



west virginia department of environmental protection

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

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

Wednesday, November 6, 2024
WELL WORK PLUGGING PERMIT
Vertical Plugging

RAMACO RESOURCES, LLC
250 W MAIN ST
SUITE 1900
LEXINGTON, KY 40507

Re: Permit approval for ALDREDGE 1
47-045-00335-00-00

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

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

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

James A. Martin
Chief

Operator's Well Number:
Farm Name: MIKE ROSS, INC.
U.S. WELL NUMBER: 47-045-00335-00-00
Vertical Plugging
Date Issued: 11/6/2024

PERMIT CONDITIONS

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

CONDITIONS

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

1) Date September 19, 2024
2) Operator's
Well No. Aldredge #1
3) API Well No. 47-045 -00335

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

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APPLICATION FOR A PERMIT TO PLUG AND ABANDON

WV Department of
Environmental Protection


- 4) Well Type: Oil / Gas / Liquid injection / Waste disposal /
(If "Gas, Production or Underground storage) Deep / Shallow
- 5) Location: Elevation 1100.38' Watershed Christian Branch of Elk Creek
District Triadelphia County Logan Quadrangle Mallory 7.5'
- 6) Well Operator Ramaco Resources, LLC 7) Designated Agent Jason P. Bragg
Address 300 Kanawha Blvd. East Address 300 Kanawha Blvd. East Ste 320
Charleston, WV 25301 Charleston, WV 25301
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Christian Porter Name Next LVL Energy (Diversified Owned)
Address PO Box 181 Address 104 Helliport Loop Rd
Holden, WV 25625 Bridgeport, WV 25330

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

See Attached

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

Work order approved by inspector



Date

10-25-24

11/15/2024

Plugging Prognosis

API #: 47-045-00335

West Virginia, Logan County

Lat/Long – 37.687435, -81.833062

Quadrangle_15 - Gilbert

Nearest ER: Logan Regional Medical Center-Emergency Room – 20 Hospital Dr, Logan, WV 25601

The well was originally drilled in 1953 to a TD of 3185'. Drilled deeper in 2006.

Casing Schedule

13" @ 15' – No Cementing Information

10" @ 360' – No Cementing Information

8-1/4" @ 1604' – No Cementing Information

6-5/8" @ 2240' – ("Set in 10 Bags Gel & 12 Bags Cement")

4-1/2" @ 5231' – Cemented w/ 367 cu ft – ETOC @ 2220'

TD @ 5220'

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Original Completion: Berea – 3133'-3164' – Shot w/ 150 Qts Glycerine

Completion: Devonian Shale (Lower Huron and Rhinestreet) – Perforated w/ 42 shots from 4415'-5181'
– Treated w/ 1.7MMSCF N2

Fresh Water: 134'

Salt Water: 1163', 1785'

Gas Shows: 2353'-2358', 2528'-2538', 3137'-3140', Shows in Lower Huron and Rhinestreet but doesn't say at what particular depths

Oil Shows: None Reported

Coal: 133'-135'

Mine: None Reported

Elevation: 1006'

1. Notify county inspector Christian Porter at 304-541-0079 at least 48 hrs prior to moving on location.
2. Check and record pressures on csg/tbg.
3. Pump 6% Bentonite Gel between each plug.
4. If necessary, blow down and kill well with fluid.
5. Run CBL on 4-1/2" csg. Record TOC for later use.
6. TIH w/ tbg to 5210'. Pump 10 bbl 6% bentonite gel.
7. Pump 1070' Class L cement plug from **5210' to 4140' (Bottom/Completion Plug – Rhinestreet & Lower Huron)**. 68 sks @ 1.14 yield. WOC. Tag plug. Top off as needed. **Do not omit any plugs listed below. Perforate as needed. Break into multiple plugs as needed.**
8. TOOH w/ tbg to 4140'. Pump 6% bentonite gel spacer from 4365' to 3214'.

11/15/2024

9. TOOH w/ tbg to 3214'. Pump 250' Class L cement plug from **3214' to 2964' (Completion Plug – Berea)**. 20 sks @ 1.14 yield. WOC. Tag Plug. Top off as needed. **Do not omit any plugs listed below. Perforate as needed.**
10. TOOH w/ tbg to 2964'. Pump 6% bentonite gel spacer from 2964' to 2588'.
11. TOOH w/ tbg to 2588'. Pump 426' Class L cement plug from **2588' to 2162' (Big Lime and 6-5/8" Csg Shoe Plug)**. 34 sks @ 1.14 yield. WOC. Tag Plug. Top off as needed. **Do not omit any plugs listed below. Perforate as needed.**
12. Rip/Shoot 4-1/2" csg above free point.
13. TOOH w/ 4-1/2" csg, laying down.
14. Free point 6-5/8" csg.
15. Rip/Shoot 6-5/8" csg above free point.
16. TOOH w/ 6-5/8" csg, laying down.
17. TIH w/ tbg to 50' below 4-1/2" csg cut point.
18. Pump 100' Class L cement plug 50' in/out of 4-1/2" csg cut.
19. Pump 100' Class L cement plug 50' in/out of 6-5/8" csg cut.
20. TOOH w/ tbg to top of csg cut plug. Pump 6% bentonite gel spacer to 1835'.
21. TOOH w/ tbg to 1835'. Pump 100' Class L cement plug from **1835' to 1735' (Saltwater Show)**. 19 sks @ 1.14 yield. WOC. Tag plug. Top off as needed. **Do not omit any plugs listed below. Perforate as needed.**
22. TOOH w/ tbg to 1735'. Pump 6% bentonite gel spacer from 1735' to 1654'.
23. TOOH w/ tbg to 1654'. Pump 100' Class L cement plug from **1654' to 1554' (8-1/4" Csg Shoe Plug)**. 43 sks @ 1.14 yield. WOC. Tag plug. Top off as needed. **Do not omit any plugs listed below. Perforate as needed.**
24. TOOH w/ tbg to 1554'. Pump 6% bentonite gel spacer from 1554' to 1213'.
25. TOOH w/ tbg to 1213'. Pump 257' Class L cement plug from **1213' to 956' (Saltwater Show and Elevation Plug)**. 111 sks @ 1.14 yield. WOC. Tag plug. Top off as needed. **Do not omit any plugs listed below. Perforate as needed.**
26. TOOH w/ tbg to 956'. Pump 6% bentonite gel spacer from 956' to 410'.
27. TOOH w/ tbg to 410'. Pump 100' Class L cement plug from **410' to 310' (10" Csg Shoe Plug)**. 43 sks @ 1.14 yield. WOC. Tag plug. Top off as needed. **Do not omit any plugs listed below. Perforate as needed.**
28. Free point 10" csg.
29. Rip/Shoot 10" csg above free point.
30. TOOH w/ 10" csg, laying down.
31. Pump 100' Class L cement plug 50' in/out of 10" csg cut.
32. TOOH to top of 10" csg cut plug. Pump 6% bentonite gel spacer from top of 10" csg cut plug to 185'.
33. TOOH w/ tbg to 185'.
33. Pump 185' **Expanding Class L** cement plug from **185' to Surface (Coal, Fresh Water, 13" Csg Shoe and Surface Plug)**. 133 sks @ 1.14 yield. WOC. Tag plug. Top off as needed.
34. Reclaim location and well road to WV DEP specifications.

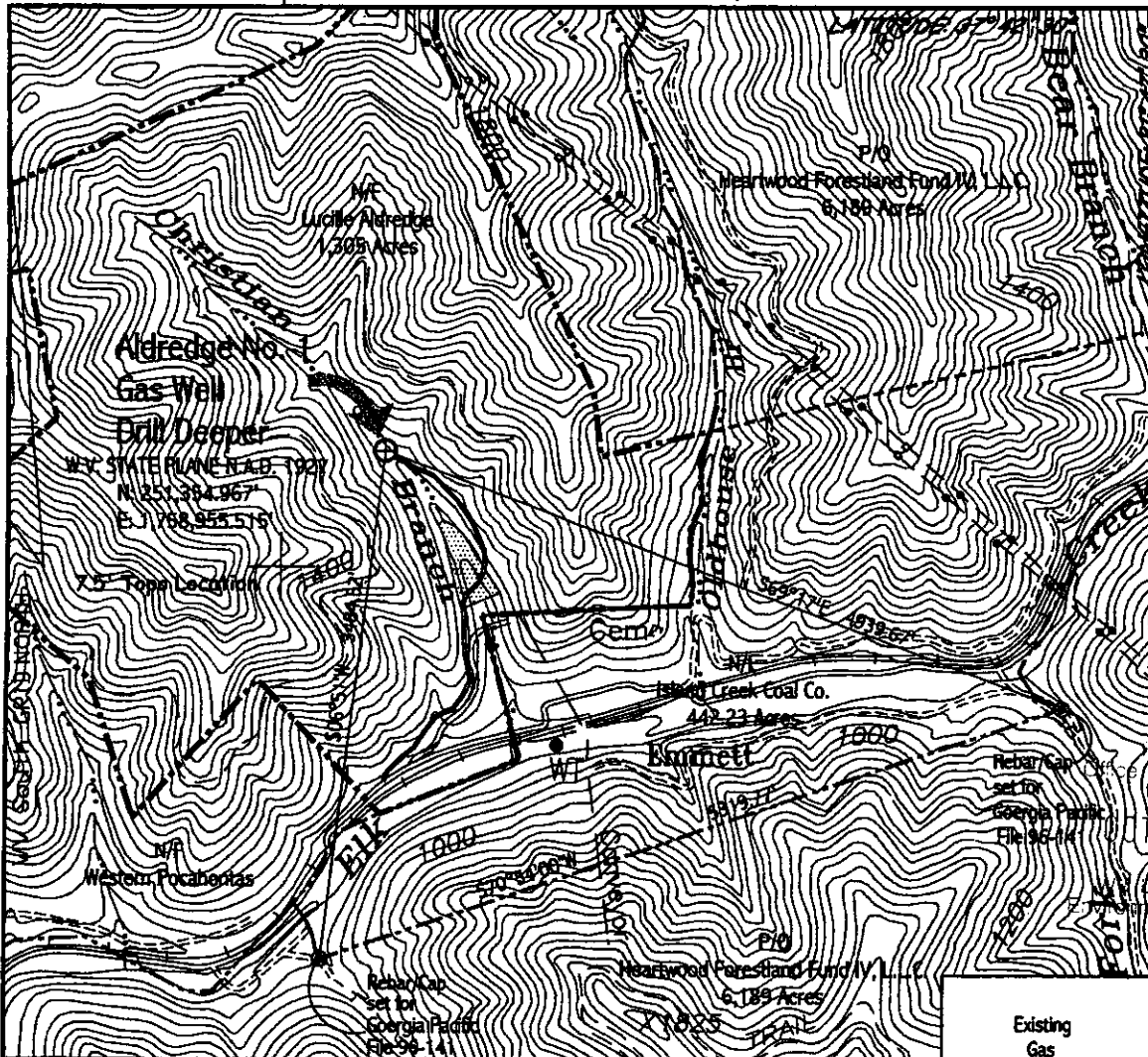
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11/15/2024

11,956'



Benchmark Surveying, Inc.
 Suite 4 50 Caney Branch Road
 Chapmanville, W.V. 25508
 304-855-7646
 304-855-7647 Fax

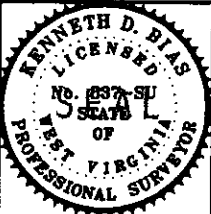


Existing Gas Well Reference Points Not Necessary

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

FILE NO. 2005-137
 DRAWING NO. 2005-137
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1:2,500'
 PROVEN SOURCE OF ELEVATION BM H-162
Located at Bills Branch of Christian, W.V.

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 (SIGNED) [Signature]
 P.S. 837-SU



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



DATE: September 6th, 2005
 OPERATOR'S WELL NO. Aldredge No. 1
 API WELL NO.

47 - 045 - 335-DD
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1,006.79' WATER SHED Christian Branch of Elk Creek of the Guyandotte River
 DISTRICT Triadelphia COUNTY Logan
 QUADRANGLE Mallory, W.V. 7.5'
 SURFACE OWNER Mike Ross, Inc. AND I.L. & Betty Sue Morris ACREAGE 1305
 OIL & GAS ROYALTY OWNER S/A Surface LEASE ACREAGE 1305

LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Devenian Shale ESTIMATED DEPTH 5220'
 WELL OPERATOR Sigma Corporation DESIGNATED AGENT R. Thomas Hansen
 ADDRESS P. O. Box 310 Pineville, W.V. 24874 ADDRESS P. O. Box 310 Pineville, W.V. 24874

FORM WV-6

COUNTY NAME PERMIT

11/15/2024



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Hillebert

WELL RECORD

Permit No. LOG-335

Oil or Gas Well Gas
(KIND)

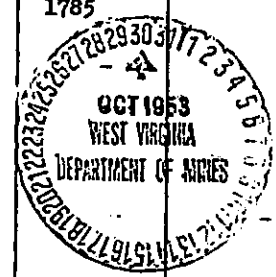
Company Home Natural Gas Company
Address 145 West Main St. Clarksburg, W. Va.
Farm Lucille Aldredge Acres 1305
Location (waters) _____
Well No. 9793 Elev. 1004'
District ENEK Triadelphia County Logan
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced 7-10-53
Drilling completed 9-28-53
Date Shot 9-29-53 From 3154 To 3164
With 150 Qts Glycerine
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 57 M Cu. Ft.
Rock Pressure 330# lbs. hrs.
Oil None recorded bbls., 1st 24 hrs.
Fresh water 134 feet
Salt water 1163 feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
18			Kind of Packer
13	15	15	
10	360	360	Size of
8 1/4	1604	1604	
6 3/8	2240	2240	Depth set
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
7" casing set in 10 Bags Gel & 12 Bags Cement
COAL WAS ENCOUNTERED AT 133 FEET 2 1/2 INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth Found	Remarks
Surface			0	7			
Sand			7	50			
Slate			50	94			
Lime			94	120			
Slate			120	133			
Coal			133	135	Water	134	Fresh
Sand			135	180			
Slate			180	204			
Sand			204	265			
Slate			265	320			
Sand			320	395			
Slate & Shells			395	486			
Sand (broken)			486	693			
Slate			693	745			
Sand			745	1072			
Slate			1072	1078			
Sand			1078	1119			
Slate			1119	1127			
Sand			1127	1365	Water	1163	Salt
Slate			1365	1370			
Sand			1370	1383			
Slate & Shells			1383	1415			
Lime			1415	1435			
Sand & lime			1435	1534			
Sand			1534	1553			
Lime			1553	1574			
Sand			1574	1808	Water	1785	
Slate			1808	1827			
Red Rock			1827	1830			
Lime			1830	1865			
MAXON			1865	1886			
Red Rock			1886	1890			
Lime			1890	2078			
Red Rock			2078	2081			
Lime			2081	2114			
LOWER MAXON			2114	2125			
Slate			2125	2169			
Little Lime			2169	2212			

Office of the State Geologist
OCT 30 2024
WV Department of Environmental Protection



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
BIG LIME			2212	2570	Gas	2353 - 58	& 2528 - 38
Red McCRADY			2570	2625			
Lime			2625	2713			
WEIR			2713	2780			
Slate shells			2780	3120			
Brown Shale			3120	3133			
BEREA SAND			3133	3164	Gas	3137 - 40	
Slate			3164	3185			
Total Depth				3185'			

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Date October 28, 19 52

APPROVED None Natural Gas Company, Owner

By B. R. NUZUM

(Title)

Jacob G. Jolley

11/15/2024

WR-35
Rev (5-01)

DATE: March 6, 2006
API #: 047--045-00335DD

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: ALDREDGE
MIKE ROSS / I.L. MORRIS Operator Well No.: #1 ALDREDGE
LOCATION: Elevation: 1006 Quadrangle: MALLORY
District: TRIADELPHIA County: LOGAN
Latitude: 7651 Feet South of 37 Deg. 42 Min. 30 Sec.
Longitude 11956 Feet West of 81 Deg. 47 Min. 30 Sec.

Company: SIGMA CORPORATION

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>P O BOX 310</u>				
<u>PINEVILLE, WV 24874</u>	<u>13"</u>	<u>15</u>	<u>15</u>	
Agent: <u>R. THOMAS HANSEN</u>	<u>10"</u>	<u>360</u>	<u>360</u>	
Inspector: <u>RALPH TRIPLETT</u>	<u>8-1/4"</u>	<u>1604</u>	<u>1604</u>	
Date Permit Issued: <u>10/20/05</u>	<u>6-5/8"</u>	<u>2240</u>	<u>2240</u>	
Date Well Work Commenced: <u>01/28/06</u>	<u>4-1/2"</u>	<u>5231</u>	<u>5231</u>	<u>367 cuft</u>
Date Well Work Completed:				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Depth (feet): <u>5220</u>				
Fresh Water Depth (ft.): <u>SEE ORIGINAL REPORT</u>				
Salt Water Depth (ft.): <u>SEE ORIGINAL REPORT</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>SEE ORIGINAL REPORT</u>				

OPEN FLOW DATA

Producing formation DEVONIAN SHALE Pay zone depth (ft) 4416-5186
Gas: Initial open flow N/A MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 240 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 72 Hours
Static rock Pressure 720 psig (surface pressure) after 48 Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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

Signed: [Signature]
By: R. Thomas Hansen
Date: 3/6/06

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MAR 08 2006
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11/15/2024

TOP	BOTTOM	FORMATION	SHOWS
2874	3100	POCONO	
3100	3128	COFFEE SHALE	
3128	3159	BEREA Ss	GAS-SHOW
3159	4190	UPPER DEVONIAN SHALE	
4190	4643	LOWER HURON	GAS-SHOW
4643	4987	SHALE	
4987	5220	RHINESTREET SHALE	GAS-SHOW
5220		TD	

COMPLETION:

PERFORATED 42 HOLES 4415 - 5181
TREATED 1.7. MMSCF N₂

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11/15/2024

26

Form: WW - 2B

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

45-00335-D

1) Well Operator SIGMA CORPORATION

45055	045	Triadelp	Mallory
Operator ID	County	District	Quadrangle

2) Operator's Well Number: ALDREDGE #1 3) Elevation: 1004'

4) Well Type: (a) Oil _____ or Gas X
(b) If Gas: Production X / Underground Storage _____
Deep _____ / Shallow X

5) Proposed Target Formation(s): DEVONIAN SHALE

6) Proposed Total Depth: 5220 Feet

7) Approximate fresh water strata depths: Original 134'

8) Approximate salt water depths: Original 1165', 1785'

9) Approximate coal seam depths: Original 133'(2)

10) Does land contain coal seams tributary to active mine? NO

11) Describe proposed well work Drill deeper - solidify Berea and drill to the base of the Devonian Shale. Open hole log 0 case (4-1/2"), Perforate and stimulate

12) CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	
Conductor	13-3/8"				15'	
Fresh Water	10-3/4"				360'	
Coal						
Intermediate	7				2260'	
Production	4-1/2"			5220'	5220'	200
Tubing						
Liners						

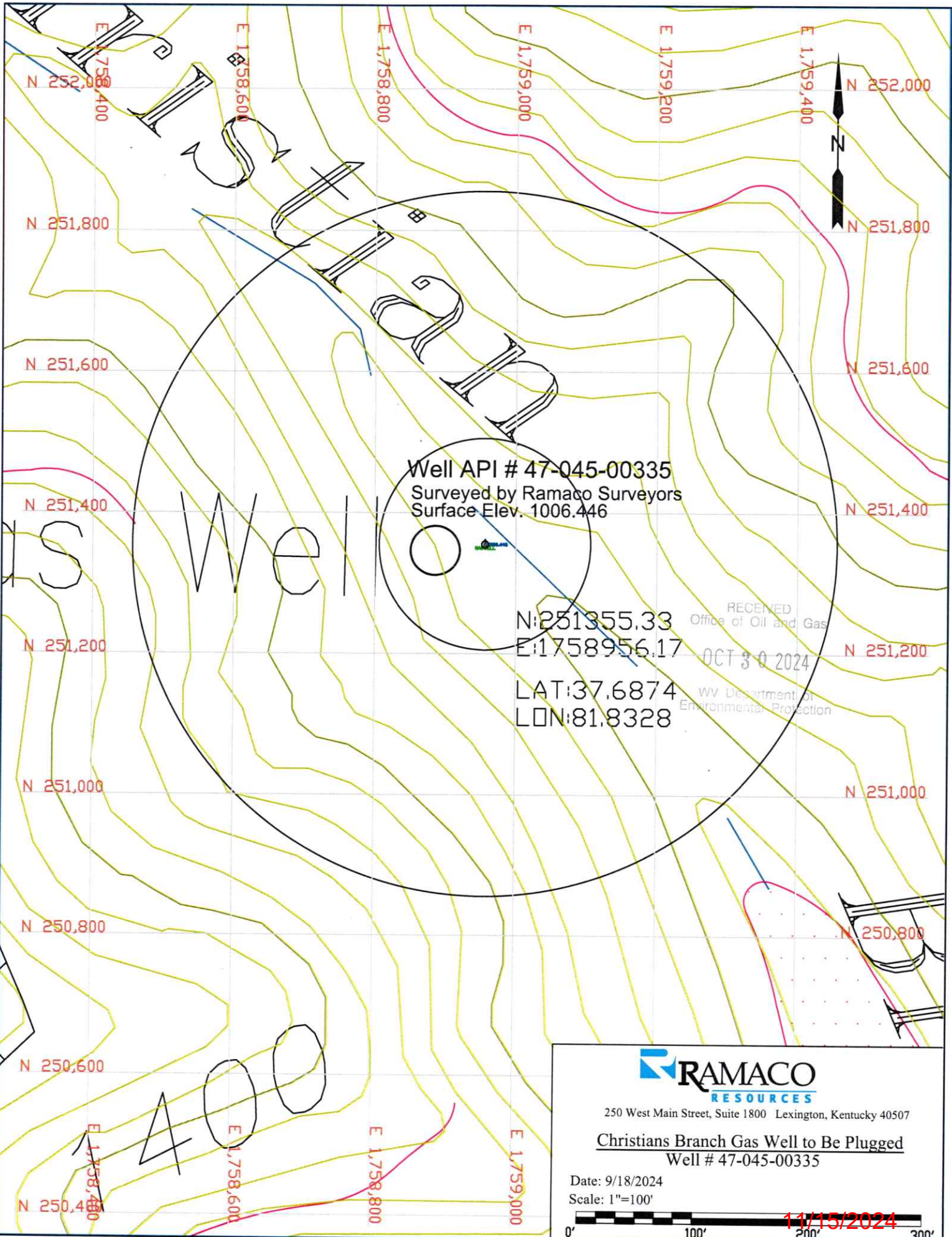
Packers: Kind _____
Sizes _____
Depths Set _____

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Office of Chief
OCT 04 2005
WV Department of
Environmental Protection

OK
per
Ralph
10-20-05

OK# 5935
650.-

11/15/2024



Well API # 47-045-00335
Surveyed by Ramaco Surveyors
Surface Elev. 1006.446

N:251355.33
E:1758956.17
LAT:37.6874
LON:-81.8328

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WV Department of
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250 West Main Street, Suite 1800 Lexington, Kentucky 40507

Christians Branch Gas Well to Be Plugged
Well # 47-045-00335

Date: 9/18/2024
Scale: 1"=100'



11/15/2024

Plugging Prognosis

API #: 47-045-00335

West Virginia, Logan County

Lat/Long - 37.687435, -81.833062

Quadrangle 15 - Gilbert

Nearest ER: Logan Regional Medical Center-Emergency Room - 20 Hospital Dr, Logan, WV 25601

The well was originally drilled in 1953 to a TD of 3185'. Drilled deeper in 2006.

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- Coal: 133'-135'
- Mine: None Reported
- Elevation: 1006'

1. Notify county inspector Christian Porter at 304-541-0079 at least 48 hrs prior to moving on location.
2. Check and record pressures on csg/tbg.
3. Pump 6% Bentonite Gel between each plug.
4. If necessary, blow down and kill well with fluid.
5. Run CBL on 4-1/2" csg. Record TOC for later use.
6. TIH w/ tbg to 5210'. Pump 10 bbl 6% bentonite gel.
7. Pump 1070' Class L cement plug from 5210' to 4140' (Bottom/Completion Plug - Rhinestreet & Lower Huron). 68 sks @ 1.14 yield. WOC. Tag plug. Top off as needed. Do not omit any plugs listed below. Perforate as needed. Break into multiple plugs as needed.
8. TOOH w/ tbg to 4140'. Pump 6% bentonite gel spacer from 4365' to 3214'.
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- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

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- 9.
- 10.
- 11.

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- 12. Rip/Shoot 4-1/2" csg above free point.
- 13. TOOH w/ 4-1/2" csg, laying down.
- 14. Free point 6-5/8" csg.
- 15. Rip/Shoot 6-5/8" csg above free point.
- 16. TOOH w/ 6-5/8" csg, laying down.
- 17. TIH w/ tbg to 50' below 4-1/2" csg cut point.
- 18. Pump 100' Class L cement plug 50' in/out of 4-1/2" csg cut.
- 19. Pump 100' Class L cement plug 50' in/out of 6-5/8" csg cut.
- 20. TOOH w/ tbg to top of csg cut plug. Pump 6% bentonite gel spacer to 1835'.
- 21. TOOH w/ tbg to 1835'. Pump 100' Class L cement plug from 1835' to 1735' (Saltwater Show). 19 sks @ 1.14 yield. WOC. Tag plug. Top off as needed. Do not omit any plugs listed below. Perforate as needed.
- 22. TOOH w/ tbg to 1735'. Pump 6% bentonite gel spacer from 1735' to 1654'.
- 23. TOOH w/ tbg to 1654'. Pump 100' Class L cement plug from 1654' to 1554' (8-1/4" Csg Shoe Plug). 43 sks @ 1.14 yield. WOC. Tag plug. Top off as needed. Do not omit any plugs listed below. Perforate as needed.
- 24. TOOH w/ tbg to 1554'. Pump 6% bentonite gel spacer from 1554' to 1213'.
- 25. TOOH w/ tbg to 1213'. Pump 257' Class L cement plug from 1213' to 956' (Saltwater Show and Elevation Plug). 111 sks @ 1.14 yield. WOC. Tag plug. Top off as needed. Do not omit any plugs listed below. Perforate as needed.
- 26. TOOH w/ tbg to 956'. Pump 6% bentonite gel spacer from 956' to 410'.
- 27. TOOH w/ tbg to 410'. Pump 100' Class L cement plug from 410' to 310' (10" Csg Shoe Plug). 43 sks @ 1.14 yield. WOC. Tag plug. Top off as needed. Do not omit any plugs listed below. Perforate as needed.
- 28. Free point 10" csg.
- 29. Rip/Shoot 10" csg above free point.
- 30. TOOH w/ 10" csg, laying down.
- 31. Pump 100' Class L cement plug 50' in/out of 10" csg cut.
- 32. TOOH to top of 10" csg cut plug. Pump 6% bentonite gel spacer from top of 10" csg cut plug to 185'.
- 33. TOOH w/ tbg to 185'.

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AP

11/15/2024

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33. Pump 185' *Expanding Class L* cement plug from 185' to Surface (Coal, Fresh Water, 13" Csg Shoe and Surface Plug). 133 sks @ 1.14 yield. WOC. Tag plug. Top off as needed.

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34. Reclaim location and well road to WV DEP specifications.

AD

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WW-4A
Revised 6-07

1) Date: 9/19/2024
2) Operator's Well Number Aldredge #1 _____

3) API Well No.: 47 - 045 - 00335

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

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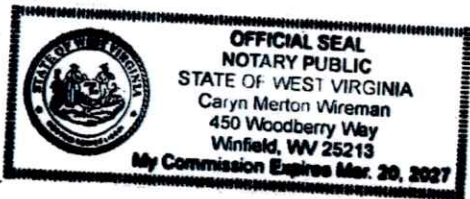
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Ramaco Central Appalachia, LLC</u>	Name _____
Address <u>1675 South State St. Ste B</u>	Address _____
<u>Dover, DE 19901</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Miller Systems, Inc.</u>
	Address <u>2 Hale St.</u>
	<u>Charleston, WV 25301</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Christian Porter</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 181</u>	Name <u>Ramaco Central Appalachia, LLC</u>
<u>Holden, WV 25625</u>	Address <u>1675 South State St. Ste B</u>
Telephone <u>(304) 541-0079</u>	<u>Dover, DE 19901</u>

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

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

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator Ramaco Resources, LLC
 By: Jason P. Bragg
 Its: VP - Land
 Address 300 Kanawha Blvd. East Ste 320
Charleston, WV 25301
 Telephone (304) 550-3394

Subscribed and sworn before me this 24th day of September, 2024

Notary Public

My Commission Expires March 20, 2027

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

11/15/2024

Diversified Gas & Oil Corporation
Permitting Department
414 SUMMERS STREET
2ND. FLOOR
CHARLESTON WV 25301

US POSTAGE AND FEES PAID
2024-09-25
25301
C4000004
Retail
5.0 OZFLAT
0901000010754



USPS CERTIFIED MAIL™



9407 1362 0855 1012 2407 96



RAMACO CENTRAL APPALACHIA LLC
1675 S STATE ST STE B
DOVER DE 19901-5140

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OCT 30 2024

WV Department of
Environmental Protection

11/15/2024

9/25/24, 9:44 AM

SCM

11/15/2024

Diversified Gas & Oil Corporation
Permitting Department
414 SUMMERS STREET
2ND. FLOOR
CHARLESTON WV 25301

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MILLER SYSTEMS INC
2 HALE ST STE 300A
CHARLESTON WV 25301-2834

9407 1362 0855 1012 2302 23



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easypost



SURFACE OWNER WAIVER

Operator's Well
Number

Aldredge #1

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

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WV Department of
Environmental Protection

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

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

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

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

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

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION,


Signature

Date 9/24/24

Name
By
Its

Jason P. Bragg
RAMACO CENTRAL APPALACHIAN, LLC
VICE PRESIDENT Date 9/24/24

Signature

Date

11/15/2024

WW-4B

API No.	<u>4704500335</u>
Farm Name	<u>Aldredge, Mike Ross, I.L. Morris</u>
Well No.	<u>Aldredge #1</u>

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**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

OCT 30 2024

WV Department of
Environmental Protection

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____

By: _____

Its _____

11/15/2024

WW-9
(5/16)

API Number 47 - 045 - 00335
Operator's Well No. Aldridge #1

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

Operator Name: Panamo Resources, LLC OP Code _____

Watershed (HUC 10) Christian Branch of Elk Creek Quadrangle Mallory 7.5'

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: Production fluid and cement returns.

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 20

Proposed Disposal Method For Treated Pit Wastes:

- _____ Land Application (if selected provide a completed form WW-9-GPP)
- * Underground Injection (UIC Permit Number 2D03902327 002
- _____ Reuse (at API Number _____)
- _____ Off Site Disposal (Supply form WW-9 for disposal location)
- _____ Other (Explain _____)

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WV Department of Environmental Protection

Will closed loop system be used? If so, describe: N/A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A

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

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

-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) Jason P. Bragg

Company Official Title VP - Land

Subscribed and sworn before me this 24th day of September, 20 24

Notary Public

My commission expires March 30, 2027



Proposed Revegetation Treatment: Acres Disturbed +/- 1 ac. Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or Equivalent

Fertilizer amount TBD lbs/acre

Mulch 2 Tons/acre

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Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike	5	Alsike Clover	5
Annual Rye	15		

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: [Signature]

Comments: Operator to cover with cement all fractures including oil, gas including salt, cleat, and fresh water.

Title: [Signature] Date: 10-25-24

Field Reviewed? () Yes () No



DIVERSIFIED
energy

Date: 9/19/2024

James Martin
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
(304)926-0450

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WV Department of
Environmental Protection

Mr. Martin,

Due to our cement provider, LaFarge Holcem, discontinuing the manufacturing of Class A cement, DGOC will be utilizing Class L cement to plug the following well:

API Number 4704500335 Well Name Aldredge #1

Attached is the approved variance order for use of Class L cement.

Sincerely,

Chris Veazey
Permitting Supervisor
304-590-7707



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
Phone (304) 926-0450

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

**BEFORE THE OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA**

**IN THE MATTER OF A VARIANCE FROM)
LEGISLATIVE RULE 35CSR4)
SECTION 14.1. AND LEGISLATIVE RULE)
35CSR8 SECTION 20.1,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

ORDER NO. 2022-13

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WV Department of
Environmental Protection

REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well plugging.

FINDINGS OF FACT

1. On July 28, 2022, Diversified Gas & Oil Co. (DGO) submitted a variance request from Legislative Rule 35CSR4 for the use of API Class L cement in place of API Class A cement, relating to the plugging of conventional wells.
2. Laboratory analysis submitted by DGO on July 28, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR8 Section 20.1., for the use of API Class L cement in place of API Class A cement, relating to the plugging of horizontal wells.

Promoting a healthy environment.

11/15/2024

4. On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogrammed by API is approved for use in place of API Class A cement for well plugging subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief
Office of Oil and Gas

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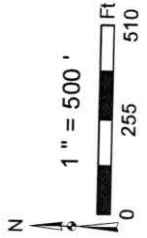
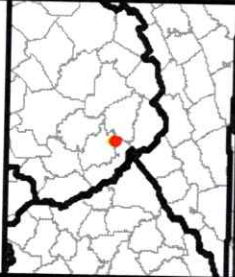
47-045-00335
Surveyed by
Ramaco Surveyors
Surface Elev: 1006.446

Well Plugging Map

Legend

- Well
- Access Road
- Pits
- Pad
- Public Roads

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WV Department of
Environmental Protection



Well No.: 47-045-00335
UTM83-17 Meters
North: 1758956.17
East: 251355.33
Elev.: 335.48 M
Elev.: 1100.38 Ft

Cass Well

Tank

323

WV Turnpike

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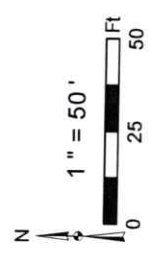
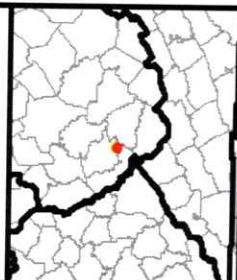
47-045-00335
Surveyed by
Ramaco Surveyors
Surface Elev: 1006.446

Well Plugging Map

Legend

- Well
- Access Road
- Pits
- Pad
- Public Roads

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Well No.: 47-045-00335
UTM 83-17, Meters
North: 1758956.17
East: 251355.33
Elev.: 335.48 M
Elev.: 1100.38 FT

Primary Pit

Secondary Pit

Source: Esri, DeLorme, Earthstar Geographics, and the GIS User Community

11/15/2024

WW-7
8-30-06

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OCT 30 2024

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

API: 4704500335 WELL NO.: Aldredge #1

FARM NAME: Aldredge, Mike Ross, I.L. Morris

RESPONSIBLE PARTY NAME: Diversified Production, LLC

COUNTY: Logan DISTRICT: Triadelphia

QUADRANGLE: Mallory 7.5'

SURFACE OWNER: Ramaco Central Appalachia, LLC

ROYALTY OWNER: Mike Ross, Inc.

UTM GPS NORTHING: 1758956.17

UTM GPS EASTING: 251355.33 GPS ELEVATION: 1100.38'

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 : Post Processed Differential
Real-Time Differential
Mapping Grade GPS : Post Processed Differential
Real-Time Differential

4. Letter size copy of the topography map showing the well location.
I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.


Signature

Jason P. Bragg - VP Land
Title

9/24/24
Date

11/15/2024

11/10/2016

PLUGGING PERMIT CHECKLIST
4704500335

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Office of Oil and Gas

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WV Department of
Environmental Protection

Plugging Permit

- WW-4B
- WW-4B signed by inspector
- WW-4A

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

11/15/2024



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

plugging permit issued 4704500335

2 messages

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


Wed, Nov 6, 2024 at 11:15 AM

To: Nicholas Bumgardner <nbumgardner@dgoc.com>, Alvis C Porter <alvis.c.porter@wv.gov>, gadkins@wvassessor.com

To whom it may concern, a plugging permit has been issued for 4704500335.

James Kennedy

WVDEP OOG

 **4704500335.pdf**
4503K

Nicholas Bumgardner <nbumgardner@dgoc.com>

Wed, Nov 6, 2024 at 11:23 AM

To: "Kennedy, James P" <james.p.kennedy@wv.gov>, Alvis C Porter <alvis.c.porter@wv.gov>, "gadkins@wvassessor.com" <gadkins@wvassessor.com>

Thank you James, we and our rig crew appreciate it.

Thanks,

Nick Bumgardner

Permitting Supervisor - Diversified Energy

Nbumgardner@dgoc.com

304-545-4848 – Cell

[Quoted text hidden]

11/15/2024