



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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Thursday, November 12, 2020
WELL WORK PLUGGING PERMIT
Vertical Plugging

ENERVEST OPERATING, L.L.C., A LIMITED LIABILITY COMPANY
1001 FANNIN STREET
SUITE 800
HOUSTON, TX 77002

Re: Permit approval for 1-998
47-039-01734-00-00

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.

A handwritten signature in blue ink, appearing to read 'James A. Martin'.

James A. Martin
Chief

Operator's Well Number: 1-998
Farm Name: COLL-CARPENTER
U.S. WELL NUMBER: 47-039-01734-00-00
Vertical Plugging
Date Issued: 11/12/2020

Promoting a healthy environment.

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 October 01, 2020
2) Operator's
Well No. Coll-Carpenter Unit #1
3) API Well No. 47-039 - 01734

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

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

5) Location: Elevation 651.91' Watershed Coal River
District Washington County Kanawha Quadrangle St. Albans

6) Well Operator EnerVest Operating LLC 7) Designated Agent _____
Address 300 Capitol St. E., Ste 200 Address _____
Charleston, WV 25301

8) Oil and Gas Inspector to be notified Name Terry Urban
Address PO Box 1207
Clendenin, WV 25045
9) Plugging Contractor Name To be determined
Address _____

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

See attached procedure. *Operator will cake with Cement Slit
Oil & Gas formations Salt & Elevations, Fresh water & Coal
Displace with 6% Gel*

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WV Department of
Environmental Protection

[Signature]
10-27-20

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

Work order approved by inspector _____ Date _____

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Coll-Carpenter Unit #1 (319)
API# 47-039-01734
Elevation: 652' GL
Latitude: 38.316188
Longitude: -81.844714

Coll-Carpenter Unit #1 Well Data

Casing: 10-3/4 32.75 ppf Surface Csg @ 504' GL – Set on shoe
7" 20 ppf Intermediate Csg @ 1820' GL – Set on shoe
3-1/2" 7.7 ppf tubing @ 2193' KB – Set on Hook wall packer.
TD: 3836'
Latch Down: N/A
Perforations: Shot Hole F/ 2800' – T/ 3836' GL w/ 10,050# T.P.
Coal: 280' – 282'
Fresh Water Shows: 85', 305'
Salt Water Shows: 920'
Gas/Oil Shows 2102', 2173', 2973', 3183', 3220', 3407', 3455', 3618', 3705', 3719'

Coll-Carpenter Unit #1 Procedure:

1. Notify State Inspector, Terry Urban – (304)-549-5915 – terry.w.urban@wv.gov, 24 hours prior to commencing operations.
2. Prep Coll-Carpenter Unit #1 location.
3. MIRU service rig, steel pits, work string of 3000' 2-3/8" EUE tbg, and other ancillary equipment. *Shot Hole (work was shot from 2800' - 3836') TO ABOVE SHOT.*
4. Attempt to pull 3-1/2" tbg.
 - a. If successful, set first cement plug 2750' – 2550'. (Shot F/ 2800' - T/ 3836')
 - b. TOOH to 2350', WOC 8 hrs, RIH & tag plug, add cement if needed.
 - c. Spot 6% gel from TOC to 2030', or to 50' above location of next cement plug.
 - d. Continue operations at step 10.
5. If unsuccessful, perform csg Freepoint test on 3-1/2".
6. Rip 3-1/2" tbg @ freepoint and POOH.
7. TIH w/ 2-3/8" work string and set 200' cement plug just above where pipe was severed.
8. TOOH 200' above cement plug, WOC 8 hrs, RIH & tag plug, add cement if needed.
9. Spot 6% gel from TOC to 2030', or to 50' above location of next cement plug.
10. A 100' cement plug must also be set F/ 2080' T/ 1980'. Cement plug will be tagged 8 hrs after pumping, with 6% gel spotted from TOC to 850', or to 50' above location of next cement plug. Plug can be combined with first plug if rip location is in close proximity.
11. TOOH w/ 2-3/8" tbg.
12. Perform Freepoint on 7" csg and note where free.
13. 7" Casing will be ripped and removed from well bore where free. The following cement plugs set will be set, with the order depending on where casing is free and able to be removed. Cement plugs will be tagged 8 hrs after pumping, with 6% gel spotted between each plug. Plugs can be combined if rip location is similar to other plugs listed.
 - a. 100' plug across from casing rip, 50' below and 50' above rip.
 - b. 100' plug F/ 900' – T/ 800'. Perforations are required at 900' if 7" csg is still present.
 - c. 100' plug F/ 520' – T/ 420'. Perforations are required at 520' if 7" csg is still present.
14. Perform Freepoint on 10-3/4" csg and note where free.

*Will
CORRECT
with Cement*

*If
Ripped
must cover
with
Cement*

[Signature]
10-27-20

15. 10-3/4" Casing will be ripped and removed from well bore where free. The following cement plugs set will be set, with the order depending on where casing is free and able to be removed. Cement plugs will be tagged 8 hrs after pumping, with 6% gel spotted between each plug. Plugs can be combined if rip location is similar to other plugs listed.

- a. 100' plug across from casing rip, 50' below and 50' above rip.
- b. ^{350'} ~~100'~~ plug F/ 100' - T/ Surface (Surface Plug). Perforations are required at 100' if 7" csg is still present.

16. Erect a monument to WV DEP specifications (CSR 35-4-5.5 - sub "b").

17. Reclaim location and roads to WV DEP Specifications.

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★ FRESH WATER & COAL
(85' & 305') (280-282)

• 350' CEMENT PLUG TO SURFACE

gwm.

[Handwritten Signature]
10-27-20

47-039-01734P

00-10



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle St. Albans

WELL RECORD

Permit No. Kan-1734

Oil or Gas Well GAS
(KIND)

Company OWENS, LIBREY-OWENS GAS DEPARTMENT
Address P. O. BOX 4168, Charleston 4, W. Va.
Farm Coll-Carpenter Acres 1.32 1/2
Location (waters) _____
Well No. 1 (Serial No. 998) Elev. 861.57
District Washington County Kanawha
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Mary Carpenter & Julia Coll
Tornado, W. Va. Address _____ Et Al
Drilling commenced 8-19-60
Drilling completed 11-1-60
Date Shot 11-3-60 From 2800 To 3836
With 10,050# Trojan Powder
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merz. in _____ Inch
Volume Br. Shale 97 M Cu. Ft.
Rock Pressure 422 lbs. 48 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 85-90; 305 feet 920-925 feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer _____
13			"Oilwell" Hookwall _____
10 3/4	504'2"	504'2"	Size of _____
8 1/2			3 1/2 x 7 x 16
8 1/4	1820'5"	Pilled	Depth set _____
5 7/8	1820'5"	1820'5"	2449 - 2453
5	----	2456'	Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft _____ Date _____

COAL WAS ENCOUNTERED AT 280 FEET 24 INCHES
460 FEET 24 INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Soil	Red	Soft	0	10			
Slate	Blue	Soft	10	40			
Red Rock	Red	Soft	40	50			
Sand	White	Soft	50	55			
Slate	Blue	Soft	55	63			
Slate	Grey	Soft	63	125	Water 85-90, 1 BPH		
Sand	White	Med.	125	180			
Slate	White	Soft	180	188			
Sand	White	Soft	188	198			
Slate	Blue	Soft	198	207			
Sl & Shls	Grey	Soft	207	217			
Sand	Grey	Med.	217	280			
Coal	Dark	Soft	280	282			
Slate	Dark	Soft	282	298			
Sand	Light	Med.&Soft	298	370	Water at 305', 4 BPH		
Sand	White	Med.	370	450			
Slate	Light	Soft	450	460			
Coal	Dark	Soft	460	462			
Slate	Light	Soft	462	476			
Sand	Light	Med.	476	494			
Sand	White	Hard	494	504			
Sand	White	Med.	504	520			
Sl & Shls	White	Soft	520	569			
Sand	White	Hard	569	587			
Slate	Dark	Soft	587	599			
Sand	White	Med.	599	677			
Slate	Dark	Soft	677	737			
Sand	White	Med.	737	747			
Sl & Shls	Dark	Soft	747	800			
Sand	White	Med.	800	820			
Sl & Shls	Dark	Soft	820	871			
Sand	White	Hard	871	886			
Sl & Shls	Dark	Soft	886	901			

8-29-60
Installed 10-3/4" casing at 504' with
Midget Bottom Hole Packer

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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand	White	Hard	901	912			
Sand	Grey	Hard	912	977	Water at 920-925', 1 DP		
Sand	White	Med.	977	1231			
Sand	White	Hard	1231	1251			
Slate	Dark	Soft	1251	1257	Reduced hole at 1254' in slate		
Sand	White	Hard	1257	1285			
Sand	Grey	Med.	1285	1410			
Slate	Dark	Soft	1410	1460			
Little Lime	Grey	Hard	1460	1490			
Slate	Dark	Soft	1490	1494	SIM 1494 = Sand LM 1494		
Big Lime	Grey	Hard	1494	1562			
Big Lime	White	Hard	1562	1681			
Slate	Dark	Soft	1681	1683			
Red Injun	Red	Hard	1683	1709			
Red & Grey Injun	Injun Grey & Red	Hard	1709	1736			
Slate	Dark	Soft	1736	1739			
Grey Injun	Grey	Hard	1739	1747			
Slate	Dark	Med.	1747	1766			
Sl & Shls	Dark	Med.	1766	1781			
Shells	Dark	Hard	1781	1785			
Slate	Dark	Med.	1785	1792			
Sl & Shls	Dark	Soft	1792	1816			
Shells	Light	Hard	1816	1821	9-27-60 Installed 7" casing at 1821' on shoe set in red clay with 2 centralizers Tested pipe at 1824' -- did not hold		
Unrecorded	?	?	1821	1824	9-28-60 Pulled 7" casing 9-29-60 & 9-30-60 Schlumberger ran inclinometer and bore gage. 9-30-60 Re-installed 7" casing at 1821' on shoe with 2 centralizers set at 1813'8" and 1779'9" in 10' red clay. Made 2' hole below 7" pipe		
Unrecorded	?	?	1824	1826			
Shells	Dark	Hard	1826	1827			
Sl & Shls	Light	Med.	1827	1864			
Sl & Shls	Grey	Med.	1864	1904			
Slate	Grey	Soft	1904	1967			
Slate	Light	Soft	1967	2078			
Sl & Shls	Light	Med.	2078	2094			
Sl & Shls	Light	Soft	2094	2143	Gas		245 cu. ft.
Sl & Shls	Light	Med.	2143	2151			
Br. Shale	Brown	Med.	2151	2167	SIM 2167 = Sand LM 2167		
Berea	Light	Hard	2167	2187	Gas 2173'		600 cu. ft.
Shells, gritty	Grey	Hard	2187	2199			
Sl & Shls	--	Soft	2199	2203			
Sl & Shls	Light	Med.	2203	2360			
Shells	Light	Hard	2360	2366			
Slate	Light	Soft	2366	2421			
Sl & Shls	Light	Med.	2421	2450			
Shells	Light	Hard	2450	2457			
Sl & Shls	Light	Med.	2457	2500			
Slate	Light	Soft	2500	2858			
Sl & Shls	Light	Soft	2858	2913			
Slate	Light	Soft	2913	3360	Test 2960' Gas 2973' Test 3100' Gas 3136' Test 3172' Gas 3183' Test 3207' Gas 3220'		300 cu. ft. 387 cu. ft. 346 cu. ft. 406 cu. ft. 406 cu. ft. 458 cu. ft. 458 cu. ft. 714 cu. ft.

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Date November 14, 1960

APPROVED OWNERS, LIBBEY-OWENS GAS DEPARTMENT, Owner

By *A. H. Smith*
A. H. Smith, Mgr. (Title) Land, Engrg. & Geol.

4703901734 Enervest Operating, LLC 2018 0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4703901734	Original Loc	unidentified coal	Well Record	280	Reasonable	2	Reasonable	670	Ground Level
4703901734	Original Loc	unidentified coal	Well Record	460	Reasonable	2	Reasonable	670	Ground Level
4703901734	Original Loc	Salt Sands (undiff)	Past WVGES Staff Geologist	977	Reasonable	274	Reasonable	670	Ground Level
4703901734	Original Loc	Little Lime	Well Record	1460	Reasonable	30	Reasonable	670	Ground Level
4703901734	Original Loc	Pencil Cave	Past WVGES Staff Geologist	1490	Reasonable	4	Reasonable	670	Ground Level
4703901734	Original Loc	Greenbrier Group	Well Record	1494	Reasonable	189	Reasonable	670	Ground Level
4703901734	Original Loc	Big Lime	Well Record	1494	Reasonable	189	Reasonable	670	Ground Level
4703901734	Original Loc	Price Fm & equivs	Well Record	1683	Reasonable	504	Reasonable	670	Ground Level
4703901734	Original Loc	Maccraday	Well Record	1683	Reasonable	26	Reasonable	670	Ground Level
4703901734	Original Loc	Big Injun (Price&eq)	Well Record	1709	Reasonable	25	Reasonable	670	Ground Level
4703901734	Original Loc	Spuaw	Past WVGES Staff Geologist	1739	Reasonable	8	Reasonable	670	Ground Level
4703901734	Original Loc	Sumbury Sh	Well Record	2151	Reasonable	16	Reasonable	670	Ground Level
4703901734	Original Loc	Berea Ss	Well Record	2187	Reasonable	20	Reasonable	670	Ground Level
4703901734	Original Loc	UDev undfBer/LaHURN	Well Record	2187	Reasonable	1173	Reasonable	670	Ground Level
4703901734	Original Loc	Lower Huron	Well Record	3360	Reasonable	0	Reasonable	670	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	L_TOP	L_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5		
4703901734	280	1826				Y															280	1826	N	Y

Comment: *logs:Directional log,Sectional Gauge

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click [here](#)

FILENAME
4703901734s1.tif
4703901734e2.tif

- geologic log types:
- d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)
 - e photoelectric adsorption (PE or Pe, etc.)
 - g gamma ray
 - i induction (includes dual induction, medium induction, deep induction, etc.)
 - l laterolog
 - m dipmeter
 - n neutron (includes neutron porosity, sidewall neutron--SWN, etc.)
 - o other*
 - s sonic or velocity
 - t temperature (includes borehole temperature, BHT, differential temperature, etc.)
 - z spontaneous potential or potential
- mechanical log types:
- b cement bond
 - c caliper
 - o other*
 - p perforation depth control or perforate

*other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

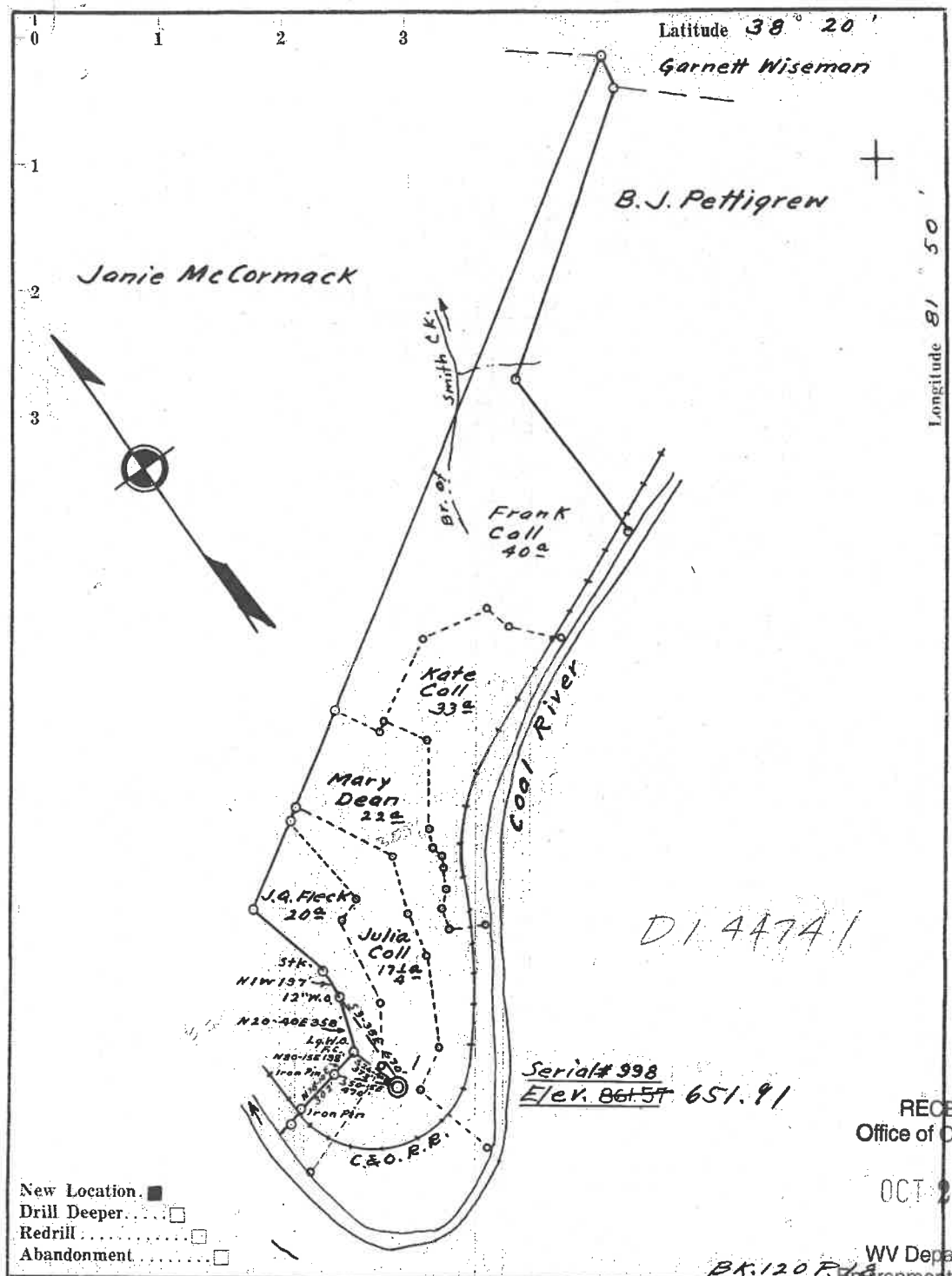
There is no Plugging data for this well

There is no Sample data for this well

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- New Location.
- Drill Deeper.
- Redrill.
- Abandonment.

D144741

Serial# 998
Elev. 861.57 651.91

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Environmental Protection

Company Owens, Libbey-Owens Gas Dept
 Address Box 4168 Charleston 4 W.Va.
 Farm Coll - Carpenter
 Tract _____ Acres 132 1/2 Lease No. 2474
 Well (Farm) No. 1 Serial No. 998
 Elevation (Spirit Level) 861.57-651.91
 Quadrangle St. Albans
 County Kanawha District Washington
 Engineer T.S. Flournoy
 Engineer's Registration No. 269
 File No. _____ Drawing No. _____
 Date May 13, 1960 Scale 1" = 800 FT.

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

WELL LOCATION MAP
 FILE NO. KAN-1734

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 — Denotes one inch spaces on border line of original tracing.

WW-4A
Revised 6-07

1) Date: 10/01/2020
2) Operator's Well Number
Coll-Carpenter Unit #1
3) API Well No.: 47 - 039 - 01734

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

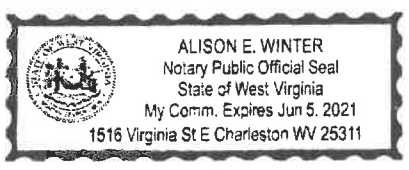
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name: Robert K. Coll & Timothy F. Coll	Name: _____
Address: 82 Hummingbird Lane	Address: _____
Tornado, WV 25202	_____
(b) Name: _____	(b) Coal Owner(s) with Declaration
Address: _____	Name: _____
_____	Address: _____
(c) Name: _____	Name: _____
Address: _____	Address: _____
_____	_____
6) Inspector Terry Urban	(c) Coal Lessee with Declaration
Address: PO Box 1207	Name: _____
Clendenin, WV 25045	Address: _____
Telephone: 304-549-5915	_____

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: EnerVest Operating LLC
 By: Steve Downer
 Its: Vice President & General Manager
 Address: 300 Capitol Street East, Suite 200
 Charleston, WV 25301
 Telephone: 304-343-5505

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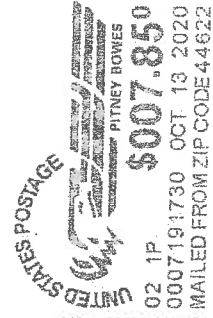
Subscribed and sworn before me this 5th day of October, 2020
Alison E. Winter Notary Public

My Commission Expires June 5, 2021

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.

47-039-01734P



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by F. Coll
e

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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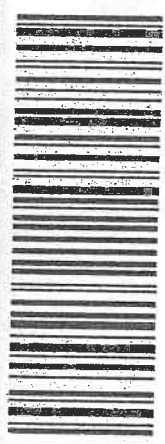
For delivery information, visit our website at www.usps.com

OFFICIAL

Certified Mail Fee	
\$	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/>	Return Receipt (hardcopy) \$
<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	
\$	
Total Postage and Fees	
\$	

Sent To
Robert K. Coll & Timothy F.
Street and Apt. No., or PO Box No.
82 Hummingbird Lane
City, State, ZIP+4®
Tornado, WV 25202

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Re



TECH EE24 T000 049T 6T0L
TECH EE24 T000 049T 6T0L

CERTIFIED MAIL

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

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:

Robert K. Coll & Timothy F. Coll
82 Hummingbird Lane
Tornado, WV 25202



9590 9402 5428 9189 4795 03

2. Article Number (Transfer from service label)

7019 1640 0001 4233 4311

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

B. Received by (Printed Name)

C. Date of Delivery

Agent
 Addressee

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
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

Troy Valasek
EnerVest Operating, L.L.C
1748 Saltwell Road
Dover, OH 44622



ENERVEST

ENERVEST OPERATING, L.L.C.

1748 Saltwell Road, Dover, Ohio 44622
Phone: (330) 602-5551

October 13, 2020

VIA USPS CERTIFIED MAIL

Robert K. Coll & Timothy F. Coll
82 Hummingbird Lane
Tornado, WV 25202

RE: Plugging Permit Coll-Carpenter #1
API# 47-039-01734
Washington District, Kanawha County, WV

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Office of Oil and Gas

OCT 27 2020

WV Department of
Environmental Protection

Dear Surface Owner:

Pursuant to Chapter 22 of the West Virginia Code, please find enclosed copies of the following documents relating to the proposed plugging of the subject well:

- Form WW-4A Notice of Application to Plug and Abandon a Well
- Form WW-4B Application for a Permit to Plug and Abandon
- Form WW-7 Well Location Form: GPS
- Form WW-9 Construction and Reclamation Plan and Site Registration Application
- Surface Owner Waiver (2 copies)

This application is being filed by EnerVest Operating, L.L.C. ("EnerVest") with the Administrator of the Office of Oil and Gas of the West Virginia Department of Environmental Protection. If you have no objections to the proposed process for the plugging of this well, please sign the Voluntary Statement of No Objection on the Surface Owner Waiver and return one copy to our office, in the self-addressed, pre-paid envelope that enclosed with this letter.

Comments as to the location construction or the proposed well work may, pursuant to West Virginia Code, be filed by you with the Administrator within five (5) days after the Application is filed by EnerVest. The address of the Administrator for the purposes of filing comments and obtaining additional information is as follows:

Permit Administrator
West Virginia Division of Environmental Protection
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304



ENERVEST

ENERVEST OPERATING, L.L.C.

1748 Saltwell Road, Dover, Ohio 44622
Phone: (330) 602-5551

Persons who may file such comments are: (i) the owners of record of the surface of the tract on which the well is or is to be located, and (ii) the owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if such tract is to be utilized for road or other land disturbance described in the Erosion and Sediment Control Plan referred to above; and (iii) except as and when not required by the laws of West Virginia and the rules of the West Virginia Department of Mines, any coal operator operating coal seams beneath the oil and gas leasehold upon which said well is or is to be located as well as the owner(s) and lessee(s), if any of such coal seams.

Sincerely,
EnerVest Operating, L.L.C.


Troy Valasek
Senior Landman

Enclosures

cc: File

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7019 1640 0000 1000 4233 4311

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 Domestic Mail Only

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OFFICIAL USE

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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<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
\$

Total Postage and Fees
\$

Sent To
Robert K. Cell & Tim
 Street and Apt. No., or PO Box No.
87 Hummingbird Lane
 City, State, ZIP+4®
Tornado, WV 25702

DOVER, OH 44622
 Postmark Here
 OCT 13 2020
 Troy V

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

WW-9
(5/16)

API Number 47 - 039 _01734
Operator's Well No. _____

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

Operator Name EnerVest Operating LLC OP Code 30-9999

Watershed (HUC 10) Coal River Quadrangle St. Albans

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain No pit to be built, Any well effluent will be contained in tanks and properly disposed offsite)

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. At discretion of contractor.

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

-Landfill or offsite name/permit number? _____

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.

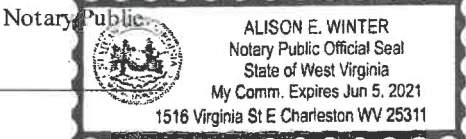
Company Official Signature Steve M. Downey

Company Official (Typed Name) Steve Downey

Company Official Title Vice President and General Manager

Subscribed and sworn before me this 5th day of October, 20 20

Alison E. Winter



My commission expires June 5, 2021

Proposed Revegetation Treatment: Acres Disturbed 2.00 Prevegetation pH 6.5

Lime according to PH test Tons/acre or to correct to pH 7.0

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay or Straw 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
Orchard Grass	25
Birdsfoot Trefoil	15
Ladino Clover	10

Seed Type	lbs/acre
Orchard Grass	25
Birdsfoot Trefoil	15
Ladino Clover	10

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: _____

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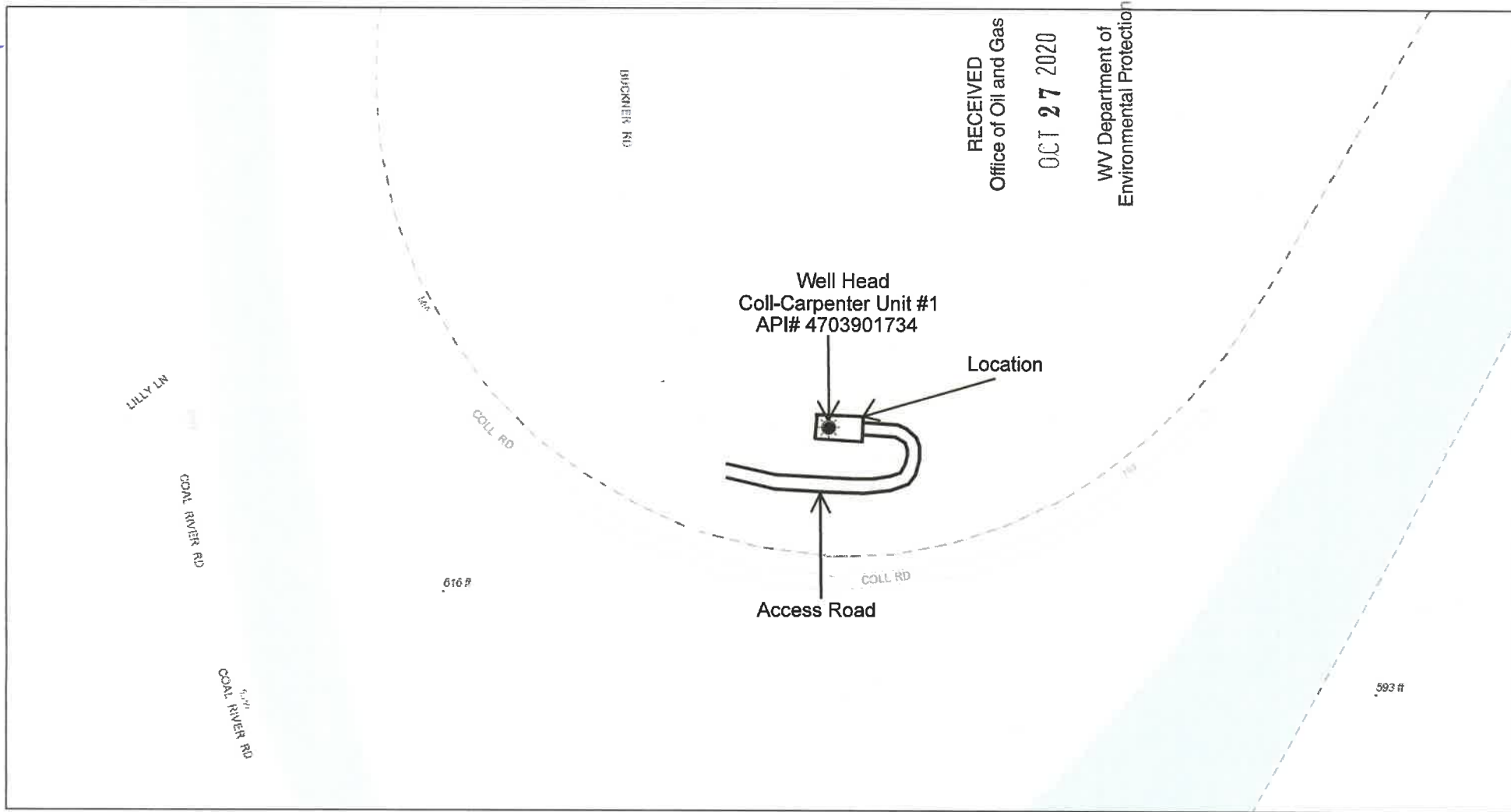
Title: *Inspector Bob C. Coats*

Date: *10/27-20*

Field Reviewed? Yes No

47-039-01734F

ArcGIS Web Map



10/13/2020, 11:14:25 AM



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Heng Kong), (c) OpenStreetMap contributors, and the GIS User Community

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

Operator Name: EnerVest Operating LLC

Watershed (HUC 10): Coal River Quad: St. Albans

Farm Name: Cole - Carpenter

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

Plugging of shallow well. All residual fluids will be captured in portable flowback tanks for proper disposal

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

Plugging of shallow well. All residual fluids will be captured in portable flowback tanks for proper disposal

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

Closest Water Body: Coal River 630' +

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

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

[Empty rectangular box for response]

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

[Empty rectangular box for response]

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.

[Empty rectangular box for response]

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

[Empty rectangular box for response]

Signature: _____

Date: _____

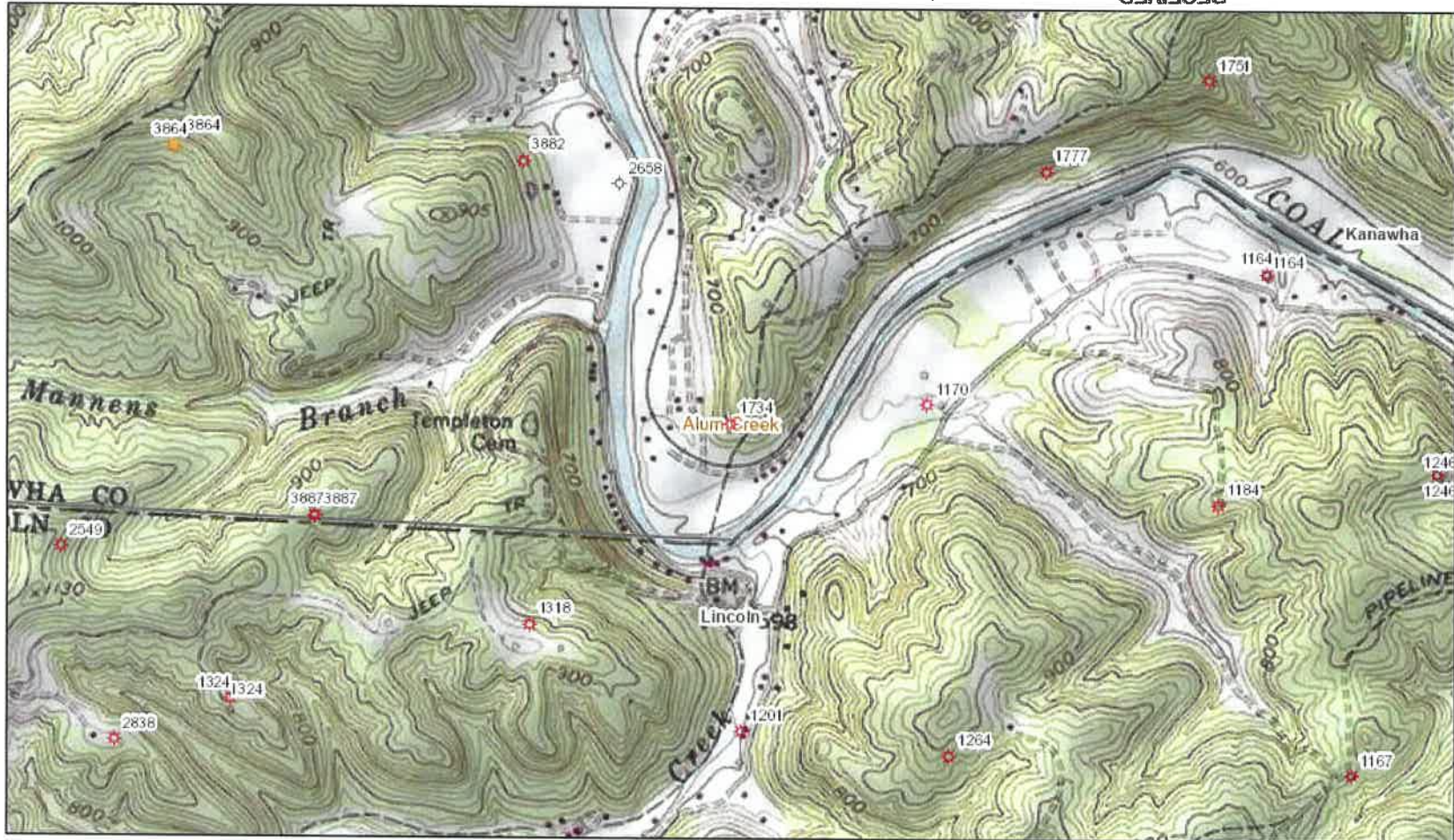
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27 2020

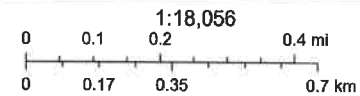
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WV Oil & Gas Wells (WVOG)



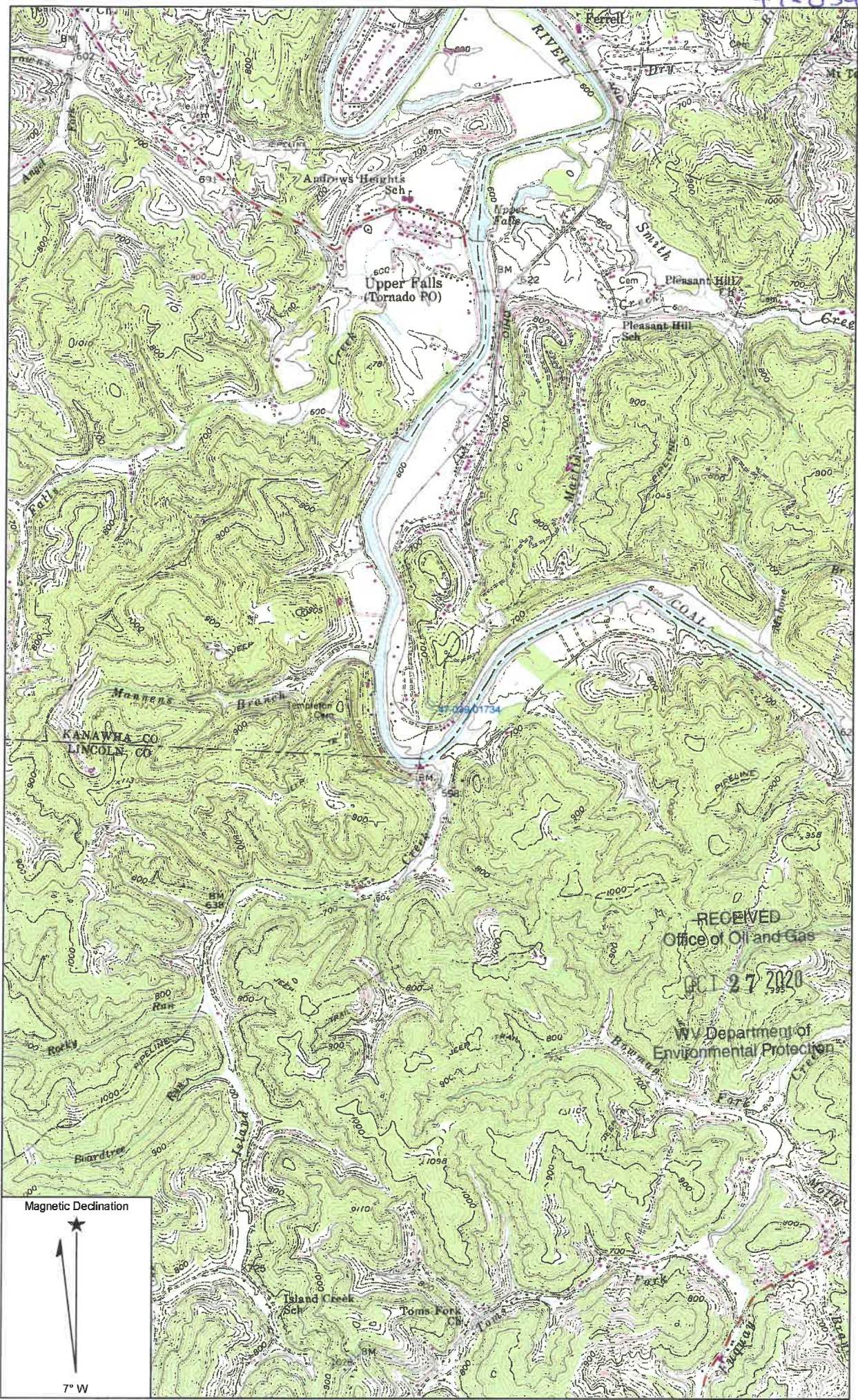
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- Individual Wells
- ★ Gas
 - Oil
 - ◆ Oil and Gas Combination
 - ◇ Dry
 - ▲ Service
 - Other (including Permits)
- Labels (7.5' Quadrangles)
- 7.5' Quadrangles
 - State Boundary
 - Counties
 - County Labels



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WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-039-01734 WELL NO.: Coll-Carpenter Unit #1
 FARM NAME: Cole - Carpenter
 RESPONSIBLE PARTY NAME: Troy M. Valasek
 COUNTY: Kanawha DISTRICT: Washington
 QUADRANGLE: St. Albans
 SURFACE OWNER: Robert K. Coll & Timothy F. Coll
 ROYALTY OWNER: Robert K. Coll & Timothy F. Coll
 UTM GPS NORTHING: 4241245.6
 UTM GPS EASTING: 426168.5 GPS ELEVATION: 651.91

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:

Survey grade GPS ____: Post Processed Differential ____

Real-Time Differential ____

Mapping Grade GPS ____: Post Processed Differential ____

Real-Time Differential ____

- 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

Sr. Landman

Title

10/13/20
Date

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