



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Monday, June 22, 2026
WELL WORK PLUGGING PERMIT
Vertical Plugging

EXPAND OPERATING LLC
6100 N WESTERN AVE.

OKLAHOMA CITY, OK 73118

Re: Permit approval for 1-2131
47-023-00010-00-00

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: 1-2131
Farm Name: HIPPI, CARL J.
U.S. WELL NUMBER: 47-023-00010-00-00
Vertical Plugging
Date Issued: 6/22/2026

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.

06/26/2026

4702300010 P
1) Date 5/22/26, 20 26
2) Operator's Well No. Carl Hipp 1-2131
3) API Well No. 47-023 - 00010

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 ☒ / Liquid injection ____ / Waste disposal ____ /
(If "Gas, Production ☒ or Underground storage ____) Deep ____ / Shallow ____

5) Location: Elevation 2641' Watershed Saltblock Run
District Union County Grant Quadrangle Greenland Gap

6) Well Operator Expand Operating LLC 7) Designated Agent Brittany Woody
Address 1300 Fort Pierpont Dr., Suite 201 Address 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508 Morgantown, WV 26508

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Gayne J Knitowski Name NA
Address 601 57th Street SE Address _____
Charleston WV 25304

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

See Attachment

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

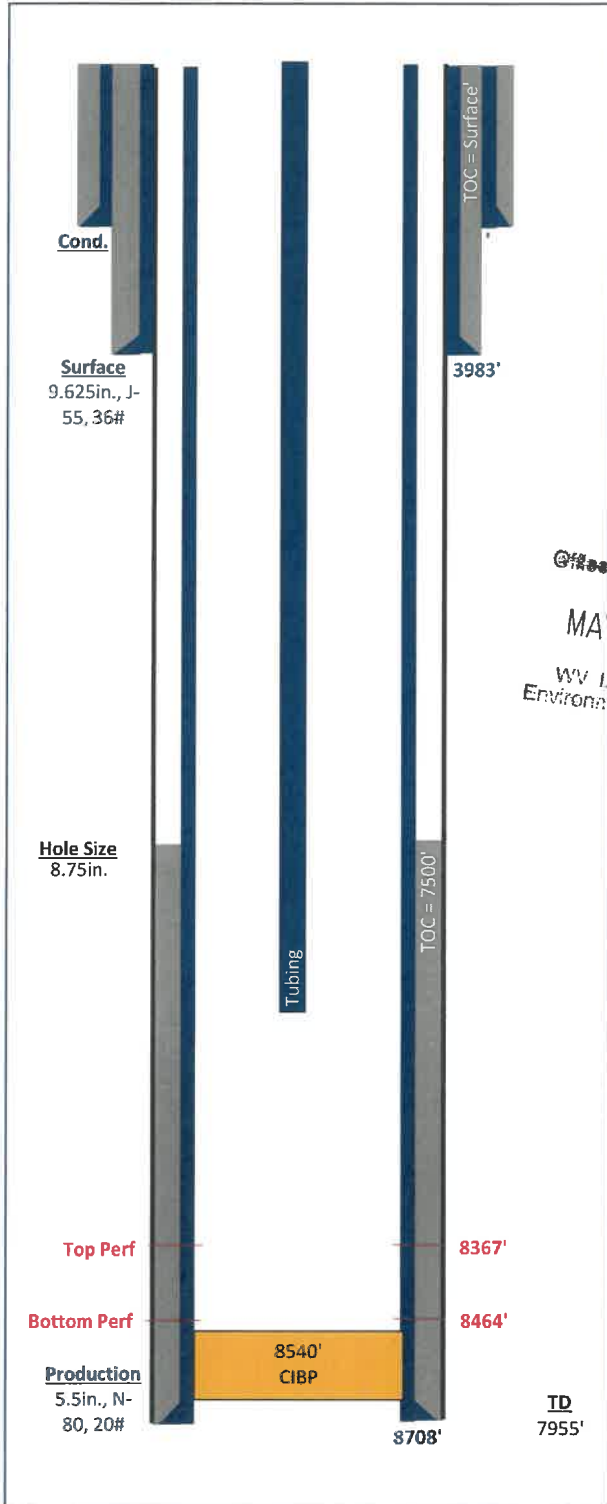
Work order approved by inspector Gayne Knitowski Date _____
Digitally signed by Gayne Knitowski
Date: 2026.05.20 10:54:25 -0400

06/26/2026

CARL HIPP 1-2131 (PN: 821351)



Current Wellbore Schematic



Proposed Wellbore Schematic



Schematics are note to scale

06/26/2026

CARL HIPP 1-2131 (PN: 821351)

Plug & Abandon

County/State: GRANT, WV Township: UNION BLM: NO

Latitude: Longitude: (NAD 83)

Property Number: 821351 API: 4702300010

AFE: WO:

Summary

The CARL HIPP 1-2131 will be plugged and abandoned. The well is located in GRANT County, WV and was spud on 12-28-1984 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.

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Pull 8,400' of Production Tubing

Run CBL

Cut and Pull ~6,000' of 5.5" 20# 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.

Barriers	Flow Path	
	Production Casing X Tubing	Tubing
Primary		
Secondary		
Tertiary		

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Set Tubing Plug in Tubing	
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."	
5	Close master valve, ND tree cap and necessary well head equipment downstream of upper master valve, NU wireline lubricator, wireline rams, primary pressure control, and test against upper master valve to 250 psi low / and a high pressure to a minimum of well's SICP pre-job. NU wireline lubricator

Flow Path		
Barriers	Production Casing X Tubing	Tubing
Primary	Tubing Head Adapter / Casing Gate	QHB
Secondary	Casing 2" Ball Valve	Vertical Master Valve
Tertiary		

6	Round trip 1.90" OD gauge ring to 8300'.
7	Make up and RIH w/ tubing pump through plug to 2,000' and set in tubing. RIH w/ pump through plug and set at
8	Negative pressure test tubing pump through plug.

Pump KWF at Start of Job	
Step	Operation
9	MIRU pump truck to production wing valve off. Prepare to leave rigged up until CIBP with cement is set in production casing.
10	Pump fluid down production casing until a Qualified Hydrostatic Barrier (QHB) is established and maintained, per Section 4.2 of Well Control Standard (OGB-EXE-STD-001).
11	Perform flow check to ensure QHB is established.
a.	Contact supervisor and engineer if higher weight kill fluid is required.

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

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Nipple Up WOR BOPs (Test against Master Valve)

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

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

13	Pressure test 7-1/16" 10K master valve against TWC to 250 / 4,500 psi.
a.	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.
14	NU 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.
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.

Barriers	Flow Path	
	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
15	If applicable, release packer and let elastomers relax for 20 min.

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

16	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, ensure pulling speeds are low enough to prevent swabbing.
17	Close 7-1/16" Master valve and Blind Ram

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

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Set CIBP	
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."	
18	Close master valve, NU wireline lubricator, wireline rams, primary pressure control, and test against upper master valve to 250 psi low / and a high pressure to a minimum of well's SICP pre-job.
19	Round trip 4.75" OD gauge ring to 8300'.
20	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 across collar.
21	Pressure test CIBP to 1,500 psi or 80% of casing burst pressure accounting for hydrostatic to CIBP depth, which ever is less.
22	Run pressurized CBL log from CIBP to surface.
23	ND wireline lubricator, wireline rams, primary pressure control.

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

Pump Cement and Spacer and Tac Weld Slips	
Step	Operation
24	Prep 8300' of 2-3/8" 4.7# L-80 workstring.
25	Change out pipe rams to handle 2-3/8" 4.7# L-80 workstring.
26	TIH w/ 2-3/8" workstring and tag TOC/CIBP.
	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

27	Plug Details - Plug #2 - Cement - Cement Perf Isolation Pump balanced cement plug as directed in Plug Details, displace tubing with specified volume. POOH 1,500' above estimated TOC. Close pipe ram. WOC for at least 8 hours.
28	Tag top of cement. Record depth.
29	TIH w/ workstring to bottom of spacer #1 and pump spacer as defined in Spacer Details.
30	POOH w/ workstring.
31	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 5.5" casing slips to 5.5" casing.

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

Nipple Up WOR BOPs (Test against CIBP)	
Step	Operation
32	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

33	NU 11" WOR BOPs and 11" Annular. Function and pressure test each ram. (T to B)	
	a.	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.

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 "Marcellus Production Wireline, Slickline, Braided Line Barrier Template."	

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

34	Using TOC from CBL, Round trip 4.75" gauge ring to desired depth.
35	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.
36	RD wireline. Circulate down 5.5" casing and out 9.625" casing to establish successful cut was made.
a.	Do not exceed a 0.8 psi/ft gradient when establishing circulation against open hole accounting for hydrostatic pressure.

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Pull Casing	
Step	Operation
37	MU casing spear, spear 5.5" casing. TOOH laying down 5.5" casing.
	a. Ensure appropriate TIW or swage to TIW valve with the operating key always on the rig floor. TIW valve must 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	

38	Once out of hole with casing shut Blind Ram.
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Flow Path	
Barriers	Intermediate Casing
Primary	QHB
Secondary	Master Valve
Tertiary	Blind Ram

Pump Cement and Spacer	
Step	Operation
1	Prep 5900' of 2-3/8" 4.7# L-80 workstring.
2	Change out pipe rams to handle 2-3/8" 4.7# L-80 workstring.
3	TIH w/ 2-3/8" workstring and tag TOC/CIBP.
	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

4	Plug Details - Plug #3 - Cement - Prod Csg Stub Plug (Open Hole)
	Pump balanced cement plug as directed in Plug Details, 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.

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Pump Cement and Spacer	
Step	Operation
1	Prep 3800' of 2-3/8" 4.7# L-80 workstring.
2	Change out pipe rams to handle 2-3/8" 4.7# L-80 workstring.
3	TIH w/ 2-3/8" workstring and tag TOC/CIBP.
	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

4	Plug Details - Plug #4 - Cement - Inter Csg Shoe Plug (Inside Csg) Pump balanced cement plug as directed in Plug Details, 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.

Pump Surface Cement Plug	
Step	Operation
8	TIH w/ 2-3/8" workstring and tag TOC/CIBP.
	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.
9	Plug Details - Plug #5 - Cement - Surface Plug Pump balanced cement plug as directed in Plug Details, displace tubing with specified volume. Close pipe ram.
10	ND WOR BOPs. RDMO Workover rig and all associated equipment.

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 abandonment cap installed.
12	Establish hot work permit. Perform LEL assessment of well head and ensure LEL monitoring remains in place. Visually check wellbore and cellar for signs of bubbling. Contact supervisor and OKC engineer if LELs or 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.

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CARL HIPP 1-2131 (PN: 821351)



Well Information

Surface Location	
County/State	GRANT, WV
Township	UNION
Latitude*	0
Longitude*	0

*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

KB	10	Top Perf	8,367	Perf Interval (ft)	97	PBTD	7,955
KOP	N/A	Btm Perf	8,464	TD	7,955	Elevation	2,640

Casing Details

String	Casing Type	ID	Drift	Top (ftKB)	Bottom (ftKB)	Collapse 70% (PSI)	Burst 70% (PSI)	Yield 70% (ktb)	Capacity (bbl/ft)	Tot. Cap. (bbl)	Hole Size
Conductor											
Surface	9.625" 36# J-55	8.921	8.765	12	3,983	1,414	2,464	276	0.0773	307	12.25
Intermediate											
Production	5.5" 20# N-80	4.778	4.653	12	8,708	6,181	6,433	300	0.0222	193	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. (bbl)
2.375" 4.7#	J-55	1.995	1.901	8,395	10	8,405	6,480	6,160	72,000	0.0039	32

Workstring 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. (bbl)
2.375" 4.7#	L-80	1.995	1.901	8,300	10	8,310	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](#)

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4702300010P

Classification: DCL-Internal

CARL HIPP 1-2131 (PN: 821351)



Plugging Proposal

Plug Details													
#	Type	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	4.778	2	8,267	8,265	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	Cement	Cement Perf Isolation	4.778	200	8,265	8,065	Class A	1.28	15.5	20	5.3	23.3	30.0
3	Cement	Prod Csg Shoe Plug	4.778	100	6,100	6,000	Class A	1.28	15.5	20	2.7	11.7	
3	Cement	Prod Csg Shoe Plug	8.75	100	6,000	5,900	Class A	1.28	15.5	50	11.2	48.9	21.2
4	Cement	Inter Csg Shoe Plug (Open Hole)	8.75	100	4,083	3,983	Class A	1.28	15.5	50	11.2	48.9	
4	Cement	Inter Csg Shoe Plug (Inside Csg)	8.921	100	3,983	3,883	Class A	1.28	15.5	20	9.3	40.7	13.4
5	Cement	Surface Plug	8.921	100	100	0	Class A	1.28	15.5	20	9.3	40.7	0.0

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Classification: DCL-Internal

CARL HIPP 1-2131 (PN: 821351)

expand

Spacer Details											
#	Fluid Type	Description	Set ID	Spacer Height	Bottom of Spacer (ftKB)	Top of Spacer (ftKB)	Spacer Density (ppg)	Spacer Viscosity (cp)	Excess Spacer (%)	Spacer Volume (bbls)	
1	Gel	Perf Isolation Plug to Prod Csg Stub Plug	4.778	1,965	8,065	6,100	9	-	10	47.9	
2	Gel	Prod Csg Stub Plug to Inter Csg Shoe Plug	8.75	1,817	5,900	4,083	9	-	40	189.2	
3	Gel	Inter Csg Shoe Plug to Surface Plug	8.921	3,783	3,883	100	9	-	10	321.7	
4											
5											
6											
7											
8											
9											
10											

Estimated Casing Cuts	
String	Est. Cut Depth (ftKB)
Intermediate	
Production	6,000

Pg 10.

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IV-35
(Rev 8-81)

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State of West Virginia

Department of Mines
Oil and Gas Division

Date July, 26, 1985
Operator's
Well No. 1 - 2131
Farm Carl Hipp Unit #1
API No. 47 - 023 - 0010

TO BE HELD CONFIDENTIAL

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas x / Liquid Injection / Waste Disposal /
(If "Gas," Production / Underground Storage / Deep x / Shallow /)

LOCATION: Elevation: 2640' Watershed Saltblock Run
District: Union County Grant Quadrangle Greenland Gap

COMPANY UNION DRILLING, INC.
ADDRESS P.O. Drawer 40, Buckhannon, WV 26201
DESIGNATED AGENT Joseph C. Petty
ADDRESS P.O. Drawer 40, Buckhannon, WV 26201
SURFACE OWNER see attached sheet
ADDRESS
MINERAL RIGHTS OWNER see attached sheet
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK
Russell Beall ADDRESS P.O.Box 160, Philippi, WV 26416
PERMIT ISSUED 10/4/84
DRILLING COMMENCED 12/28/84
DRILLING COMPLETED 2/27/85

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cm.			
13-10"	39.40'	39.40'	115 cf
9 5/8	3983.50'	3983.50'	1725 cf
8 5/8			
7			
5 1/2		8702.95'	685 cf
4 1/2			
3			
2		8297.13'	
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 9500' feet
Depth of completed well 8752' feet Rotary xxx / Cable Tools
Water strata depth: Fresh none reported feet; Salt feet
Coal seam depths: no coal Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Oriskany Sandstone Pay zone depth 8464' feet
Gas: Initial open flow 189 after Mcf/d Oil: Initial open flow Bbl/d
Final open flow 984 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 2 hours
Static rock pressure 3250# psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

06/26/2026

4702300010P

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Halliburton - 1 stage Foam Frac - 5/24/85

8367/74 - Oriskany - 245,000# sand, 1000 gals 15% Fr. acid and used
8458/64 - Oriskany 31 tons of CO2 throughout treatment

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Purcell Limestone			7920	7989	
Lower Marcellus			7990	8060	
Needmore Shale			8060	8214	
Oriskany Sandstone			8214	8566	
Helderberg Limestone			8566	8752'	189 mcf after 33 hrs.

RECEIVED
Office of Oil and Gas

MAY 27 2026

NY Department of
Environmental Protection

(Attach separate sheets as necessary)

UNION DRILLING, INC.

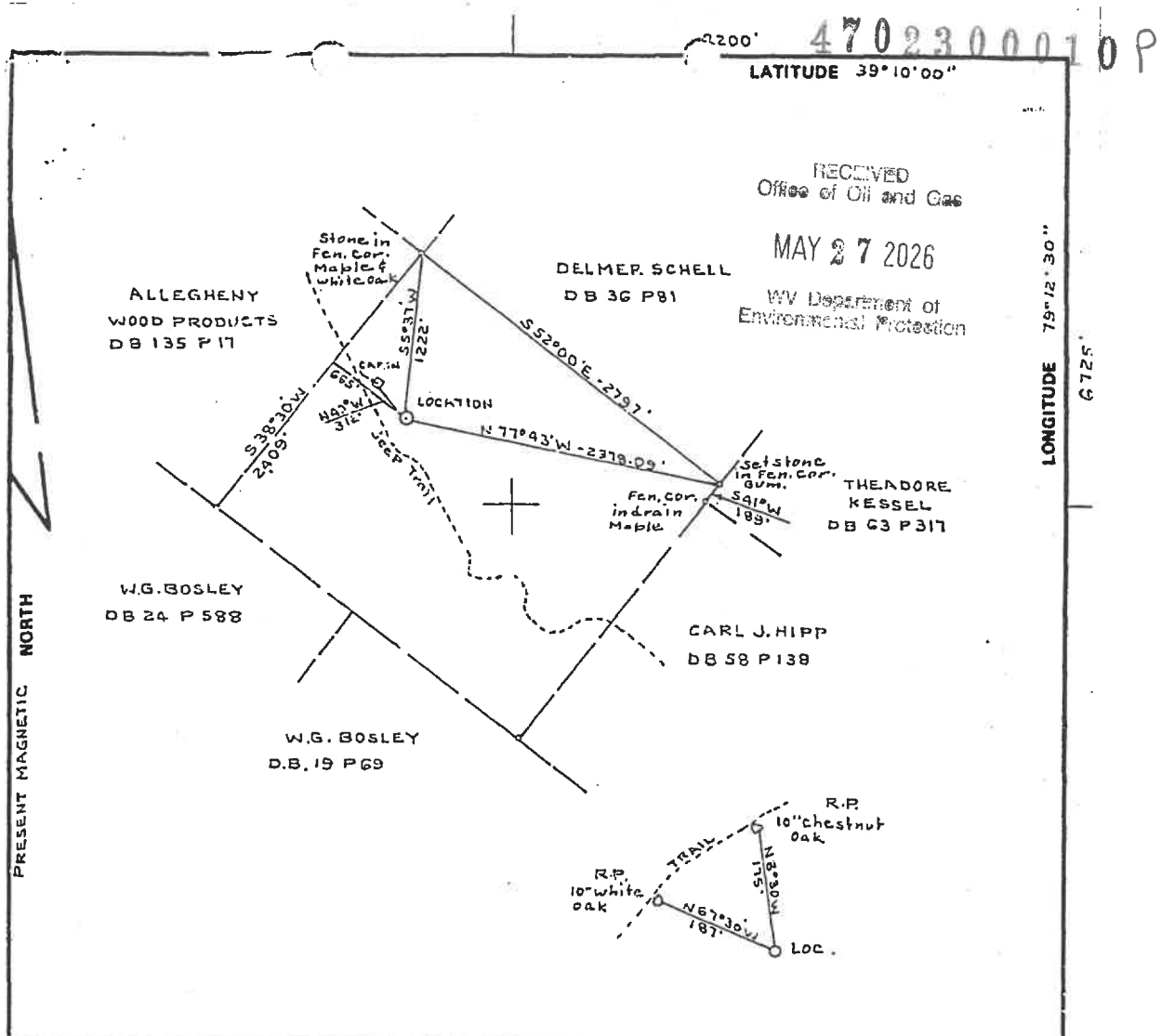
Well Operator

By: Joseph C. Pettey
Date: Joseph C. Pettey, Vice President of Production

7/26/85

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

06/26/2026



FILE NO. BK 87 P 37
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF
ACCURACY 1" = 200
PROVEN SOURCE OF
ELEVATION USGS Road Forks
11100' S.E. of Location
E1 1573

I, THE UNDERSIGNED, HEREBY CERTIFY THAT
THIS PLAT IS CORRECT TO THE BEST OF MY
KNOWLEDGE AND BELIEF AND SHOWS ALL THE
INFORMATION REQUIRED BY LAW AND THE REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF MINES.

(SIGNED) C. S. Valley Jr.
R.P.E. _____ L.S. 92

PLACE SEAL HERE

(+) DENOTES LOCATION OF
WELL ON UNITED STATES
TOPOGRAPHIC MAPS

FORM IV-6
(8-78)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE AUG 27, 19 84
OPERATOR'S WELL NO. 2131
API WELL NO. CARL J. HIPPI #21

STATE _____ COUNTY _____ PERMIT _____

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS,") PRODUCTION X STORAGE _____ DEEP X SHALLOW _____
LOCATION: ELEVATION 2640.59 WATER SHED SALT BLOCK RUN
DISTRICT UNION COUNTY GRANT
QUADRANGLE GREENLAND GAP

SURFACE OWNER CARL J. HIPPI ACREAGE 330
OIL & GAS ROYALTY OWNER CARL J. HIPPI LEASE ACREAGE 330
LEASE NO. 178967

PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR
STIMULATE X PLUG OFF OLD FORMATION _____ PERFORATE NEW
FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
TARGET FORMATION ORISKANY ESTIMATED DEPTH 9500
WELL OPERATOR UNION DRILLING INC. DESIGNATED AGENT JOSEPH VANZANT
ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40
BUCKHANNON WV 26201 BUCKHANNON WV 26201



Select County: (023) Grant Select datatypes: ☐ (Check All)

Enter Permit #: 00010

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

[Table Descriptions](#)
[County Code Translations](#)
[Permit-Numbering Series](#)
[Usage Notes](#)
[Contact Information](#)
[Disclaimer](#)
[WVGES Main](#)
["Pipeline-Plus" New](#)

WV Geological & Economic Survey:

Well: County = 23 Permit = 00010 [Link to all digital records for well](#)

Report Time: Monday, June 22, 2026 8:49:42 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4702300010	Grant	10	Union	Greenland Gap	Greenland Gap	39.148341	-79.236978	652348.8	4334718.5

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
4702300010	2/27/1985	Original Loc	Completed	Carl J Hipp	1	2131				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_BEF	G_AFT	O_BEI
4702300010	2/27/1985	12/28/1984	2641	Ground Level	Jordan Run	Helderberg	Helderberg	Development Well	Development Well	Gas	Rotary	Acid+Frac	8751		8751		189	984

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4702300010	2/27/1985	Pay	Gas	Vertical	8367	Oriskany	8374	Oriskany	0	0			
4702300010	2/27/1985	Pay	Gas	Vertical	8458	Oriskany	8464	Oriskany	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
4702300010	Union Drilling, Inc.	1985	39,449	0	0	0	0	0	0	0	0	1,715	7,251	10,143	20,340
4702300010	Union Drilling, Inc.	1986	191,963	9,325	10,992	13,855	25,735	28,476	25,441	26,115	17,598	6,510	8,783	6,364	12,769
4702300010	Union Drilling, Inc.	1987	277,489	23,708	24,059	22,877	20,085	23,563	24,241	22,292	19,547	30,319	28,012	18,330	20,456
4702300010	Equitable Resources Exploration, Inc.	1988	192,877	21,418	21,391	20,467	17,512	17,982	16,838	15,704	14,447	13,554	11,419	10,929	11,216
4702300010	Equitable Resources Exploration, Inc.	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Columbia Natural Resources, Inc. (CNR)	1992	85,372	8,889	8,286	7,245	7,115	7,025	7,433	6,683	7,300	6,318	6,738	6,343	5,997
4702300010	Columbia Natural Resources, Inc. (CNR)	1993	5,144	0	0	0	0	0	0	0	0	0	0	2,302	2,842
4702300010	Columbia Natural Resources, Inc. (CNR)	1994	24,874	2,171	1,787	1,719	2,100	0	1,177	1,603	2,088	1,113	2,900	4,193	4,023
4702300010	Columbia Natural Resources, Inc. (CNR)	1995	31,223	3,464	3,242	2,383	3,844	3,920	2,684	0	581	2,458	3,131	2,686	2,830
4702300010	Columbia Natural Resources, Inc. (CNR)	1996	16,211	2,872	3,080	4,076	846	967	591	700	397	199	490	953	1,040
4702300010	Columbia Natural Resources, Inc. (CNR)	1997	6,779	690	676	791	569	624	517	505	589	412	377	545	484
4702300010	Columbia Natural Resources, Inc. (CNR)	1998	4,738	454	486	496	517	276	337	300	446	486	408	254	278
4702300010	Columbia Natural Resources, Inc. (CNR)	1999	1,252	151	145	135	92	131	76	54	42	284	16	34	92
4702300010	Columbia Natural Resources, Inc. (CNR)	2000	1,328	0	44	18	44	137	177	210	179	183	151	135	50
4702300010	Columbia Natural Resources, Inc. (CNR)	2001	738	82	44	52	52	84	56	72	76	72	64	52	32
4702300010	Columbia Natural Resources, Inc. (CNR)	2002	196	36	24	46	20	24	20	8	18	0	0	0	0
4702300010	Columbia Natural Resources, Inc. (CNR)	2003	70	0	18	14	0	14	0	0	0	24	0	0	0
4702300010	Columbia Natural Resources, Inc. (CNR)	2004	24	0	0	0	0	0	0	0	0	4	12	0	8
4702300010	Chesapeake Appalachia, LLC	2005	584	12	6	0	2	58	54	48	48	42	105	98	111
4702300010	Chesapeake Appalachia, LLC	2006	827	100	96	93	100	82	85	150	35	28	44	0	14
4702300010	Chesapeake Appalachia, LLC	2007	72	32	19	21	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2008	20	0	0	0	0	0	0	8	0	0	0	12	0
4702300010	Chesapeake Appalachia, LLC	2009	292	0	0	0	0	0	0	0	0	0	0	225	67
4702300010	Chesapeake Appalachia, LLC	2010	2,188	120	53	131	245	275	283	188	89	203	237	198	166
4702300010	Chesapeake Appalachia, LLC	2011	1,732	153	89	184	167	196	175	206	179	121	123	139	0
4702300010	Chesapeake Appalachia, LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2021	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2022	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2023	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2024	0	0	0	0	0	0	0	0	0	0	0	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
4702300010	Union Drilling, Inc.	1985	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Union Drilling, Inc.	1986	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Union Drilling, Inc.	1987	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Equitable Resources Exploration, Inc.	1988	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Equitable Resources Exploration, Inc.	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Columbia Natural Resources, Inc. (CNR)	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Columbia Natural Resources, Inc. (CNR)	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Columbia Natural Resources, Inc. (CNR)	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Columbia Natural Resources, Inc. (CNR)	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Columbia Natural Resources, Inc. (CNR)	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Columbia Natural Resources, Inc. (CNR)	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Columbia Natural Resources, Inc. (CNR)	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Columbia Natural Resources, Inc. (CNR)	1999	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Columbia Natural Resources, Inc. (CNR)	2000	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Columbia Natural Resources, Inc. (CNR)	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Columbia Natural Resources, Inc. (CNR)	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Columbia Natural Resources, Inc. (CNR)	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Columbia Natural Resources, Inc. (CNR)	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2021	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2022	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2023	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2024	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL 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_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4702300010	Chesapeake Appalachia, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0

06/26/2026

4702300010	Chesapeake Appalachia, LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2016	0															
4702300010	Chesapeake Appalachia, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2021	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2022	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4702300010	Chesapeake Appalachia, LLC	2016	0												
4702300010	Chesapeake Appalachia, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2021	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2022	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2023	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300010	Chesapeake Appalachia, LLC	2024	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4702300010	Original Loc	Purcell Ls Mbr	Well Record	7920	Reasonable	69	Reasonable	2641	Ground Level
4702300010	Original Loc	to Marcellus	Well Record	7990	Reasonable	70	Reasonable	2641	Ground Level
4702300010	Original Loc	Needmore Sh	Well Record	8060	Reasonable	154	Reasonable	2641	Ground Level
4702300010	Original Loc	Oriskany	Well Record	8214	Reasonable	352	Reasonable	2641	Ground Level
4702300010	Original Loc	Helderberg	Well Record	8566	Reasonable	0	Reasonable	2641	Ground Level

Wireline (E-Log) Information:

* Scanned/Raster Log Information:

API	STATUS	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAILABLE	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	INI
4702300010	Regular Entry	3850	8745		G,C,D,N,*	Y	3850	8722	3850	8745	3850	8720							3850	8745	Y	Y

Scanned/Raster Comment: *logs: caliper, PE

* There is no Digitized/LAS Log data for this well

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.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click [here](#)

geologic log types:

- d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
- o other¹
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

mechanical log types:

- b cement bond
- c caliper
- 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 Plugging data for this well

Sample Information:

API	CUT1_TOP	CUT1_BOT	CUT2_TOP	CUT2_BOT	CORE1_TOP	CORE1_BOT	FM1_TOP	FM1_BOT	CORE2_TOP	CORE2_BOT	FM2_TOP	FM2_BOT	SMPL	THN_SEC1	SCAN1	SLAB1	PERM1	THN_SEC
4702300010	5800	8750																

4702300010P

WW-4A
Revised 6-07

RECEIVED
Office of Oil and Gas
MAY 27 2026
WV Department of
Environmental Protection

1) Date: _____
2) Operator's Well Number
Carl Hipp 1-2131

3) API Well No.: 47 - 023 - 00010

**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
Address

Esther Hipp
75 Cherokee Ridge,
Maysville WV 26833

(b) Name
Address

Michael Hipp
HC 33 Box 276
Petersburg WV 26847

(c) Name
Address

6) Inspector

Address

Strader Gower

601 57th Street, SE

Charleston, WV 25304

Telephone

304-993-6188

5) (a) Coal Operator

Name

Address

NO COAL OPERATOR

(b) Coal Owner(s) with Declaration

Name

Address

Esther Hipp
75 Cherokee Ridge
Maysville WV 26833
Michael Hipp
HC 33 Box 276
Petersburg WV 26847

(c) Coal Lessee with Declaration

Name

Address

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

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

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the 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

By:

Its:

Address

Telephone

Expand Operating LLC

Brittany Woody

Senior Regulatory Analyst

1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

304-209-5688

Brittany Woody

Subscribed and sworn before me this 20 day of May 2026
Elizabeth Blankenship Notary Public

My Commission Expires 6/23/2029

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

ORIGIN ID:MGWA (304) 884-1628
BRITTANY WOODY
EXPAND ENERGY CORPORATION
1300 FORT PIERPONT DR.
SUITE 201
MORGANTOWN, WV 26508
UNITED STATES US

SHIP DATE: 21MAY26
ACTWGT: 0.05 LB
CAD: 259327464/INET4535

BILL SENDER

TO MICHAEL HIPPI

HC 33 BOX 276

PETERSBURG WV 26847

REF: HIPPI PLUGGING PERMIT

(000) 000-0000

INV:

PO:

DEPT:

58KJ3/A906/484B



FedEx Express



J261026012001W

WED - 27 MAY 5:00P
EXPRESS SAVER

TRK# 8720 5168 7467

0201

65 CUMBG
CBEA 26847
WV-US PIT



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2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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WV Department of
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4702300010P

06/26/2026

ORIGIN ID:MGWA (304) 884-1628
BRITTANY WOODY
EXPAND ENERGY CORPORATION
1300 FORT PIERPONT DR.
SUITE 201
MORGANTOWN, WV 26508
UNITED STATES US
SHIP DATE: 21MAY26
ACTWGT: 0.05 LB
CAD: 259327464/NET4535
BILL SENDER

TO **ESTHER HIPPI**

75 CHEROKEE RIDGE

MAYSVILLE WV 26833

REF: HIPPI PLUGGING PERMIT

(000) 000-0000

INV:

PO:

DEPT:

58KJ3/A906/4948



FedEx
Express



J261026012001WV

WED - 27 MAY 5:00P

EXPRESS SAVER

ASR

CBEA 26833

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PIT

TRK#

8720 5154 1050

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SURFACE OWNER WAIVER

4702300010P

Operator's Well
Number

Carl Hipp 1-2131

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

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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.

NO WAIVER
SIGNED

FOR EXECUTION BY A CORPORATION,

_____ Signature	_____ Date	_____ Name By Its	_____ Date
		Signature	Date

06/26/2026

WW-4B

API No.

4702300010
47-023-00010

Farm Name

Well No.

Carl Hipp 1-2131

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Office of Oil and Gas

MAY 27 2026

WV Department of
Environmental Protection

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.

(NO WAIVER)

WAIVER

The undersigned coal operator _____ / 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: _____

By: _____

Its _____

06/26/2026

WW-9
(5/16)

4702300010P

API Number 47 - 023 - 00010
Operator's Well No. _____

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

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Office of Oil and Gas

MAY 27 2026

Operator Name Expand Operating LLC OP Code 494494833

Watershed (HUC 10) Saltblock Run Quadrangle Greenland Gap

WV Department of
Environmental Protection

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 ☒ Any well effluent will be contained in tanks before disposing off-site

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes ☐ No ☒ If so, what ml? _____

Proposed Disposal Method For Treated Pit Wastes:

- ☐ Land Application (if selected provide a completed form WW-9-GPP)
☐ Underground Injection (UIC Permit Number _____)
☐ Reuse (at API Number _____)
☒ Off Site Disposal (Supply form WW-9 for disposal location)
☐ Other (Explain _____)

Will closed loop system be used? If so, describe: Drill cuttings will be circulated back into an open tank

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

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

Additives to be used in drilling medium? N/A

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

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

-Landfill or offsite name/permit number? Kimble Sanitary Landfill or Mud Masters

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

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Brittany Woody

Company Official (Typed Name) Brittany Woody

Company Official Title Senior Regulatory Analyst

Subscribed and sworn before me this 20 day of May, 20 26

Elizabeth Blankenship

Notary Public

My commission expires 6/23/2029



4702300010 P

Operator's Well No. _____

Proposed Revegetation Treatment: Acres Disturbed 10 Prevegetation pH 5.5Lime 3.90 Tons/acre or to correct to pH 7Fertilizer type 8-16-16Fertilizer amount 968 lbs/acreMulch 3 Tons/acreRECEIVED
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MAY 27 2026

WV Department of
Environmental ProtectionSeed MixturesTemporaryPermanent

Seed Type lbs/acre

OATS/ANNUAL RYE 40LBS/ACREHAY/STRAW MULCH 3 TONS

Seed Type lbs/acre

BIRDSFOOT TREFOIL 8LBS/ACRETALL FESCUE 40LBS/ACRE

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Gayne Knitowski Digitally signed by Gayne Knitowski
Date: 2026.05.20 10:52:30 -0400

Comments: _____

Title: Inspector Date: _____

Field Reviewed? (X) Yes () No

06/26/2026

4702300010P

RECOMMENDED PERMANENT SEEDING MIXTURE
FOR ALL DISTURBED AREAS

MIXTURE NUMBER	SEASON	SPECIES	SEEDING RATE (lb/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 (% BY WEIGHT)	REDFEED - 10% PENNLAWN FESCUE - 45% KENTUCKY BLUEGRASS - 45%	27 LBS
(2) 8-16-16	COMMERCIAL FERTILIZER	200 LBS
(3) LIME	GROUND COMMERCIAL LIMESTONE	1,650 LBS
(4) MULCH	WOOD CELLULOSE FIBER	750 LBS

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APPROXIMATE TACK COAT

PROCEDURE: SURFACE TO BE HYDROSEEDING SHALL BE CLEANED OF ALL DEBRIS AND OTHER MATTER HARMFUL TO UNIFORM GERMINATION. A WATER-SURRY MIXTURE COMPOSED OF THE ABOVE "MATERIALS". ITEMS (1) THROUGH (3) INCLUSIVE, SHALL BE SPRAYED UNIFORMLY OVER THE AREAS TO BE HYDROSEEDING. 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 RESEEDING AND REMULCHING 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.

06/26/2026

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

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WV Department of
Environmental Protection

Operator Name: Expand Operating LLC

Watershed (HUC 10): Saltblock Run

Quad: Greenland Gap

Farm Name: Carl Hipp 1-2131

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

SEE ATTACHED

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

4. Summarize all activities at your facility that are already regulated for groundwater protection.

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

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4702300010P
Page 2 of 2
API Number 47 - 023 - 00010
Operator's Well No. Carl Hipp 1-2131

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6. Provide a statement that no waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

Signature: _____

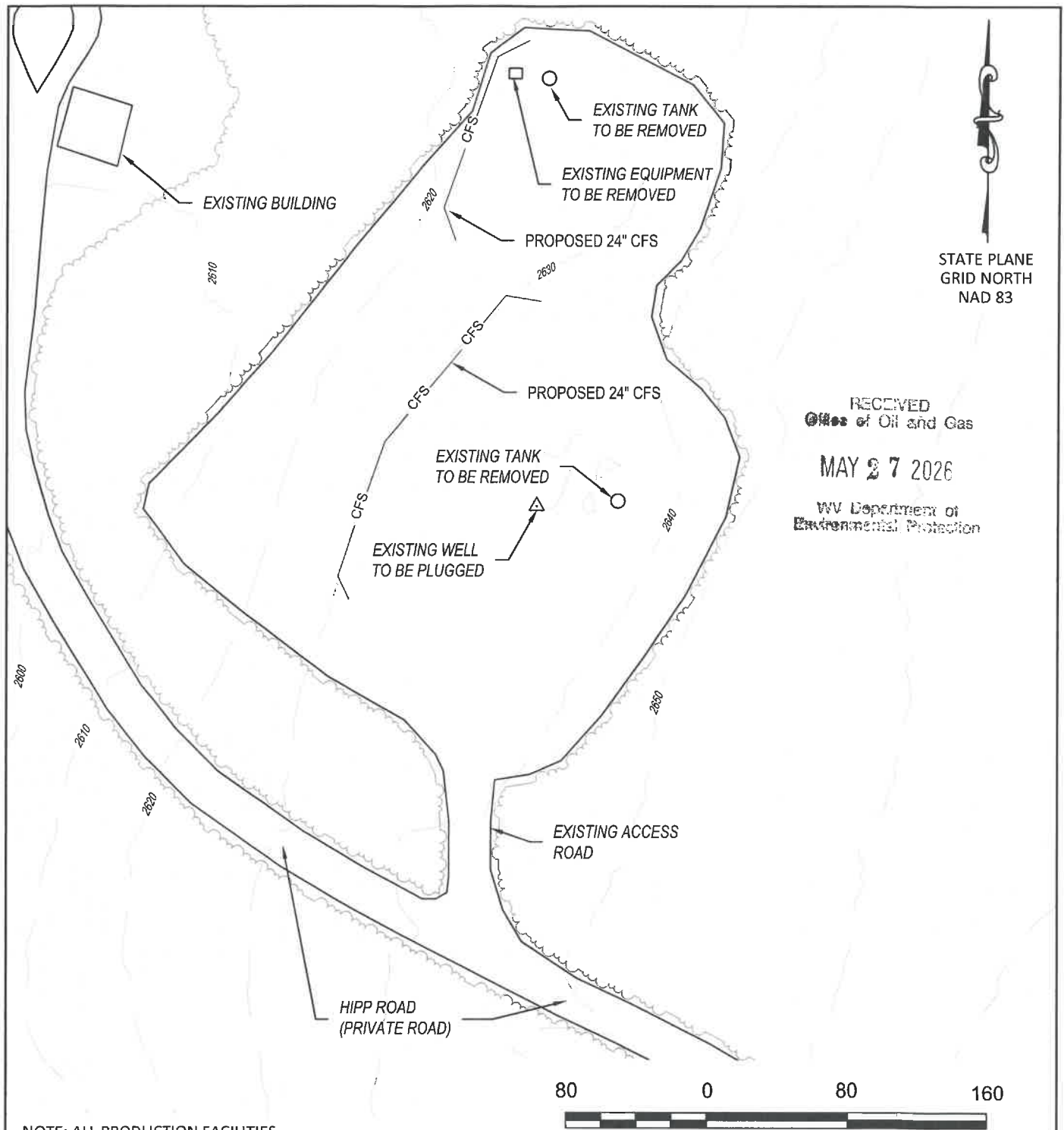
Brittany Noddy

Date: _____

5/22/26

06/26/2026

4702300010P



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

SCALE IN FEET

**CARL HIPPI 1-2131
SITE RECLAMATION
API# 4702300010**
FOR
EXPAND OPERATING, LLC
LOCATED IN
GRANT COUNTY, WEST VIRGINIA

SITE PLAN

LEGEND

EXISTING CONTOUR	
EXISTING TREE LINE	
EXISTING ROAD EDGE	
WELLHEAD	
COMPOSITE FILTER SOCK	
CFS	



844-542-4757

466 SOUTH MAIN STREET
MONTROSE, PA 18801
PA • OH • NY • WV • VA • MD

PLAN SHEET	FINAL	DATE	03/25/2026	REV.	1
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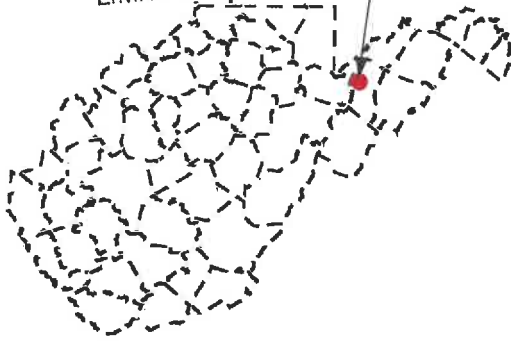
06/26/2026

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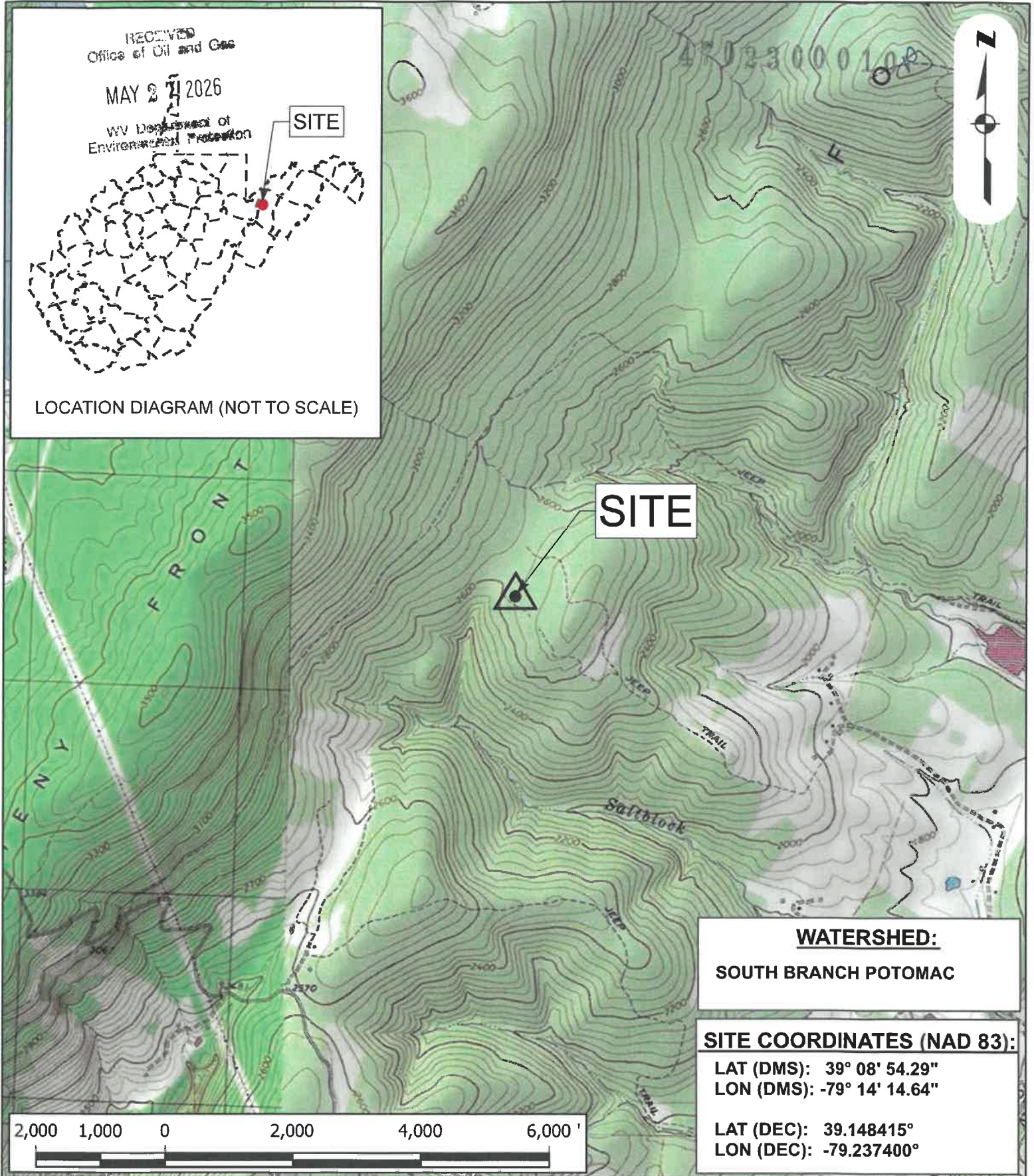
MAY 27 2026

WV Department of
Environmental Protection

SITE



LOCATION DIAGRAM (NOT TO SCALE)



WATERSHED:

SOUTH BRANCH POTOMAC

SITE COORDINATES (NAD 83):

LAT (DMS): 39° 08' 54.29"

Lon (DMS): -79° 14' 14.64"

LAT (DEC): 39.148415°

Lon (DEC): -79.237400°

USGS LOCATION MAP

PREPARED FOR

CARL HIPPI 1-2131

API# 47-023-00010

**UNION DISTRICT, GRANT COUNTY, WEST VIRGINIA
GREENLAND GAP USGS QUAD**

PROJECT -

CARL HIPPI 1-2131

DATE -

3/26/2026

SCALE -

1" = 2,000'

DRAWN -

JCOOK

FILE -

2026-0359_USGS_Loc_Map.mxd



06/26/2026
(24) 242267

WW-7
8-30-06



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WV Department of
Environmental Protection

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

API: 47-023-00010 WELL NO.: 1-2131
FARM NAME: Carl Hipp
RESPONSIBLE PARTY NAME: Expand Operating LLC
COUNTY: Logan GRANT DISTRICT: Union
QUADRANGLE: Greenland Gap
SURFACE OWNER: Esther Hipp & Michael Hipp
ROYALTY OWNER: Denver L. & Patsy O. Hipp & Carl J. & Esther L. Hipp
UTM GPS NORTHING: 4,334,725.91
UTM GPS EASTING: 652,312.19 GPS ELEVATION: 2641'

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 x: Post Processed Differential X

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.

Brittany Woody
Signature

Senior Regulatory Analyst
Title

5/22/26
Date

06/26/2026

Carl Hipp 1-2131

11/10/2016

PLUGGING PERMIT CHECKLIST

4702300010

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Plugging Permit

MAY 27 2026

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Environmental Protection

- ☒ WW-4B
- ☒ WW-4B signed by inspector
- ☒ WW-4A
- ☒ SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- ☒ COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- ☒ WW-9 PAGE 1 (NOTARIZED)
- ☒ WW-9 PAGE 2 with attached drawing of road, location, pit and proposed area for land application
- ☒ WW-9 GPP PAGE 1 and 2 if well effluent will be land applied
- ☒ RECENT MYLAR PLAT OR WW-7
- ☒ WELL RECORDS/COMPLETION REPORT
- ☒ TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED
- ☒ MUST HAVE VALID BOND IN OPERATOR'S NAME
- ☒ CHECK FOR \$100 IF PIT IS USED

06/26/2026