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, April 27, 2026
WELL WORK PLUGGING PERMIT
Vertical Plugging

WEST VIRGINIA LAND RESOURCES, INC.
46226 NATIONAL ROAD WEST

ST. CLAIRSVILLE, OH 43950

Re: Permit approval for 1
47-049-00297-00-00

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
Acting Chief

Operator's Well Number: 1
Farm Name: CAMPBELL, ROBERT N.
U.S. WELL NUMBER: 47-049-00297-00-00
Vertical Plugging
Date Issued: 4/27/2026

05/01/2026

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. 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.

05/01/2026

WW-4B
Rev. 2/01

1) Date JANUARY 14, 20 26
2) Operator's Well No. 4708
3) API Well No. 47- 049 - 00297

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ____/ Gas X / Liquid injection ____/ Waste disposal ____/
(If "Gas, Production ____ or Underground storage ____) Deep ____/ Shallow____

5) Location: Elevation 1205.14' Watershed PYLES FORK OF BUFFALO CREEK
District MANNINGTON County MARION Quadrangle HUNDRED WV, PA

6) Well Operator WEST VIRGINIA LAND RESOURCES INC.
Address 1 BRIDGE STREET
MONONGAH, WV 26554

7) Designated Agent DAVID RODDY
Address 1 BRIDGE STREET
MONONGAH, WV 26554

8) Oil and Gas Inspector to be notified
Name ROBERT HITT
Address 8934 GOODHOPE PIKE
LOST CREEK, WV 26385

9) Plugging Contractor
Name
Address

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

See Exhibit No. 1 and MSHA 101-C Exemption

Marion County Mine (MSHA ID# 46-01433)

MSHA 101-C Docket No. M-2016-017-C

Approximate Surface Elevation = 1204.14'
Approximate Bottom of Coal = 167.39'
Approximate Depth = 1036.75'

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

Work order approved by inspector Robert J. Hitt Date 3-9-26

05/01/2026

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Rotary ☐ Spudder ☐ Cable Tools ☒ Storage ☐

Quadrangle Mannington
Permit No. MAR-297
Oil or Gas Well (KIND)

Company QUAKER STATE OIL REFINING CORPORATION
Address
Farm Robert Campbell Acres
Location (waters)
Well No. ONE Elev.
District Mannington County Marion
The surface of tract is owned in fee by
Address
Mineral rights are owned by
Address
Drilling commenced
Drilling completed
Date Shot From To
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls. 1st 24 hrs.
WELL ACIDIZED (DETAILS)
WELL FRACTURED (DETAILS)
RESULT AFTER TREATMENT (Initial Open Flow or bbls.)
ROCK PRESSURE AFTER TREATMENT HOURS
Fresh Water Feet Salt Water Feet
Producing Sand Depth

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6⅝			Depth set
5 3/16			
4½			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED SIZE No. Ft. Date
Amount of cement used (bags)
Name of Service Co.
COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand			1860	1924			
Shale & lime shells			1924	2130			
Red rock			2130	2165			
Sand			2165	2172			
Shale			2172	2190			
Lime			2190	2202			
Shale			2202	2212			
Lime			2212	2225			
Shale			2225	2232			
Lime			2232	2290			
Shale & lime			2290	2300			
Big Injun Sand			2300	2478	Gas @ 2310-12 (311 MCF)		show oil & water 2387 - 95
Shale			2478	2602			
Wier Sand			2602	2613			
Shale & lime shells			2613	2828			
Berea Sand			2828	2832			
Shale			2832	2858			
Sand			2858	2872			
Shale			2872	2975			
Sand			2975	2984			
Pink rock			2984	2990			
50 Ft. Sand			2990	3020			
Shale			3020	3043			
30 Ft. Sand			3043	3070			
Shale			3070	3086			
Sand			3086	3118			
Shale			3118	3136			
Gordon Sand			3136	3195			
Shale			3195	3205			
4th Sand			3205	3243			

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Office of Oil and Gas
MAR 13 2026
WV Department of Environmental Protection

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SEP 1969
West Virginia Dept. of Mines

05/01/2026

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED
APR 7 1975
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S PLUGGING REPORT

Permit No. Mar-292-P Well No. 1

COMPANY Massingill & Wilson ADDRESS Box 36, Brownfield, Texas

FARM J.T. McKay DISTRICT Mannington COUNTY Harrison

Filling Material Used

Liner	Location	Amount	Packer	Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

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Office of Oil and Gas
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WV Department of
Environmental Protection

Drillers' Names

Remarks: Pulling Tubing

4/3/75
DATE

I hereby certify I visited the above well on this date.

Paul H. Garrett
DISTRICT WELL INSPECTOR

05/01/2026

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. MAR-297-P Well No. ONE

COMPANY Quaker State Oil Ref. Co. ADDRESS Parkersburg

FARM Robert Campbell DISTRICT Mannington COUNTY Marion

Filling Material Used Cement, Red Clay - Stone

Liner	Location	Amount	Packer	Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	Oil Gas
Red Clay & Stone Set From - 700' to - 548'						
Cement Plug Set From - 548 - 495 Through Coal -						
Red Clay & Stone Set From - 495 - 278' -						
All 10" Casing Pulled - - 278 ft.						
Red Clay & Stone From - 278 to 70' -						
Cement Plug Set From - 70 to 60 ft						
Red Clay & Stone - From - 60 - to 45 ft						
Cement Plug Set From 45 - to 35 - Red Clay to 10 ft						

Drillers' Names Cement to Surface - Market Set -

Wayne - Rawe -

Remarks:

Contractor - Wayne Rawe

RECEIVED
MAR 3 2026
WV Department of Environmental Protection

RECEIVED
NOV 1968
West Virginia Dept. of Mines

Nov. 1, 1968 DATE I hereby certify I visited the above well on this date.

William J. Bloser
DISTRICT WELL INSPECTOR

05/01/2026

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. Mar. 297-P TRUCK LOAD PLUGGING , Well No. ONE

COMPANY Quaker State Oil Ref. Co. ADDRESS Parkersburg

FARM Robert Campbell DISTRICT Marrowington COUNTY Marion

Filling Material Used Cement, Clay, Stone

Liner	Location	Amount	Packer	Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
	Per. Bridge		Set. At 548		Red Clay	
	Cement Plug		Set Through Coal	548	495 - 30 SKS.	

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Drillers' Names Wayne Rawe - Ernest Hadley

Remarks:

Contractor - Wayne Rawe

RECEIVED
OCT 1968
West Virginia
Dept. of Mines

Oct 24, 1968 DATE I hereby certify I visited the above well on this date.

William J Blasius
DISTRICT WELL INSPECTOR

05/01/2026

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. MAR-297-P Well No. ONE

COMPANY Quaker State Oil Ref. Co. ADDRESS Parkersburg

FARM Robert Campbell DISTRICT Mannington COUNTY Marion

Filling Material Used Cement, Clay, Stone

Liner	Location	Amount	Packer	Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
	Pulled 1 Alli - 8" Casing			1522'		
30-SK. Cement	Cement Plug Set From - 1070 - 1012 - Through Coal					
	Red Clay & Stone Set. From - 1012 - to 964'					
30-SKS Cement	Cement Plug Set From - 964 to - 907 Through Coal					

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Drillers' Names Wayne Rawe - Ernest Headley

Remarks:

Contractor - Wayne Rawe -

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OCT 1968
West Virginia
Dept. of Mines

Oct. 23, 1968 DATE I hereby certify I visited the above well on this date.

William J Blosser
DISTRICT WELL INSPECTOR

05/01/2026

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. Mar-297-P TOMKER [illegible] Well No. ONE

COMPANY Quaker State Oil Ref. Co. ADDRESS Parkersburg

FARM Robert Campbell DISTRICT Mannington COUNTY Marion

Filling Material Used Cement, Clay, Stone

Liner	Location	Amount	Packer	Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
	Total Dept - 3250' -					
Previously Plugged back to - 2325'						
	Lead Plug Set at - 2274'					
Pulled all 7" Casing				2249'		
Red. Clay & Stone Set From - 2249 to -				2219 - 2-SKS. Cement		
Red. Clay & Stone - Bridge - From - 1850 to - 1790' - 25 SKS. Cement -						
Red. Clay & Stone - Bridge - From - 1602 - Cement - 40 SKS. Cement						
Red. Clay & Stone From - 1572 - to - 1522 -						
Red. Clay & Stone			1522 - to - 1070 -			

Drillers' Names Wayne Rowe, Ernest Hadley -

Remarks:

Contractor - Wayne Rowe -

Oct. 24, 1968
DATE

I hereby certify I visited the above well on this date.

William J. Blower
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. MAR-297-P Well No. 2

COMPANY Quaker State Oil Ref. Co. ADDRESS Parkersburg

FARM Robert Campbell DISTRICT Mannington COUNTY Marion

Filling Material Used Cement, Clay, Stone

Liner	Location	Amount	Packer	Location

PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST
	Pulling 7" Casing						

Drillers' Names D. Flaherty — W. Rowe

Remarks:

Contractor - Wayne-Rowe

OCT 1968
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West Virginia
Dept. of Mines

Oct 18, 1968 I hereby certify I visited the above well on this date.
DATE

William J. Closson
DISTRICT WELL INSPECTOR

05/01/2026

OG-11

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

RECEIVED
Office of Oil and Gas
MAR 13 2026
WV Department of
Environmental Protection

INSPECTOR'S WELL REPORT

Permit No. MAR-299

Oil or Gas Well (KIND)

Company QUAKER STATE OIL REF. CO
Address PARKERSBURG
Farm Robert Campbell
Well No. ONE
District MANNINGTON County MARION
Drilling commenced
Drilling completed Total depth 2750'
DRILLERS - T.D. - LOG - 2749'
Date shot Plugged back to - 2325'
Depth of shot PACKER SET AT - 2294'
Initial open flow /10ths Water in Inch
Open flow after tubing /10ths Merc. in Inch
Volume Cu. Ft.
Rock pressure lbs hrs.
Oil bbls., 1st 24 hrs.
Fresh water 45'-76' feet feet
Salt water 1810-1820' feet feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16 18' - 19'			Kind of Packer
13			
10	228'		Size of
8¼	1522'		
6¼ 7' -	2249'		Depth set
5 3/16			
3 3½ -	2294'		Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED SIZE No. FT. Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT 515-518' - 664-669' - 927-934' - 1032-1040
1350-1386' - 1495-1520'
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

Drillers' Names

Remarks:

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SEP 1968
West Virginia
Dept. of Mines

Sept 26, 1968
DATE

William J Glover
DISTRICT WELL INSPECTOR

05/01/2026

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S WELL REPORT

Permit No. MAR-297-P.P. Oil or Gas Well (KIND)

Company QUAKER STATE O. & G. CO.

Address PARKERSBURG, W.VA.

Farm ROBERT CAMPBELL Acres

Well No. 1 Elevation

District MORRISTOWN County MARION

Drilling commenced

Drilling completed Total depth

Date shot Depth of shot

Initial open flow /10ths Water in Inch

Open flow after tubing /10ths Merc. in Inch

Volume Cu. Ft.

Rock pressure lbs. hrs.

Oil bbls., 1st 24 hrs.

Fresh water feet feet

Salt water feet feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6¼			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED SIZE No. FT. Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT FEET INCHES

FEET INCHES FEET INCHES

FEET INCHES FEET INCHES

Drillers' Names

CONT. ARMC BROS. DRILLING CO.

Remarks:

SPENT THE DAY WITNESSING FRAC. JOB ON THIS WEL

9-19-68
DATE

DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES.

OIL AND GAS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. MRR-298-P.P. Well No.

COMPANY Quaker State Oil Refg. Corp. ADDRESS Parkersburg, W.Va.

FARM Robert Campbell DISTRICT Mannington COUNTY Marion

Filling Material Used Cement, clay, stone

Liner	Location	Amount	Packer	Location
None			None	

PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST
3240 - 3245							
2470 - 2475							
2340 - 2330	(CAL SEAL)						

Drillers' Names Wayne Rose, Ernest Hendley

Remarks:

Completed. Ran Cal Seal today

9-11-68 I hereby certify I visited the above well on this date.

DATE

DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS DIVISION

INSPECTOR'S PLUGGING REPORT

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Office of Oil and Gas
MAR 13 2026
WV Department of
Environmental Protection

Permit No. MAR-297-P.P. Well No. 1

COMPANY Fairmont State C. Reg. Coop. ADDRESS Parkersburg, W.Va.

FARM Robert Campbell DISTRICT Marion COUNTY Marion

Filling Material Used Cement, Clay, Stone

Liner	Location	Amount	Packer	Location
None			None	

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
3240 - 3225						
2470 - 2465						

Drillers' Names Wayne Brue, Earnest Headley

Remarks: Filling with clay to 2340'

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West Virginia
Dept. of Mines

9-10-68
DATE

I hereby certify I visited the above well on this date.

DISTRICT WELL INSPECTOR

05/01/2026

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. MAR-227-P.P.

COMPANY Quaker State Oil Ref. Corp. ADDRESS Parkersburg, W.Va.

FARM Robert Campbell DISTRICT Kennington COUNTY Marion

Filling Material Used Cement, clay, stone

Liner	Location	Amount	Packer	Location
None			None	

PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST
3240-3225							
2470-2425							

Drillers' Names Wayne Rose, Ernest Hershey

Remarks: Filled with clay to 2400

9-9-68
DATE

I hereby certify I visited the above well on this date.

Arthur Null
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS DIVISION

INSPECTOR'S PLUGGING REPORT

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MAR 13 2026
WV Department of
Environmental Protection

Permit No. MAR-297-P.P.

Well No.

COMPANY Quaker State O. & G. Corp. ADDRESS Parkersburg, W.Va.

FARM Robert Campbell DISTRICT Mannington COUNTY Marion

Filling Material Used Cement, Clay, Stone.

Liner Location	Amount	Packer	Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names Wayne Rhue, Earnest Hendley

Remarks: Bush after bush moved down hole from 3250' to 3450', finally filled up to 3300'. By quitting time. First cement will be 3245'-3225'.

SEP 1968
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West Virginia
Dept. of Mines

9-6-68
DATE

I hereby certify I visited the above well on this date.

DISTRICT WELL INSPECTOR

05/01/2026

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED
Office of Oil and Gas
MAR 13 2026
WV Department of
Environmental Protection

INSPECTOR'S WELL REPORT

Permit No. MAR-297 — Oil or Gas Well (KIND)

Company Quaker State Oil Ref Co
Address Parkersburg
Farm Robert Campbell
Well No. ONE
District Mannington County Marion
Drilling commenced
Drilling completed Total depth 3750'
Date shot Depth of shot Drilling Completed
Initial open flow /10ths Water in Inch
Open flow after tubing /10ths Merc. in Inch
Volume Cu. Ft.
Rock pressure lbs hrs.
Oil bbls., 1st 24 hrs.
Fresh water feet
Salt water feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6¾			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED SIZE No. FT. Date

NAME OF SERVICE COMPANY

515-518'-664-669'-927-934' to 32-1040'
COAL WAS ENCOUNTERED AT FEET INCHES
1380-1386'-1495-1520'
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

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SEP 1968
West Virginia
Dept. of Mines

Drillers' Names

Remarks:

Contractor - Quaker State, H. H. Eidet & Sons

September 19, 1968
DATE

William J. Blower
DISTRICT WELL INSPECTOR

05/01/2026

OG-11

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

RECEIVED
Office of Oil and Gas
MAR 13 2026
WV Department of
Environmental Protection

INSPECTOR'S WELL REPORT

Permit No. Mar-297

Oil or Gas Well (KIND)

Company Quaker State Oil Ref. Co.
Address Parkersburg
Farm Robert Campbell
Well No. ONE
District Mannington County Marion
Drilling commenced
Drilling completed Total depth 3219'
Date shot Depth of shot
Initial open flow /10ths Water in Inch
Open flow after tubing /10ths Merc. in Inch
Volume Cu. Ft.
Rock pressure lbs. hrs.
Oil bbls., 1st 24 hrs.
Fresh water feet feet
Salt water feet feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13 18"	19'		
10	278'		Size of
8¼	1522'		
6¼ 7"	2249'		Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED SIZE No. FT. Date
NAME OF SERVICE COMPANY
COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

Drillers' Names

Remarks:

Contractor - Rowe - Drilling

August 8, 1968
DATE

RECEIVED
AUG 1968
West Virginia
Dept. of Mines

INSPECTOR

05/01/2026

OG-11-

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

RECEIVED
Office of Oil and Gas
MAR 13 2026
WV Department of
Environmental Protection

INSPECTOR'S WELL REPORT

Permit No. MAR-297 — Oil or Gas Well (KIND)

Company Quaker State Oil Ref Co
Address Parkersburg
Farm Robert Campbell
Well No. ONE
District Mannington County Marion
Drilling commenced
Drilling completed — Total depth 2835'
Date shot — Depth of shot
Initial open flow — /10ths Water in — Inch
Open flow after tubing — /10ths Merc. in — Inch
Volume — Cu. Ft.
Rock pressure — lbs. — hrs.
Oil — bbls., 1st 24 hrs.
Fresh water 45'-76' feet — feet
Salt water 1810-1820' feet — feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16	18'-	19 ft.	Kind of Packer
13			
10	228'		Size of
8¼	1522'		
6¼	7'-	2249'	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED — SIZE — No. FT. — Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT 515-518'- 664-669'- Pittsburg 1032-1040'
Upper Freeport - 1380-1386' FEET INCHES — Lower Freeport 1475-1520' FEET INCHES
Mapletown - 927-934' FEET INCHES — FEET INCHES

Drillers' Names

Remarks:

Contractor - Rowe Drilling Co.

July 29, 1968
DATE

RECEIVED
AUG 1968
West Virginia
DISTRICT

05/01/2026

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S WELL REPORT

Permit No. Mar-992

Oil or Gas Well (KIND)

Company Parker State Oil Dev. Co.

Address Parkersburg,

Farm Robert Campbell

Well No. ONE

District Mannington County Marion

Drilling commenced

Drilling completed Total depth 2605'

Date shot Depth of shot

Initial open flow /10ths Water in Inch

Open flow after tubing /10ths Merc. in Inch

Volume Cu. Ft.

Rock pressure lbs. hrs.

Oil bbls., 1st 24 hrs.

Fresh water 45' 26' feet feet

Salt water 1810' - 1820' feet feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16	19'		Kind of Packer
13			
10	228'		Size of
8¼	1522'		
6¾	2249'		Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED SIZE No. FT. Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT 515-518'-664-669'-927-934'-1032-1040' FEET INCHES (1569-1572)

FEET INCHES FEET INCHES

FEET INCHES FEET INCHES

Drillers' Names

Remarks:

Contractor - Rowe Drilling

July 23, 1968
date

William [illegible]
(TITLE)

OG-11

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

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INSPECTOR'S WELL REPORT

Permit No. MAR-297 — Oil or Gas Well (KIND)

Company Baker-State Oil Co.
Address Parkersburg
Farm Robert Campbell
Well No. ONE
District Pennington County Marion
Drilling commenced
Drilling completed Total depth 2382
COMPLETED
Date shot Depth of shot
Initial open flow /10ths Water in Inch
Open flow after tubing /10ths Merc. in Inch
Volume Cu. Ft.
Rock pressure lbs. hrs.
Oil bbls., 1st 24 hrs.
Fresh water feet feet
Salt water feet feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10	278'		Size of
8¼	1622'		
6¾ 7"	2248'		Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED SIZE No. FT. Date
NAME OF SERVICE COMPANY
COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

Drillers' Names

Remarks:

CONTRACTOR - RAWE DRILLING

July 19, 1968
DATE

William [illegible]
DISTRICT WELL INSPECTOR

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STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS DIVISION

INSPECTOR'S WELL REPORT

Permit No. MOL-297 — Oil or Gas Well (KIND)

Company Quaker State Oil Refg Co

Address Parkersburg, W. Va.

Farm Robert Campbell — Acres

Well No. One — Elevation

District Marion County Marion

Drilling commenced

Drilling completed — Total depth 2232'

Date shot — Depth of shot

Initial open flow — /10ths Water in — Inch

Open flow after tubing — /10ths Merc. in — Inch

Volume — Cu. Ft.

Rock pressure — lbs. — hrs.

Oil — bbls. 1st 24 hrs.

Fresh water — feet — feet

Salt water — feet — feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10	278'		Size of
8¼	1522'		
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED — SIZE — No. FT. — Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT — FEET — INCHES

FEET — INCHES — FEET — INCHES

FEET — INCHES — FEET — INCHES

Drillers' Names

Remarks:

Contractor Rowe Drilling

July 10 1968
DATE

William J. Bloom
DISTRICT WELL INSPECTOR

OG-11

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
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INSPECTOR'S WELL REPORT

Permit No. MAI-292

Oil or Gas Well (KIND)

Company Parker Sprouse Oil Ref. Co.
Address Falkenburg, W. Va.
Farm Robert Campbell
Well No. O.W.F.
District Magnolia County Marion
Drilling commenced
Drilling completed Total depth 1800'
Date shot Depth of shot
Initial open flow /10ths Water in Inch
Open flow after tubing /10ths Merc. in Inch
Volume Cu. Ft.
Rock pressure lbs. hrs.
Oil bbls., 1st 24 hrs.
Fresh water 45'-1" 70-76' feet feet
Salt water feet feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10	278'		Size of
8¼	7522'		
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED SIZE No. FT. Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT 495 Show - 515-518' Shale Coal - 664-669'
Coal 917-934' - 1032-1040 - 1567-1572'
FEET INCHES FEET INCHES
Show - 1400'
FEET INCHES FEET INCHES

Drillers' Names Wayne Rowe - Lloyd - Hulit

Remarks:

Contractor - Rowe Drilling

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July 3, 1962
DATE

William J. Bloss
DISTRICT WELL INSPECTOR

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STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS DIVISION

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INSPECTOR'S WELL REPORT

Permit No. Mar-197

Oil or Gas Well (KIND)

Company Tucker State Oil Ref. Co.

Address Parkersburg

Farm Robert Campbell Et Al

Well No. ONE

District Mannington County Marion

Drilling commenced

Drilling completed Total depth 790'

Date shot Depth of shot

Initial open flow /10ths Water in Inch

Open flow after tubing /10ths Merc. in Inch

Volume Cu. Ft.

Rock pressure lbs. hrs.

Oil bbls., 1st 24 hrs.

Fresh water 45'-76' feet feet

Salt water feet feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10	228'		Size of
8¼			
6¾			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED SIZE No. FT. Date

NAME OF SERVICE COMPANY Cpld Slate

COAL WAS ENCOUNTERED AT Coal 2 515-518' FEET INCHES — Show 664-669'

FEET INCHES Show 275 FEET INCHES

FEET INCHES FEET INCHES

Drillers' Names Lloyd Hull - Wayne - Rowe

Remarks:

Contractor - Rowe Drilling

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June 19, 1961
DATE

William H. Blevins
DISTRICT WELL INSPECTOR

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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red rock			382	386			
Lime			386	3596			
Shale			396	405			
Lime			405	411			
Shale & Lime shells			411	435			
Red rock & shale			435	450			
Lime			450	470			
Slate			470	475			
Lime			475	490			
Shale			490	500			
Lime			500	508			
Shale			508	515			
Coal			515	518			
Lime shells			518	522			
Shale			522	553			
Lime			553	561			
Shale			561	575			
Lime			575	624			
Shale			624	636			
Sand			636	664			
Shale & coal			664	669			
Slate & shells			669	690			
Sand			690	728			
Shale			728	750			
Shale & lime shells			750	780			
Lime			780	808			
Shale & Lime shells			808	830			
Lime			830	927			
Coal			927	934			
Shale			934	940			
Lime			940	955			
Shale			955	968			
Lime			968	998			
Shale			998	1005			
Lime			1005	1032			
Pgh. Coal			1032	1040			
Shale			1040	1046			
Lime			1046	1052			
Shale			1052	1065			
Lime			1065	1078			
Shale			1078	1095			
Red rock			1095	1104			
Lime			1104	1140			
Sand			1140	1163			
Shale			1163	1175			
Lime			1175	1182			
Red rock			1182	1205			
Lime			1205	1209			
Shale			1209	1227			
Lime			1227	1265			
Shale			1265	1305			
Lime			1305	1311			
Red rock			1311	1380			
Lime			1380	1386			
Shale			1386	1420	Show coal @ 1400'		
Lime			1420	1460			
Shale			1460	1486			
Lime			1486	1490	Show coal @ 1490'		
Shale			1490	1520			
Sand			1520	1568			
Coal			1568	1572			
Shale & lime			1572	1660			
Sands			1660	1690	Show of oil @ 1675-84'		
Shale			1690	1786			
Sand			1786	1820	Salt water @ 1810-20' (½ bailer/hr.)		
Shale			1820	1850			
Sand & shale			1850	1860			

Date September 3, 1968

APPROVED Quaker State Oil Refining Corporation Owner

By Thomas H. Richards

(Title)

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Rotary ☐ Spudder ☐ Cable Tools ☒ Storage ☐

Quadrangle Mannington
Permit No. MAR-297
Oil or Gas Well Gas

Company QUAKER STATE OIL REFINING CORPORATION
Address P. O. Box 1327, Parkersburg, W. Va.
Farm Robert Campbell Acres 110.5
Location (waters) Branch of Pyles Fork
Well No. One Elev. 1202.6
District Mannington County Marion
The surface of tract is owned in fee by
Address
Mineral rights are owned by Robert Campbell
Address Burton, W. Va.
Drilling commenced 6-6-68
Drilling completed 8-16-68
Date Shot From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Cu. Ft.
Rock Pressure lbs.
Oil bbls. 1st 24 hrs.
WELL ACIDIZED (DETAILS)
WELL FRACTURED (DETAILS)
RESULT AFTER TREATMENT (Initial Open Flow or bbls.)
ROCK PRESSURE AFTER TREATMENT HOURS
Fresh Water 45' & 70' Feet Salt Water 1810-20 & 2387-95 Feet
Producing Sand Depth

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
20 18"	19		Kind of Packer
13			
10	278		Size of
8¼	1522		
6⅝	2249		Depth set
5 3/16			
4½			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED SIZE No. Ft. Date
Amount of cement used (bags)
Name of Service Co.
COAL WAS ENCOUNTERED AT 275 FEET show INCHES
515 FEET 36" INCHES 664 FEET 60" INCHES
927 FEET 84" INCHES 1032 FEET 96" INCHES
1400 feet show inches 1490 feet show inches
1568 feet 48 inches

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	16			
Stone			16	22	19		
Red rock			22	30			
Shale			30	50	Water @ 45'		
Lime			50	62			
Red rock			62	70	Hole full of water @ 70'		
Shale			70	76			
Red rock			76	80			
Shale			80	88			
Lime			88	94			
Red rock			94	100			
Shale			100	112			
Lime			112	118			
Shale			118	135			
Lime			135	145			
Shale			145	165			
Red rock			165	173			
Shale			173	195			
Lime			195	204			
Shale			204	224			
Lime			224	232			
Shale			232	245			
Lime			245	251			
Shale			251	275	Show of coal @ 275'		
Lime			275	280			
Shale & Lime shells			280	308			
Lime & shale			308	325			
[redacted] shells			325	340			
[redacted]			340	372			
Slate			372	382			

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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shale			3243	3260			
5th Sand			3260	3284	Gas 3270 - 74		
Shale			3284	3305			
Sand			3305	3316			
Shale			3316	3404	Gas 3402		
Sand			3404	3408			
Shale			3408	3750			
TOTAL DEPTH				3750			

LOGGED BY SCHLUMBERGER 8-19-68:
Gamma Ray
Density
Induction
Temperature

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Environmental Protection

Date September 3, 19 68

Approved Owner State Oil Refining Corporation

By [signature]
(Title)

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West Virginia
Geological & Economic Survey
"Geology underlies it all."

Oil & Gas Well Header Data Search

API #: 4704900297		Well Type:	
County:		Total Vertical Depth TVD(ft) >=	
7.5 Minute Quad		Completion Year =	
Type of Log:		Operator at Completion (contains)	minimum 3 characters if searching
Scanned Log Bottom (ft) >=		Last Producing Operator (contains)	minimum 3 characters if searching
has Scanned Log(s): ☐		Surface Owner (contains)	minimum 3 characters if searching
has Digitized Log(s): ☐		Field Name (contains)	minimum 3 characters if searching
has Sample Desc Scan: ☐		Company Number (contains)	minimum 3 characters if searching
has Slabbed Core Photo(s): ☐		Mineral Owner (contains)	
Horizontal/Deviated Well: ☐			
Results/Page 100		Please enter or select criteria to perform database search. The application uses an "and" operator between search fields. Searches will not be performed if the required field criteria is not met. Error messages are indicated in RED	
Order By: API			
Search Reset			

1 Records Found, showing page 1 of 1 at 100 records per page

API #	Pipeline	Map	ELog	DLog	Scans	County	DD Long	DD Lat	UTME	UTMN	7.5 Quad	Tax District	Scanned Logs	Log Btm	Suffix	Status	Comp Year	Well Type	Operator at Completion	Last Producing Operator	Surface Owner	Well #	Comp #	Mineral Owner	Unit/Lease Name
4704900297	All Data	View	Elog		Scans	Marion	-80.414792	39.833099	550219.7	4387199.7	Hundred	Mannington	D,I,G,T,C	3748	Original Location	Completed	1968	Gas	Quaker State Oil Refining Co.		Robert N Campbell	1			

WVGES "Pipeline"

Select County: (049) Marion Select datatypes: (Check All)
Enter Permit #: 297
Get Data | Reset
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" Help

WV Geological & Economic Survey

Well: County = 049 Permit = 297 Link to all digital records for well

Report Time: Monday, January 12, 2026 1:15:11 PM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
49	304	49	297

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4704900297	Marion	297	Mannington	Hundred	Mannington	39.633099	-80.414792	550219.7	4387199.7

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
4704900297	10/-/1968	Original Loc	Completed	Robert N Campbell	1					Quaker State Oil Refining Co.			

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_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT	BH
4704900297	10/-/1968	-/-/	1202	Ground Level	Pyles Fork	Bayard	Bayard	Development Well	Development Well	Gas	Cable Tool	Shot	3750	3750		0	50	0	0				0	0	0	0	

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
4704900297	10/-/1968	Water	Fresh Water	Vertical			45						C
4704900297	10/-/1968	Water	Fresh Water	Vertical			70						C
4704900297	10/-/1968	Water	Salt Water	Vertical			1810						C
4704900297	10/-/1968	Pay	Gas	Vertical	2310	Big Injun (undiff)	2332	Big Injun (undiff)	0	0			
4704900297	10/-/1968	Water	Salt Water	Vertical			2387						C
4704900297	10/-/1968	Pay	Gas	Vertical	3270	Fifth	3274	Fifth	0	0			
4704900297	10/-/1968	Pay	Gas	Vertical			3402	Bayard	0	0			

There is no Production Gas data for this well

There is no Production Oil data for this well ** some operators may have reported NGL under Oil

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4704900297	Original Loc	unidentified coal	Well Record	275	Reasonable	0	Reasonable	1203	Ground Level
4704900297	Original Loc	unidentified coal	Well Record	515	Reasonable	3	Reasonable	1203	Ground Level
4704900297	Original Loc	unidentified coal	Well Record	664	Reasonable	5	Reasonable	1203	Ground Level
4704900297	Original Loc	Sewickley coal	Well Record	927	Reasonable	7	Reasonable	1203	Ground Level
4704900297	Original Loc	Pittsburgh coal	Well Record	1032	Reasonable	8	Reasonable	1203	Ground Level
4704900297	Original Loc	unidentified coal	Well Record	1400	Reasonable	0	Reasonable	1203	Ground Level
4704900297	Original Loc	unidentified coal	Well Record	1480	Reasonable	0	Reasonable	1203	Ground Level
4704900297	Original Loc	Allegheny coal (udf)	CBM: Drillers Pick	1568	Reasonable	4	Reasonable	1203	Ground Level
4704900297	Original Loc	Big Lime	Well Record	2232	Reasonable	58	Reasonable	1203	Ground Level

Wireline (E-Log) Information:
* Scanned/Raster Log Information:

API	STATUS	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCHS	REDUCED	KOP	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FR
4704900297	Regular Entry	80	3748		D,I,G,T,C	Y	80	3734	2196	3748			2238	3742	2170	3748			2195	3748	Y	Y	N					

Scanned/Raster Comment: *logs: caliper; obtained lg scl GR,D,I,T in 1995

* 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.

Scanned/Raster Logs

FILENAME
4704900297dec.tif
4704900297i.tif
4704900297t.tif

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 other[1]
- s sonic or velocity
- t temperature (includes borehole temperature BHT, differential temperature, etc.)
- z spontaneous potential or potential

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EXHIBIT NO 1

From the experience and technology developed since 1970 in plugging oil and gas wells for mining through, Consolidation Coal Northern West Virginia Operations will utilize the following method to plug all future wells

SOLID PLUG METHOD

(a) If active well: clean out to total depth and set solid cement plug from TD back to minimum of 200 feet below lowest minable coal seam

(b) If abandoned well: Entire wellbore will be loaded with Gel and will clean out to at least 200 feet below lowest minable coal seam.

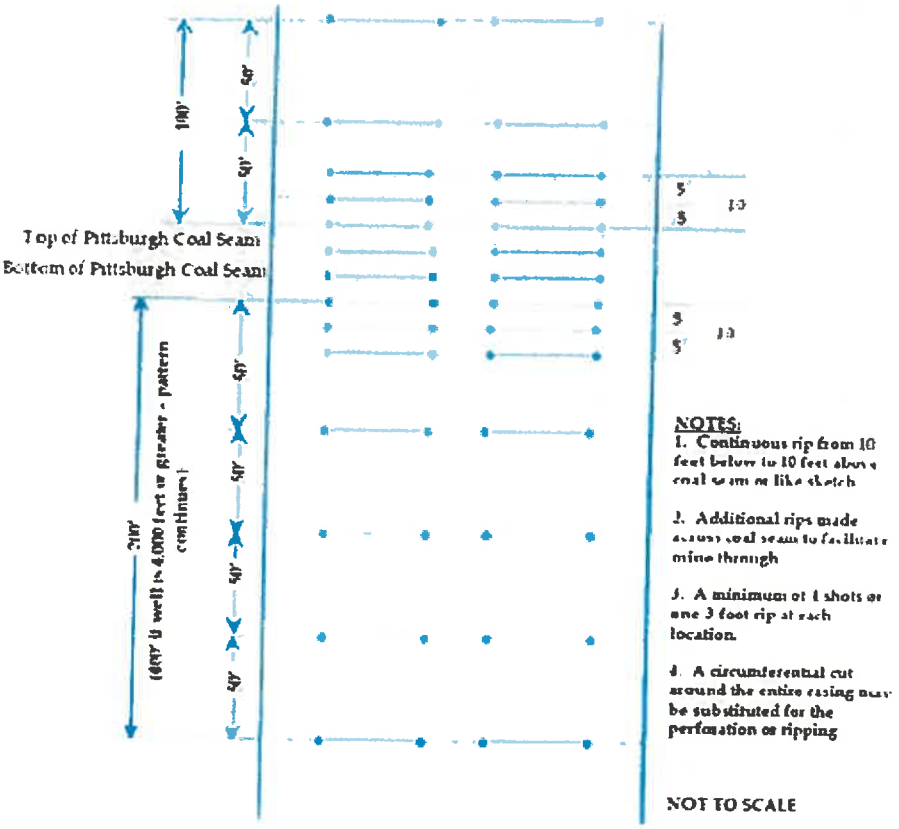
(c) A diligent attempt will be made by pulling 150% of the calculated string weight to remove casing

(d) If all diligent attempts fail, the casing will be cut, ripped or perforated according to Appendix A below

(c) Circulate through tubing or drill steel an expanding Class A cement plug from a minimum of 200 feet below lowest minable coal seam to 100' above coal seam.

(d) Tag previous cement plug, cement from 100' above coal seam to surface.

Appendix A



In the matter of:
The Marion County Coal Company
Marion County Mine
I.D. No. 46-01433

Petition for modification

MSHA 101 C EXEMPTION

Docket No. M-2016-017-C

DECISION AND ORDER

On May 31, 2016, a petition was filed seeking a modification of the application of 30 C.F.R. § 75.1700 to The Marion County Coal Company's Marion County Mine located in Marion County, West Virginia. The Petitioner filed the petition to permit an alternative method of compliance with the standard with respect to vertical to horizontal oil and gas wells into the underground coal seams. The petitioner request to amend their current Proposed Decision Order (PDO) grant by MSHA on June 4, 1991, under Docket M-1990-156-C formerly known as Consolidation Coal Company, Loveridge No. 22 Mine to the alternate method stipulated in the April 29, 2013 PDO granted to ACI Tygart Valley, Leer Mine.

The Petitioner alleges that the proposed alternative method will at all times guarantee no less than the same measure of protection afforded miners under 30 C.F.R. § 75.1700 as that provided by the standard, which states:

> **§ 75.1700 Oil and gas wells.**
> Each operator of a coal mine shall take reasonable measures to locate oil and gas wells penetrating coalbeds or any underground area of a coal mine. When located, such operator shall establish and maintain barriers around such oil and gas wells in accordance with State laws and regulations, except that such barriers shall not be less than 300 feet in diameter, unless the Secretary or his authorized representative permits a lesser barrier consistent with the applicable State laws and regulations where such lesser barrier will be adequate to protect against hazards from such wells to the miners in such mine, or unless the Secretary or his authorized representative requires a greater barrier where the depth of the mine, other geologic conditions, or other factors warrant such a greater barrier.

The Petition addresses items for which District Manager approval is required, procedures for cleaning out and preparing oil and gas wells prior to plugging or re-plugging, procedures for plugging or re-plugging oil or gas wells to the surface, procedures for plugging or re-plugging oil or gas wells for use as degasification boreholes, alternative procedures for preparing and plugging or re-plugging oil or gas wells, and procedures after approval has been granted to mine through a plugged or re-plugged well.

Between July 20, 2016 and August 3, 2016, MSHA personnel conducted an investigation of the petition and filed a report of their findings with the Administrator for Coal Mine Safety and Health. The modification granted under Docket No. M-1990-156-C will be superseded and replaced by this amended modification granted under Docket No. M-2016-017-C after this Proposed Amended Decision and Order becomes final.

The mine is represented by United Mine Workers of America (UMWA), AFL-CIO, CLC-1638 with miners' representatives and did not file any questions or comments on behalf of the miners.

After review of the parties' submissions and Joint Motion for Settlement, the following Decision and Order is issued.

FINDINGS OF FACT AND CONCLUSIONS OF LAW

The Marion County Mine employs approximately 712 miners and produces approximately 50,000 tons of bituminous coal per day from the Pittsburgh #8 coal seam with an average mine height of 66 inches. At this time, there are no coal seams being mined below (i.e., stratigraphically down section from) the Pittsburgh seam. The mine is accessed through 2 slope and 12 air shafts. The mine operates 3 production shifts per day, 5 days per week, on five working sections, two longwall and three advancing gate sections utilizing continuous mining machines. The mine liberates 11,659,131 cubic feet of methane on a daily basis.

Although MSHA has granted modifications of this standard at different mines over the years, changing circumstances in oil and gas drilling technology and practices compels MSHA to reconsider the safest approach to mining around or through such wells. In recent years, changes in hydraulic fracturing (fracking) technology, marketplace and resource conditions have led to an increase in the number and depth of oil and gas wells penetrating the Pittsburgh #8 and other coal seams. Since deeper wells are usually associated with higher well pressures, modifications of § 75.1700 must include appropriate measures to better protect miners. In addition to the risks associated with higher well pressures, MSHA is concerned that operators may be preparing and plugging wells to inadequate depths for convenience or to lower costs, which may result in reduced safety for miners.

This Decision and Order reflects the settlement between the Petitioner's proposal and the amended terms and conditions first set forth by MSHA, under the terms set forth below. The major points of compromise include the following:

1. *Making a diligent effort to remove the casing to the original total depth.* If all of the casing can be removed, or if the well contains no casing, the operator shall

prepare the well for plugging, and use seals described below, for wells less than 4,000′ depth to seal to 200 feet below the coal seam to be mined, or the lowest mineable seam, whichever is lower, or for wells 4,000′ deep or greater, seal 400 feet below the coal seam to be mined, or lowest mineable seam, whichever is lower. MSHA retains the right to review and direct the operator's sealing protocol, in the event geologic or well conditions require further measures. As used in this Proposed Amended Decision and Order, in order to make a diligent effort to remove the casing, the operator shall pull a minimum of 150% of casing string weight and/or have made at least three attempts to spear or overshot to grip the casing for the required minimum pull effort. Where casing string length is unknown, a 3,000′ casing string will be assumed. The operator shall keep a record of these efforts, including casing length and weights, and make available for MSHA review. The District Manager reserves the right to require additional measures in efforts to remove casing, as appropriate.

2. *Unknown total depth.* If the total depth of the well is unknown the operator must contact the District Manager before proceeding. MSHA believes, by including this step in the process, that miner safety will be better served because the Petitioner and the District Manager can work together to evaluate the conditions of the well to be plugged as well as the safest way to accomplish the plugging. MSHA and the operator will work cooperatively to establish a communications protocol, so that the operator may contact the District Manager while working outside normal working hours.

3. *Cement.* Cement is specified to be used as a plugging material, instead of an unnamed "approved equivalent," as requested by Petitioner.

4. *Wells vary in depth.* The terms and conditions required by MSHA will require operator to prepare these wells for safe intersection by making a diligent effort to remove casing to the total depth if possible, then: cleaning to and setting a plug at least 200′ below the coal seam to be mined or lowest mineable seam, whichever is lower; or for wells 4,000′ or greater, to at least 400 feet below the coal seam to be mined, or lowest mineable seam, whichever is lower. The operator will then plug from either the attainable bottom or the newly installed plug, as applicable, by pumping expanding cement slurry and pressurizing to at least 200 psi. If the total depth is not reached and casing cannot be removed, these alternative methods included in this proposed decision and order have proven to be safe and effective when properly implemented.

5. *Notification* – Where the operator is required to notify the District Manager pursuant to the terms of this Proposed Decision and Order, the method of notification will be set forth in the cut-through procedures for each well. The

District Manager agrees to provide a number wherein he or his designee is available at all times.

Therefore, the terms and conditions as amended will at all times guarantee no less than the same measure of protection afforded the miners under 30 C.F.R. § 75.1700 for all wells regardless of depth. On the basis of the Petition, comments received, the findings of MSHA's investigation, and the Joint Motion for Settlement by the parties, the Marion County Coal Company is granted a modification of the application of 30 C.F.R. § 75.1700 to its Marion County Mine.

ORDER

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

GRANTED, subject to the following terms and conditions:

1. DISTRICT MANAGER APPROVAL REQUIRED

a. The type of oil or gas well that will be considered under this Petition includes wells that have been depleted of oil or gas production or have not produced oil or gas and may have been plugged, or active conventional vertical wells which are not producing gas or oil, subject to the provisions below. Unconventional wells in the Marcellus, Utica, and all other unconventional shale oil and gas wells are not subject to this modification. Nothing in these provisions is meant to lessen, diminish, or substitute any provision found in applicable state laws or regulations.

b. A safety barrier of 300 feet in diameter (150 feet between any mined area and a well) shall be maintained around all oil and gas wells (defined herein to include all active, inactive, abandoned, shut-in, previously plugged wells, water injection wells, and carbon dioxide sequestration wells) until approval to proceed with mining has been obtained from the District Manager. Wells that were drilled into potential oil or gas producing formations that did not produce commercial quantities of either gas or oil (exploratory wells, wildcat wells or dry holes) are classified as oil or gas wells by MSHA.

c. Prior to mining within the safety barrier around any well that the mine plans to intersect, the mine operator shall provide to the District Manager a sworn affidavit or declaration executed by a company official, the person at the mine

who is in charge of health and safety at the mine, stating that all mandatory procedures for cleaning out, preparing, and plugging each gas or oil well have been completed as described by the terms and conditions of this order.

The affidavit or declaration must be accompanied by all logs, electronic or otherwise, described in subparagraphs 2(a)(2) and 2(a)(3) below and any other records described in those subparagraphs which the District Manager may request. The District Manager will review the affidavit or declaration, the logs and any other records that have been requested, and may inspect the well itself, and will then determine if the operator has complied with the procedures for cleaning out, preparing, and plugging each well as described by the terms and conditions of this Order. If the District Manager determines that the procedures have been complied with, he will provide his approval, and the mine operator may then mine within the safety barrier of the well, subject to the terms of this Order.

If well intersection is not planned, the mine operator may request a permit to reduce the 300 foot diameter of the safety barrier that does not include intersection of the well. The District Manager may require documents and information that help verify the accuracy of the location of the well in respect to the mine maps and mining projections. This information may include survey closure data, down-hole well deviation logs, historical well intersection location data and any additional data required by the District Manager. If the District Manager determines that the proposed barrier reduction is reasonable, he will provide his approval, and the mine operator may then mine within the safety barrier of the well.

d. The terms and conditions of this Order apply to all types of underground coal mining.

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

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

The mine operator shall test for gas emissions inside the hole before cleaning out, preparing, plugging, and re-plugging oil and gas wells. The District Manager shall be contacted if the well is actively producing gas.

(1) A diligent effort shall be made to remove all the casing in the well and clean the well to 200'below the coal seam to be mined, or the lowest

mineable coal seam, whichever is lower, or for wells 4,000' or greater, clean the well to 400'below the coal seam to be mined, or the lowest mineable coal seam, whichever is lower.

If the total depth of the well is less than 4,000 feet, the operator shall completely clean out the well from the surface to at least 200 feet below the coal seam to be mined, unless the District Manager requires cleaning to a greater depth based on his judgment as to what is required due to the geological strata, or due to the pressure within the well. The operator shall provide the District Manager with all information it possesses concerning the geological nature of the strata and the pressure of the well. **If the total depth of the well is 4,000 feet, or greater, the operator shall completely clean out the well from the surface to at least 400 feet below the coal seam to be mined. Wells of this greater depth are under greater pressure, so the 400 feet requirement provides greater protection for miners.** The operator shall make a diligent effort to remove all material from the entire diameter of the well, wall to wall. If the total depth of the well is unknown and there is no historical information, the mine operator must contact the District Manager before proceeding.

Where active wells which are no longer producing are being cleaned and prepared subject to this order, the operator must: 1) attempt to remove all of the casing using a diligent effort, and comply with all other applicable provisions in this order, or 2) if the casing cannot be removed from the total depth, must be filled with cement from the lowest possible depth to 200 feet below the seam to be mined or lowest mineable coal seam, whichever is lower for wells less than 4,000', or 400 feet below the seam to be mined or lowest mineable coal seam, whichever is lower, for wells 4,000' or greater, and the other applicable provisions in this order still apply, or 3) if the casing cannot be removed it shall be perforated from 200 feet below the coal seam to be mined, or lowest mineable seam, whichever is lower, or 400 feet below the seam to be mined or lowest mineable coal seam, whichever is lower, for wells 4,000' or greater, and the annuli shall be cemented or otherwise filled, and the other applicable provisions in this order still apply.

(2) The operator shall prepare down-hole logs for each well. Logs shall consist of a caliper survey, a bond log if appropriate, a deviation survey, and a gamma survey for determining the top, bottom, and thickness of all coal seams down to the coal seam to be mined, or the lowest mineable coal seam, whichever is lower, potential hydrocarbon producing strata and the location of any existing bridge plug. In addition, a journal shall be maintained describing the depth of each material encountered; the nature

of each material encountered; bit size and type used to drill each portion of the hole; length and type of each material used to plug the well; length of casing(s) removed, perforated or ripped or left in place; any sections where casing was cut or milled; and other pertinent information concerning cleaning and sealing the well. Invoices, work-orders, and other records relating to all work on the well shall be maintained as part of this journal and provided to MSHA upon request.

(3) When cleaning out the well as provided for in subparagraph (a)(1), the operator shall make a diligent effort to remove all of the casing in the well. Thereafter, the well should be plugged to the attainable bottom, at least 200 feet below the coal seam to be mined or lowest mineable seam, whichever is lower, by pumping expanding cement slurry and pressurizing to at least 200 psi. If the casing cannot be removed, it must be cut, milled, perforated or ripped at sufficient intervals to facilitate the removal of any remaining casing in the coal seam by the mining equipment. Any casing which remains shall be perforated or ripped to permit the injection of cement into voids within and around the well. All casing remaining at the coal seam to be mined shall be perforated or ripped at least every 5 feet from 10 feet below the coal seam to 10 feet above the coal seam.

Perforations or rips are required at least every 50 feet from 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the lowest mineable coal seam up to 100 feet above the uppermost mineable coal seam. For perforations in the Pittsburgh Seam, see Appendix A. The mine operator must take appropriate steps to ensure that the annulus between the casing and the well walls are filled with expanding (minimum 0.5% expansion upon setting) cement and contain no voids.

Jet/sand cutting is one method for ripping or perforating casing with three or more strings of casing in the Pittsburgh coal seam in preparation for mining. This method uses compressed nitrogen gas and sand to cut the well casings as outlined in Appendix A. On active wells cuts start at 200' above the bottom of the casing at 200' intervals, to 200' below the bottom of the Pittsburgh coal seam where Appendix A outlines cut interval minimums.

If it is not possible to remove all of the casing, the operator shall notify the District Manager before any other work is performed. **If the well cannot be cleaned out or the casing removed, the operator shall prepare the well as described from the surface to at least 200 feet below the base of the lowest mineable coal seam for wells less than 4000 feet in depth and**

400 feet below the lowest mineable coal seam for wells 4000 feet or greater, unless the District Manager requires cleaning out and removal of casing to a greater depth based on his judgement as to what is required due to geological strata, or due to the pressure within the well.

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

(4) If the District Manager concludes that the completely cleaned-out well is emitting excessive amounts of gas, the operator must place a mechanical bridge plug in the well.

It must be placed in a competent stratum at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the lowest mineable coal seam, but above the top of the uppermost hydrocarbon-producing stratum, unless the District Manager requires a greater distance based on his judgment that it is required due to the geological strata, or due to the pressure within the well. The operator shall provide the District Manager with all information it possesses concerning the geological nature of the strata and the pressure of the well. If it is not possible to set a mechanical bridge plug, an appropriately sized packer may be used. The mine operator shall document what has been done to "kill the well" and plug the hydrocarbon producing strata.

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

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

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

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

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

c. MANDATORY PROCEDURES FOR PLUGGING OR RE-PLUGGING OIL AND GAS WELLS FOR USE AS DEGASIFICATION WELLS

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

(1) **The operator shall set a cement plug in the well by pumping an expanding cement slurry down the tubing to provide at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) of expanding cement below the coal seam to be mined, or lowest mineable seam, whichever is lower, unless the District Manager requires a greater depth based on his judgment that a greater depth is required due to the geological strata, or due to the pressure within the well.** The expanding cement will be placed in the well under a pressure of at least 200 pounds

per square inch. The top of the expanding cement shall extend at least 50 feet above the top of the coal seam being mined, unless the District Manager requires a greater distance based on his judgment that a greater distance is required due to the geological strata, or due to the pressure within the well.

(2) The operator shall securely grout into the bedrock of the upper portion of the degasification well a suitable casing in order to protect it. The remainder of this well may be cased or uncased.

(3) The operator shall fit the top of the degasification casing with a wellhead equipped as required by the District Manager in the approved ventilation plan. Such equipment may include check valves, shut-in valves, sampling ports, flame arrestor equipment, and security fencing.

(4) Operation of the degasification well shall be addressed in the approved ventilation plan. This may include periodic tests of methane levels and limits on the minimum methane concentrations that may be extracted.

(5) After the area of the coal mine that is degassed by a well is sealed or the coal mine is abandoned, the operator must plug all degasification wells using the following procedures:

(i) The operator shall insert a tube to the bottom of the well or, if not possible, to within 100 feet above the coal seam being mined. Any blockage must be removed to ensure that the tube can be inserted to this depth.

(ii) The operator shall set a cement plug in the well by pumping Portland cement or a lightweight cement mixture down the tubing until the well is filled to the surface.

(iii) The operator shall embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 4-inch or larger casing, set in cement, shall extend at least 36 inches above the ground level with the API well number engraved or welded on the casing.

(iv) This provision does not apply to traditional degasification holes which have not intersected the seam to be mined, have not commercially produced gas and have no API number.

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

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

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

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

(3) If the well contains casing(s), the operator shall drill into the well from the parallel hole. From 10 feet below the coal seam to 10 feet above the coal seam, the operator shall perforate or rip all casings at least every 5 feet. **Beyond this distance, the operator shall perforate or rip at least every 50 feet from at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the coal seam to be mined, or lowest mineable seam, whichever is lower, up to 100 feet above the seam being mined, unless the District Manager requires a greater distance based on his judgment that a greater distance is required due to the geological strata, or due to the pressure within the well.** The diagram shown in Appendix A is representative of the locations of the perforations or ripping that must be done.

The operator shall fill the annulus between the casings and between the casings and the well wall with expanding (minimum 0.5% expansion upon setting) cement, and shall ensure that these areas contain no voids. If the operator, using a casing bond log, can demonstrate to the satisfaction of the District Manager that the annulus of the well is adequately sealed with cement, then the operator will not be required to perforate or rip the casing for that particular well, or fill these areas with cement. When multiple casing and tubing strings are present in the coal horizon(s), any casing which remains shall be ripped or perforated and filled with expanding cement as indicated above. An acceptable casing bond log for each casing and tubing string is needed if used in lieu of

ripping or perforating multiple strings.

(4) Where the operator determines, and the District Manager agrees, that there is insufficient casing in the well to allow the method outlined in subparagraph (d)(3) to be used, then the operator shall use a horizontal hydraulic fracturing technique to intercept the original well. **From at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the coal seam to be mined, or lowest mineable seam, whichever is lower, to a point at least 50 feet above the seam being mined, the operator shall fracture in at least six places at intervals to be agreed upon by the operator and the District Manager after considering the geological strata and the pressure within the well.** The operator shall then pump expanding cement into the fractured well in sufficient quantities and in a manner which fills all intercepted voids.

(5) The operator shall prepare down-hole logs for each well. Logs shall consist of a caliper survey, a bond log if applicable, a deviation survey, and a gamma log for determining the top, bottom, and thickness of all coal seams down to the coal seam to be mined**, or lowest mineable seam, whichever is lower,** potential hydrocarbon producing strata and the location of any existing bridge plug. The operator may obtain the logs from the adjacent hole rather than the well if the condition of the well makes it impractical to insert the equipment necessary to obtain the log.

(6) A journal shall be maintained describing the depth of each material encountered; the nature of each material encountered; bit size and type used to drill each portion of the hole; length and type of each material used to plug the well; length of casing(s) removed, perforated or ripped or left in place; any sections where casing was cut or milled; and other pertinent information concerning sealing the well. Invoices, work-orders, and other records relating to all work on the well shall be maintained as part of this journal and provided to MSHA upon request.

(7) After the operator has plugged the well as described in subparagraphs (d)(3) and/or (d)(4), the operator shall plug the adjacent hole, from the bottom to the surface, with Portland cement or a lightweight cement mixture.

The operator shall embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 4-inch or larger casing, set in cement, shall extend at least 36 inches above the ground level.

A combination of the methods outlined in subparagraphs (d)(3) and (d)(4) may have to be used in a single well, depending upon the conditions of the hole and the presence of casings. The operator and the District Manager shall discuss the nature of each hole. The District Manager may require that more than one method be utilized. The mine operator may submit an alternative plan to the District Manager for approval to use different methods to address wells that cannot be completely cleaned out. The District Manager may require additional documentation and certification by a registered petroleum engineer to support the proposed alternative methods.

3. MANDATORY PROCEDURES WHEN MINING WITHIN A 100-FOOT DIAMETER BARRIER AROUND WELL

a. A representative of the operator, a representative of the miners, the appropriate State agency, or the MSHA District Manager may request that a conference be conducted prior to intersecting any plugged or re-plugged well. Upon receipt of any such request, the District Manager shall schedule such a conference. The party requesting the conference shall notify all other parties listed above within a reasonable time prior to the conference to provide opportunity for participation. The purpose of the conference shall be to review, evaluate, and accommodate any abnormal or unusual circumstance related to the condition of the well or surrounding strata when such conditions are encountered.

b. The operator shall intersect a well on a shift approved by the District Manager. The operator shall notify the District Manager and the miners' representative in sufficient time prior to intersecting a well in order to provide an opportunity to have representatives present.

c. When using continuous mining methods, the operator shall install drivage sights at the last open crosscut near the place to be mined to ensure intersection of the well. The drivage sites shall not be more than 50 feet from the well. When using longwall-mining methods, distance markers shall be installed on 5-foot centers for a distance of 50 feet in advance of the well in the headgate entry and in the tailgate entry.

d. The operator shall ensure that fire-fighting equipment including fire extinguishers, rock dust, and sufficient fire hose to reach the working face area of the well intersection (when either the conventional or continuous mining method is used) is available and operable during all well intersections. The fire hose shall be located in the last open crosscut of the entry or room. The operator shall maintain the water line to the belt

conveyor tailpiece along with a sufficient amount of fire hose to reach the farthest point of penetration on the section. When the longwall mining method is used, a hose to the longwall water supply is sufficient.

e. The operator shall ensure that sufficient supplies of roof support and ventilation materials shall be available and located at the last open crosscut. In addition, emergency plugs and suitable sealing materials shall be available in the immediate area of the well intersection.

f. On the shift prior to intersecting the well, the operator shall service all equipment and check it for permissibility. Water sprays, water pressures, and water flow rates used for dust and spark suppression shall be examined and any deficiencies corrected.

g. The operator shall calibrate the methane monitor(s) on the longwall, continuous mining machine, or cutting machine and loading machine on the shift prior to intersecting the well.

h. When mining is in progress, the operator shall perform tests for methane with a handheld methane detector at least every 10 minutes from the time that mining with the continuous mining machine or longwall face is within 30 feet of the well until the well is intersected. During the actual cutting process, no individual shall be allowed on the return side until the well intersection has been completed, and the area has been examined and declared safe. All workplace examinations on the return side of the shearer will be conducted while the shearer is idle. The operator's most current Approved Ventilation Plan will be followed at all times unless the District Manager deems a greater air velocity for the intersect is necessary.

i. When using continuous or conventional mining methods, the working place shall be free from accumulations of coal dust and coal spillages, and rock dust shall be placed on the roof, rib, and floor to within 20 feet of the face when intersecting the well. On longwall sections, rock dusting shall be conducted and placed on the roof, rib, and floor up to both the headgate and tailgate gob.

j. When the well is intersected, the operator shall de-energize all equipment, and thoroughly examine and determine the area to be safe before permitting mining to resume.

k. After a well has been intersected and the working place determined to be safe, mining shall continue inby the well a sufficient distance to permit adequate ventilation around the area of the well.

l. If the casing is cut or milled at the coal seam level, the use of torches should not be necessary. However, in rare instances, torches may be used for inadequately or inaccurately cut or milled casings. No open flame shall be permitted in the area until adequate ventilation has been established around the well bore and methane levels of less than 1.0% are present in all areas that will be exposed to flames and sparks from the torch. The operator shall apply a thick layer of rock dust to the roof, face, floor, ribs and any exposed coal within 20 feet of the casing prior to the use of torches.

m. Non-sparking (brass) tools will be available and will be used exclusively to expose and examine cased wells.

n. No person shall be permitted in the area of the well intersection except those actually engaged in the operation, including company personnel, representatives of the miners, personnel from MSHA, and personnel from the appropriate State agency.

o. The operator shall alert all personnel in the mine to the planned intersection of the well prior to their going underground if the planned intersection is to occur during their shift. This warning shall be repeated for all shifts until the well has been mined through.

p. The well intersection shall be under the direct supervision of a certified individual. Instructions concerning the well intersection shall be issued only by the certified individual in charge.

q. If the mine operator cannot find the well in the longwall panel or if a development section misses the anticipated intersection, the operator shall cease mining to examine for hazardous conditions at the projected location of the well, notify the District Manager, and take reasonable measures to locate the well, including visual observation/inspection or through survey data. Mining may resume if the well is located and no hazardous conditions exist. If the well cannot be located, the mine operator shall work with District Manager to resolve any issues before mining resumes.

r. The provisions of this Order do not impair the authority of representatives of MSHA to interrupt or halt the well intersection, and to issue a withdrawal order, when they deem it necessary for the safety of the miners. MSHA may order an interruption or cessation of the well

intersection and/or a withdrawal of personnel by issuing either a verbal or written order to that effect to a representative of the operator, which order shall include the basis for the order. Operations in the affected area of the mine may not resume until a representative of MSHA permits resumption. The mine operator and miners shall comply with verbal or written MSHA orders immediately. All verbal orders shall be committed to writing within a reasonable time as conditions permit.

s. A copy of this Order shall be maintained at the mine and be available to the miners.

t. If the well is not plugged to the total depth of all minable coal seams identified in the core hole logs, any coal seams beneath the lowest plug will remain subject to the barrier requirements of 30 C.F.R. § 75.1700, should those coal seams be developed in the future.

u. All necessary safety precautions and safe practices according to Industry Standards, required by MSHA regulations and State regulatory agencies having jurisdiction over the plugging site will be followed to provide the upmost protection to the miners involved in the process.

v. All miners involved in the plugging or re-plugging operations will be trained on the contents of this Petition prior to starting the process and a copy of this Petition will be posted at the well site until the plugging or re-plugging has been completed.

w. Mechanical bridge plugs should incorporate the best available technologies that are either required or recognized by the State regulatory agency and/or oil and gas industry.

x. Within 30 days after this Order becomes final, the operator shall submit proposed revisions for its approved 30 C.F.R. Part 48 training plan to the District Manager. These proposed revisions shall include initial and refresher training on compliance with the terms and conditions stated in the Order. The operator shall provide all miners involved in well intersection with training on the requirements of this Order prior to mining within 150 feet of the next well intended to be mined through.

y. The responsible person required under 30 C.F.R. § 75.1501 Emergency Evacuations, is responsible for well intersection emergencies. The well intersection procedures should be reviewed by the responsible person prior to any planned intersection.

z. Within 30 days after this Order becomes final, the operator shall submit proposed revisions for its approved mine emergency evacuation and firefighting program of instruction required under 30 C.F.R § 75.1502. The operator will revise the program of instruction to include the hazards and evacuation procedures to be used for well intersections. All underground miners will be trained in this revised plan within 30 days of submittal.

SUBJECT TO THE ABOVE TERMS AND CONDITIONS, and under the authority delegated by the Secretary of Labor to the Administrator for Coal Mine Safety and Health, and under § 101(c) of the Federal Mine Safety and Health Act of 1977, 30 U.S.C. § 811(c), and 30 C.F.R. Part 44, a modification of the application of 30 C.F.R. § 75.1700 at The Marion County Coal Company's Marion County Mine is hereby **GRANTED**.

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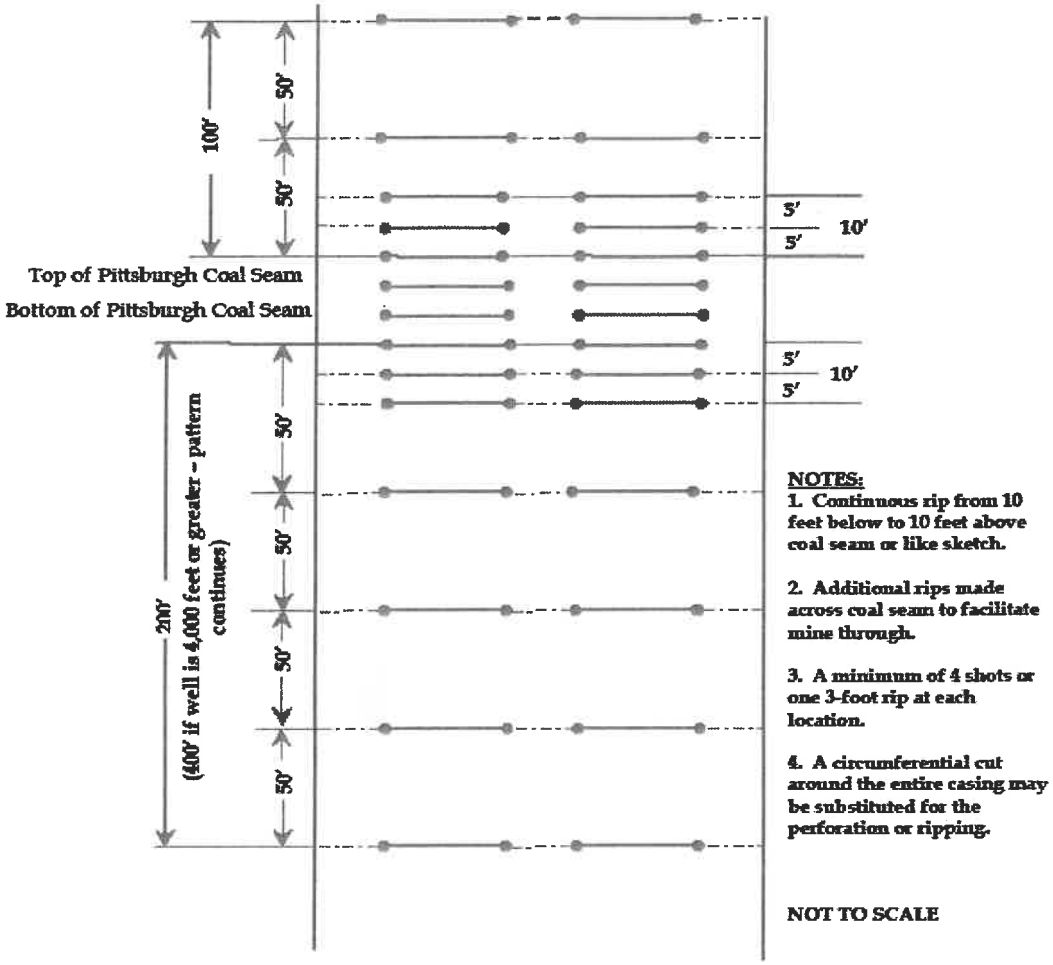
Office of Standards Regulations and Variances
Mine Safety and Health Administration, U.S. Dept. of Labor
201 12th St S, Suite 401
Arlington, VA 22202

David Roddy
Marion County Coal Company
1 Bridge Street
Monongah, WV 26554

Greg J. Norman, Director
West Virginia Office of Miners' Health Safety & Training
#7 Players Club Dr. Suite 2
Charleston WV 25311

Ricky L. Rinehart
UMWA Representative, Marion County Coal Mine
67 Cellular Drive
Mannington, West Virginia 26582

Appendix A



WW-4A
Revised 6-07

1) Date: JANUARY 14, 2026
2) Operator's Well Number
4708

3) API Well No.: 47 - 049 - 00297

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: RENEE E. CAMPBELL
Address: 908 VIRGINIA AVE.
FOLLANSBEE, WV 26037
(b) Name:
Address:
(c) Name:
Address:

6) Inspector: ROBERT HITT
Address: 8934 GOODHOPE PIKE
LOST CREEK, WV 26385
Telephone: (681) 344-4747

5) (a) Coal Operator
Name: WEST VIRGINIA LAND RESOURCES INC
Address: 1 BRIDGE STREET
MONONGAH, WV 26554
(b) Coal Owner(s) with Declaration
Name:
Address:
Name:
Address:
(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.

OFFICIAL SEAL
Cole Emmit James
Notary Public
State of West Virginia
My Commission Expires
June 17, 2029
3813 ELLIOT RD.
WEST UNION, WV 26456

Well Operator: WEST VIRGINIA LAND RESOURCES INC
By: DAVID RODDY
Its: PROJECT ENGINEER
Address: 1 BRIDGE STREET
MONONGAH, WV 26554
Telephone: (304) 534-4748

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Office of Oil and Gas
MAR 13 2026
WV Department of
Environmental Protection

Subscribed and sworn before me this 15 day of January 2026
Cole James Notary Public
My Commission Expires June 17, 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 deprivacyoffier@wv.gov.

05/01/2026

U.S. Postal Service
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

Postmark Here
FEB 20 2026
PURGLOVE WV 26546 USPS POST OFFICE

Sent To Renee Campbell
Street and Apt. No., or PO Box No. 908 Virginia Ave
City, State, ZIP+4® Folkston, WV 26037

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 2343 3853 46

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MAR 13 2026

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Environmental Protection

05/01/2026

WW-4B

API No. 47-049-00297
Farm Name
Well No. 4708

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 then 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: 2-10-26

By: Designated Agent

Its

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MAR 13 2026
WV Department of
Environmental Protection

05/01/2026

WW-9
(5/16)

API Number 47 - 049 - 00297
Operator's Well No.

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

Operator Name WEST VIRGINIA LAND RESOURCES INC. OP Code

Watershed (HUC 10) PYLES FORK OF BUFFALO CREEK Quadrangle HUNDRED WV, PA

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes ☐ No ☑

Will a pit be used? Yes ☐ No ☑

If so, please describe anticipated pit waste:

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 Tanks, see attached letter

Will closed loop system be used? If so, describe: Yes. Gel circulated from tank thru well bore and returned to tank

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Gel or Cement

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

Additives to be used in drilling medium? Bentonite, Bicarbonate of Soda

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Shaker cutting buried on site

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

-Landfill or offsite name/permit number? N/A

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

Company Official (Typed Name) David Roddy

Company Official Title Project Engineer

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Office of Oil and Gas
MAR 13 2026
WV Department of
Environmental Protection

Subscribed and sworn before me this 15 day of January, 2026

Notary Public

My commission expires June 17, 2029

OFFICIAL SEAL
Cole Emmit James
Notary Public
State of West Virginia
My Commission Expires
June 17, 2029
3813 ELLIOT RD.
WEST UNION, WV 26456

05/01/2026

Form WW-9

Operator's Well No. 4708

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH

Lime 3 Tons/acre or to correct to pH 6.0

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
See Attachment	100	See Attachment	100

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: Robert J. Hitt

Comments:

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Office of Oil and Gas
MAR 13 2026
WV Department of
Environmental Protection

Title: *OOG Inspector* Date: 3-9-26

Field Reviewed? ( ) Yes ( ) No

05/01/2026

[illegible] • 1284 E MAIN HWY 60 [illegible] #2 • MOREHEAD KY 4175 • PHS = 4823

NOTICE TO CONSUMERS

Notice: A binding arbitration/mediation is required by several states. Under the seed laws of several states, arbitration, mediation, or conciliation is required as a prerequisite to maintaining a legal action based upon the failure of seed, to which this notice is attached, to produce as represented. The consumer shall file a complaint (sworn for AR, FL, IA, MS, SC, TX, WA, signed only CA, ID, NC, SC) along with the required filing fee (where applicable) with the Commissioner, Director/Secretary of Agriculture, Seed Commissioner (PA), or Chief Agricultural Official within such time as to permit inspection of the crops, plants, or trees by the designated agency and the landsman from whom the seed was purchased. A copy of the complaint shall be sent to the seller by certified or registered mail or as otherwise provided by state statute.

NOTICE TO BUYER: WE WARRANT THAT SEEDS WE SELL WILL CONFORM TO THE LABEL DESCRIPTION REQUIRED UNDER STATE AND FEDERAL LAWS, WITHIN RECOGNIZED TOLERANCES. WE MAKE NO WARRANTIES, EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR PURPOSE, OR OTHERWISE, WHICH WOULD EXTEND BEYOND SUCH DESCRIPTIONS, AND IN ANY EVENT OUR LIABILITY FOR BREACH OF ANY WARRANTY OR CONTRACT WITH RESPECT TO SUCH SEED IS LIMITED TO THE PURCHASE PRICE OF SUCH SEEDS.

MIXTURE-COASTAL SEED 2015
LOT NO: ZM1208
CROP: 58 INERT: 1.55 NET WT 50
WEED SEED 25

KIND	VARIETY	ORG	PURE	GERM	HARD	DORM	TEST
ANNUAL RYEGRASS	MAGNUM	OR	29.40	90 00	.02	.00	10/16
ORCHARDGRASS	POTOMAC	CR	11.35	85 00	.00	.00	11/16
COATING MATERIAL			8.00	00	00	.00	11/16
PERENNIAL RYEGRASS	LINN	CR	13.60	85 00	.00	.00	11/16
CLOVER	NOT STATED	OR	6.40	85 00	.00	.00	12/16
COATING MATERIAL			3.40	.00	.00	.00	12/16
TIMOTHY	CLIMAX	CAN	9.60	65.00	.00	.00	10/16
BIRDSFOOT TREFOIL	NOT STATED	CAN	2.83	83 00	7 00	.00	11/15
COATING MATERIAL			1.91	.00	00	.00	11/16
LADINO CLOVER	SEMINOLE	CR	3.17	60 00	25 00	00	8/16
COATING MATERIAL			1.70	00	00	00	8/16

Mem
Treated

NOXIOUS WEEDS PER LB

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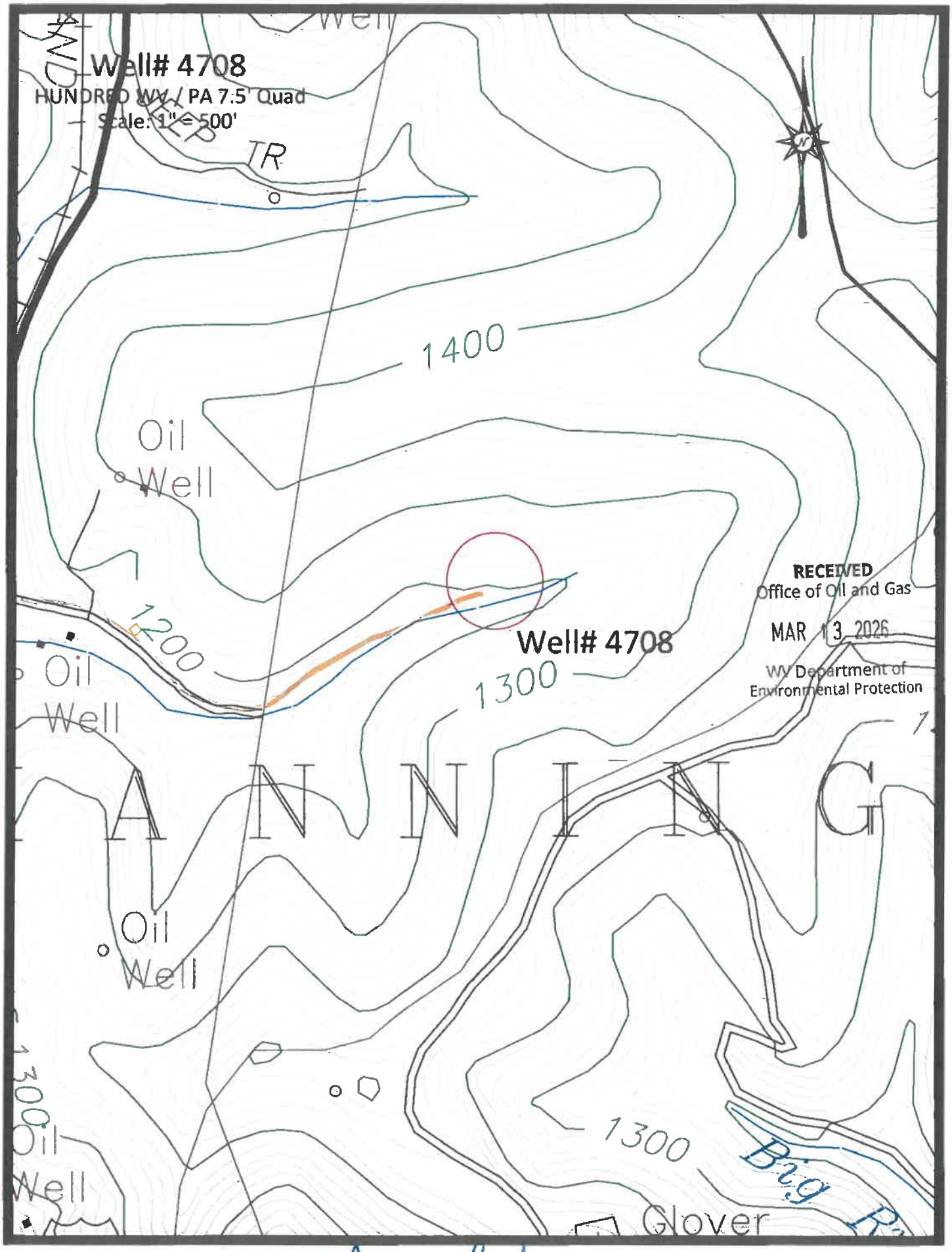
103-01855
103-01853
103-01854
049-02603
049-70480
049-70476
049-70478
049-02614
049-01039
049-02225
049-30148
049-00305
049-70481
049-00679
049-30042
049-70118
049-30590
049-30588
049-70474
Campbells Run
Husky Hwy

05/01/2026


Well# 4708
HUNDRED WV / PA 7.5' Quad
Scale: 1" = 500'
1400
Oil Well
1200
Oil Well
Well# 4708
1300
Oil Well
1300
Oil Well
1300
Glover
Big
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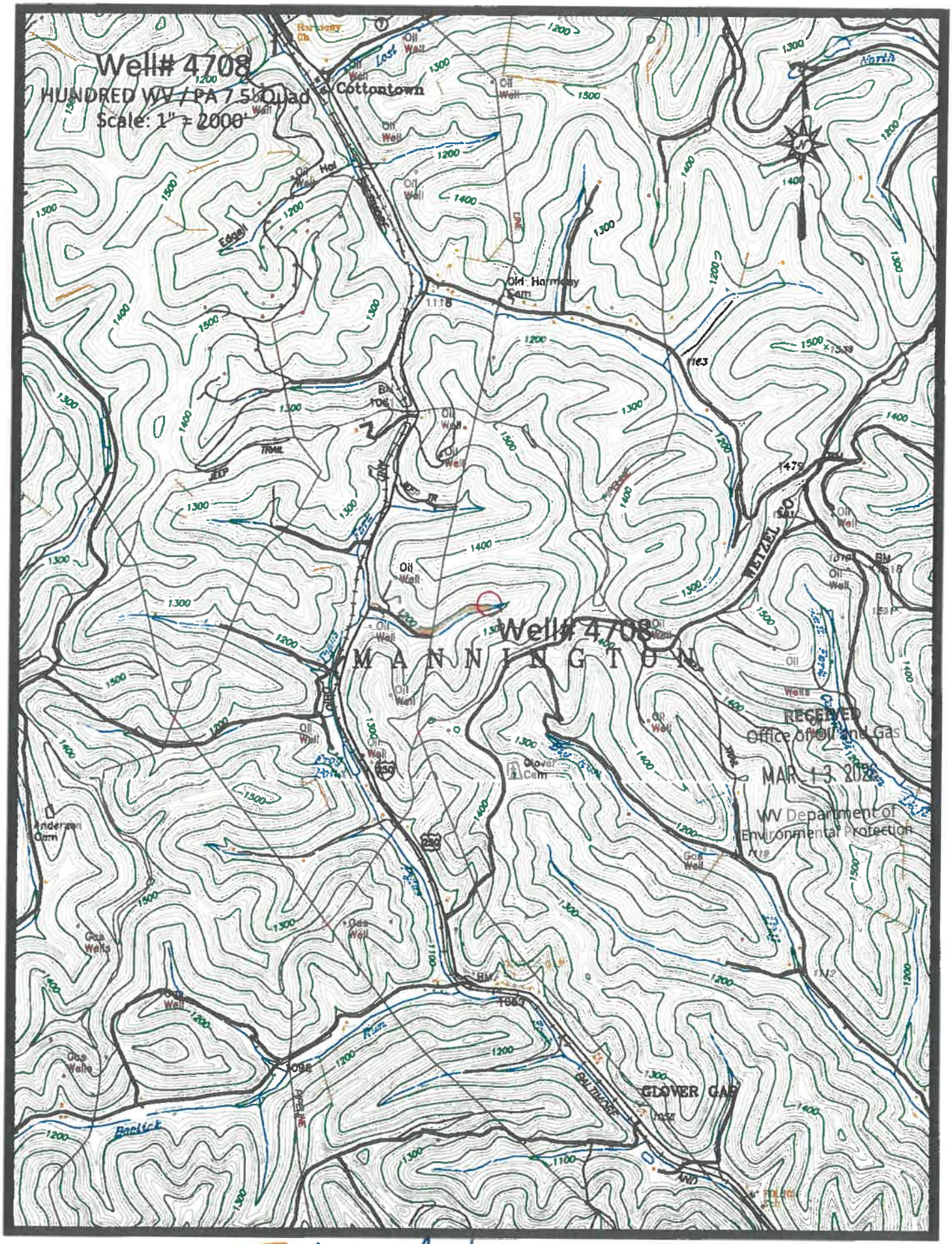
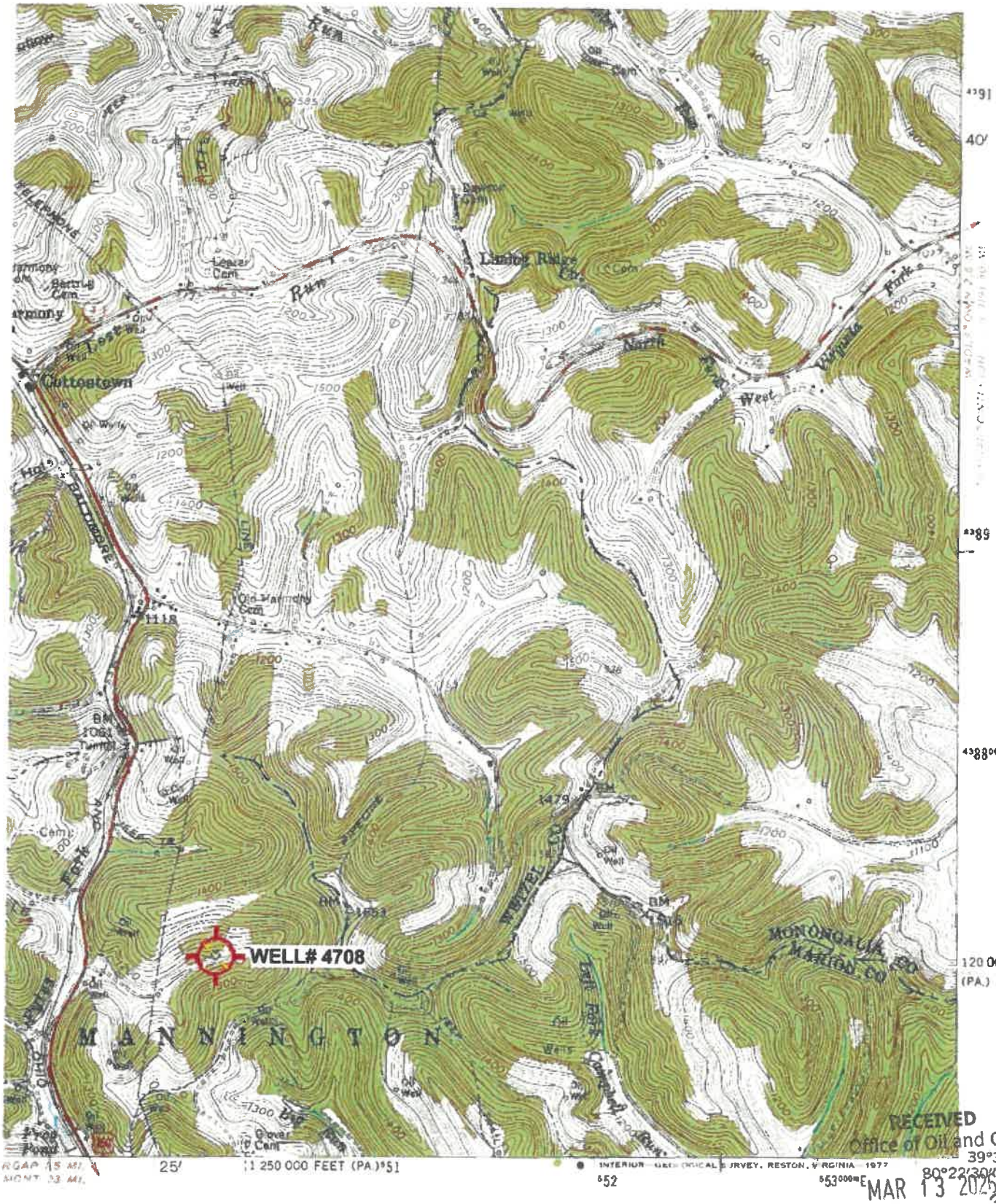
MAR 13 2026
WV Department of Environmental Protection
Access Road

05/01/2026



Access Road

05/01/2026



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'Hundred; WV,PA' Scale: 1" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640" , 1 cm = 240Mt

HUNDRED, W. VA.—PA.
NW/4 MANNINGTON 15' QUADRANGLE
N3937.5—W8022.5/7.5

05/01/2026

WW-7
8-30-06

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

API: 47-049-00297 **WELL NO.:** 4708

FARM NAME: ROBERT N. CAMPBELL

RESPONSIBLE PARTY NAME: WEST VIRGINIA LAND RESOURCES INC.

COUNTY: MARION **DISTRICT:** MANNINGTON

QUADRANGLE: HUNDRED WV, PA

SURFACE OWNER: RENEE E. CAMPBELL

ROYALTY OWNER:

UTM GPS NORTHING: 4,387,223 m

UTM GPS EASTING: 550,287 m **GPS ELEVATION:** 367 m

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

Real-Time Differential X

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.

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MAR 13 2026
WV Department of
Environmental Protection

Signature PS 2002 Title JANUARY 14, 2026 Date

05/01/2026

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

plugging permits issued for 4704900305, 304, and 297

1 message

Kennedy, James P <james.p.kennedy@wv.gov> Mon, Apr 27, 2026 at 9:39 AM
To: "Roddy, David" <DavidRoddy@acnrinc.com>, Robert J Hitt <robert.j.hitt@wv.gov>, mtrach@wvassessor.com

To whom it may concern, plugging permits have been issued for 4704900305, 304, and 297.

--

James Kennedy

Environmental Resource Specialist III / Permitting

WVDEP Office of Oil and Gas

601 57th Street, SE

Charleston, WV 25304

304-926-0499 ext. 45025

james.p.kennedy@wv.gov

3 attachments

4704900305.pdf
5854K

4704900304.pdf
5402K

470490297.pdf
7886K

05/01/2026