



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, February 1, 2022
WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE
JACKSON CENTER, PA 16133

Re: Permit approval for 7-660
47-039-03431-00-00

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: 7-660
Farm Name: QUINCY COAL CO.
U.S. WELL NUMBER: 47-039-03431-00-00
Vertical Plugging
Date Issued: 2/1/2022

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.

- 1) Date January 17, 2022
- 2) Operator's
Well No. 7
- 3) API Well No. 47 039 03431

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil ___ / Gas X / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production X or Underground storage ___) Deep ___ / Shallow X
- 5) Location: Elevation 1358.23 feet Watershed Carroll Branch
District Cabin Creek County Kanawha Quadrangle Cedar Grove
- 6) Well Operator Diversified Production, LLC 7) Designated Agent Jeff Mast
Address 414 Summers Street Address 31 Hickory Drive
Charleston, WV 25301 Barboursville, WV 25504
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Terry Urban Name Diversified Production, LLC (in-house rig)
Address P.O. Box 1207 Address 1951 Pleasantview Ridge Road
Clendenin, WV 25045 Ravenswood, WV 26164

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

See Attached
*Operate to Core with Cement All Oil/Gas
Formations including casing cuts, Salt, Elevation, Coal, Freshwater*

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

Work order approved by inspector  Date 1-21-22

02/11/2022

Plugging Prognosis

API #: 4703903431

West Virginia, Kanawha Co.

Lat/Long: 38.225181, -81.487531

Nearest ER: CAMC Memorial Hospital 3200 MacCorkle Ave SE, Charleston, WV 25304

Casing Schedule:

10" @ 144'

8-5/8" @ 1,817' (no cement record listed)

7" @ 2,036' (no cement record listed)

3-1/2" @ 2,344' (tbg set on Lynes Inflatable packer)

TD @ 2,500'

Completion: Producing Sand – Weir: 2,290'-2,485'

Fresh Water: None listed

Salt Water: None listed

Gas Shows: 2,198'-2,202'

Oil Shows: None listed

Coal: 22'-26'; 120'-123'; 610'-614'

Elevation: 1,356'

*Operate to Cover All Dile Gas
Formations include Casing Cuts, Salt, Electricity
Coal & Freshwater*

*Hyun Min
1-21-22*

1. Notify Inspector Terry Urban @ 304-549-5915, 48 hrs prior to commencing operations.
2. Check and record pressures on csg/tbg.
3. Attempt to pull 3-1/2" tbg and lay down. If tbg won't pull free, plug per below procedure up to packer and free point and cut 3-1/2" tbg.
4. Check TD w/ wireline.
5. Run in to depth @ 2,485'. Kill well as needed with 6% bentonite gel and fill rat hole. Pump at least 10 bbls gel. Pump 499' C1A cement plug from 2,485' to 1,986' (Gas shows, Weir Completion and 7" shoe) Tag TOC. Top off as needed.
6. TOOH w/ tbg to 1,986'. Pump 6% bentonite gel from 1,986' to 1,867'.
7. Free point 7" csg. Cut and TOOH. Set 100' C1A cement plug across csg cut. 50' in/out of cut. **Do not omit any plugs listed below. Perforate as needed.**
8. TOOH w/ tbg to 1,867'. Pump 100' C1A cement plug from 1,867' to 1,717' (8-5/8" csg shoe plug)
9. TOOH w/ tbg to 1,717'. Pump 6% bentonite gel from 1,717' to 1,356'.
10. Free point 8-5/8" csg. Cut and TOOH. Set 100' C1A cement plug across csg cut. 50' in/out of cut. **Do not omit any plugs listed below. Perforate as needed.**
11. TOOH w/ tbg to 1,356'. Pump 100' C1A cement plug from 1,356' to 1,256' (elevation plug)
12. TOOH w/ tbg to 1,256'. Pump 6% bentonite gel from 1,256' to 664'.
13. TOOH w/ tbg to 664'. Pump 104' C1A cement plug from 664' to 560' (coal show plug)
14. TOOH w/ tbg to 560'. Pump 6% bentonite gel from 560' to 194'.
15. TOOH w/ tbg to 194'. Pump 194' C1A cement plug from 194' to surface (10" csg shoe, coal show and surface plug).
16. Reclaim location and well road to WV DEP specifications and erect P&A well monument.

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02/11/2022



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Montgomery
Permit No. Kan. 23-Frac. -3431

Rotary _____ Oil _____
Cable X Gas X
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Company Cabot Corporation
Address Box 1473, Charleston, W. Va. 25325
Farm Quincy Acres 1162
Location (waters) Carroll Branch
Well No. 7 SN-660 Elev. 1356'
District Cabin Creek County Kanawha
The surface of tract is owned in fee by _____
Quincy Coal Co.
Address Quincy, W. Va.
Mineral rights are owned by Same
Address _____
Drilling Commenced _____
Drilling Completed 1927
Initial open flow 212 M cu. ft. _____ bbls.
Final production _____ cu. ft. per day _____ bbls.
Well open _____ hrs. before test 275# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13 10"	200'	144'	
9 5/8			
8 5/8	1817'	1817'	
7	2036'	2036'	
5 1/2			
4 1/2			
3		2344'	
2			
Liners Used			

Well treatment details: Attach copy of cementing record.
Well fractured 9/27/74, with 508 bbls. water and 30,000lbs. 20/40 sand, down 3 1/2" tubing, under Lynes inflatable packer.
Open flow after treatment 103 Mcf. Rock pressure for 24 hrs. 170#.

Coal was encountered at (22'-26') (120'-123') ~~xxx~~ (610' 614') _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand _____ Weir _____ Depth 2290' - 2485'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Lome			0	11		
Sand			11	18		
Slate			18	22		
Coal			22	26		
Slate Shell			26	120		
Coal			120	123		
Sand			123	200		
Slate Shell			200	375		
Sand			375	425		
Lime			425	525		
Slate & Shell			525	575		
Sand			575	600		
Slate			600	610		
Coal			610	614		
Slate & Shell			614	714		
Sand			714	814		
Black Lime			814	1015		
Sand			1015	1050		
Slate & Shell			1050	1100		
Sand			1100	1150		
Black Lime			1150	1160		
Sand			1160	1300		
Lime			1300	1350		
Salt Sand			1350	1590		

Elevations

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Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Slate Lime Shell			1590	1630		
Sand			1630	1793		
Slate			1793	1817		
Black Lime			1817	1829		
Red Rock			1829	1834		
Slate & Shell			1834	1890		
Red Rock			1890	1915		
Slate Shell			1915	1930		
Little Lime			1930	1960		
Pencil Cave			1960	1974		
White Lime Shell			1974	1994		
Pencil Cave			1994	1999		
Black Lime			1999	2022		
Big Lime			2036	2198		
Sand			2198	2202	Gas	
Injun Sand			2202	2240		
Slate & Shell			2240	2290		
Weir Sand			2290	2485	Top of Pay-2300 Ft. of Pay 2314	
Black Slate			2485	2500		
Total Depth				2500		

Date November 15, 19 74APPROVED CABOT CORPORATION, OwnerBy Charles S. Stum
(Title) Gen. Mgr.

WW-4A
Revised 6-07

1) Date: December 17, 2022
2) Operator's Well Number
7

3) API Well No.: 47 - 039 - 03431

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

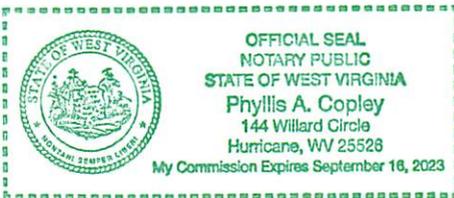
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Ranger Scientific LLC</u>	Name <u>None</u>
Address <u>550 Fifth Avenue</u>	Address _____
<u>Montgomery, WV 25136</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Quincy Coal Company - Attention: Scott Stansfield</u>
_____	Address <u>170 Summers Street, Suite 300</u>
(c) Name _____	<u>Charleston, WV 25301</u>
Address _____	Name _____
_____	Address _____
6) Inspector <u>Terry Urban</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 1207</u>	Name <u>No Declaration</u>
<u>Clendenin, WV 25045</u>	Address _____
Telephone <u>304-549-5915</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 Diversified Production, LLC
 By: [Signature] Jeff Mast
 Its: Director Production
 Address 414 Summers Street
Charleston, WV 25301
 Telephone 304-543-6988

Subscribed and sworn before me this 18th day of January 2022
Phyllis A. Copley Notary Public
 My Commission Expires September 16, 2023

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.

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02/11/2022
Environmental Protection

4703903431P
Well 7
47-039-03431

7020 2450 0001 5225 2911

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Montgomery, WV 25136 **OFFICIAL USE**

Certified Mail Fee	\$3.75
Extra Services & Fees (check box, add fee as appropriate)	\$7.05
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$2.16
Total Postage	\$8.96

Postmark Here: H. 0523 11

01/18/2022

Quincy 3, Quincy 7, Quincy 5

Sent To: Ranger Scientific LLC
Street and Apt: 550 Fifth Avenue
City, State, Zip: Montgomery, WV 25136

PS Form 380

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Environmental Protection

02/11/2022

4703903431P

Well 7

47-039-03431

7020 2450 0001 5225 2904

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Charleston, WV 25301

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<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$2.16

Total Fee \$5.91

Postmark Here

01/18/2022

Quincy 3, Quincy 7, Quincy 5

Sent to Quincy Coal Company

Attn: Scott Stansfield

Street 170 Summers Street, Suite 300

City, State Charleston, WV 25301

PS Form 3800, October 2019

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WW-9
(5/16)

API Number 47 - 039 - 03431
Operator's Well No. 7

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

Operator Name Diversified Production, LLC OP Code 494524121

Watershed (HUC 10) Carroll Branch Quadrangle Cedar Grove

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 10

If so, please describe anticipated pit waste: Produced 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 _____)

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 [Signature]

Company Official (Typed Name) Jeff Mast

Company Official Title Director Production



Subscribed and sworn before me this 18th day of January, 2022

Phyllis A. Copley Notary Public

My commission expires September 16, 2023

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

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or equivalent

Fertilizer amount lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary

Permanent

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

Seed Type	lbs/acre
Red Fescue	15
Alsike Clover	5

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:

[Handwritten Signature]

Comments:

Title:

Inspect Oil & Gas

Date:

1-21-22

Field Reviewed?

Yes

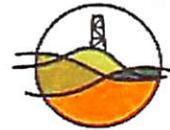
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02/11/2022



Diversified Gas & Oil Corporation
100 Diversified Way
Pikeville KY, 41051

47-039-03431

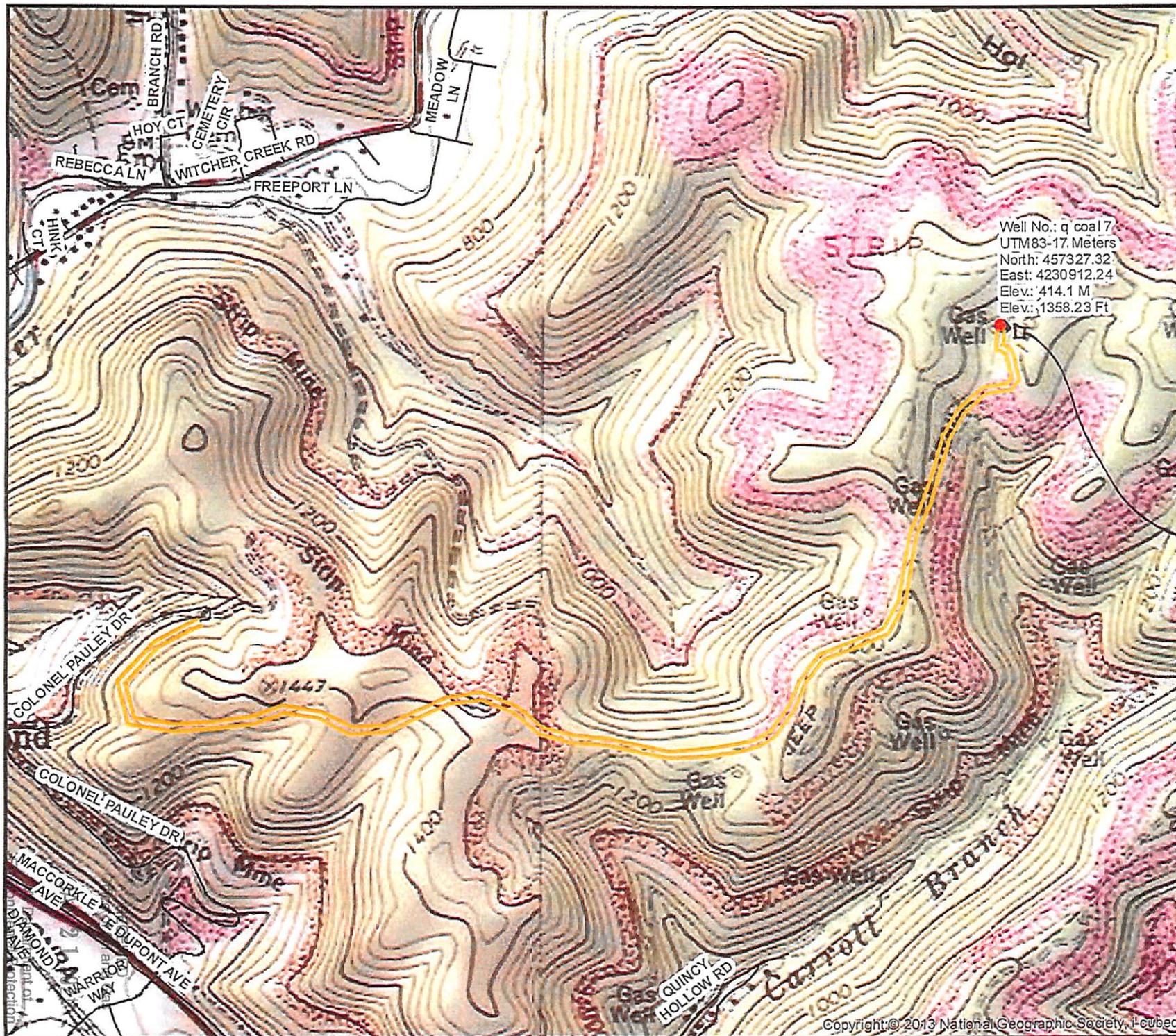
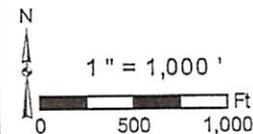
Plugging Map

Legend

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

1 Pit
10' W
20' L
8' D

285 bbl



4703903431

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 4703903431 WELL NO.: 7

FARM NAME: Quincy Coal Co.

RESPONSIBLE PARTY NAME: Diversified Production LLC

COUNTY: Kanawha DISTRICT: Cabin Creek

QUADRANGLE: Cedar Grove

SURFACE OWNER: Ranger Scientific LLC

ROYALTY OWNER: Diversified Production LLC

UTM GPS NORTHING: 4230912.24

UTM GPS EASTING: 457327.32 GPS ELEVATION: 1358.23

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]
Signature

Director
Title

11/18/2021
Date

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

Plugging Vertical Well Work Permit API: 47-039-02488, 02522, 02541, 02929, 03430, 03431)

1 message

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

Wed, Feb 2, 2022 at 7:23 AM

To: "Mast, Jeff" <jmast@dgoc.com>, Sallie Robinson <sallierobinson@kanawha.us>, "Urban, Terry W" <terry.w.urban@wv.gov>

Terry,

I will be in the office tomorrow and have hard copies ready for you along with release sheets.

I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.

47-039-02488 -
47-039-02522 -
47-039-02541 -
47-039-02929 -
47-039-03430 -
47-039-03431 -

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

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

7 attachments

-  **47-039-02488 - Copy.pdf**
2727K
-  **47-039-02929 - Copy.pdf**
2838K
-  **47-039-03430 - Copy.pdf**
3045K
-  **47-039-02541 - Copy.pdf**
3302K
-  **47-039-02522 - Copy.pdf**
3798K
-  **47-039-03431 - Copy.pdf**
3393K
-  **IR-8 Blank.pdf**
212K

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