



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

Tuesday, June 7, 2022
WELL WORK PLUGGING PERMIT
Vertical Plugging

ROSS AND WHARTON GAS COMPANY, INC.
354 MORTON AVE.
BUCKHANNON, WV 26201

Re: Permit approval for FINDLEY 1
47-091-00453-00-00

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: FINDLEY 1
Farm Name: FINDLEY, HAL S.
U.S. WELL NUMBER: 47-091-00453-00-00
Vertical Plugging
Date Issued: 6/7/2022

Promoting a healthy environment.

06/10/2022

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.

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 X

5) Location: Elevation 1502' Watershed Buck Run
District Flemington County Taylor Quadrangle Grafton

6) Well Operator Ross & Wharton Gas Co. 7) Designated Agent Mike Ross
Address P.O. Box 219 Address P.O. Box 219
Coalton, WV 26257 Coalton, WV 26257

8) Oil and Gas Inspector to be notified Name Kenneth Greynolds
Address 613 Rod Run Road
Jane Lew WV 26378
9) Plugging Contractor Name N/A
Address

- 10) Work Order: The work order for the manner of plugging this well is as follows:
- Free point and recover casing's & tubular's, 6% Gel between plug's
 - PULL 2 1/2" TUBING
 - PLACE GEL FROM BOTTOM OF WELL TO ABOUT 20' ABOVE PERFORATIONS
 - SET 100' OF EXPANDING CEMENT FROM 2671' TO 2571'. SPOT GEL TO 2200'
 - Set 100' cement plug across casing cut \approx 2200' (EXPANDING CEMENT) 2250' - 2150'
 - GEL FROM \approx 2150' TO 1390'. SET 200' EXPANDING CEMENT PLUG FROM 1390' TO 1190'
 - GEL FROM 1190' TO 100'
 - Set surface plug 100' to 0', Tag plug's as necessary, Set monument with API number

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★ 22-6-24 REQUIRES THE USE OF EXPANDING CEMENT
WHERE THE WELL PENETRATES WORKABLE COAL.
COAL FROM 728 TO 734 FT JWM

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

Work order approved by inspector Kenneth Greynolds Digitally signed by: Kenneth Greynolds
DN, CN = Kenneth Greynolds email = Kenneth.L.Greynolds@wv.gov C = AD O = WVDEP OU = Oil and Gas Date: 2022.04.21 08:08:05 -0400 Date

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IV-35
(Rev 8-81)

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AUG 30 1985



State of West Virginia
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
Department of Mines
Oil and Gas Division

Date June 20, 1985
Operator's
Well No. FINLEY #1
Farm H. S. Findley
API No. 47 - 091 - 0453

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

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal
(If "Gas," Production / Underground Storage / Deep / Shallow)
LOCATION: Elevation: 1502' Watershed Buck Run
District: Flemington County Taylor Quadrangle Grafton 7.5'

COMPANY Eastern American Energy Corporation
ADDRESS P.O. Box N, Glenville, WV 26351
DESIGNATED AGENT Donald C. Suppe
ADDRESS P.O. Box N, Glenville, WV 26351
SURFACE OWNER Hal S. Findley
ADDRESS RD #1, Box 42, Flemington, WV 26347
MINERAL RIGHTS OWNER Hal S. Findley
ADDRESS RD #1, Box 42, Flemington, WV 26347
OIL AND GAS INSPECTOR FOR THIS WORK
Donald Ellis ADDRESS 2604 Crab Apple Lane
Fairmont, WV 26554
PERMIT ISSUED 1-3-85
DRILLING COMMENCED 1-25-85
DRILLING COMPLETED 4-19-85

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1290	1290	Surface
7			
5 1/2			
4 1/2	2864	2864	106 ³ /ft.
3			
2 1/4		2650	
Liners used			

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

GEOLOGICAL TARGET FORMATION Fifth Sand Depth 2800 feet
Depth of completed well 2885 feet Rotary / Cable Tools _____
Water strata depths: Fresh — feet; Salt — feet
Coal seam depths: — Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Fifth Sand Pay zone depth 2691 - 2710 feet
Gas: Initial open flow 3,000 Mcf/d Oil: Initial open flow N/A Bbl/d
Final open flow 94,000 Mcf/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 680 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 4 psig (surface measurement) after _____ hours shut in

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0453

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

Perforate 16 -- 0.41" holes from 2691' to 2710'.

Frac with 40,000 lbs. of 20/40 sand.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Shale			0	25	
Sand & Shale			25	280	
Sand, Shale & Redrock			280	1500	Top of E Log @ 1500'
Shale			1500	1718	
Big Lime			1718	1824	
Big Injun			1824	1895	
Shale			1895	2682	
5th Sand			2682	2717	
Shale			2717	2795	
Bayard			2795	2808	
Shale			2800	2885	
		T.D.	2885		

Coal 728' to 734'

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(Attach separate sheets as necessary)

EASTERN AMERICAN ENERGY CORPORATION
Well Operator

By: Rich Helleof District Operations Mgr.

Date: 6/20/85

Note: Regulation 8.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including those encountered in the drilling of a well."

DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

47 010453
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MAR 5 - 1985

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 2910453

Oil or Gas Well _____
(KIND)

Company <u>Carter America Energy</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address <u>Blumville, W.V.</u>	Size		
Farm <u>Findley</u>	16			
Well No. <u>1</u>	13			
District <u>Flamington</u> County <u>Taylor</u>	10			Size of _____
Drilling commenced <u>1-30-85</u>	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	8 1/2			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.				
Oil _____ bbls., 1st 24 hrs.				
Fresh water _____ feet _____ feet				
Salt water _____ feet _____ feet				

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT 728 FEET 734 FT FEET

_____ FEET _____ INCHES _____ FEET _____ INCHES

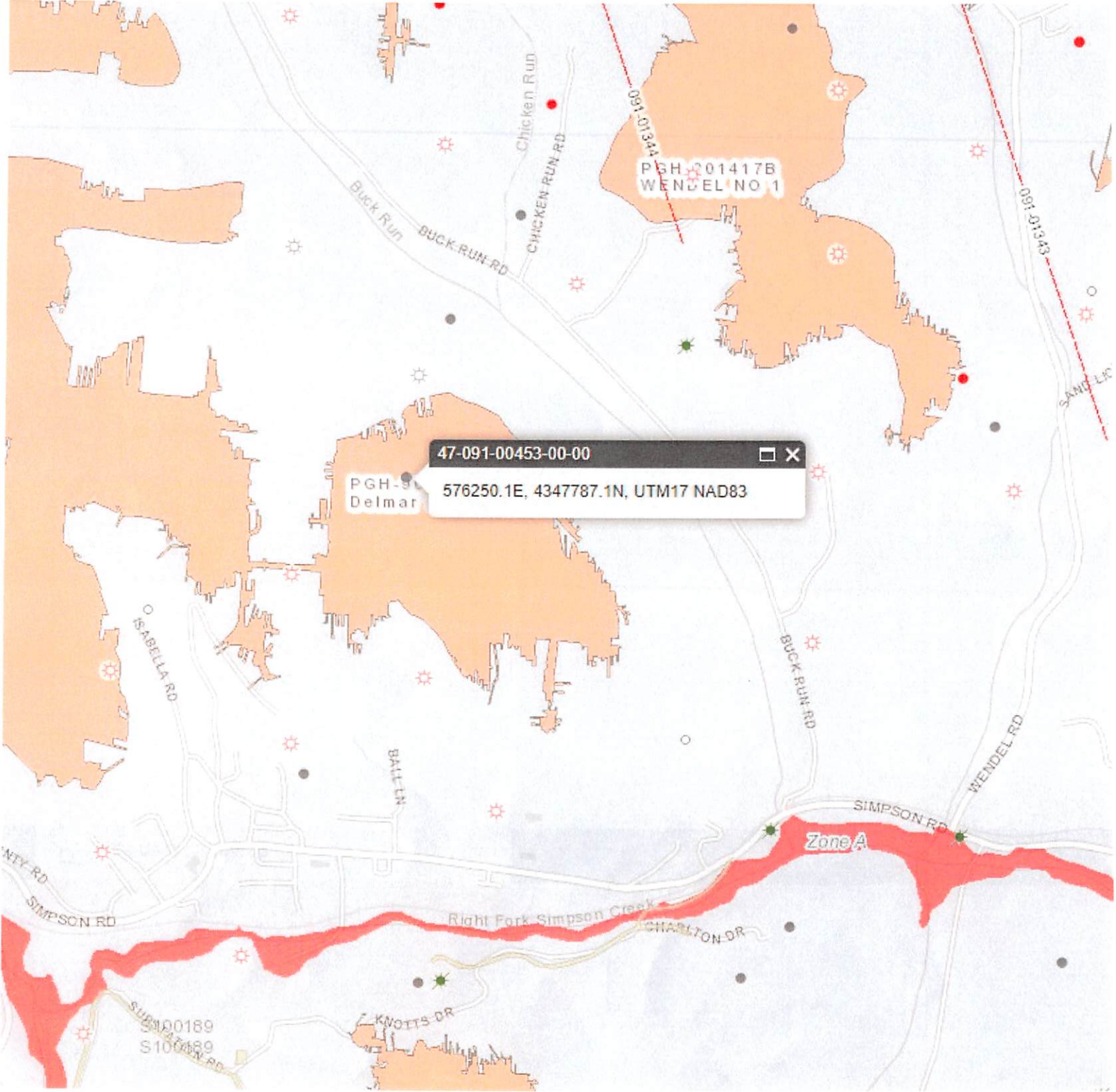
_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names J.H. KICK TONT Brock #1

Remarks Only 938

2-28-85
DATE

[Signature]
DISTRICT WELL INSPECTOR

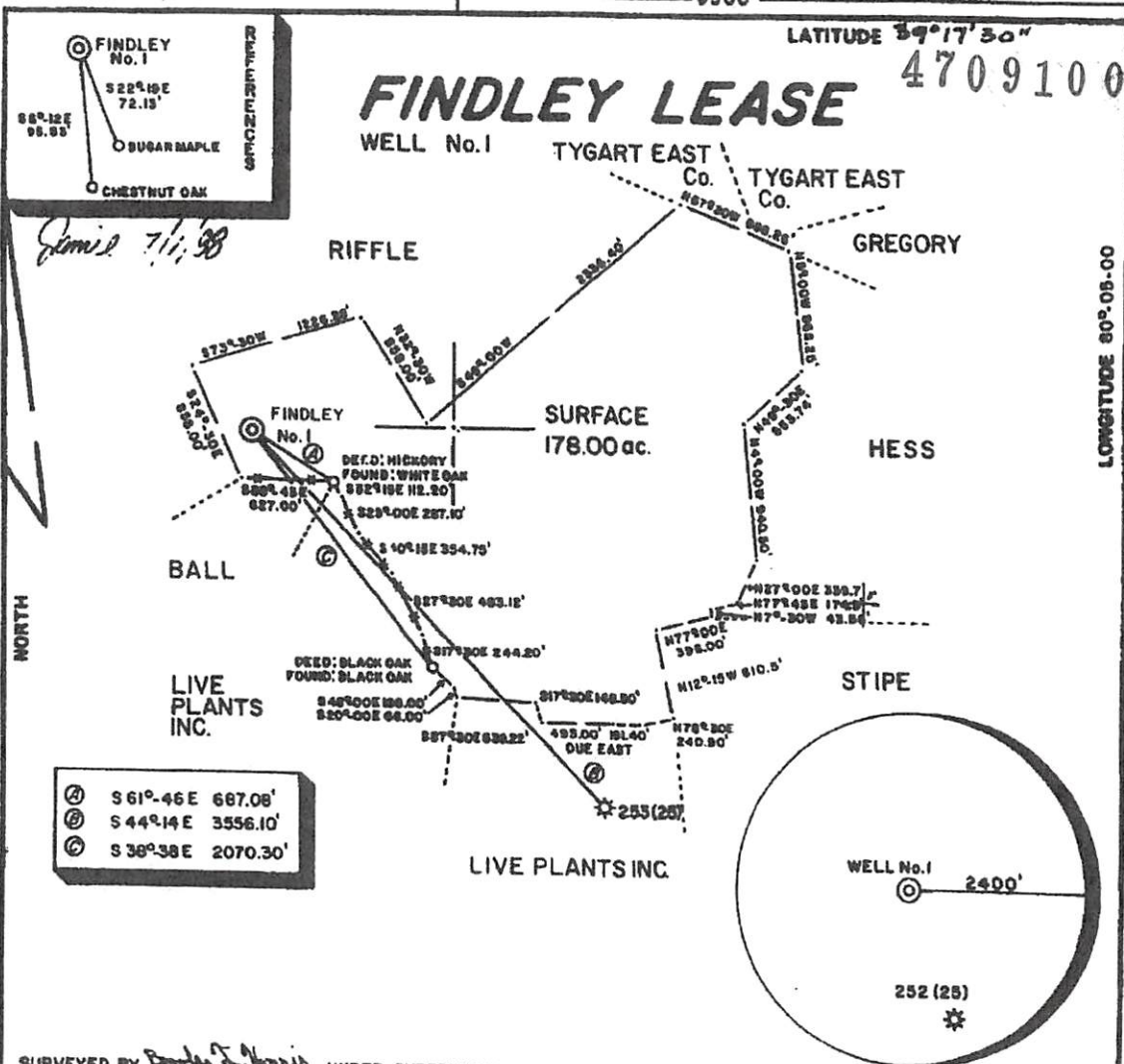


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Type here to search





SURVEYED BY Donald J. Hornish UNDER SUPERVISION OF M.H. HORNISH

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION SPOT ELEV. at top of KNOB. ELEV. = 1628'

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 MINES.
(SIGNED) Mark A. Hornish 11/30/94
R.P.E. _____ L.L.S. 765

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APR 27 2022
WV Department of Environmental Protection

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
FORM IV-6 (8-78)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE November 30, 1994
OPERATOR'S WELL NO. Findley No. 1
API WELL NO. _____
47-091-0453-P
STATE COUNTY PERMIT
Plugging Cancelled

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
LOCATION: ELEVATION 1502' WATER SHED BUCKRUM
DISTRICT FLEMINGTON COUNTY TAYLOR
QUADRANGLE GRAFTON 7.5"
SURFACE OWNER HAL SPINGER FINDLEY ACREAGE 178.00
OIL & GAS ROYALTY OWNER HAL S. FINDLEY LEASE NO. _____ LEASE ACREAGE 181.00
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 5th SAND ESTIMATED DEPTH 2800'
WELL OPERATOR EASTERN AMERICAN ENERGY DESIGNATED AGENT Mr. DONALD SUPCOE
ADDRESS P.O. BOX "N", GLENVILLE, W.Va. ADDRESS P.O. BOX "N", GLENVILLE, W.Va.

TAY 0453-P CANC.

4709100453P

WW-4A
Revised 6-07

1) Date: April 12, 2022
2) Operator's Well Number
H.S. Findley #1
3) API Well No.: 47 - 091 - 00453

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name Jennie Anita Findley	Name N/A
Address 530 Buck Run Flemington, WV 26347	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name N/A
(c) Name _____	Address _____
Address _____	Name _____
Address _____	Address _____
6) Inspector Kenneth Graynolds	(c) Coal Lessee with Declaration
Address 613 Red Run Road	Name N/A
Telephone Jane Lew WV 26378	Address _____
Telephone 1-304-266-4613	Address _____

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

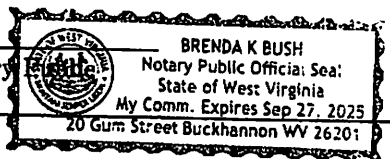
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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 Ross & Wharton Gas Co.
 By: [Signature]
 Its: President
 Address P.O. Box 219
 Coalton, WV 26257
 Telephone 1-304-472-4289

Subscribed and sworn before me this 19th day of April, 2022
Brenda K Bush
My Commission Expires September 27, 2025



Oil and Gas Privacy Notice

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

06/10/2022



7020 1810 0001 7331 2480



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

OFFICIAL USE

April 19, 2022

Certified Mail Fee	3.55	Postmark Here
Extra Services & Fees (check box, add fee as appropriate)		
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 4.85	
<input type="checkbox"/> Return Receipt (electronic)	\$	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$	
<input type="checkbox"/> Adult Signature Required	\$	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	
Postage	1.96	
Total Postage and Fees	8.36	

Sent to Jennie Anita Findley
 Street and Apt. No., or PO Box No. 530 Buck Run
 City, State, ZIP+4® Flemington WV 26341

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1810 0001 7331 2480

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front, if space permits.

1. Article Addressed to:

Jennie Anita Findley
 530 Buck Run
 Flemington WV 26347

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WV Department of Environmental Protection



9590 9402 7153 1251 0797 13

2. Article Number (transfer from service label)

7020 1810 0001 7331 2480

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee

X

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

Adult Signature
 Adult Signature Restricted Delivery
 Certified Mail®
 Certified Mail Restricted Delivery
 Collect on Delivery
 Collect on Delivery Restricted Delivery
 Insured Mail (over \$500)
 Priority Mail Express®
 Registered Mail™
 Registered Mail Restricted Delivery
 Signature Confirmation™
 Signature Confirmation Restricted Delivery

Domestic Return Receipt

4709100453P

06/10/2022

SURFACE OWNER WAIVER

4709100453P

Operator's Well
Number

47-091-00453 H.S. Findley #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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Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

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

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

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

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

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

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

06/10/2022

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

Operator Name Ross & Wharton Gas Co. OP Code 306580

Watershed (HUC 10) Buck Run Quadrangle Grafton

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

Will a pit be used? Yes No *ANY WELL EFFLUENT WILL BE CONTAINED IN TANKS BEFORE DISPOSING OFF-SITE*

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

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

Will closed loop system be used? If so, describe: _____

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

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

Additives to be used in drilling medium? _____

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

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

-Landfill or offsite name/permit number? _____

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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 *Mike Ross*

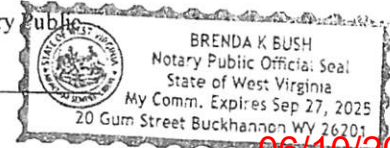
Company Official (Typed Name) Mike Ross

Company Official Title President

Subscribed and sworn before me this 19th day of April, 20 22

Brenda K Bush Notary Public

My commission expires September 27, 2025



06/10/2022

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
Fescue	30
Contractor's Mix	

Seed Type	lbs/acre
Fescue	30
Contractor's Mix	

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: Kenneth Greynolds

Digitally signed by: Kenneth Greynolds
DN: CN = Kenneth Greynolds, email = Kenneth.L.Greynolds@wv.gov
C = AD O = WVDEP OU = Oil and Gas
Date: 2022.04.21 08:08:45 -0400

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Comments: _____

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WV Department of
Environmental Protection

Title: _____

Date: _____

Field Reviewed? () Yes () No

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

Operator Name: Ross & Wharton Gas Co.
Watershed (HUC 10): Buck Run Quad: Grafton
Farm Name: _____

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

N/A

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

N/A

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

Buck Run

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

N/A

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

N/A

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

No material will be used

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

N/A

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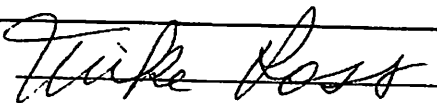
APR 27 2022

WV Department of
Environmental Protection

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

N/A

Signature:



Date:

April 19, 2022



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-091-00453 WELL NO.: 1

FARM NAME: H.S. Findley

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Taylor DISTRICT: Flemington

QUADRANGLE: Grafton

SURFACE OWNER: Jennie Anita Findley

ROYALTY OWNER: _____

UTM GPS NORTHING: 43477.886

UTM GPS EASTING: 57625.15 GPS ELEVATION: 1502'

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.

Mike Ross
Signature

President
Title

April 19, 2022
Date

RECEIVED
Office of Oil and Gas

APR 27 2022

WV Department of
Environmental Protection

4709100453P

Natalie Reeder

From: Natalie Reeder
Sent: Thursday, April 21, 2022 9:02 AM
To: 'Stansberry, Wade A'
Subject: H. S. Findley #1
Attachments: SKM_224e19031212540.pdf

Mr. Stansberry,

Attached is a plugging application for the H. S. Findley #1 well, API #47-091-0453, located in Taylor county.

I will put a hard copy in the mail to you today.

If you have any questions, please contact me.

Thank you.

From: bizhub@citynet.net <>
Sent: Tuesday, March 12, 2019 1:55 PM
To: nreeder@mikerossinc.com
Subject: Message from KM_224e

RECEIVED
Office of Oil and Gas
APR 27 2022
WV Department of
Environmental Protection

WEST VIRGINIA CODE

≡ MENU

NOTE HIGHLIGHTED AREAS

CHAPTER 22. ENVIRONMENTAL RESOURCES.

CHAPTER 22. ENVIRONMENTAL RESOURCES.

Article 5

All Articles

Article 6A

ARTICLE 6. OFFICE OF OIL AND GAS; OIL AND GAS WELLS;
ADMINISTRATION; ENFORCEMENT.

§22-6-24. Methods of plugging well.



Upon the abandonment or cessation of the operation of any well drilled for natural gas or petroleum, or drilled or converted for the introduction of pressure, whether liquid or gas, or for the introduction of liquid for the purposes provided for in section twenty-five of this article or for the disposal of pollutants or the effluent therefrom the well operator, at the time of such

water-bearing strata, as aforesaid, a cement plug shall be placed approximately ten feet below the bottom of the largest casing in the well; from this point to the surface the well shall be filled with mud, clay or other nonporous material, except that a final cement plug shall be installed from a point one hundred feet below the surface to the surface. In case any of the oil or gas-bearing strata in a well shall have been shot, thereby creating cavities which cannot readily be filled in the manner above described, the well operator shall follow either of the following methods:

(1) Should the stratum which has been shot be the lowest one in the well, there shall be placed, at the nearest suitable point, but not less than twenty feet above the stratum, a plug of cement or other suitable material which will completely seal the hole. In the event, however, that the shooting has been done above one or more oil or gas-bearing strata in the well, plugging in the manner specified shall be done at the nearest suitable point, but not less than twenty feet below and above the stratum shot; or

(2) When such cavity shall be in the lowest oil or gas-bearing stratum in the well, a liner shall be placed which shall extend

abandonment or cessation, shall fill and plug the well in the following manner:

(a) Where the well does not penetrate workable coal beds, it shall either be filled with mud, clay or other nonporous material from the bottom of the well to a point twenty feet above the top of its lowest oil, gas or water-bearing stratum; or a permanent bridge shall be anchored thirty feet below its lowest oil, gas or water-bearing stratum, and from such bridge it shall be filled with mud, clay or other nonporous material to a point twenty feet above such stratum; at this point there shall be placed a plug of cement or other suitable material which will completely seal the hole. Between this sealing plug and a point twenty feet above the next higher oil, gas or water-bearing stratum, the hole shall be filled, in the manner just described; and at such point there shall be placed another plug of cement or other suitable material which will completely seal the hole. In like manner the hole shall be filled and plugged, with reference to each of its oil, gas or water-bearing strata. However, whenever such strata are not widely separated and are free from water, they may be grouped and treated as a single sand, gas or petroleum horizon, and the aforesaid filling and plugging be performed as though there were but one horizon. After the plugging of all oil, gas or

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from below the stratum to a suitable point, but not less than twenty feet above the stratum in which shooting has been done. In the event, however, that the shooting has been done above one or more oil or gas-bearing strata in the well, the liner shall be so placed that it will extend not less than twenty feet above, nor less than twenty feet below, the stratum in which shooting has been done. Following the placing of the liner in the manner here specified it shall be compactly filled with cement, mud, clay or other nonporous sealing material.

(b) Where the well penetrates one or more workable coal beds and a coal protection string of casing has been circulated and cemented into the surface, the well shall be filled and securely plugged in the manner provided in subdivision (a) of this section, except that expanding cement shall be used instead of regular hydraulic cement, to a point approximately one hundred feet below the bottom of the coal protection string of casing. From ^{THIS} the point the well shall be plugged according to the provisions in paragraph (1) or (2) below:

(1) A two hundred foot plug of expanding cement shall be placed in the well. From this point, the well shall be filled with mud, clay or other nonporous material to a point one hundred

feet below the surface and a plug of cement shall be placed from the point one hundred feet below the surface to the surface with a monument installed therein extending thirty inches above ground level.

(2) A one hundred foot plug of expanding cement shall be placed in the well so that the top of such plug is located at a point just below the coal protection string of casing. After such plug has been securely placed in the well, the coal protection string of casing shall be emptied of liquid from the surface to a point one hundred feet below the lowest workable coal bed or to the bottom of the coal protection string of casing, whichever is shallower. A vent or other device approved by the secretary shall then be installed on the top of the coal protection string of casing in such a manner that will prevent liquids and solids from entering the well but will permit ready access to the full internal diameter of the coal protection string of casing when required. The coal protection string of casing and the vent or other device approved by the secretary shall extend, when finally in place, a distance of not less than thirty inches above ground level and shall be permanently marked with the well number assigned by the secretary;

(c) Where the well penetrates one or more workable coal beds and a coal protection string of casing has not been circulated and cemented into the surface, the well shall be filled and securely plugged in the manner provided in subsection (a) of this section to a point fifty feet below the lowest workable coal bed. Thereafter, a plug of cement shall be placed in the well at a point not less than forty feet below the lowest workable coal bed. After the cement plug has been securely placed in the well, the well shall be filled with cement to a point twenty feet above the lowest workable coal bed. From this point the well shall be filled with mud, clay or other nonporous material to a point forty feet beneath the next overlying workable coal bed, if such there be, and the well shall then be filled with cement from this point to a point twenty feet above such workable coal bed, and similarly, in case there are more overlying workable coal beds. After the filling and plugging of the well to a point above the highest workable coal bed, filling and plugging of the well shall continue in the manner provided in subsection (a) of this section to a point one hundred feet below the surface, and a plug of cement shall be installed from the point one hundred feet below the surface to the surface with a monument installed therein extending thirty inches above ground level;

(d)(1) Where the well penetrates one or more workable coal beds and a coal protection string of casing has not been circulated and cemented into the surface, a coal operator or coal seam owner may request that the well be plugged in the manner provided in subdivision (3) of this subsection rather than by the method provided in subsection (c) of this section. Such request (forms for which shall be provided by the secretary) must be filed in writing with the secretary prior to the scheduled plugging of the well, and must include the number of the well to be plugged and the name and address of the well operator. At the time such request is filed with the secretary, a copy of such request must also be mailed by registered or certified mail to the well operator named in the request.

(2) Upon receipt of such request, the secretary shall issue an order staying the plugging of the well and shall promptly determine the cost of plugging the well in the manner provided in subdivision (3) of this subsection and the cost of plugging the well in the manner provided in subsection (c) of this section. In making such determination, the secretary shall take into consideration any agreement previously made between the well operator and the coal operator or coal seam owner making the request. If the secretary determines that the cost of plugging

the well in the manner provided in subsection (c) of this section exceeds the cost of plugging the well in the manner provided in subdivision (3) of this subsection, the secretary shall grant the request of the coal operator or owner and shall issue an order requiring the well operator to plug the well in the manner provided in subdivision (3) of this subsection. If the secretary determines that the cost of plugging the well in the manner provided in subsection (c) of this section is less than the cost of plugging the well in the manner provided in subdivision (3) of this subsection, the secretary shall request payment into escrow of the difference between the determined costs by the coal operator or coal seam owner making the request. Upon receipt of satisfactory notice of such payment, or upon receipt of notice that the well operator has waived such payment, the secretary shall grant the request of the coal operator or coal seam owner and shall issue an order requiring the well operator to plug the well in the manner provided in subdivision (3) of this subsection. If satisfactory notice of payment into escrow, or notice that the well operator has waived such payment, is not received by the secretary within fifteen days after the request for payment into escrow, the secretary shall issue an order permitting the plugging of the well in the manner provided in subsection (c) of this section. Copies of all orders issued by the

secretary shall be sent by registered or certified mail to the coal operator or coal seam owner making the request and to the well operator. When the escrow agent has received certification from the secretary of the satisfactory completion of the plugging work and the reimbursable extra cost thereof (that is, the difference between the secretary's determination of plugging cost in the manner provided in subsection (c) of this section and the well operator's actual plugging cost in the manner provided in subdivision (3) of this subsection), the escrow agent shall pay the reimbursable sum to the well operator or the well operator's nominee from the payment into escrow to the extent available. The amount by which the payment into escrow exceeds the reimbursable sum plus the escrow agent's fee, if any, shall be repaid to the coal owner. If the amount paid to the well operator or the well operator's nominee is less than the actual reimbursable sum, the escrow agent shall inform the coal owner, who shall pay the deficiency to the well operator or the well operator's nominee within thirty days. If the coal operator breaches this duty to pay the deficiency, the well operator shall have a right of action and be entitled to recover damages as if for wrongful conversion of personality, and reasonable attorney fees.

(3) Where a request of a coal operator or coal seam owner filed pursuant to subdivision (1) of this subsection has been granted by the secretary, the well shall be plugged in the manner provided in subsection (a) of this section, except that expanding cement shall be used instead of regular hydraulic cement, to a point approximately two hundred feet below the lowest workable coal bed. A one hundred foot plug of expanding cement shall then be placed in the well beginning at the point approximately two hundred feet below the lowest workable coal bed and extending to a point approximately one hundred feet below the lowest workable coal bed. A string of casing with an outside diameter no less than four and one-half inches shall then be run into the well to a point approximately one hundred feet below the lowest workable coal bed and such string of casing shall be circulated and cemented into the surface. The casing shall then be emptied of liquid from a point approximately one hundred feet below the lowest workable coal bed to the surface, and a vent or other device approved by the secretary shall be installed on the top of the string of casing in such a manner that it will prevent liquids and solids from entering the well but will permit ready access to the full internal diameter of the coal protection string of casing when required. The string of casing and the vent or other device approved by

the secretary shall extend, when finally in place, a distance of no less than thirty inches above ground level and shall be permanently marked with the well number assigned by the secretary. Notwithstanding the foregoing provisions of this subdivision, if under particular circumstances a different method of plugging is required to obtain the approval of another governmental agency for the safe mining through of said well, the secretary may approve such different method of plugging if he or she finds the same to be as safe for mining through and otherwise adequate to prevent gas or other fluid migration from the oil and gas reservoirs as the method above specified.

(e) Notwithstanding anything in this section to the contrary, where the well to be plugged is an abandoned well that has no known responsible party and the well operator is also a coal operator that intends to mine through the well, the well shall, at a minimum, be plugged as provided in subdivisions (1) and (2) of this subsection.

(1) The well will be cleaned out and prepared for plugging or replugging as follows:

(A) If the total depth of the well is less than four thousand feet, the operator shall completely clean out the well from the surface to at least two hundred feet below the base of the lowest workable coal bed, but the secretary may require cleaning to a greater depth due to excessive pressure within the well. If the total depth of the well is four thousand feet or greater, the operator shall completely clean out the well from the surface to at least four hundred feet below the base of the lowest workable coal bed. The operator shall provide to the secretary all information it possesses concerning the geological nature of the strata and the pressure of the well, and shall remove all material from the entire diameter of the well, wall to wall;

(B) The operator shall prepare down-hole logs for each well. The logs shall consist of a caliper survey and log(s) suitable for determining the top, bottom, and thickness of all coal seams and potential hydrocarbon-producing strata, as well as the location for a bridge plug. The secretary may approve the use of a down-hole camera survey in lieu of down-hole logs. In addition, the owner shall maintain a journal that describes the depth of each material encountered; the nature of each material encountered; the bit size and type used to drill each portion of

the hole; the length and type of each material used to plug the well; the length of casing(s) removed, perforated or ripped, or left in place; any sections where casing was cut or milled; and any other pertinent information concerning cleaning and sealing the well. The operator shall maintain all invoices, work orders, and other records relating to all work on the well as part of the journal and provide to the secretary upon request;

(C) When cleaning, the operator shall make a diligent effort to remove all the casing in the well. If it is not possible to remove all the casing, then the operator shall take appropriate steps to ensure that the annulus between the casing and between the casings and the well walls are filled with expanding cement, with a minimum five tenths of one percent expansion upon setting, and contain no voids. If the casing cannot be removed, it must be cut or milled at all workable coal bed levels. Any casing which remains shall be perforated or ripped. If the total depth of the well is less than four thousand feet, perforations or rips are required every fifty feet from two hundred feet below the base of the lowest mineable coal bed up to one hundred feet above the uppermost workable coal bed. If the total depth of the well is four thousand feet or greater, perforations or rips are required every fifty feet from four hundred feet below the

base of the lowest workable coal bed up to one hundred feet above the uppermost workable coal bed. If the operator, using a casing bond log, demonstrates to the satisfaction of the secretary that all annuli in the well are already adequately sealed with cement, then the operator shall not be required to perforate or rip the casing. When multiple casing and tubing strings are present in the workable coal bed, any casing which remains shall be ripped or perforated and filled with expanding cement in accordance with this paragraph. The operator shall maintain a casing bond log for each casing and tubing string if used in lieu of ripping or perforating multiple strings;

(D) If the secretary concludes that the completely cleaned well emits excessive amounts of gas, the operator must place a mechanical bridge plug in the well. If the total depth of the well is less than four thousand feet, the mechanical bridge plug shall be placed in a competent stratum at least two hundred feet below the base of the lowest workable coal bed, but above the top of the uppermost hydrocarbon-producing stratum. If the total depth of the well is four thousand feet or greater, the mechanical bridge plug shall be placed in a competent stratum at least four hundred feet below the base of the lowest mineable coal bed, but above the top of the uppermost

hydrocarbon-producing stratum: Provided, That the secretary may require a greater distance to set the mechanical bridge plug, regardless of the total depth of the well, based upon excessive pressure within the well. The operator shall provide the secretary with all information the operator possesses concerning the geologic nature of the strata and pressure of the well. If it is not possible to set a mechanical bridge plug, an appropriately sized packer may be used; and

(E) If the upper-most hydrocarbon-producing stratum is within three hundred feet of the base of the lowest workable coal bed, the operator shall properly place mechanical bridge plugs as described in paragraph (D) of this subdivision to isolate the hydrocarbon-producing stratum from the expanding cement plug. Nevertheless, if the total depth of the well is less than four thousand feet, the operator shall place a minimum of two hundred feet of expanding cement below the lowest workable coal bed. If the total depth of the well is four thousand feet or greater, the operator shall place a minimum of four hundred feet of expanding cement below the lowest mineable coal bed: Provided, That the secretary may require a greater distance to set the mechanical bridge plug, regardless of the total depth of the well, based upon excessive pressure within the well.

(2) After the well is completely cleaned pursuant to subdivision one of this subsection, the operator shall plug or replug the well to the surface as follows:

If the total depth of the well is less than four thousand feet, the operator shall pump expanding cement slurry down the well to form a plug which runs from at least two hundred feet below the base of the lowest workable coal bed to the surface. If the total depth of the well is four thousand feet or greater, the operator shall pump expanding cement slurry down the well to form a plug which runs from at least four hundred feet below the base of the lowest workable coal bed to the surface:

Provided, That the secretary may, regardless of the total depth of the well, require a lower depth based upon excessive pressure within the well. The expanding cement slurry will be placed in the well under a pressure of at least two hundred pounds per square inch. Portland cement shall be used to fill the area from one hundred feet above the top of the uppermost workable coal seam to the surface: Provided, That the secretary may require a higher distance based upon excessive pressure within the well;

(f) Any person may apply to the secretary for an order to clean out and replug a previously plugged well in a manner which will permit the safe mining through of such well. Such application shall be filed with the secretary and shall contain the well number, a general description of the well location, the name and address of the owner of the surface land upon which the well is located, a copy of or record reference to a deed, lease or other document which entitles the applicant to enter upon the surface land, a description of the methods by which the well was previously plugged, and a description of the method by which such applicant proposes to clean out and replug the well. At the time an application is filed with the secretary, a copy shall be mailed by registered or certified mail to the owner or owners of the land, and the oil and gas lessee of record, if any, of the site upon which the well is located. If no objection to the replugging of the well is filed by any such landowner or oil and gas lessee within thirty days after the filing of the application, and if the secretary determines that the method proposed for replugging the well will permit the safe mining through of such well, the secretary shall grant the application by an order authorizing the replugging of the well. Such order shall specify the method by which the well shall be replugged, and copies thereof shall be mailed by certified or registered mail to the applicant and to the

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owner or owners of the land, and the oil and gas lessee, if any, of the site upon which such well is located. If any such landowner or oil and gas lessee objects to the replugging of the well, the secretary shall notify the applicant of such objection. Thereafter, the director shall schedule a hearing to consider the objection, which hearing shall be held after notice by registered or certified mail to the objectors and the applicant. After consideration of the evidence presented at the hearing, the secretary shall issue an order authorizing the replugging of the well if the secretary determines that replugging of the well will permit the safe mining through of such well. Such order shall specify the manner in which the well shall be replugged and copies thereof shall be sent by registered or certified mail to the applicant and objectors. The secretary shall issue an order rejecting the application if the secretary determines that the proposed method for replugging the well will not permit the safe mining through of such well;

(g) All persons adversely affected, by a determination or order of the secretary issued pursuant to the provisions of this section shall be entitled to judicial review in accordance with the provisions of articles five and six, chapter twenty-nine-a of this code.



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Plugging Vertical Well Work Permits API: (47-091-00453)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Tue, Jun 7, 2022 at 11:04 AM

To: Natalie Reeder <nreeder@mikerossinc.com>, David Sponaugle <dsponaug@assessor.state.wv.us>, "Ward, Samuel D" <samuel.d.ward@wv.gov>

I have attached a copy of the newly issued well [permit](#) numbers:

47-091-00453 - FINDLEY 1

These will serve as your copy.

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE


Charleston, WV 25304


(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

2 attachments

 **47-091-00453 - Copy.pdf**
5612K

 **IR-8 Blank.pdf**
237K

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