH w/ workstring.
	Establish hot work permit. Perform LEL assessment of well head and ensure LEL monitoring remains in place.
	Make sure well is static. Place fire extinguishers near wellhead and ensure fire watch is designated as outlined
28	by hot work permit. ND Tubing Head, 7-1/16" Master Valve, 7-1/16" WOR BOPs and tac weld 7" casing slips to 7"
	casing.

	Flow Path	
Barriers Barriers	Production X Intermediate Casing	Production Casing
Primary	Casing Packoff	CIBP
Secondary	QHB	Cement
Tertiary		QHB

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Nipple Up WOR BOPs (Test against CIBP)				
Step	Operation			
29	NU 11" WOR BOPs and annular. Torque all bolts/nuts to spec.			

Barriers	Flow Path	
	Production Casing X Tubing	Tubing
Primary	QHB	QHB
Secondary	Tubing Hanger Seals	Pump through plug
Tertiary		TWC

	NL	11" WOR BOPs and 11" Annular. Function and pressure test each ram. (T to B)
7	0	Annular - Test against CIBP to 250 low / 1,500 psi or 80% of casing burst pressure accounting for hydrostatic to CIBP depth, which ever is less.
30		Pipe Ram - Test against CIBP to 250 low / 1,500 psi or 80% of casing burst pressure accounting for hydrostatic to CIBP depth, which ever is less.
		Blind Ram - Test through kill port against CIBP to 250 low / 1,500 psi or 80% of casing burst pressure accounting for hydrostatic to CIBP depth, which ever is less.

	Flow Path	
Barriers	Production Casing X Tubing	Tubing
Primary	Casing Packoff	CIBP
Secondary	QHB	Cement
Tertiary		QHB

	Cut Casing
Step	Operation
Note:	: For slickline work detailing barrier envelope, barrier testing, surface equipment specs for this operation refer to
the "I	Marcellus Production Wireline, Slickline, Braided Line Barrier Template."
	Shut 7-1/16" Master Valve. NU wireline lubricator, wireline rams, primary pressure control, and test against
31	upper master valve to 250 psi low / and a high pressure to a minimum of well's SICP pre-job.

	Flow Path	
Barriers Barriers	Production Casing	
Primary	CIBP	RECEIVED
Secondary	QHB	Office of Oil and
Tertiary	Master Valve / Blind Ram	IIIN 93 20

32	Using TOC from CBL, Round trip 3.87" gauge ring to desired depth. WV Department of
33	Make up 6.25" OD jet cutter and RIH to desired depth. Pressure up on 7" casing to 500 psi and fire cutter. Record
33	all pressure changes at time of cut.
	RD wireline. Circulate down 7" casing and out 9.625" casing to establish successful cut was made.
34	Do not exceed a 0.8 psi/ft gradient when establishing circulation against open hole accounting for
	hydrostatic pressure.

		Pull Casing Pull Casing
Step		Operation
	ML	J casing spear, spear 7" casing. TOOH laying down 7" casing.
		Ensure appropriate TIW or swage to TIW valve with the operating key always on the rig floor. TIW valve must
35	a.	be in open position when not in use.
	b.	To continuously maintain QHB, should utilize trickle fluid method or monitor fluid level.
	c.	NU casing jacks if necessary or unable to pull casing.

The second second second	Flow Path		
Barriers	Production X Intermediate Casing	Production Casing	
Primary	QHB	QHB	
Secondary	Pipe Ram	TIW	
Tertiary	Annular		

36 Once out of hole with casing shut 7-1/16" Master Valve and Blind Ram.

	Flow Path	
Barriers	Intermediate Casing	
Primary	QHB	
Secondary	Master Valve	
Tertiary	Blind Ram	

	Pump Cement and Spacer
Step	Operation
37	Prep 7,000' of 2-3/8" 4.7# L-80 workstring.
38	Change out pipe rams to handle 2-3/8" 4.7# L-80 workstring.
	TIH w/ 2-3/8" workstring and tag TOC/CIBP.
39	a. Ensure appropriate TIW valve with the operating key always on the rig floor. TIW valve must be in open
	b. To continuously maintain QHB, should utilize trickle fluid method or monitor fluid level.

Barriers Barriers	Flow Path		
	Production Casing X Workstring	Workstring	
Primary	CIBP	CIBP	
Secondary	QHB	QHB	
Tertiary	Annular / Pipe Ram	TIW	

	Plug Details - Plug #3 - Cement - Prod Csg Stub Plug	
40	Pump balanced cement plug as directed in Plug Detials, displace tubing with specified volume.	POOH 1,500'
	above estimated TOC. Close pipe ram. WOC for at least 8 hours.	RECEIV
41	Tag top of cement. Record depth.	Office of Oil a
42	TIH w/ workstring to bottom of spacer #2 and pump spacer as defined in Spacer Details.	IIIN oo
43	POOH w/ workstring.	JON 23

	Flow Pat	th
Barriers	Production X Intermediate Casing	Production Casing
Primary	Casing Packoff	CIBP
Secondary	QHB	Cement
Tertiary		QHB

	Pump Cement and Spacer
Step	Operation
44	Prep 2,640' of 2-3/8" 4.7# L-80 workstring.
45	Change out pipe rams to handle 2-3/8" 4.7# L-80 workstring.
	TIH w/ 2-3/8" workstring and tag TOC/CIBP.
46	a. Ensure appropriate TIW valve with the operating key always on the rig floor. TIW valve must be in open
	b. To continuously maintain QHB, should utilize trickle fluid method or monitor fluid level.

2. 作为这个通信的表现代	Flow Path					
Barriers	Production Casing X Workstring	Workstring				
Primary	CIBP	CIBP				
Secondary	QHB	QHB				
Tertiary	Annular / Pipe Ram	TIW				

	Plug Details - Plug #4 - Cement - Inter Csg Shoe Plug
47	Pump balanced cement plug as directed in Plug Detials, displace tubing with specified volume. POOH 1,500'
	above estimated TOC. Close pipe ram. WOC for at least 8 hours.
48	Tag top of cement. Record depth.
49	TIH w/ workstring to bottom of spacer #3 and pump spacer as defined in Spacer Details.
50	POOH w/ workstring.

	Flow Path						
Barriers	Production X Intermediate Casing	Production Casing					
Primary	Casing Packoff	CIBP					
Secondary	QHB	Cement					
Tertiary		QHB					

Sales.	Pump Surface Cement Plug
Step	Operation Operation
	TIH w/ 2-3/8" workstring and tag TOC/CIBP.
51	a. Ensure appropriate TIW valve with the operating key always on the rig floor. TIW valve must be in open
	b. To continuously maintain QHB, should utilize trickle fluid method or monitor fluid level.
	Plug Details - Plug #5 - Cement - Surface Plug
52	Plug Details - Plug #5 - Cement - Surface Plug Pump balanced cement plug as directed in Plug Detials, displace tubing with specified volume. Close pipe ram.
53	ND WOR BOPs. RDMO Workover rig and all associated equipment.

	Flow Path	Office of Oil and Gas
Barriers	Surface Casing	AN 23 2025
Primary	Cement	
Secondary	Cement	WV Department of Environmental Protection
Tertiary	QHB	English and the second of the

	Monitor well for a minimum of 24 hrs or until state allows well to have abandoment cap installed.
	Establish hot work permit. Perform LEL assessment of well head and ensure LEL monitoring remains in place.
55	Visually check wellbore and cellar for signs of bubbling. Contact supervisor and OKC engineer if LELs or
55	bubbling are present. Place fire extinguishers near wellhead and ensure fire watch is designated as outlined by
	hot work permit. Cut casing and weld abandonment cap with monument as specified by WVDEP.



Well Information

Surface Location					
County/State	MINERAL, WV				
Township	NEW CREEK				
Latitude*	39.40233373				
Longitude*	-79.04556598				

*NAD 83

CHK Contacts								
Title	Name	Mobile						
Workover Foreman	Heath Pottmeyer	740-525-3445						
Completions Superintendent	Nick Flesher	304-669-3777						
Production Superintendent	Donny McHenry	304-884-1624						
Production Engineer	Eddie Watson	740-336-4199						
Production Manager	Brandon Yaw	713-417-8537						
Completions Manager	Matt Briggs	501-428-6630						
Regulatory Manager	Eric Haskins	607-242-3839						

Driving Directions

Not Available

General Well Data											
КВ	12	Top Perf	8,501	Perf Interval (ft)	4	PBTD	8,635				
КОР	N/A	Btm Perf	8,505	TD	8,747	Elevation	1,862				

	Casing Details										
String	Casing Type	ID	Drift	Top (ftKB)	Bottom (ftKB)	Collapse 70% (PSI)	Burst 70% (PSI)	Yield 70% (klb)	Capacity (bbl/ft)	Tot. Cap.	Hole Size
Conductor	20" 94# H-40	19.124	18.936	12	65	364	1,071	407	0.3553	19	
Surface	13.375" 48# H-40	12.715	12.559	12	431	518	1,211	225	0.1571	66	17.5
Intermediate	9.625" 40# K-55	8.835	8.679	12	2,543	1,799	2,765	340	0.0758	192	12.25
Production	7" 26# N-80	6.276	6.151	12	8,534	3,787	5,068	363	0.0383	326	8.75
Production	5" 17# N-80			8,489	8,594			#N/A		6	6.125
DV Tool											

Tubing Details											
Size / Weight	Grade	ID	Drift	Total (ft)	Top (ftKB)	Bottom (ftKB)	Collapse 80% (PSI)	Burst 80% (PSI)	Yield 80% (lb)	Capacity (bbl/ft)	Tot. Cap
2.375" 4.7#	J-55	1.995	1.901	8,580	12	8,592	6,480	6,160	72,000	0.0039	33

Workstring Details											
Size / Weight	Grade	ID	Drift	Total (ft)	Top (ftKB)	Bottom (ftKB)	Collapse 80% (PSI)	Burst 80% (PSI)		Capacity (bbl/ft)	Tot. Cap.
2.375" 4.7#	L-80	1.995	1.901	8,387	12	8,399	9,424	8,960	83,440	0.0039	32

Reference Documents:

Live Locations for Barrier Templates: Policies and Controlled Documents Portal

Teams: App Field Operations > Engineering > Barrier Templates

Technical Documents:

Completion and Workover BOP Technical Bulletin
Tubing Pull and Rup Barrier Townstal

Tubing Pull and Run Barrier Template Blanket Wellhead Lubricator Exception

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Wireline, Slickline, Braided Line Barrier Template



Plugging Proposal

	Plug Details Plug Details												
	Туре	Description	Set ID	Plug Height (ft)	Bottom of Plug (ftKB)	Top of Plug (ftKB)	Cement Type	Cement Yield	Cement Density (ppg)	Excess Cement (%)	Cement Volume (bbl)	Cement Volume (sacks)	Tubing Displacement Volume (bbls)
1	CIBP	CIBP Perf Isolation	6.276	2	8,389	8,387	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	Cement	Cement Perf Isolation	6.276	200	8,387	8,187	Class A	1.28	15.5	0	7.7	33.6	30.4
3	Cement	Prod Csg Stub Plug (Inside Csg)	6.276	50	7,000	6,950	Class A	1.28	15.5	0	1.9	8.4	
3	Cement	Prod Csg Stub Plug (Open Hole)	8.75	150	6,950	6,800	Class A	1.28	15.5	50	16.7	73.4	24.9
4	Cement	Inter Csg Shoe Plug (Open Hole)	8.75	100	2,643	2,543	Class A	1.28	15.5	50	11.2	48.9	
4	Cement	Inter Csg Shoe Plug (Inside Csg)	8.835	100	2,543	2,443	Class A	1.28	15.5	0	7.6	33.3	7.8
5	Cement	Surface Plug	8.835	100	100	0	Class A	1.28	15.5	0	7.6	33.3	0.0
9													
10													

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See all			e Gregoria	Space	er Details	ENGINEE	I Parisonal			DIVINE NAME
#	Fluid Type	Description	Set ID	Spacer Height	Spacer (ftKB)	Top of Spacer (ftKB)	Spacer Density (ppg)	Spacer Viscosity (cp)	Excess Spacer (%)	Spacer Volume (bbts)
1	Gel	Perf Isolation to Prod Csg Stub Plug	6.276	1,187	8,187	7,000	9		5	47.7
2	Gel	Elevation Plug to Inter Csg Shoe Plug	8.75	4,157	6,800	2,643	9	-	40	432.9
3	Gel	Inter Csg Shoe Plug to Surface Plug	8.835	2,343	2,543	100	9	-	5	186.5
4										
5										
6										
7										
8										
9										
10										

Estimated	Casing Cuts
String	Est. Cut Depth (ftKB)
Intermediate	
Production	6,950

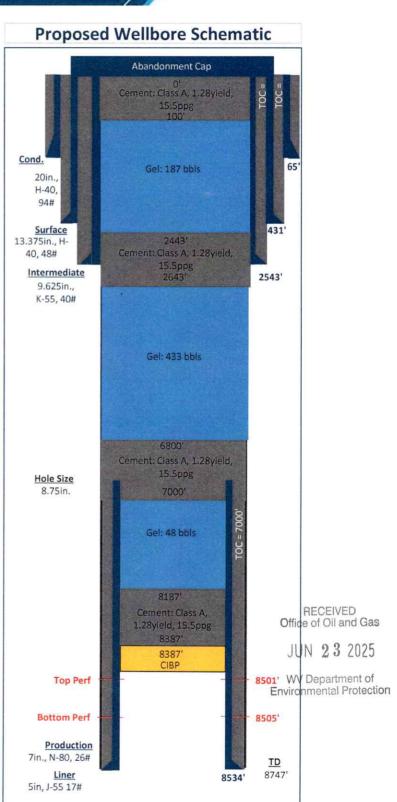
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Current Wellbore Schematic Cond. 20in., H-40, 94# Surface 13.375in., H-40, 48# Intermediate 2543 9.625in., K-55, 40# **Hole Size** Top Perf 8501 **Bottom Perf** 8505 Production 7in., N-80, TD 26# 8747 Liner 5in, J-55 17#





STATE OF WEST VIRGINIA DEPARTMENT OF MINES

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Oil and Gas Division

WELL RECORDS

Quadrangle_	<u>Wester</u> nport,	WV-Md.

Permit No Min. -22

O!\ & C	AS DIVISION
Kotary - X	
Cable	Gas_X
Recycling	Comb.
Water Flood	
Disposul	

			Disposul	(Kind)
Company Columbia Gas Transmission Cor Address P.O.Box 1273, Chas.,WV 25314 Farm Mastellar Coal Co. Acre. 4957	P. Casing and Tubing	Used in Drilling	Len in Weil	Coment fill up Cu. ft. (Sks.)
Location (waters) Hoffman Run Well No. 20616 Elev. 1919, 04				
District New Creek County Mineral	Cond. 20"	65'		75 sacks
The surface of tract is owned in fee by	13-10" 13 3/8			250 sacks
Mastellar Coal Co.	9 5/8	2.544	2.544'	650 sacks
Address R.F.D. 4, Keyser, WV 26726	8 5/8	_	<u> </u>	
Mineral rights are owned by Same as above	7	8 534'	8 534'	300 sacks
Address	5 1/2		,	
Drilling Commenced May 3, 1979	4 1/2			
Drilling Completed July 10, 1979	3		1	
Initial open flow 21,920 M cu. ftbbls.	2 3/8"		8,580'	Not cemented
Final production 88, 148 cf. ft. per daybbls. Well open3hrs. before test 3567 RP.	Liners Used 5		105'	Not cemented
Well treatment details:	Attach copy of ce	menting reco	rd.	
Treated with 4,000 gallons Mud Acid				9 Treating
pressure was 2500-2900 psig.				
				

				,	
Coal was encountered at None		Feet	Inches	-	
Fresh water	Feet			Feet	
Producing Sand Oriskany			Depth 8,559' -	8,610'	
			·		

Formation Co	olor Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks	_
Siltstone & Shale & Cher Sandstone & Calcite, Gyp Sandstone & Siltstone &	d ay Sh. Gray ay Sh. Gray & Brn Sh. Gray & Brn Sh. Gray & Brn Sh. Gray sum & Sh. Sh. Dark Gray Sh. Gray ne, Dr. Gray Siltstone Sh. Gray Brn. & Gray Tully	0, 550, 750, 870, 1,000, 1,080, 1,360, 1,590, 2,320, 4,210, 4,270, 4,270, 4,270, 4,270, 6,580, 6,580, 6,860, 6,860, 6,882, 7,232, 7,415, 8,317,	550' 750' 870' 1,000 1,080' 1,360' 1,590' 2,320' 4,210' 4,270' 4,800' 5,100' 5,600' 6,860' 6,860' 6,879' 6,882' 7,232' 7,415' 8,317' 8,381'	Water 890'		RECEIVED Office of Oil and Gas JUN 23 2025 WV Department of vironmental Protection
* Indicates Electric I		(040	•,			

^{*} Indicates Fleetric Log tops in the remarks section.

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Shale Black - Marcellus Shale - Needmore Sandstone - Oriskany	8,381' 8,446' 8,559'	8,446' 8,559' 8,610'	Gas @ 8,559'

APPROVED Feelin & Such Owner

By Manager, Drilling (file)

1)	Date:	5/7/2025	
2)	Operato	r's Well Number	
EXP	AND OPERA	TING LLC	

057

00022

3) API Well No.: 47 -

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

NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

	ner(s) to be served:		(a) Coal Operato	r	
(a) Name	STATE OF WEST VIRGIN				
Address	DEPT OF COMMERCE, LABOR AN	all some increase of the second		3	
	1900 KNAWHA BLVD EAS				
(b) Name	CHARLESTON, WV 253	05		wner(s) with Declaration	
Address		····	Name	STATE OF WEST VIRGINIA, PUBLIC LA	AND CORP
			Address	DEPT OF COMMERCE, LABOR AND ENVI	RONMENTAL RESOURCES
				1900 KNAWHA BLVD EAST, BUILDING	2, SUITE 600
(c) Name			Name	CHARLESTON, WV 25305	
Address	_		Address		
6) Inspector	GAYNE J KNITOWSKI		(c) Coal Lo	ssee with Declaration	
Address	601 57TH STREET SE		Name	ssee with Declaration	
Address	CHARLESTON WV 2530	м	Address		
Telephone	304546-8171	, ,	Address		
•					
well (2) The p The reason However, y Take notice accompany Protection, the Applica	its and the plugging world to surveyor's map) sho you received these documes ou are not required to take as that under Chapter 22-6 of ing documents for a permit twith respect to the well at the	k order; and wing the well locat this is that you have ri my action at all. The West Virginia Co to plug and abandon a ne location described of mailed by registered	ghts regarding the applied, the undersigned well with the Chief of the on the attached Applicated or certified mail or de	cation which are summarized in the instruct operator proposes to file or has filed this Note Office of Oil and Gas, West Virginia Depair on and depicted on the attached Form WW-livered by hand to the person(s) named about	otice and Application and artment of Environmental 6. Copies of this Notice, ove (or by publication in RECEIVED Office of Oil and Gas
		Well Operator	EXPAND OPERATIN	ald ().	JUN 23 2025
		By:	KERI FIENO	(1)	WV Department of Environmental Protection
		Its:	REGULATORY SPEC	LUCE LINE	WV Departing Protectio
		Address	PO BOX 18496	JIALIO I	FUAITOLILI
		11441055	OKLAHOMA CITY, O	K 73154-0496	
		Telephone	405-766-8791		Seal \
		receptione	100 100 0101	101217	
Subscribed and My Commission	sworn before me thi	ina ober 22,	ay of June	Common Caroland Panney Notary Public Common Caroland Panney Notary Public Common Caroland Panney Public Commission number Association of Commission number. Penney wante Association of Nember, Penney Wante Association of Nember Association of	70-
Oil and Gas Priva	cy Notice			Who Cours beaushing	
regulatory duties.	Your personal inform	nation may be dis	closed to other Sta	e, address and phone number, as a te agencies or third parties in the including Freedom of Information	normal course of

office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

Keri Fieno

From:

UPS <pkginfo@ups.com>

Sent:

Tuesday, June 17, 2025 11:18 AM

To:

Keri Fieno

Subject:

[EXTERNAL] UPS Delivery Notification, Tracking Number 1ZV3127X1396582071

This Message Is From an External Sender

This message came from outside your organization.

Report Suspicious



Hello, your package has been delivered.

Delivery Date: Tuesday, 06/17/2025

Delivery Time: 11:03 AM

Signed by: ALFARO

EXPAND ENERGY CORPORATION

MASTELLAR COAL CO 1 & 2 P&A LANDOWNER NOTIFICATION

Tracking Number:

1ZV3127X1396582071

STATE OF WEST VIRGINIA

1900 KANAWHA BOULEVARD EAST

BUILDING 3, SUITE 600

DEPT OF COMMERCE; LABOR & ENVIRONME

CHARLESTON, WV 253050001

US

Number of Packages:

1

UPS Service:

Ship To:

UPS Next Day Air Saver®

Package Weight:

0.0 LBS

Reference Number:

MASTELLAR COAL CO 1 P&A

Reference Number:

MASTELLAR COAL CO 2 P&A

Discover more about UPS:

RECEIVED Office of Oil and Gas

JUN 23 2025

WV Department of **Environmental Protection**

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1ZV3127X1399573861

Service

UPS Next Day Air Saver®

Shipped / Billed On

07/08/2025

Delivered On

07/09/2025 10:50 A.M.

Delivered To

1900 KANAWHA BLVD E CHARLESTON, WV, 25305, US

Received By

ALFARO

Left At

Inside Delivery

Please print for your records as photo and details are only available for a limited time.

Sincerely,

UPS

Tracking results provided by UPS: 07/10/2025 1:41 P.M. EST

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_ EXPAND OPERATING LLC OP Code
Watershed (HUC 10) PURR SPRING RUN Quadrangle WESTERNPORT
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No 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 systembe used? If so, describe: DRILL CUTTINGS WILL BE CIRCULATED BACK INTO AN OPEN TANK
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. FRESH WATER
-If oil based, what type? Synthetic, petroleum, etc. N/A
Additives to be used in drilling medium? NONE
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. LANDFILL
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) SAWDUST AND CITRIC ACID
-Landfill or offsite name/permit number? KIMBLE SANITARY LANDFILL OR MUD MASTERS
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Cas 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 o btaining the information, I believe that the information is grue, 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 JUN 23 2025 Company Official Title REGULATORY SPECIALIST Environmental Protection
Subscribed and sworn before me this day of the Commonwest Spennsylvania - Notary Public Carla M. Harris, Notary Public Carla M. Harris, Notary Public Pennsylvania - Notary Public Pennsylvania - Notary Public Carla M. Harris, Notary Public Pennsylvania - Notary Public Commission county Notary Public Pennsylvania - Notary Public Pennsylvania - Notary Public Commission number 1286242 My commission number 1286242 Member, Pennsylvania Association of Notaries

Proposed Revegetation	Treatment: A	cres Disturbed 10		Preveg etation	on pH	
Lime 3.90	Тої	ns/acre or to correct to	o pH <u>7</u>			
Fertilizer type	8-16-16					
Fertilizer amou	_{unt} 968		lbs/acre			
Mulch_3		т	ons/acre			
			Seed Mixtures			
	Temporary			Pe	rmanent	
Seed Type OATS/ANNUA	•	s/acre OLBS/ACRE	BIRD	Seed Type SFOOT TRE	lbs/acr	-
HAY/STRAW N	NULCH 3	TONS/ACRE	TALL	FESCUE	40LBS	/ACRE
Maps(s) of road, location provided). If water from	n the pit will be	e land applied, provi	pplication (unless de water volume,	engineered plans in	ncluding this info ha	ive been t, and dim
provided). If water from (L, W), and area in acre Photocopied section of	n the pit will be as, of the land a involved 7.5' to	e land applied, provid application area. opographic sheet.	pplication (unless de water volume,	engineered plans in include dimensions	ncluding this info ha (L, W, D) of the pi	ive been t, and dim
Maps(s) of road, locatic provided). If water from (L, W), and area in acre Photocopied section of Plan Approved by:	n the pit will be as, of the land a involved 7.5' to	e land applied, provid application area. opographic sheet.	pplication (unless de water volume,	engineered plans in include dimensions	ncluding this info ha (L, W, D) of the pi	ive been t, and dim
Maps(s) of road, locatic provided). If water from (L, W), and area in acre Photocopied section of Plan Approved by:	n the pit will be as, of the land a involved 7.5' to	e land applied, provid application area. opographic sheet.	pplication (unless de water volume,	engineered plans in include dimensions	ncluding this info ha	ive been t, and dim
Maps(s) of road, locatic provided). If water from (L, W), and area in acre Photocopied section of Plan Approved by:	n the pit will be as, of the land a involved 7.5' to	e land applied, provid application area. opographic sheet.	pplication (unless de water volume,	engineered plans in include dimensions	ncluding this info ha	ive been t, and dim
Maps(s) of road, locatic provided). If water from (L, W), and area in acre Photocopied section of Plan Approved by:	n the pit will be as, of the land a involved 7.5' to	e land applied, provid application area. opographic sheet.	pplication (unless	engineered plans in include dimensions	ncluding this info hat (L, W, D) of the pi	ive been t, and dim
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Maps(s) of road, locatic provided). If water from (L, W), and area in acre Photocopied section of Plan Approved by:	n the pit will be as, of the land a involved 7.5' to	e land applied, provid application area. opographic sheet.	pplication (unless de water volume,	engineered plans in include dimensions	cluding this info ha	office o
Attach: Maps(s) of road, locatic provided). If water from (L, W), and area in acre Photocopied section of Plan Approved by: Comments:	n the pit will be as, of the land a involved 7.5' to	e land applied, provid application area. opographic sheet.	pplication (unless de water volume,	engineered plans in include dimensions	(L, W, D) of the pi	Office of
Maps(s) of road, locatic provided). If water from (L, W), and area in acre Photocopied section of Plan Approved by:	Gayne Knitowski	e land applied, provid application area. opographic sheet.	pplication (unless de water volume,	engineered plans in include dimensions	(L, W, D) of the pi	t, and dim

RECOMMENDED PERMANENT SEEDING MIXTURE FOR ALL DISTURBED AREAS

MIXTURE NUMBER	SEASON	SPECIES	SEEDING RATE (Ib/ac)
2	COOL	BIRDSFOOT TREFOIL TALL FESCUE	8 / 40

MULCHING

MATERIAL SHALL BE HAY OR STRAW WHICH IS FREE OF WEED AND SEEDS, NOT MOLDY, ROTTEN, AND SHALL BE APPLY TO ALL SLOPES FATTER THAN 3:1 AT A RATE OF 140 LBS/1,000 SF. (APPROXIMATELY TWO BALES PER 1,000 SF OR 3 TON PER AC)

HYDROSEEDING SPECIFICATION

MATERIAL DESCRIPTION APPLICATION RATE (PER 1,000 SY)

(1) SEE MIXTURE REDTOP - 10% 27 LBS
(% BY WEIGHT) PENNLAWN FESCUE - 45%

KENTUCKY BLUEGRASS - 45%

(2) 8-16-16 COMMERCIAL FERTILIZER 200 LBS

(3) LIME GROUND COMMERCIAL LIMESTONE 1,650 LBS

(4) MULCH WOOD CELLULOSE FIBER 750 LBS

APPROXIMATE TACK COAT

PROCEDURE: SURFACE TO BE HYDROSEEDED SHALL BE CLEANED OF ALL DEBRIS AND OTHER MATTER HARMFUL TO UNIFORM GERMINATION. A WATER-SURRY MIXTURE COMMPOSED OF THE ABOVE "MATERIALS". ITEMS (1) THROUGHT (3) INCLUSIVE, SHALL BE SPRAYED UNIFORMLY OVER THE AREAS TO BE HYDROSEEDED. IMMEDIATELY, THEREAFTER, ITEM (4) "MULCH" SHALL BE BLOWN ON THE SAME AREA AND TACK-COATED. RATES AND TYPE OF MATERIALS SHALL BE SPECIFIED.

MAINTENANCE AND GUARANTEE

THE CONTRACTOR SHALL GUARANTEE A GOOD STAND OF GRASS IN THE SWALES AND ON BANKS. THE MEANS OF GUARANTEE SHALL BE BY WATERING, MOWING, REGRADING, REMULCHING, AND RESEEDING TO THE SATISFACTION OF THE OWNER UNTIL FINAL ACCEPTANCE. ANY AREAS WHICH FAIL TO SHOW A UNIFORM STAND WITHIN ONE YEAR SHALL BE RESEEDED AND REMULCHED AT THE CONTRACTORS EXPENSE WITH THE SAME MIXTURE ORIGINALLY USED THEREON, ERODED AREAS SHALL BE REPAIRED AND RESTORED TO FINISHED GRADE PRIOR TO RESEEDING AND REMULCHING. ALL SUCH REPAIRING OF EROSION, RESEEDING, AND REMULCHING SHALL BE REPEATED UNTIL ALL EFFECTED AREAS ARE COVERED WITH GRASS.

RECEIVED

Office of Oil and Gas

JUN 23 2025

WV Department of Environmental Protection

	Page	of
API Number	47 -057-00022	
Operator's Well No.MAST	CELLAR COAL	CO 2

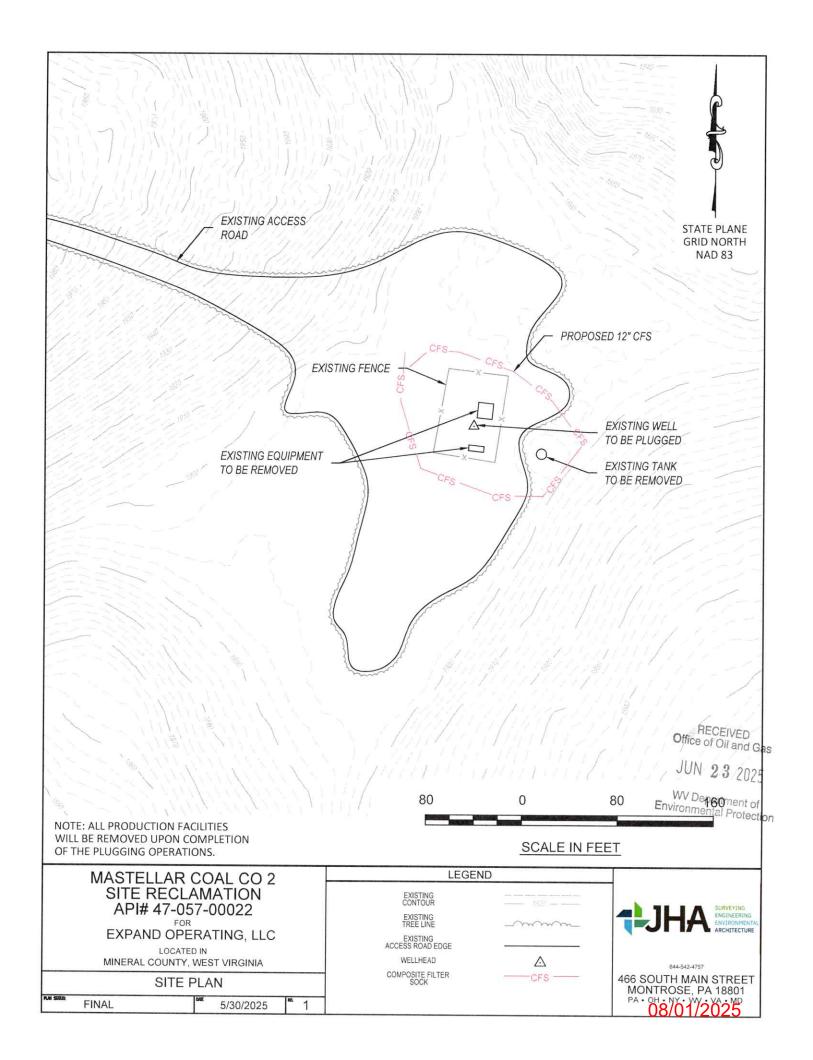
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

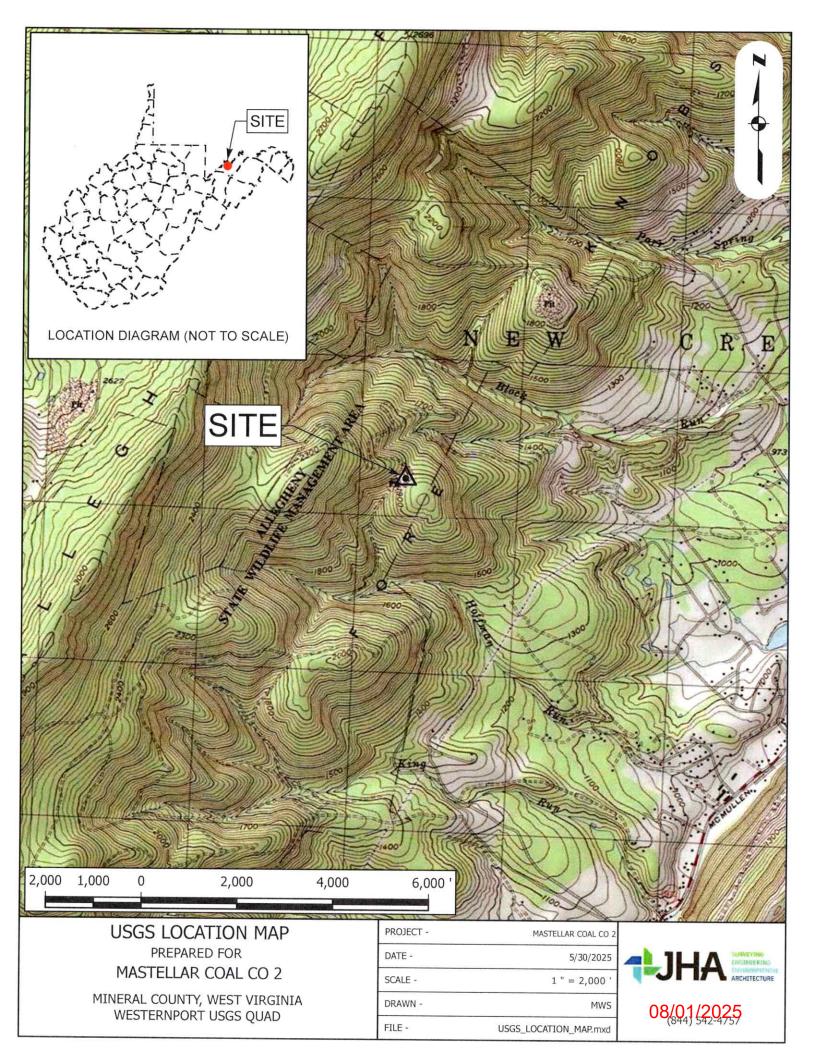
GROUNDWATER PROTECTION PLAN

Operator Name: EXPAND OPERATING LLC	O 1 WESTERNBORT		
Watershed (HUC 10); PURR SPRING RUN Quad; WESTERNPORT			
Farm Name: MASTELLAR COAL CO 2			
 List the procedures used for the treatment and discharge of groundwater. 	f fluids. Include a list of all operations that could contaminate the		
SEE ATTACHED			
2. Describe procedures and equipment used to protect ground	water quality from the list of potential contaminant sources above.		
 List the closest water body, distance to closest water bod discharge area. 	dy, and distance from closest Well Head Protection Area to the		
4. Summarize all activities at your facility that are already regi	Office of Oil and Goo		
The summand of activities at your lability that are already leg-	JUN 2 3 2025		
	WV Danatman		
	Environmental Protection		

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

W-9- GPP ev. 5/16	Page of API Number 47057-00022 Operator's Well NoMASTELLAR COAL (
Provide a statement that no waste material will be used	d for deicing or fill material on the property.
Describe the groundwater protection instruction and provide direction on how to prevent groundwater cont	training to be provided to the employees. Job procedures shall tamination.
Provide provisions and frequency for inspections of al	GPP elements and equipment.
	Office of Oil and Gas JUN 23 2025
	WV Department of Environmental Protection
$\mathcal{L}(\mathcal{L})$	- Wilconmental Protection







West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

WELL	OCATION FURNI: GPS	
_{API:} 47-057-00022	WELL NO.: 2	
FARM NAME: MASTELL	AR COAL CO	
RESPONSIBLE PARTY NAMI	E: EXPAND OPERATING DISTRICT: NEW	G LLC
COUNTY: MINERAL	DISTRICT: NEW	CREEK
OHADDANCIE, WESTER	RNPORT	
surface owner: Stak	of West Virginia, Public Lar	nd, Labor & Environmen
ROYALTY OWNER:		Kesaun
UTM GPS NORTHING: 4,36	3,247.782	
UTM GPS EASTING: 668,28	81.323 GPS ELEVATION	ı <u>.</u> 1862'
preparing a new well location plat above well. The Office of Oil and the following requirements:	.05 meters	number on the at do not meet
Real-	Time Differential	Office of Oil and Gas
Mapping Grade GPS: Po	st Processed Differential	JUN 23 2025
Re	eal-Time Differential	MV
I the undersigned, hereby certify th	topography map showing the well look is data is correct to the best of my known required by law and the regulations is Gas.	wledge and
Muno	REGULATORY SPECIALIST	1/17/25
Signature *	Title	Date



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

plugging permits issued 4705700016 00022

1 message

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

Wed, Jul 23, 2025 at 1:16 PM

To: Gayne J Knitowski <gayne.j.knitowski@wv.gov>, Eric Haskins <eric.haskins@expandenergy.com>, Keri Fieno <keri.fieno@expandenergy.com>, "jcosner@wvassessor.com" <jcosner@wvassessor.com>

To whom it may concern, plugging permits have been issued for 4705700016 00022.

--

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

2 attachments



4705700016.pdf

4116K



4705700022.pdf 4344K