



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

Thursday, July 2, 2026
WELL WORK PLUGGING PERMIT
Vertical Plugging

EXPAND OPERATING LLC
6100 N WESTERN AVE.

OKLAHOMA CITY, OK 73118

Re: Permit approval for 2144
47-023-00014-00-00

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

A handwritten signature in black ink, appearing to read "Jason Harmon", is written over a white background.

Operator's Well Number: 2144
Farm Name: HASLACKER, VERNON L.
U.S. WELL NUMBER: 47-023-00014-00-00
Vertical Plugging
Date Issued: 07/02/2026

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.

4702300014P
1) Date 5/22/26, 2026
2) Operator's Well No. EL Haslacker 2144
3) API Well No. 47-023 - 00014

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil ____/ Gas x/ Liquid injection ____/ Waste disposal ____/
(If "Gas, Production x or Underground storage ____) Deep ____/ Shallow ____
- 5) Location: Elevation 2115 Watershed North Fork Lunice Creek
District Union County Grant Quadrangle Blackbird Knob
- 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 Digitally signed by
Gayne Knitowski Date: 2026.05.20
10:49:06 -04'00' Date _____

07/03/2026

4702300014 P

E L HASLACKER 2144 (PN: 821444)**expand****Plug & Abandon**

County/State: GRANT, WV Township: UNION BLM: NO
 Latitude: 39.1153152087 Longitude: -79.2551956532 (NAD 83)
 Property Number: 821444 API: 4702300014
 AFE: WO:

Summary

The E L HASLACKER 2144 will be plugged and abandoned. The well is located in GRANT County, WV and was spud on 06-12-1986 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 7,700' of Production Tubing**Run CBL****Cut and Pull ~4,500' of 5.5" 17# Production Casing****(3) 200' & (1) 100' Cement Plugs. See detail on Page 9****Gel detail on Page 10**

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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-EXE-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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4702300014P

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 7,000'.
---	---

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.

Flow Path		
Barriers	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.

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

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

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

Flow Path	
Barriers	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 4.85" OD gauge ring to 7700'.
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.

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

Pump Cement and Spacer and Tag Weld Slips	
Step	Operation
24	Prep 7600' 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.

Flow Path		
Barriers	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 4.85" gauge ring to desired depth.
35	Make up 4.85" 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 7400' 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 4400' 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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E L HASLACKER 2144 (PN: 821444)



Well Information

Surface Location	
County/State	GRANT, WV
Township	UNION
Latitude*	39.11531521
Longitude*	-79.25519565

*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	12	Top Perf	7,724	Perf Interval (ft)	38	PBTD	7,955
KOP	N/A	Btm Perf	7,762	TD	7,955	Elevation	2,683

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. (bbl)	Hole Size
Conductor											
Surface	13.375" 54.5# J-55	12.615	12.459	12	298	791	1,911	360	0.1546	44	17.5
Intermediate	9.625" 36# J-55	8.921	8.765	12	2,581	1,414	2,464	276	0.0773	199	12.25
Production	5.5" 17# N-80	4.892	4.767	12	7,955	4,473	5,418	244	0.0232	185	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	7,725	12	7,737	6,480	6,160	72,000	0.0039	30

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	7,650	12	7,662	9,424	8,960	83,440	0.0039	30

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](#)RECEIVED
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E L HASLACKER 2144 (PN: 821444)

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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	4.892	2	7,624	7,622	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	Cement	Cement Perf Isolation	4.892	200	7,622	7,422	Class A	1.28	15.5	20	5.6	24.5	27.5
3	Cement	Prod Csg Shoe Plug	4.892	100	4,600	4,500	Class A	1.28	15.5	20	2.8	12.2	
3	Cement	Prod Csg Shoe Plug (Open Hole)	8.75	100	4,500	4,400	Class A	1.28	15.5	50	11.2	48.9	15.4
4	Cement	Inter Csg Shoe Plug (Open Hole)	8.75	100	2,681	2,581	Class A	1.28	15.5	50	11.2	48.9	
4	Cement	Inter Csg Shoe Plug (Inside Csg)	12.615	100	2,581	2,481	Class A	1.28	15.5	20	18.6	81.4	8.0
5	Cement	Surface Plug	12.615	100	100	0	Class A	1.28	15.5	20	18.6	81.4	0.0

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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	4.892	2,822	7,422	4,600	9	-	10	72.2
2	Gel	Prod Csg Stub Plug to Inter Csg Shoe Plug	8.75	1,719	4,400	2,681	9	-	40	179.0
3	Gel	Inter Csg Shoe Plug to Surface Plug	8.921	2,381	2,481	100	9	-	10	202.5
4										
5										
6										
7										
8										
9										
10										

Estimated Casing Cuts	
String	Est. Cut Depth (ftKB)
Intermediate	
Production	4,500

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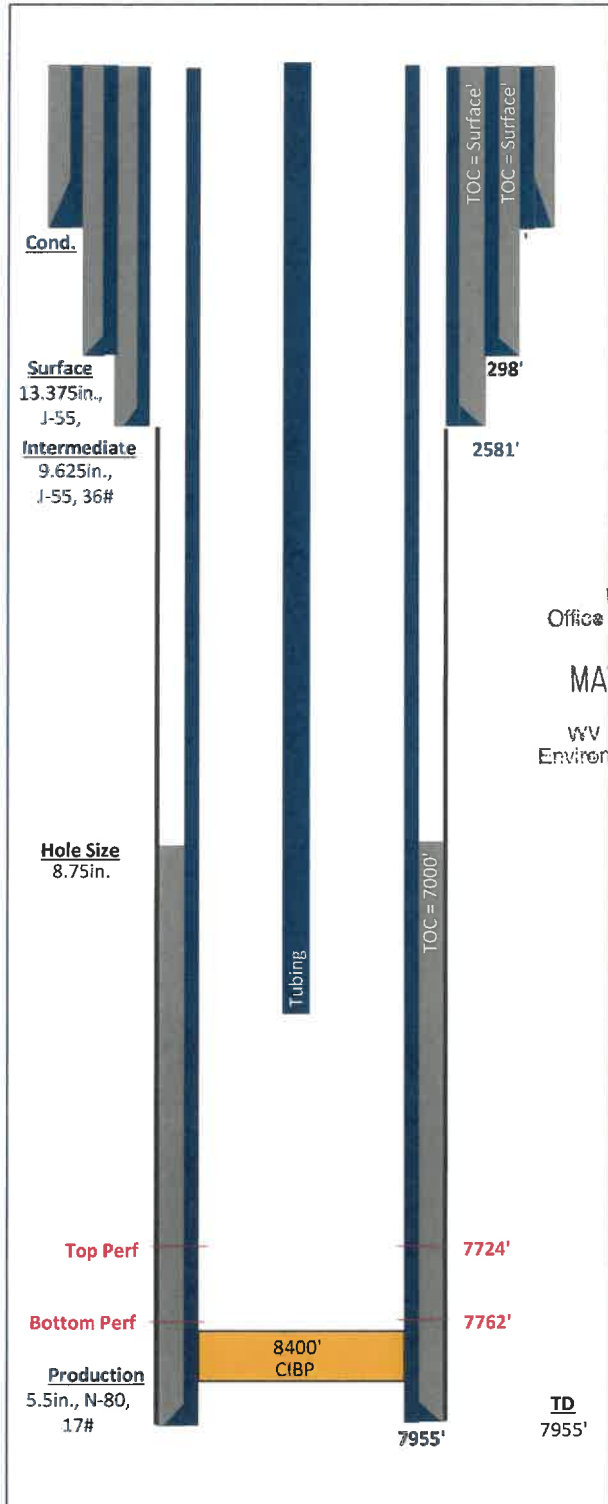
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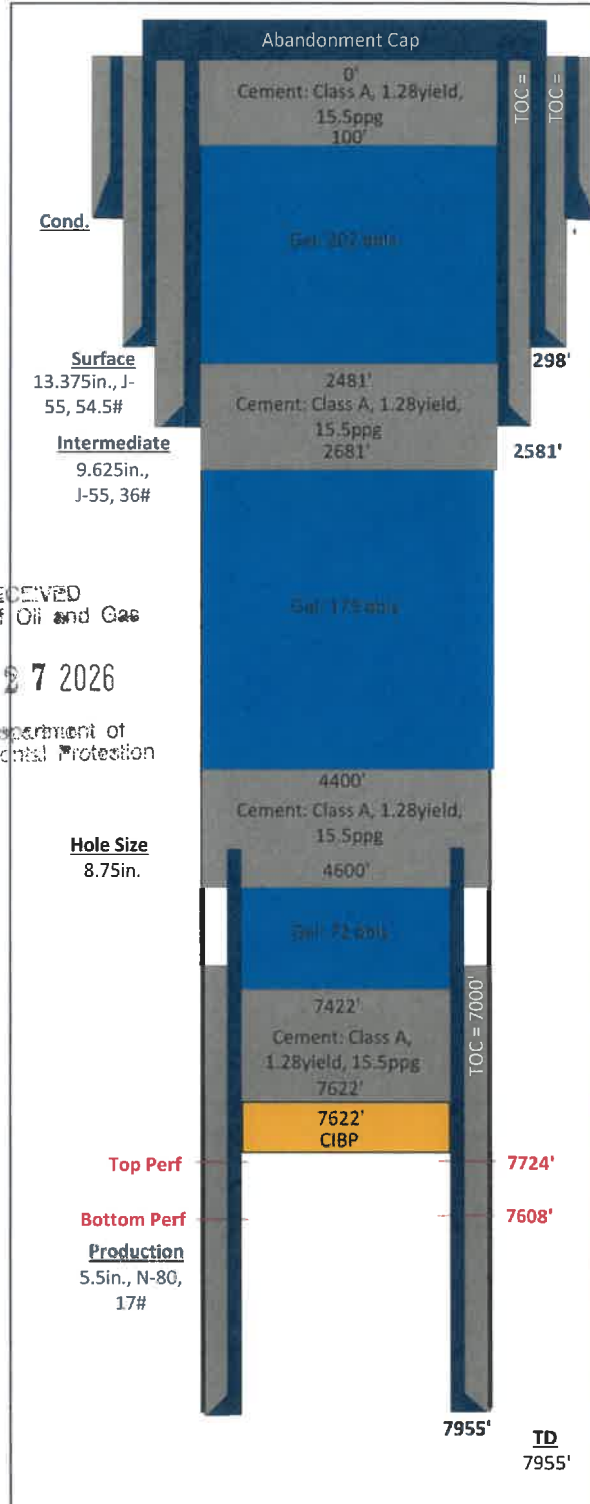
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Current Wellbore Schematic



Proposed Wellbore Schematic



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Schematics are note to scale

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IV-35
(Rev 8-81)

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DEC 10 1986



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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of Mines
Oil and Gas Division

Date December 4, 1986
Operator's
Well No. 1 - 2144
Farm Vernon Haslacker #1
API No. 47 - 023 - 0014
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 / DeepXX / Shallow /)

LOCATION: Elevation: 2115' Watershed North Fork Lunice Creek
District: Union 3 County Grant Quadrangle Blackbird Knob
255

COMPANY Union Drilling, Inc. 050550

ADDRESS P.O. Drawer 40, Buckhannon, WV 26201

DESIGNATED AGENT Joseph C. Pettev

ADDRESS P.O. Drawer 40, Buckhannon, WV 26201

SURFACE OWNER Vernon Haslacker

ADDRESS Rt. 3, Box 152, Maysville, WV 26833

MINERAL RIGHTS OWNER same as surface

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK

Phil Tracy ADDRESS P.O. Box 2536, Elkins, WV 26241

PERMIT ISSUED 4/21/86

DRILLING COMMENCED 6/12/86

DRILLING COMPLETED 8/6/86

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 Cond.	17.00'	17.00'	
13-10"	298.35'	298.35'	271 cf
9 5/8	2581.13'	2581.13'	1006 cf
8 5/8			
7			
5 1/2		7955.29'	681 cf
4 1/2			
3			
2 .375		7788.46'	
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 8300' feet

Depth of completed well 7980' feet Rotary XXX / Cable Tools

Water strata depth: Fresh 245', 330' ^{468', 540'} feet; Salt feet

Coal seam depths: none Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth feet

Gas: Initial open flow 442 Mcf/d Oil: Initial open flow Bbl/d

Final open flow N/A Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure N/A psig (surface measurement) after 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)

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

Halliburton - 1 stage frac - 9/23/86

Oriskany - 7724/7762 - 226,500# sand, 2355 gals water, 5000 gal methanol and 28.5 tons C

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0	335	1 1/2" stream fresh water @245'
Red Sandstone			335	356	1" stream fresh water @330'
Red Rock			356	420	1/2" stream fresh water @468'
Shale			420	562	2 1/2" stream fresh water @540'
Gray Shale			643	650	
Sand & Shale			650	6740	
Harrel Shale			6740	6924	
Tully Limestone			6926	6950	
Chaneyville Limestone			7049	7052	
Upper Marcellus			7346	7370	
Purcell			7372	7440	
Lower Marcellus			7442	7496	
Needmore			7498	7605	
Oriskany			7607	7814	
Helderberg			7816	7918	
				7980' TD	Gas check @TD 110/10ths thru 2" w/v = 442 mcf.

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(Attach separate sheets as necessary)

Union Drilling, Inc.

Well Operator

By:

Joseph C. Petty

Date: Joseph C. Petty, Vice President of Production

12/4/86

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 all, encountered in the drilling of a well."

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WW-4A
Revised 6-07

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1) Date: _____
2) Operator's Well Number
E L Haslacker 2144

3) API Well No.: 47 - 023 - 00014

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name _____	Name _____
Address _____	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
(c) Name _____	Address _____
Address _____	Name _____
Address _____	Address _____
6) Inspector _____	(c) Coal Lessee with Declaration
Address _____	Name _____
Telephone _____	Address _____

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

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

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the 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 Expand Operating LLC
By: _____
Its: _____
Address 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Telephone 304-209-5688

Subscribed and sworn before me this 20 day of May 2026
My Commission Expires 6/23/2029 Notary Public

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.

07/03/2026

4702300014P

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 REBECCA HASLACKER

12 LEE STREET

PETERSBURG WV 26847

REF: HASLACKER PLUGGING PERMIT

INV: (000) 000-0000
PO:

DEPT:

58KJ3/A906/484B



J261026012001uv

TRK# 8720 5219 8353

WED - 27 MAY 5:00P

EXPRESS SAVER

ASR

65 CUMBG

CBEA 26847

WV-US PIT



After printing this label:

CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH

1. Fold the printed page along the horizontal line.

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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4702300014

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SURFACE OWNER WAIVER

4702300014P

Operator's Well
Number

E L Haslacker 2144

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

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

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

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

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

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

_____ Signature	_____ Date	_____ Name By Its	_____ Signature	_____ Date
				07/03/2026

WW-4B

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WV Department of
Environmental Protection

API No. 4702300014 P
Farm Name _____
Well No. E L Haslacker 2144

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.

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: 5/21

By: _____
Its: _____

07/03/2026

WW-9
(5/16)

API Number 47 - 023

Operator's Well No. 00014

4702300014P

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 494494833

Watershed (HUC 10) Lunice Creek Quadrangle Greenland Gap

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 _____)

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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, 2026

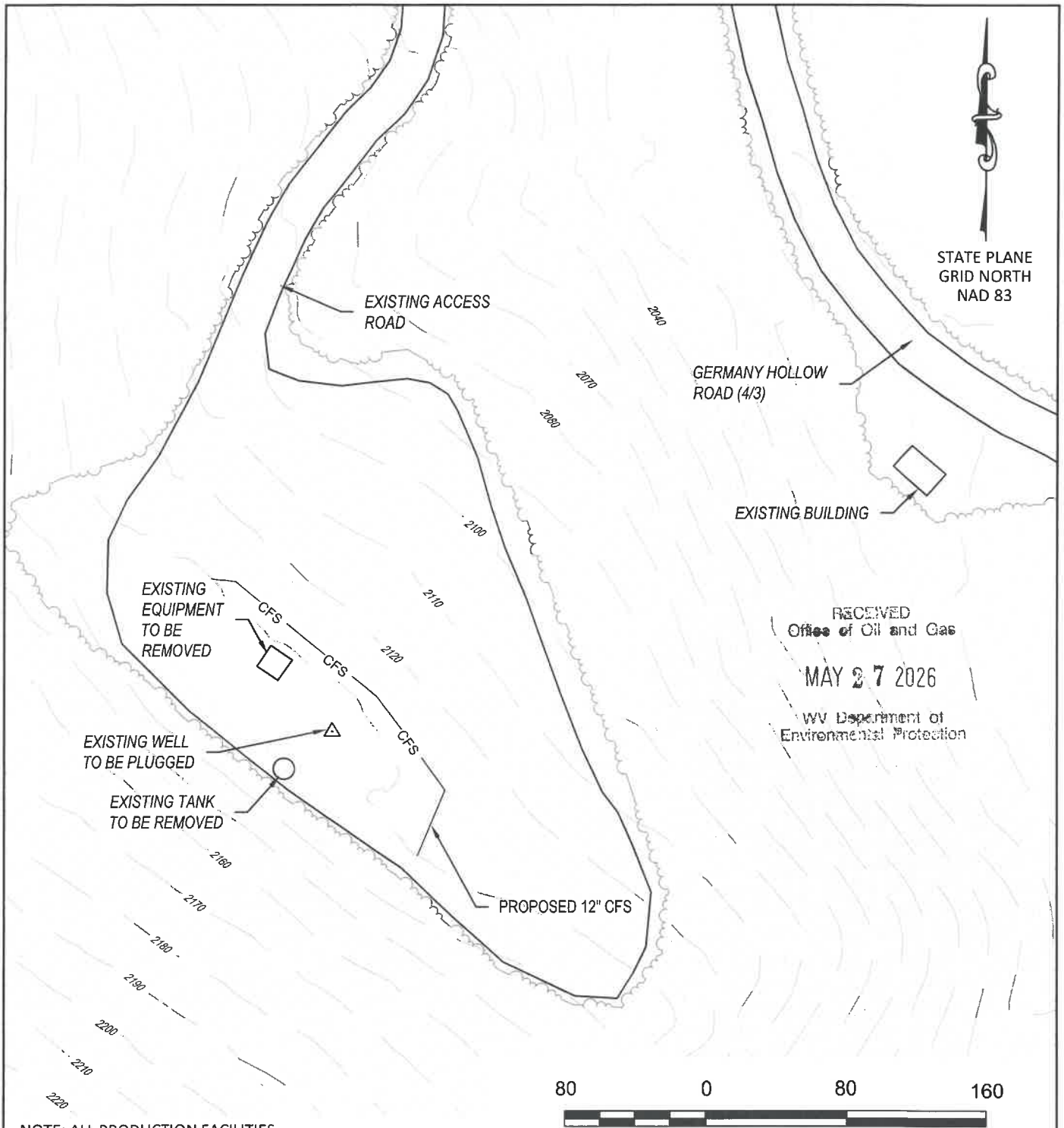
My commission expires 6/23/2029

Notary Public



OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Elizabeth Blankenship
50 Simpson Run Road
Weston, WV 26452
07/03/2026
My Commission Expires June 23, 2029

4702300014P



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



SCALE IN FEET

E L HASLACKER 2144
SITE RECLAMATION
API# 4702300014
FOR
EXPAND OPERATING, LLC
LOCATED IN
GRANT COUNTY, WEST VIRGINIA

SITE PLAN

LEGEND

- EXISTING CONTOUR — 500 —
- 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

FINAL 03/25/2026 1

07/03/2026

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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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 10:48:09 -0400

Comments: _____

Title: Inspector Date: _____Field Reviewed? (X) Yes () No

07/03/2026

4702300014P

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)	REDTOP - 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 HYDROSEEDDED SHALL BE CLEANED OF ALL DEBRIS AND OTHER MATTER HARMFUL TO UNIFORM GERMINATION. A WATER-SURRY MIXTURE COMPOSED OF THE ABOVE "MATERIALS". ITEMS (1) THROUGHT (3) INCLUSIVE, SHALL BE SPRAYED UNIFORMLY OVER THE AREAS TO BE HYDROSEEDDED, 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 RESEDED 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.

07/03/2026

4702300014P

WW-9- GPP
Rev. 5/16

Page 1 of 2
API Number 47 - 023 - 00014
Operator's Well No. E L Haslacker 2144

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

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Operator Name: Expand Operating LLC
Watershed (HUC 10): North Fork of Lunice Creek Quad: Blackbird Knob
Farm Name: E L Haslacker 2144

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.

07/03/2026

4702300014P

WW-9- GPP
Rev. 5/16

Page 2 of 2
API Number 47 - 023 - 00014
Operator's Well No. E L Haslacker 2144

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.

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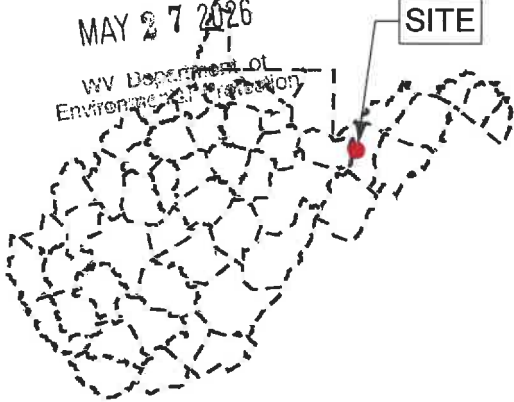
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

Signature: Brittany Woody

Date: 5/22/20

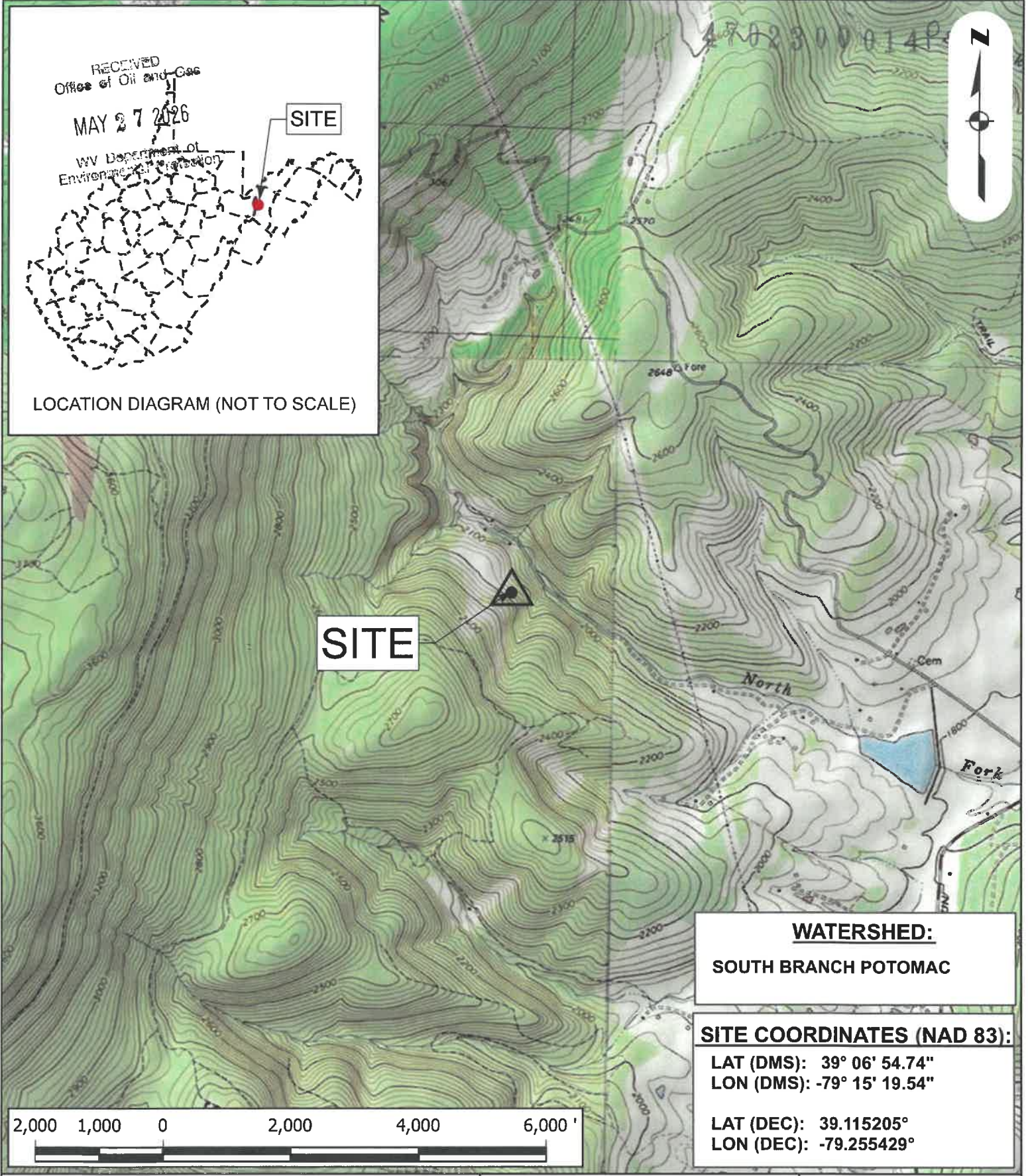
07/03/2026

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MAY 27 2026
WV Department of
Environmental Protection



SITE

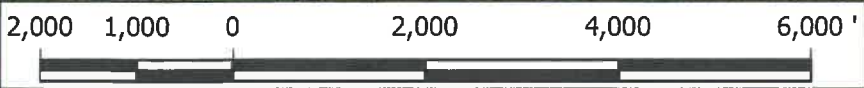
LOCATION DIAGRAM (NOT TO SCALE)



WATERSHED:
SOUTH BRANCH POTOMAC

SITE COORDINATES (NAD 83):
LAT (DMS): 39° 06' 54.74"
LON (DMS): -79° 15' 19.54"

LAT (DEC): 39.115205°
LON (DEC): -79.255429°



USGS LOCATION MAP PREPARED FOR E L HASLACKER 2144 API# 47-023-00014 UNION DISTRICT, GRANT COUNTY, WEST VIRGINIA BLACKBIRD KNOB USGS QUAD	PROJECT -	E L HASLACKER 2144	 SURVEYING & ARCHITECTURAL ENGINEERING ARCHITECTURE 07/03/2026 (843) 202-2767
	DATE -	3/26/2026	
	SCALE -	1" = 2,000'	
	DRAWN -	JCOOK	
	FILE -	2026-0363_USGS_Loc_Map.mxd	



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

API: 47-023-00014 WELL NO.: 2144
FARM NAME: E L Haslacker
RESPONSIBLE PARTY NAME: Expand Operating LLC
COUNTY: Grant DISTRICT: Union
QUADRANGLE: Blackbird Knob
SURFACE OWNER: Rebecca Haslacker
ROYALTY OWNER: David C. Nellis
UTM GPS NORTHING: 4,331,010.01
UTM GPS EASTING: 650,824.99 GPS ELEVATION: 2115'

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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

5/22/2026
Date

07/03/2026

EL Haslacker 2144
4702300014P

11/10/2016

PLUGGING PERMIT CHECKLIST

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Plugging Permit

- ☒ 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

07/03/2026