

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 30, 2025 WELL WORK PLUGGING PERMIT Vertical Plugging

EXPAND OPERATING LLC 6100 N WESTERN AVE.

OKLAHOMA CITY, OK 73118

Re:

Permit approval for 21705 47-023-00021-00-00

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:

Farm Name: BERG, KERMIT & BESSIE

U.S. WELL NUMBER: 47-023-00021-00-00

Vertical Plugging

Date Issued: 7/30/2025

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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) Date MAY 7		, 2	0 25
2) Operator's			
Well No. BE	SSIE BERG E	TAL 1	
3)API Well N	0. 47 -	023	00021

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	d injection/ Waste disposal/ derground storage) Deep/ Shallow
5)	Location: Elevation 2,000 District UNION	Watershed BIG STAR RUN County GRANT Quadrangle BACKBIRD KNOB
6)	Well Operator Address Address EXPAND OPERATING LLC PO BOX 18496 OKLAHOMA CITY, OK 73154-0496	7) Designated Agent Britteny Woody Address 1300 Fort Peirport Dr. Sur Morgantown VV 26 508
8)	Oil and Gas Inspector to be notified Name GAYNE J KNITOWSKI Address 601 57TH STREET SE	Name PLANTS AND GOODWIN Address 360 HIGH STREET
	CHARLESTON, WV 25304	BRADFORD, PA 16701
	SEE ATTACHED	
		RECEIVED Office of Oil and Gas
		JUN 23 2025
		WV Department of Environmental Protection
	ification must be given to the district o k can commence.	il and gas inspector 24 hours before permitted
Wor	Gayne Knitowski Gayn	ally signed by the Knitowski : 2025.05.30 th:02-04'00' Date 5-30-2025



Plug & Abandon

County/State: GRANT, WV Township: UNION BLM: NO Latitude: 39.0777223594 Longitude: -79.2541497476 (NAD 83)

Property Number: 821705 API: 4702300021 AFE: 1013314 WO: 4000795878

Summary

The BESSIE BERG ETAL 1 will be plugged and abandoned. The well is located in GRANT County, WV and was spud on 09-27-1988 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 7,990' of Production Tubing
Run CBL
Cut and Pull ~7,210' of 5.5" 17# Production Casing
(4) 200' & (1) 100' Cement Plugs. See detail on Page 10
Gel detail on Page 11

	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	
Primary			
Secondary			
Tertiary			

	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
	ND master valves and NU 7-1/16" 10K master valve to tubing head and close.

以前後無罪對前衛衛衛先軍	Flow Path	
Barriers	Production Casing X Tubing	Tubing
Primary	QHB	QHB
Secondary	Tubing Hanger Seals	Pump through plug
Tertiary		TWC

		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 test plug with wireline ~100'-200'. Test 7-1/16" 10K flange against test plug to 250 / 4,500 psi.
		J 7-1/16" WOR BOPs and 7-1/16" Annular. Function and pressure test each ram. (T to B)
	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

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

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

	TOOH laying down tubing	
	a. Ensure appropriate TIW valve (in open position) w/ operating key is always on the rig floor.	
	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	

(A) 医阴茎切迹 (A) 医多类性 (A)	Flow Path	
Barriers	Production Casing	
Primary	QHB	
Secondary	Master Valve	
Tertiary	Blind Ram	

	Pump Cement and Spacer
Step	Operation
15	Prep 8,400' of 2-3/8" 4.7# L-80 workstring.
16	Change out pipe rams to handle 2-3/8" 4.7# L-80 workstring.
	TIH w/ 2-3/8" workstring and tag CIBP.
17	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
18	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.
19	Tag top of cement. Record depth.
20	TIH w/ workstring to bottom of spacer #1 and pump spacer as defined in Spacer Details.
21	POOH w/ workstring.

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

	Set CIBP
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."
	Close master valve, NU wireline lubricator, wireline rams, primary pressure control, and test against upper
22	master valve to 250 psi low / and a high pressure to a minimum of well's SICP pre-job.
23	Round trip 4.70" OD gauge ring to 7,990'.
	Plug Details - Plug #1 - CIBP - CIBP Perf Isolation
24	Make up and RIH with CIBP and set at depth defined in Plug Details. Using CCL do not place CIBP across collar.
	Pressure test CIBP to 1,500 psi or 80% of casing burst pressure accounting for hydrostatic to CIBP depth, which
25	ever is less.
26	Run pressurized CBL log from CIBP to surface. Reported estimated TOC at 7,260'.
27	ND wireline lubricator, wireline rams, primary pressure control.

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

	Pump Cement and Spacer and Tac Weld Slips			
Step	Operation			
1	1 Prep 8,180' of 2-3/8" 4.7# L-80 workstring.			
2	Change out pipe rams to handle 2-3/8" 4.7# L-80 workstring.			
10	TIH w/ 2-3/8" workstring and tag TOC/CIBP.			
3	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

HW	Plug Details - Plug #4 - Cement - Cement Perf Isolation
4	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.
5	Tag top of cement. Record depth.
6	TIH w/ workstring to bottom of spacer #2 and pump spacer as defined in Spacer Details.
7	POOH w/ workstring.
8	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 by hot work permit. ND Tubing Head, 7-1/16" Master Valve, 7-1/16" WOR BOPs and tac weld 4.5" casing slips to 4.5" casing.

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

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

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

10	NL	J 11" WOR BOPs and 11" Annular. Function and pressure test each ram. (T to B)
	2	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.
	b.	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.
	c.	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.

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

Step Operation

Note: For slickline work detailing barrier envelope, barrier testing, surface equipment specs for this operation refer to the "Marcellus Production Wireline, Slickline, Braided Line Barrier Template."

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

	Using TOC from CBL, Round trip 4.75" gauge ring to desired depth.		
12	Make up 4.75" OD jet cutter and RIH to desired depth. Pressure up on 5.5" casing to 500 psi and fire cutter.		
	Record all pressure changes at time of cut.		
	RD wireline. Circulate down 5.5" casing and out 9.625" casing to establish successful cut was made.		
13	Do not exceed a 0.8 psi/ft gradient when establishing circulation against open hole accounting for		
	hydrostatic pressure.		

TO THE	Pull Casing				
Step		Operation			
14	Μl	J casing spear, spear 5.5" casing. TOOH laying down 5.5" casing.			
	-11	Ensure appropriate TIW or swage to TIW valve with the operating key always on the rig floor. TIW valve must			
	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.			

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

15 Once out of hole with casing shut Blind Ram.

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

	Pump Cement and Spacer				
Step	Step Operation				
1	Prep 7,310' of 2-3/8" 4.7# L-80 workstring.				
2	Change out pipe rams to handle 2-3/8" 4.7# L-80 workstring.				
	TIH w/ 2-3/8" workstring and tag TOC/CIBP.				
3	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 #5 - Cement - Prod Csg Stub Plug (Open Hole)		
4	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.		
5	Tag top of cement. Record depth.		
6	TIH w/ workstring to bottom of spacer #3 and pump spacer as defined in Spacer Details.		
7	POOH w/ workstring.		

TAIL	Pump Cement and Spacer
Step	Operation Operation
1	Prep 2,628' of 2-3/8" 4.7# L-80 workstring.
2	Change out pipe rams to handle 2-3/8" 4.7# L-80 workstring.
	TIH w/ 2-3/8" workstring and tag TOC/CIBP.
3	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.

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

	Plug Details - Plug #6 - Cement - Inter Csg Shoe Plug (Inside Csg)
4	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.
5	Tag top of cement. Record depth.
6	TIH w/ workstring to bottom of spacer #4 and pump spacer as defined in Spacer Details.
7	POOH w/ workstring.

	Pump Surface Cement Plug									
Step	Operation									
	TIH w/ 2-3/8" workstring and tag TOC/CIBP.									
	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.									
7 17	Plug Details - Plug #7 - Cement - Surface Plug Pump balanced cement plug as directed in Plug Detials, displace tubing with specified volume. Close pipe ram									
10	ND WOR BOPs. RDMO Workover rig and all associated equipment.									

THE PROPERTY OF THE PARTY OF TH	Flow Path
Barriers	Surface Casing
Primary	Cement
Secondary	Cement
Tertiary	QHB

11	Monitor well for a minimum of 24 hrs or until state allows well to have abandoment cap installed.
977	Establish hot work permit, Perform LEL assessment of well head and ensure LEL monitoring remains in place.
	Visually check wellhore and cellar for signs of bubbling. Contact supervisor and OKC engineer if LELs or
12	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.

Gayne Digitally signed by Gayne Knitowski Date: 2025.07.28 13:07:58 -04'00'



Well Information

Surfac	e Location				
County/State GRANT, WV					
Township	UNION				
Latitude*	39.07772236				
Longitude*	-79.25414975				

4			-	-	-
7	N	А	D	8	10

СН	K 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										
KB	12	Top Perf	7,991	Perf Interval (ft)	129	PBTD	8,670			
КОР	N/A	Btm Perf	8,120	TD	8,670	Elevation	2,000			

	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											
Surface	13.375" 54.5# J-55	12.615	12.459	12	97	791	1,911	360	0.1546	13	17.5
Intermediate	9.625" 40# J-55	8.835	8.679	12	2,528	1,799	2,765	316	0.0758	191	12.25
Production	5.5" 17# N-80	4.892	4.767	12	8,658	4,473	5,418	244	0.0232	201	8.75
Production											
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	7,990	12	8,002	6,480	6,160	72,000	0.0039	31
						ii .					

			H 4	Worl	kstring D	etails	P. C.				
Size / Weight	Grade	ID	Drift	Total (ft)	Top (ftKB)	Bottom (ftKB)	Collapse 80% (PSI)	100mg 1150000		Capacity (bbl/ft)	Tot. Cap.
2.375" 4.7#	L-80	1.995	1.901	8,400	12	8,412	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:

Well Control Standard

Completion and Workover BOP Technical Bulletin

Tubing Pull and Run Barrier Template

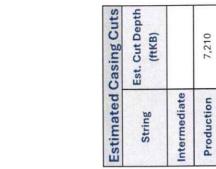
Blanket Wellhead Lubricator Exception

Wireline, Slickline, Braided Line Barrier Template



Plugging Proposal

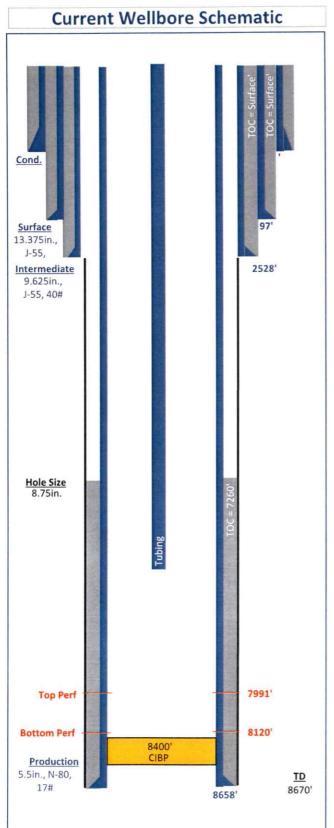
No. of Lines						Plug Details	ails						
				Plug	Bottom of	Top of Plug	Cement	Cement	Cement	Excess	Cement	Cement	Tubing
#	Type	Description	Set ID	Height (ft)	Plug (ftKB)	(ftKB)		Yield	Density (ppg)	Cement (%)	(bbt)	(sacks)	Volume (bbls)
1	CIBP	CIBP Perf Isolation	4.892	2	8,402	8,400	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	Cement	Cement Perf Isolation	4.892	200	8,400	8,200	Class A	1.28	15.5	20	7.0	30.6	30.5
3	CIBP	CIBP Perf Isolation	4.892	2	7,891	7,889	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4	Cement	Cement Perf Isolation	4.892	200	7,889	7,689	Class A	1.28	15.5	20	7.0	30.6	28.5
5	Cement	Prod Csg Stub Plug (Inside Csg)	4.892	100	7,310	7,210	Class A	1.28	15.5	20	3.5	15.3	
5	Cement	Prod Csg Stub Plug (Open Hole)	8.75	100	7,210	7,110	Class A	1.28	15.5	20	11.2	48.9	25.9
9	Cement	Inter Csg Shoe Plug (Open Hole)	8.75	100	2,628	2,528	Class A	1.28	15.5	20	11.2	48.9	0.0
9	Cement	Inter Csg Shoe Plug (Inside Csg)	8.835	100	2,528	2,428	Class A	1.28	15.5	0	7.6	33.3	7.8
7	Cement	Surface Plug	8.835	100	100	0	Class A	1.28	15.5	0	9.7	33.3	0.4
-91													

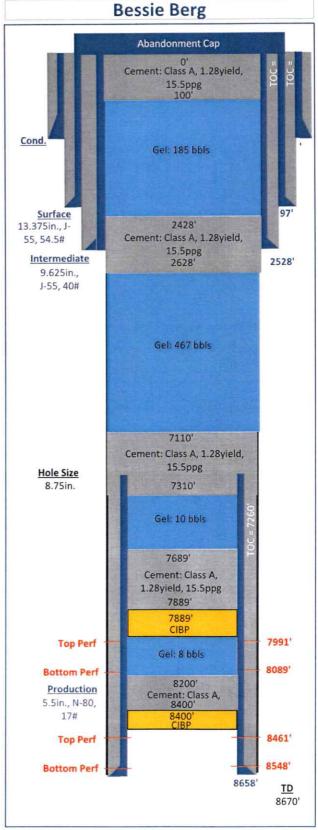


				Space	Spacer Details					
				Change	Bottom of	Top of	Spacer	Spacer	Excess	Spacer
#	Fluid Type	Description	Set ID	Space	Spacer	Spacer	Density	Viscosity	Spacer	Volume
				neign	(ftKB)	(ftKB)	(ppg)	(cp)	(%)	(bbls)
•	Gel	Perf Isolation to Perf Isolation Plug	4.892	309	8,200	7,891	6		10	7.9
2	Gel	Perf Isolation to Prod Csg Stub Plug	4.892	379	7,689	7,310	6	ı	10	6.7
8	Gel	Prod Csg Stub Plug to Inter Csg Shoe Plug	8.75	4,482	7,110	2,628	6	9	40	466.7
4	Gel	Inter Csg Shoe Plug to Surface Plug	8.835	2,328	2,428	100	6	30	S	185.4
5										
9										
7										
8										
6										
10										



Proposed Wellbore Schematic





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

Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: BERG, KERMIT & BESSIE Operator Well No.: 21705

LOCATION: Elevation: 2005.00 Quadrangle: BLACKBIRD KNOB

District: UNION County: GRANT

Latitude: 2000 Feet South of 39 Des. 5 Min. 0 Sec. Longitude 1250 Feet West of 79 Des. 15 Min. 0 Sec.

Company: COLUMBIA NATURAL RESOURCE

P. O. BOX 1273 CHARLESTON: WV

Asent: JOSEPH E. CAMPBELL

Inspector: PHILLIP TRACY
Permit Issued: 09/02/88
Well work Commenced: 09-27-88
Well work Completed: 10-26-88
Verbal Plussins
Permission stanted on: N/A
Rotary_X_ Cable ____ Ris
Total Depth (feet) ____ 8670'
Fresh water depths (ft) _____
I/4" stream 0 60': 1/2" stream 0 130'
Salt water depths (ft) _____
Is coal being mined in area (Y/N)? N

Coal Depths (ft): None

1	Casina & Tubina	Used in Brilling	1	Cement Fill Up Cu. Ft.
1	Size	 	,, ,,, ,,, ,,, ,,, ,,, ,,, ,,, ,,, ,,,	(
i	13-3/8"	188'	88'	45 1
 	9-5/8"	l 2528'	I . 2528'	1 1 1 798 1
1 1	5-1/2"	l 8658'	1 8658	1 1 365
1 1		SCERV	ZISIN_	
1		JUN 1 5 19	84	RECEIVED
•				of Oil and Gas

OPEN FLOW DATA

DIVISION OF OIL & GAS JUN 23 2025

Producing formation Oriskany Pay zone depth (WtDeptagl 8) 20
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure 2100 psis (surface pressure) after 80 Hours

Second producing formation__Corrigansville__ Pay zone depth (ft).8458-8658
Gas: Initial open flow_____MCF/d Gil: Initial open flow______Bb1/d
Final open flow ____62__MCF/d Final open flow _____Bb1/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure___1890__psis (surface pressure) after ___60__Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: COLUMBIA NATURAL RESOURCES, INC.

Well 21705 Kermit & Bessie Berg

Formation

Rock & Clay	0 - 20	1/48
Sand	20 - 65	1/4" stream of water 60'
Sand & Shale	65 - 156	1/2" stream of water 130'
Sand	156 - 174	
Sand & Shale	174 - 60 8	
Sand	608 - 623	
Sand & Shale	623 - 153 5	
Sha1e	1535 - 1715	
Sand	1715 - 2008	
Shale	2008 - 2139	
Sand & Shale	2139 - 2410	
Shale	2410 - 2688	
Sandy Shale	2688 - 2829	
Sand	2829 - 2959	
Sand & Shale	2959 - 3196	
Shale	3196 - 3496	
Sand	3496 - 3566	
Shale & Sand	3566 - 5949	
Sand	5949 - 5964	
Sand & Shale	5964 - 7080	
Lime	7080 - 7090	
Shale	7090 - 7660	
Shale & Metabentonite	7660 - 7700	
Shale	7700 - 7800	
Shale & Chert	7800 - 7830	
Shale, Chert & Salt Sd.	7830 - 78 40	
Sand & Shale, Oriskany	7840 - 8150	,
Shale	8150 - 8160	
Limestone	8160 - 8670	
T.D.	8670	Office of a
		Ulifo of a.

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WV Department of Environmental Protection



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY



Well 21705 Kermit & Bessie Berg

Well perforated 11-16-88 with 20 shots from 7991' to 8089' and 18 shots from 8461' to 8548'.

Corrigansville formation acid treatment w/15% Fe acid & 41.0 bbls. of 2% KCl water @ 2.9 bpm/5350 psi. Fractured w/1248 bbls. of 40 ppg X-link gel. Used 105,000 Scf of CO2, 6300# 80/100 & 77,500# 20/40 sand OFAF 62 Mcf/6 hrs.

Oriskany treated w/500 gals. of 15% Fe acid & 28 bbls. of 2% KCl water & 3 bpm; 3300 psi. Fractured w/1400 bbls. of 40 ppg X-link gel, 305,500 Scf of $\rm CO_2$, 77,500# 20/40 & 4000# 80/100 sand.



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

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WV Department of Environmental Protection WW-4A Revised 6-07

1) Date:	5/7/2025	
2) Operator	's Well Number	
EXPAND OPERA	TING LLC	
<u> </u>	-	

00021

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

3) API Well No.: 47 -

4)	Surface Own (a) Name	er(s) to be served: ERMA B MOYERS	5) (a) Coal Operator Name	
	Address	8180 JORDAN RUN ROAD	Address	
		MAYSVILLE, WV 26833		
	(b) Name		(b) Coal Own	er(s) with Declaration
	Address		Name	
			Address	
	(c) Name		Name	
	Address		Address	
6)	Inspector	GAYNE J KNITOWSKI	(c) Coal Less	ee with Declaration
-,	Address	601 57TH STREET SE	Name	
		CHARLESTON WV 25304	Address	
	Telephone	304546-8171		

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.

, , , , , , , , , , , , , , , , , , ,	·
	Office of Oil and Gas
Well Operator	EXPAND OPERATING LLC
By:	KERI FIENO JUN 23 2025
Its:	REGULATORY SPECIALIST WYD
Address	PO BOX 18496 Environmental Protection
	OKLAHOMA CITY, OK 73154-0496
Telephone	405-766-8791
Subscribed and sworn before me this da	Notary Mulay Public Notary Mu
My Commission Expires October 23, 3	Componenta Na rado Abrita ma de Constituto de la constitución de la co
Oil and Gas Privacy Notice	My commission and washing to
The Office of Oil and Gas processes your personal inform	ation, such as name, address and phone number, as a part of our

The Office of Oil and Gas processes your personal information, such as name, address and process number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies of 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 depprivacyoffier@wv.gov.

Proof of Delivery

Dear Customer,

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

Tracking Number

1ZV3127X0192314514

Service

UPS Next Day Air®

Shipped / Billed On

07/08/2025

Delivered On

07/09/2025 12:33 P.M.

Delivered To

8180 JORDAN RUN RD MAYSVILLE, WV, 26833, US

Left At

Front Door

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 1:42 P.M. EST

Keri Fieno

From:

UPS <pkginfo@ups.com>

Sent:

Tuesday, June 17, 2025 3:40 PM

To:

Keri Fieno

Subject:

[EXTERNAL] UPS Delivery Notification, Tracking Number 1ZV3127X0199571859

Follow Up Flag:

Follow up

Flag Status:

Flagged

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: 3:07 PM

Left At: FRONT DOOR

Experience UPS My Choice® Premium Today

Be in total control of how, when and where your packages are delivered.

Upgrade to Premium Now



Set Delivery Instructions

Manage Preferences

View My Packages

EXPAND ENERGY CORPORATION

BESSIE BERG ETAL 1 P&A LANDOWNER NOTIFICATION

Tracking Number:

1ZV3127X0199571859

Ship To:

ERMA B MOYERS 8180 JORDAN RUN ROAD

RECEIVED Office of Oil and Gas

JUN 23 2025

WV Department of **Environmental Protection** MAYSVILLE, WV 268338534

US

Number of Packages:

1

UPS Service:

UPS Next Day Air®

Package Weight:

0.0 LBS

Reference Number:

BESSIE BERG ETAL 1 P&A

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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) BIG STAR RUN Quadran	
Do you anticipate using more than 5,000 bbls of water to complete the proposed	dwell work? Yes 🔽 No
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 for Underground Injection (UIC Permit Number	al location)
Will closed loop systembe used? If so, describe: DRILL CUTTINGS WILL BE	
Drilling medium anticipated for this well (vertical and horizontal)? Air, fresh	water, 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. L	ANDFILL
-If left in pit and plan to solidify what medium will be used? (cemen	t, lime, sawdust) SAWDUST AND CITRIC ACID
-Landfill or offsite name/permit number? KIMBLE SANITARY LANDFILI	L OR MUD MASTERS
Permittee shall provide written notice to the Office of Oil and Gas of any load West Virginia solid waste facility. The notice shall be provided within 24 hou where it was properly disposed.	of drill cuttings or associated waste rejected at any ars of rejection and the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of to on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department provisions of the permit are enforceable by law. Violations of any term or concorregulation can lead to enforcement action. I certify under penalty of law that I have personally examined an application form and all attachments thereto and that, based on my inquiry of the information, I believe that the information is true, accurate, and complet submitting false information, including the possibility of fine or imprisonment Company Official Signature Company Official Title REGULATORY SPECIALIST	nent of Environmental Protection. I understand that the indition of the general permit and/or other applicable law and am familiar with the information submitted on this those individuals immediately responsible for obtaining stee. I am aware that there are significant predimeter. Office of Oil and Gass JUN 23 2025 WV Department of Environmental Protection
Subscribed and swom before me this day of day of	corvolusion expires October 22, 2026
Carla M. Harris	CONNORWEATH of Peris, Notary Public Property Notary Notary Public Property Notary Notary Public Property Notary N
My commission expires October 32, 2026	Commission number 1286242 My commission number 1286242 Commission Representation of Notaries 08/01/2025
-	Member, Pennsylvania Association 08/01/2025

Proposed Revegetation T	reatment: Acres Disturbe	d <u>10 </u>	Preveg etation p	п
	Tons/acre or to c		7	
Fertilizer type 8	3-16-16			
Fertilizer amoun	_t _968	lbs/	/acre	
Mulch_3		Tons/ac	re	
		Seed	<u>Mixtures</u>	
	Temporary		Perma	anent
9110 1) P	lbs/acre _ RYE 40LBS/AC	CRE	Seed Type BIRDSFOOT TREF	lbs/acre OIL 8LBS/ACRE
HAY/STRAW M	ULCH 3 TONS/A	CRE	TALL FESCUE	40LBS/ACRE
Maps(s) of road, location provided). If water from	n, pit and proposed area fo the pit will be land applie s, of the land application a	d, provide wat	tion (unless engineered plans incluer volume, include dimensions (L	ading this info have been, W, D) of the pit, and dimensions
Maps(s) of road, location provided). If water from (L, W), and area in acres	the pit will be land applies, of the land application a nvolved 7.5' topographics Gayne Openh signed by Gayne	d, provide wat rea.	tion (unless engineered plans incluer volume, include dimensions (L	nding this info have been, W, D) of the pit, and dimensions
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provided). If water from (L, W), and area in acres Photocopied section of in	the pit will be land applies, of the land application a nvolved 7.5' topographics Gayne Control of the land application a nvolved 7.5' topographics Gayne Control of the land application a nvolved 7.5' topographics Gayne Control of the land application a nvolved 7.5' topographics of the land application a nvolved 7.5' topographics of the land application and the land application application and the land application	d, provide wat rea. sheet.	er volume, include dimensions (L	RECEIVED

RECOMMENDED PERMANENT SEEDING MIXTURE FOR ALL DISTURBED AREAS

MIXTURE NUMBER	SEASON	SPECIES	SEEDING RATE (lb/ac)
2	COOL	BIRDSFOOT TREFOIL TALL FESCUE	B / 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)
MV I PRIDE		•
(1) SEE MIXTURE (% BY WEIGHT)	REDTOP - 10% PENNLAWN FESCUE - 45% KENTUCKY BLUECRASS - 45%	27 LBS
(2) 8-16-16	COMMERCIAL FERTILIZER	200 LBS
(3) LIME	GROUND COMMERCIAL LIMESTO	ONE 1,650 LBS
(4) MULCH	WOOD CELLULOSE FIBER	750 LØS

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.

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WV Department of Environmental Protection WW-9- GPP Rev. 5/16

	Page	of	
API Number 4	7 - 023	_ 00021	
Operator's Wel	No.BESS	IE BERG ETAL	1

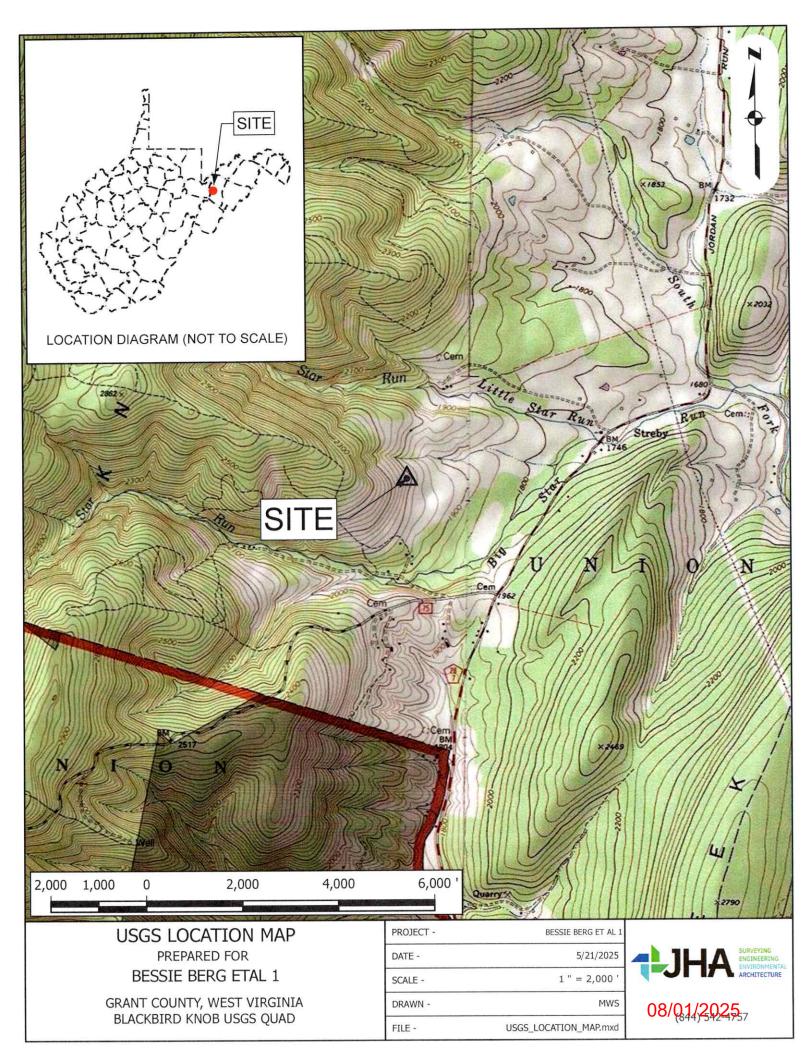
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

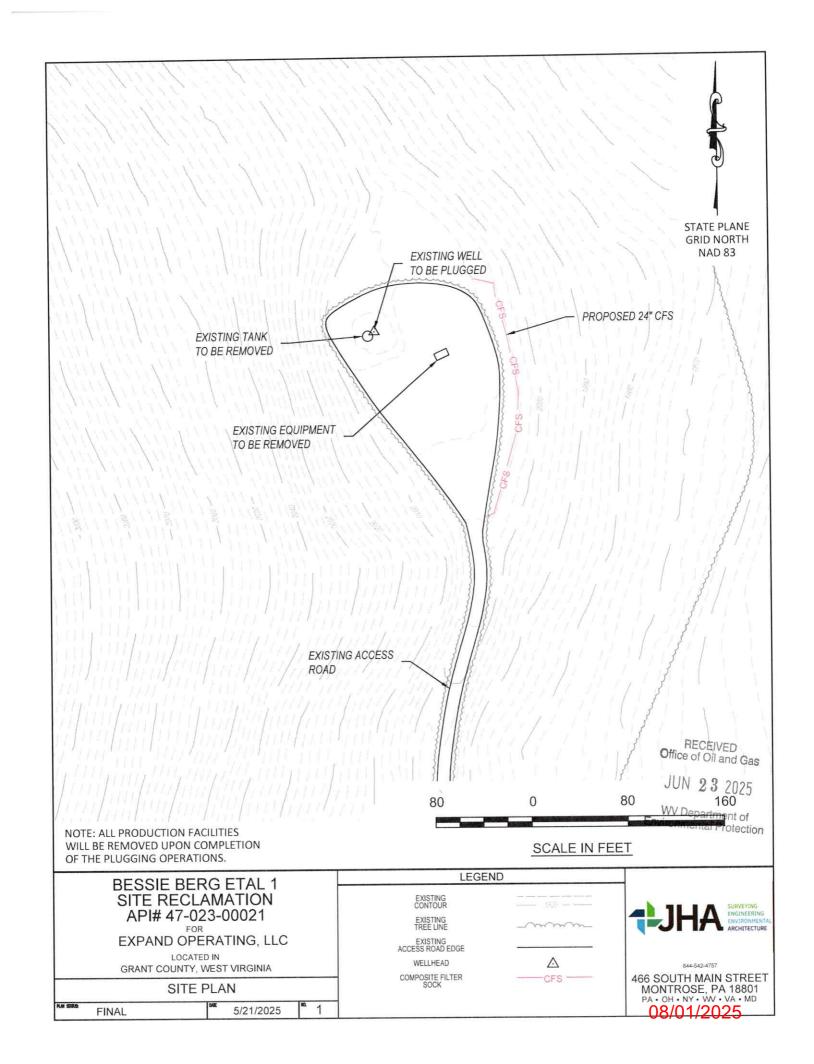
GROUNDWATER PROTECTION PLAN

GROUNDWATER FRO	TECTION TERM
Operator Name: EXPAND OPERATING LLC	
Watershed (HUC 10): BIG STAR RUN	Quad: BLACKBIRD KNOB
Farm Name: BESSIE BERG ETAL 1	
List the procedures used for the treatment and discharge of flu groundwater.	ids. Include a list of all operations that could contaminate the
SEE ATTACHED	
	the Country of the Co
Describe procedures and equipment used to protect groundwat	ter quality from the list of potential contaminant sources above.
List the closest water body, distance to closest water body, discharge area.	and distance from closest Well Head Protection Area to the
	RECEIVED
4. Summarize all activities at your facility that are already regula	
	JUN 23 2025
	WV Department of Environmental Protection

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

W-9- GPP	Page of API Number 47 - 083 01139
v. 5/16	Operator's Well No. MASON P KISAMORE 1
Descride a statement that no waste material wi	ill be used for deicing or fill material on the property.
Provide a statement that no waste material wa	in be used for determine or an instance of the property of the
Describe the groundwater protection instruction provide direction on how to prevent groundwater protection in the provided direction on how to prevent groundwater protection in the provided direction of the provided direction	ction and training to be provided to the employees. Job procedures shall water contamination.
	C.W.CDD alarment
Provide provisions and frequency for inspec	ctions of all GPP elements and equipment.
	RECEIVE Office of Oil an
	JUN 23 2
	WV Departmental Pro







West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

_{API:} 47-023-00021	WELL NO.: 1	
FARM NAME: BESSIE BE		
RESPONSIBLE PARTY NAME:	EXPAND OPERATII	NG LLC
COUNTY: GRANT	DISTRICT. UNI	ON
QUADRANGLE: BLACKBIF	BISTRICT: RD KNOB	
QUADRANGLE:	a Mayor	
SURFACE OWNER: Erma	omugas	
ROYALTY OWNER:	050.470	
UTM GPS NORTHING: 4,326,	,852.179	
UTM GPS EASTING: 651,015	5.555 GPS ELEVATION	_{ON:} 2000'
The Responsible Party named above preparing a new well location plat for above well. The Office of Oil and Gathe following requirements: 1. Datum: NAD 1983, Zone height above mean sea level 2. Accuracy to Datum – 3.09 3. Data Collection Method: Survey grade GPS X : Post Program 1 in the preparation of the preparat	r a plugging permit or assigned A as will not accept GPS coordinates: 17 North, Coordinate Units: metwel (MSL) – meters. 5 meters	PI number on the s that do not meet
Real-Ti	ime Differential	W/ Dapart
Mapping Grade GPS: Post	Processed Differential	Environmental Protection
Real	l-Time Differential	
4. Letter size copy of the to I the undersigned, hereby certify this belief and shows all the information prescribed by the Office of Oil and O	required by law and the regulation Gas.	cnowledge and
Kuchuno	REGULATORY SPECIALIST	U/17/25
Signature	Title	D-4-



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

plugging permits issued 4702300021

1 message

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

Wed, Jul 30, 2025 at 8:45 AM

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

To whom it may concern, a plugging permit has been issued for 4702300021.

--

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

