



west virginia department of environmental protection

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

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

Monday, August 1, 2022
WELL WORK PLUGGING PERMIT
Vertical Plugging

CHESAPEAKE APPALACHIA, L.L.C.
6100 N. WESTERN AVE.

OKLAHOMA CITY, OK 73118

Re: Permit approval for 2565
47-023-00020-00-00

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: 2565
Farm Name: VIRGINIA ELECTRIC POW CC
U.S. WELL NUMBER: 47-023-00020-00-00
Vertical Plugging
Date Issued: 8/1/2022

A blue ink signature of James A. Martin, written in a cursive style, is positioned to the right of the typed name and title.

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.

4702300020P

WW-4B
Rev. 2/01

1) Date February 16, 2022
2) Operator's
Well No. VEPCO 2565
3) API Well No. 47-23 - 00020

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

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

5) Location: Elevation 3480' Watershed LUCINE CREEK
District UNION County GRANT Quadrangle BLACKBIRD KNOB

6) Well Operator CHESAPEAKE APPALACHIA LLC 7) Designated Agent ERIC HASKINS - MANAGER REG OPS
Address PO BOX 18496 Address 14 CHESAPEAKE LANE
OKLAHOMA CITY, OK 73154-0496 SAYRE, PA 18840

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name GAYNE J KNITOWSKI Name PLANTS AND GOODWIN
Address 601 57TH STREET SE Address 360 HIGH STREET
CHARLESTON, WV 25304 BRADFORD, PA 16701

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

SEE ATTACHED

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Office of Oil and Gas

MAY 23 2022

WV Department of
Environmental Protection

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

Work order approved by inspector Gayne Knitowski Digitally signed by Gayne Knitowski
Date: 2022.03.29 16:04:38 -0400 Date 3-29-2022

CHESAPEAKE

ENERGY

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WV Department of
Environmental Protection

VEPCO 2565

Property Number: 821704

AFE#: 1010392

WO#: 4000478997

AFE Estimate: \$623880

Reason for P&A:

The Vepco 2565 well in Grant County, West Virginia will be plugged and abandoned. This well is on federal land. Chesapeake has agreed to P&A this well in accordance to the request of the WVDEP and BLM. No future potential remains in this wellbore.

Summary:

The Vepco 2565 was drilled in 1987. The P&A will consist of pulling 2-3/8" tubing and a CIBP will be set above the top perf. A cement plug will be set in the 5-1/2" casing above the CIBP. A CBL will be run to find TOC behind 5-1/2" casing and cut pipe 100' above and pull same. All free pipe should attempt to be pulled 1-1.5x string weight. A caliper log will be run on open hole section to determine open hole size then a CBL will be run on 9 5/8" casing to verify TOC behind 9 5/8" casing. A cement plug will be set in the open hole portion and across 9-5/8" shoe. There will be a final cement plug set at surface after ensuring no annular gas exists.

Plan Going Forward:

NOTE: Two barriers are required through the course of this work. Please reference Chesapeake Barrier Standard and consult Superintendent, Foreman, and Engineer if you have any questions or concerns.

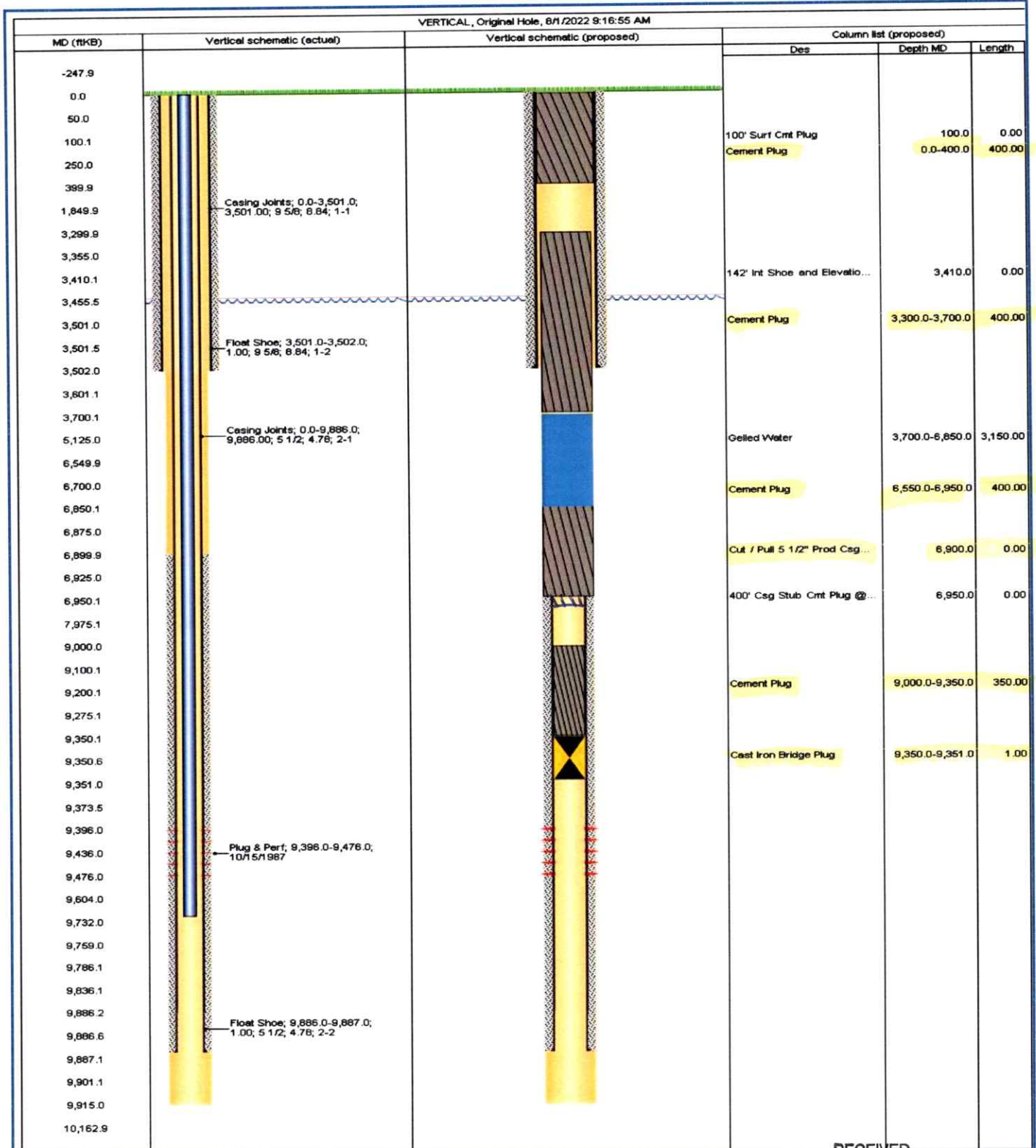
1. MIRU on containment
2. Kill well with water. ND well head and NU 7 1/16" 5K double ram BOP
3. Pull 9700' of 2 3/8" tubing
4. RU wireline and run gauge ring to 9350' RIH with CIBP and set at 9350'
5. TIH with work string to top of CIBP
6. Load hole with fresh water (capacity of 5 1/2" casing is 207 bbls). Pump 89 bbls of gel water followed by 8 bbls (38 sacks) of Class H neat cement from 9350' to 9000'. Displace cement with 34 bbls of gel water. POOH/WOC. Monitor 5 1/2" for pressure build overnight.
7. NU annular BOP/RU wireline, tag cement plug at ~9000'. Run CBL on 5 1/2" casing to find TOC behind pipe. Use a jet cutter to cut the 5 1/2" ~100' above TOC.
8. POOH with 5 1/2" casing (Calculated free pipe is approximately 6900')
9. RU wireline and run caliper log on open hole section to determine hole size. Run CBL on 9 5/8" casing to determine TOC behind 9 5/8" casing.
10. TIH with tubing to 5 1/2" stub. Pump 367 bbls of gel water followed by 30 bbls (143 sacks) of Class H neat cement (Estimated plug depth is 6950' to 6550'). Displace cement with 25 bbls gel water. POOH/WOC. Monitor pressure build on 9 5/8" casing.
11. TIH with tubing to tag cement plug at ~6550'.
12. Pull tubing back to 3700' and pump 208 bbls of gel water followed by 30 bbls (157 sacks) of Class A neat cement from 3700' to 3300'. Displace cement with 12 bbls of gel water. POOH/WOC
13. TIH with tubing to tag plug at ~3300'. Pull tubing back to 400'. Pump 30 bbls (143 sacks) of Class A neat cement from 400' to 0'.
14. RDMO

SET MONUMENT PER WV STATE CODE AND RECLAIM SITE.

gma



RKB	Variable
KOP	N/A
Depth of Top Perf	9,396'
Cement Yield	1.17 cu.ft/sk
Density	15.6 ppg



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RKB	Variable
KOP	N/A
Depth of Top Perf (MD)	9,396'
Cement Yield	1.17 cu.ft/sk
Density	15.6 ppg

Casing Detail										
String	OD (in)	ID (in)	Weight (lbs/ft)	Grade	Casing Cap (bbl/ft)	Annular Cap (bbl/ft)	Top (ft-MD)	Btm (ft-MD)	TOC	Hole Size
Intermediate	9.625	8.835	40	J-55	0.076		0	3,502	Surface	Unknown
Production	5.5	4.892	17	N-80	0.023		0	9,887	9,200	Unknown

Tubing Design					
Item/No	OD (in)	ID (in)	Description	Length (ft)	Depth (ft-MD)
2-3/8" Tubing	2.375	1.995	Records show N-80 Tubing	32.5	9,700

Estimated Plug Set Depths and Cement Needed								
Item	Plug Height	Top of Plug	Bottom of Plug	Cement Type	% Excess Cmt	Cement Sacks	Gel Volume (BBL)	Displacement Volume (BBL)
Plug 1	350'	9,000'	9,350'	Class H	0%	38	89	34
Plug 2	400'	6,550'	6,950'	Class H	0%	143	367	25
Plug 3	400'	3,300'	3,700'	Class H	0%	157	208	12
Plug 4	400'	0'	400'	Class H	0%	143	0	0
Plug 5								
Plug 6								
Plug 7								
Plug 8								
Plug 9								
Plug 10								

Plugging Details					
Plug #	Depth Code	Depth	Csg or Open Hole?	Peforate?	Cmt Behind Csg
Plug 1	5-1/2" Casing Plug	9,350'	Csg	N/A	Yes
Plug 2	5-1/2" Casing Plug	6,950'	Csg	N/A	Yes
Plug 3	Open Hole Plug	6,550'	Open Hole	N/A	No
Plug 4	9-5/8" Shoe and OH Plug	3,300'	Open Hole and Casing	N/A	Mixed
Plug 5	9-5/8" Surface Plug	0'	Casing	N/A	Yes
Plug 6					
Plug 7					
Plug 8					
Plug 9					
Plug 10					

Please Note: All gel spacers between plugs will exceed 9 ppg

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4702300020P



Well Information	
Well Name	VEPCO 2565
Location	West Virginia
Formation	Oriskany
PN#	821704
AFE#	1010392
WO#	4000478997
WBS	PA-1082170400-01
API#	47-023-00020
Latitude	39.0734781
Longitude	-79.2942593

Contact Information			
Title	Name	E-mail	Phone
Production Engineer	JJ Kim	jj.kim@chk.com	(405) 596-0720
Production Engineer (Secondary)			
Production Manager	John Van Gels	john.vangels@chk.com	(636) 448-1104
Production Supervisor	Keeley Bergman	keeley.bergman@chk.com	(918) 991-5520
Production Superintendent	Chris Sprute	chris.sprute@chk.com	(318) 771-2769
Workover Foreman	Lucas Welch	lucas.welch@chk.com	(570) 423-4236
Regulatory Manager	Eric Haskins	eric.haskins@chk.com	(607) 242-3839
DEP Contact	Jeffrey W. McLaughlin	Jeffrey.W.McLaughlin@wv.gov	601-205-3906
BLM Contact	Trey Mitchell	tmitchell@blm.gov	(414) 297-4438



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TIGHT HOLE

IV-35
(Rev 8-81)

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SEP 01 1988

State of West Virginia
Department of Mines
Oil and Gas Division

Date August 29, 1988
Operator's WVG02565
Well No. _____
Farm/Vepco Unit #1 _____
API No. 47 - 023 - 0020

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___
(If "Gas," Production X / Underground Storage ___ / Deep X / Shallow ___)

LOCATION: Elevation: 3460 Watershed Big Star Run
District: Union County Grant Quadrangle Blackbird Knob

COMPANY EQUITABLE RESOURCES EXPLORATION, INC.

ADDRESS P. O. Drawer 40, Buckhannon, WV 26201

DESIGNATED AGENT Douglas P. Terry

ADDRESS P. O. Drawer 40, Buckhannon, WV 26201

SURFACE OWNER Virginia Electric & Power Co.

ADDRESS One James River Plaza, Richmond, VA 23219

MINERAL RIGHTS OWNER same as surface

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK Phillip Tracy
P. O. Box 2536
ADDRESS Elkins, WV 26241

PERMIT ISSUED 8/20/87

DRILLING COMMENCED 9/15/87

DRILLING COMPLETED 10/15/87

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

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.	11'	0	
13-10"		154.50	165.2
9 5/8"		3502.29	1353.5
8 5/8"			
7"			
5 1/2"		9886.59	720.5
4-1/2"			
3"			
2 3/8"		9700	
Liners used			

7 7/8" hole

GEOLOGICAL TARGET FORMATION Oriskany Depth 9400 feet

Depth of completed well 9915 feet Rotary X / Cable Tools _____

Water strata depth: Fresh 39,98,180 feet; Salt 0 feet

Coal seam depths: 0 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation _____ Pay zone depth _____ feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure _____ psig (surface measurement) after _____ 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 _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

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

TIGHT HOLE

Frac 10/28/87 Halliburton
 Perforations: 9732-9786, Corriganville - 1500 gals. 15% Fe Acid
 220,000 lbs. 20/40 sand
 2/20/88 - Halliburton, Corriganville - 1000 gals. 5% Fe acid.
 3/2/88 - Halliburton
 Perforations: 9396-9476, Oriskany - 5% HCl
 10,000 lbs. 80/100 sand
 220,000 lbs. 20/40 sand
 Baker R-3 Production Packer @ 9512', bottom Tbg. @ 9700'.
 RTTS Packer @ 9754', left in hole (junk).

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DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Mauch Chunk Groups			surface		
Foreknobs Group			3496	5337	1/2" Stream of wtr. @ 39'
Scherr Group			5337		3/4" stream of wtr. @ 98'
Sycamore			7442	7471	1/2" stream of wtr. @ 180'
Harrell Shale			8251	8644	
Tully Horizon			8644	8649	
Upper Marcellus			9012	9039	
Purcell L.S.			9039	9107	Gas Check @ 2500' no show
Lower Marcellus			9107	9154	@3500' no show
Tioga Metabentonite			9154	9170	@ 4500' 4/10-2" wtr.
Needmore Shale			9170	9286	@ 5766' 2/10-1 1/4" wtr.
Oriskany S.S.			9286	9486	@ 6554' 2/10-1 1/4" wtr.
helderberg			9486	9712	
Mandata Shale			9712	9727	
Corriganville L.S.			9727	9795	
New Creek L.S.			9795	9832	
Keyser L.S.			9832	9915 T.D.	

(Attach separate sheets as necessary)

EQUITABLE RESOURCES EXPLORATION, INC.

Well Operator

By: Douglas P. Terry

Date: August 29, 1988 DOUGLAS P. TERRY

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including ... encountered in the drilling of a well."

4702300020P

WW-4A
Revised 6-07

1) Date: 2/16/2022
2) Operator's Well Number
CHESAPEAKE APPALACHIA LLC

3) API Well No.: 47 - 023 - 00020

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>VIRGINIA ELECTRIC AND POWER CO</u>	Name _____
Address <u>PO BOX 27026</u>	Address _____
<u>RICHMOND, VA 23267</u>	
(b) Name <u>UNITED STATES OF AMERICA/US FOREST SERVICE</u>	(b) Coal Owner(s) with Declaration
Address <u>1400 INDEPENDENCE AVE., SW</u>	Name <u>VIRGINIA ELECTRIC AND POWER CO</u>
<u>WASHINGTON, DC 20250</u>	Address <u>PO BOX 27026</u>
	<u>RICHMOND, VA 23267</u>
(c) Name _____	Name <u>UNITED STATES OF AMERICA / US FOREST SERVICE</u>
Address _____	Address <u>PO BOX 1548</u>
	<u>ELKINS, WV 26241</u>
6) Inspector <u>GAYNE J KNITOWSKI</u>	(c) Coal Lessee with Declaration
Address <u>601 57TH STREET SE</u>	Name _____
<u>CHARLESTON WV 25304</u>	Address _____
Telephone <u>304546-8171</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 CHESAPEAKE APPALACHIA LLC
 By: [Signature]
 Its: REGULATORY SPECIALIST
 Address PO BOX 18496
OKLAHOMA CITY, OK 73154-0496
 Telephone 405-766-8791

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Office of Oil and Gas

Subscribed and sworn before me this 18th day of MAY

MAY 23 2022

Kyle Bradley Notary Public
My Commission Expires 7/18/22

WV Department of
Environmental Protection

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 depprivacyoffier@wv.gov.

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From: [Mailroom](#)
To: [Keri Fieno](#)
Subject: USPS Tracking information for item mailed using Endicia
Date: Wednesday, April 6, 2022 3:58:36 PM

Classification: DCL-Internal

A package was shipped on 04/06/2022 via U.S. Postal Service Priority Mail, Flat Rate Env to the following address:

VIRGINIA ELECTRIC AND POWER CO
PO BOX 27026
RICHMOND VA 23261-7026

The following optional services were used: None

The package's USPS Tracking ID is 420232619405511899561693013889

To check the delivery status of your package at any time please visit:

<https://www.endicia.com/Status/?PIC=9405511899561693013889>

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<http://www.usps.com/shipping/trackandconfirm.htm>

Mailroom
Chesapeake Energy

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Your item has been delivered and is available at a PO Box at 2:02 pm on April 9, 2022 in RICHMOND, VA 23232.

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Delivered, PO Box

April 9, 2022 at 2:02 pm
RICHMOND, VA 23232

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To: [Keri Fieno](#)
Subject: USPS Tracking information for item mailed using Endicia
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Classification: DCL-Internal

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UNITED STATES OF AMERICA
US FOREST SERVICE
PO BOX 1548
ELKINS WV 26241-1548

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Tracking Number: 420262419405511899561693043626

[Remove X](#)

Your item has been delivered and is available at a PO Box at 7:49 am on April 8, 2022 in ELKINS, WV 26241.

USPS Tracking Plus® Available [v](#)

 **Delivered, PO Box**

April 8, 2022 at 7:49 am
ELKINS, WV 26241

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MAY 23 2022
WV Department of
Environmental Protection

4702300020P

WW-9
(5/16)

API Number 47 - 023 - 00020
Operator's Well No. VEPCO 2565

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

Operator Name CHESAPEAKE APPALACHIA LLC OP Code 2528

Watershed (HUC 10) LUNINE CREEK Quadrangle BLACKBIRD KNOB

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 _____)

Will closed loop system be used? If so, describe: DRILL CUTTINGS WILL BE CIRCULATED BACK INTO AN OPEN TANK

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

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

Additives to be used in drilling medium? NONE

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

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

-Landfill or offsite name/permit number? KIMBLE SANITARY LANDFILL OR MUD MASTERS

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 *Keri Fieno*

Company Official (Typed Name) KERI FIENO

Company Official Title REGULATORY SPECIALIST

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Office of Oil and Gas

MAY 23 2022

WV Department of
Environmental Protection

Subscribed and sworn before me this 6th day of APRIL, 2022

Kyle Bradley

Notary Public

My commission expires 7/18/22



Proposed Revegetation Treatment: Acres Disturbed 10 Prevegetation pH

Lime 3.90 Tons/acre or to correct to pH 7

Fertilizer type 8-16-16

Fertilizer amount 968 lbs/acre

Mulch 3 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

OATS/ANNUAL RYE 40LBS/ACRE

BIRDSFOOT TREFOIL 8LBS/ACRE

HAY/STRAW MULCH 3 TONS/ACRE

TALL FESCUE 40LBS/ACRE

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:

Digitally signed by Gayne Knitowski
Date: 2022.03.29 16:05:09 -0400

Comments:

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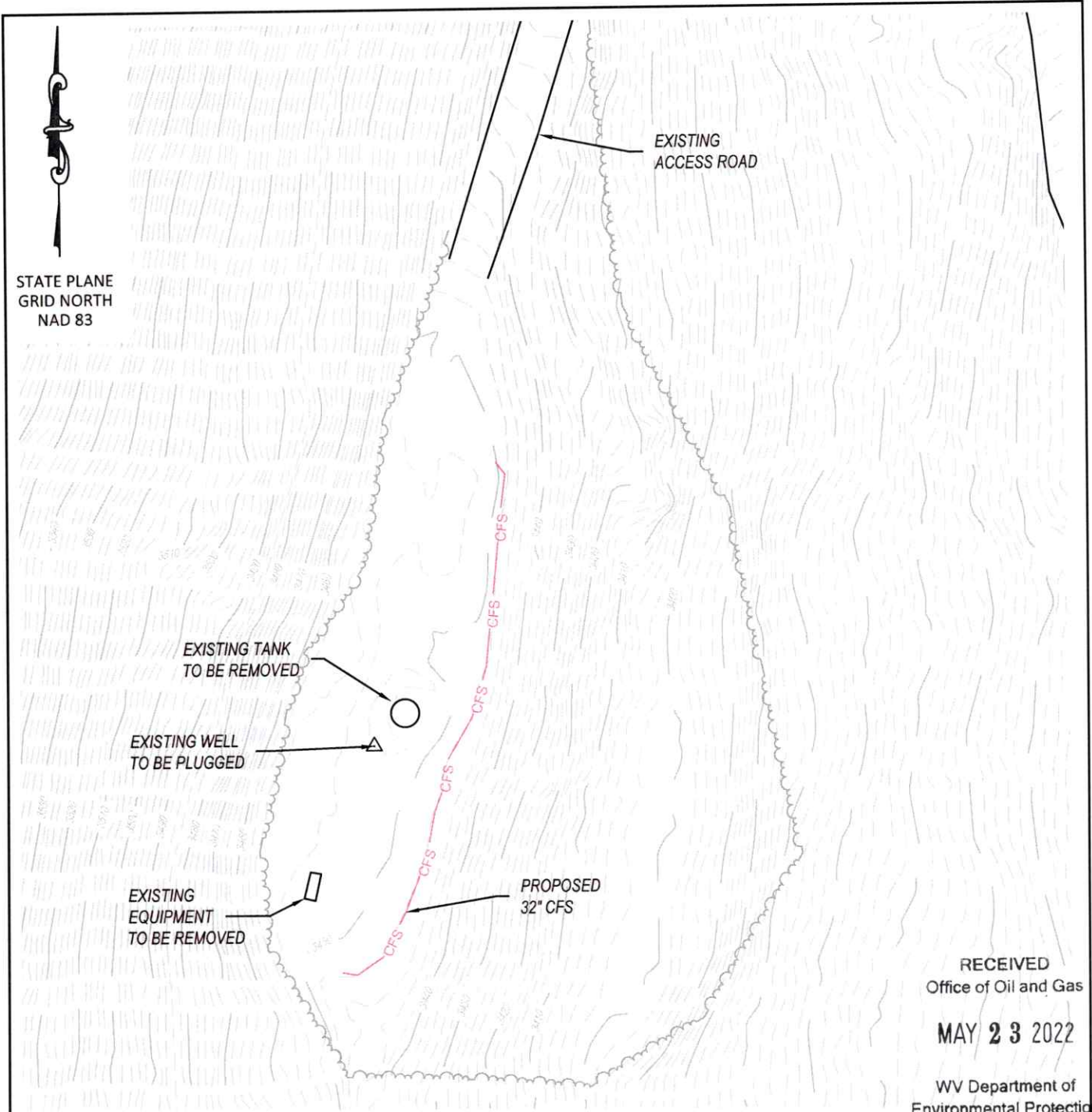
MAY 23 2022

WV Department of
Environmental Protection

Title: Inspector

Date: 3-29-22

Field Reviewed? (X) Yes () No



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MAY 23 2022
WV Department of
Environmental Protection

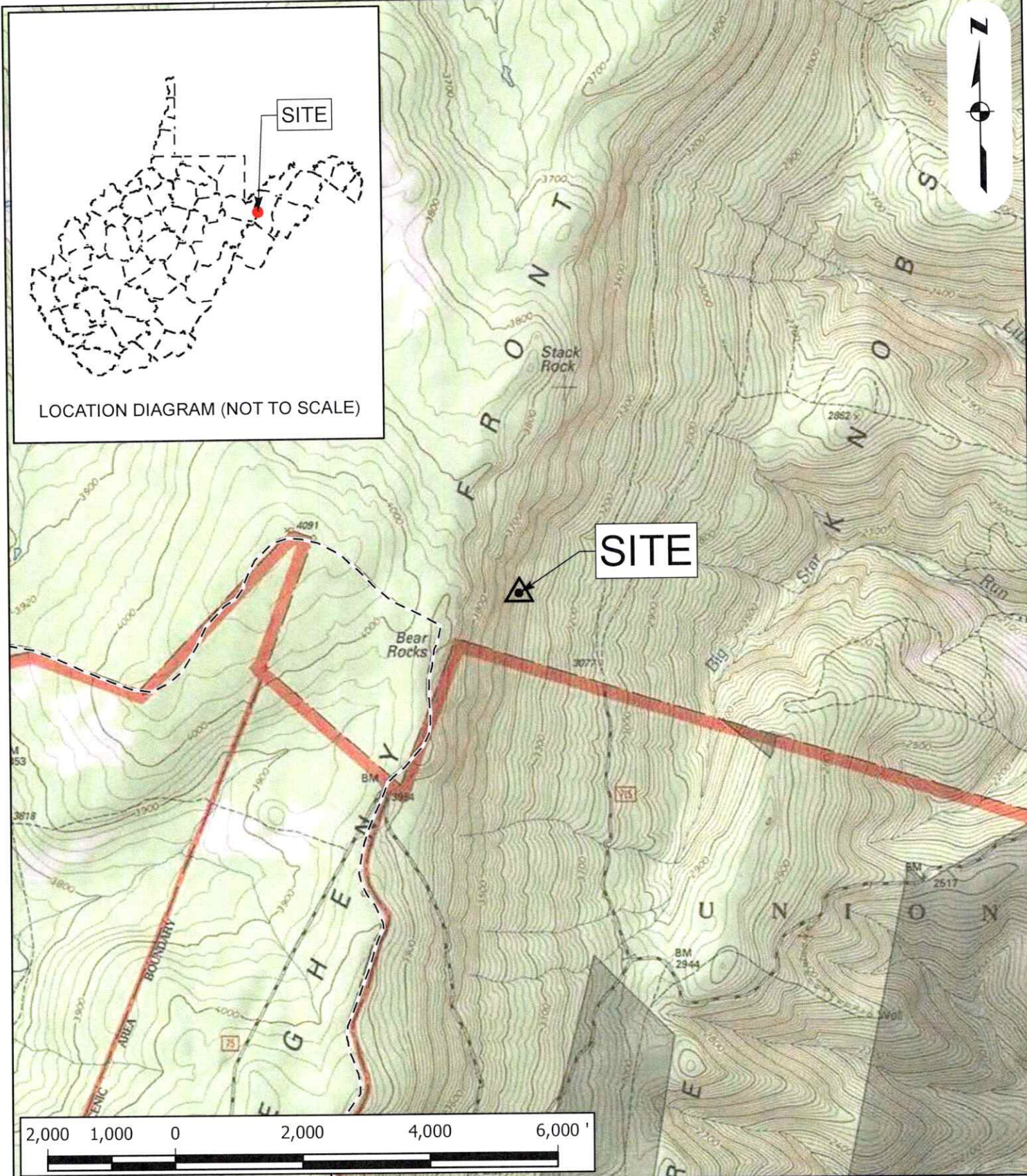
NOTE: ALL PRODUCTION FACILITIES
WILL BE REMOVED UPON COMPLETION
OF THE PLUGGING OPERATIONS.



**VEPCO 2565
SITE RECLAMATION
API# 47-023-00020**
FOR
CHESAPEAKE ENERGY
LOCATED IN
GRANT COUNTY, WEST VIRGINIA

LEGEND	
EXISTING CONTOUR	
EXISTING TREE LINE	
EXISTING ACCESS ROAD EDGE	
WELLHEAD	
COMPOSITE FILTER SOCK	

JHA Companies | ENGINEERS SURVEYORS ENVIRONMENTAL GIS MAPPING
www.jhacompanies.com
844-542-4757
466 SOUTH MAIN STREET
MONTROSE, PA 18801
PA • OH • NY • WV • VA • MD



USGS LOCATION MAP

PREPARED FOR
VEPCO 2565 SITE

GRANT COUNTY, WEST VIRGINIA
BLACKBIRD KNOB USGS QUAD

PROJECT -	VEPCO 2565
DATE -	2/8/2022
SCALE -	1" = 2,000'
DRAWN -	JKANE
FILE -	VEPCO 2565_USGS_LOCATION_MAP.mxd



(844) 542-4757

WW-7
8-30-06



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

API: 47-023-00020 WELL NO.: 2565

FARM NAME: VEPCO

RESPONSIBLE PARTY NAME: CHESAPEAKE APPALACHIA LLC

COUNTY: GRANT DISTRICT: UNION

QUADRANGLE: BLACKBIRD KNOB

SURFACE OWNER: VIRGINIA ELECTRIC AND POWER CO

ROYALTY OWNER: VIRGINIA ELECTRIC AND POWER CO

UTM GPS NORTHING: 39.0734781 ⁴³²⁶³²⁶

UTM GPS EASTING: -79.2942593 ⁶⁴⁷⁵⁷⁴ GPS ELEVATION: 3480'

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	<input checked="" type="checkbox"/>	: Post Processed Differential	<input type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>
Mapping Grade GPS	<input type="checkbox"/>	: Post Processed Differential	<input type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>

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MAY 23 2022

WV Department of
Environmental Protection

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.

Yue Li
Signature

REGULATORY SPECIALIST
Title

5/16/22
Date

11/10/2016

PLUGGING PERMIT CHECKLIST

Plugging Permit

- WW-4B
- WW-4B signed by inspector
- WW-4A
- SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- WW-9 PAGE 1 (NOTARIZED)
- WW-9 PAGE 2 with attached drawing of road, location, pit and proposed area for land application
- WW-9 GPP PAGE 1 and 2 if well effluent will be land applied
- RECENT MYLAR PLAT OR WW-7
- WELL RECORDS/COMPLETION REPORT *-Not Available*
- TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED
- MUST HAVE VALID BOND IN OPERATOR'S NAME
- CHECK FOR \$100 IF PIT IS USED

RECEIVED
Office of Oil and Gas

MAY 23 2022

WV Department of
Environmental Protection



- Table Descriptions
- County Code Translations
- Permit-Numbering Series
- Usage Notes
- Contact Information
- Disclaimer
- WVGES Main
- "Pipeline-Plus" New

Select County: (023) Grant Select datatypes: (Check All)

Enter Permit #: 00020

Location Production Plugging
 Owner/Completion Stratigraphy Sample
 Pay/Show/Water Logs Btm Hole Loc

WV Geological & Economic Survey: Report Time: Thursday, May 26, 2022 1:48:50 PM

Well: County = 23 Permit = 00020

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4702300020	Grant	20	Union	Blackbird Knob	Davis	39.073573	-79.29385	647589.9	4326326.4

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR	AT_COMPLETION	PROP_VD	PROP
4702300020	10/15/1987	Original Loc	Completed	Virginia Elect & Power	2565				Virginia Elect & Power	Union Drilling, Inc.			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FT
4702300020	10/15/1987	9/15/1987	3460	Ground Level	Keyser Ls	Keyser Ls	Deeper-pool Test	Deeper-pool Test	Gas	Rotary	Acid+Frac	9915	9915	991

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH	TOP	FM	TOP	DEPTH	BOT	FM	BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4702300020	10/15/1987	Pay	Gas	Vertical	9396	Oriskany	9476	Oriskany	0	0	0	0	0	0	0	0	0
4702300020	10/15/1987	Pay	Gas	Vertical	9732	Corriganville	9738	Corriganville	0	0	0	0	0	0	0	0	0
4702300020	10/15/1987	Pay	Gas	Vertical	9770	Corriganville	9775	Corriganville	0	0	0	0	0	0	0	0	0
4702300020	10/15/1987	Pay	Gas	Vertical	9779	Corriganville	9782	Corriganville	0	0	0	0	0	0	0	0	0
4702300020	10/15/1987	Pay	Gas	Vertical	9784	Corriganville	9786	Corriganville	0	0	0	0	0	0	0	0	0

Production Gas Information: (Volumes in Mcf) * 2021 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4702300020	Union Drilling, Inc.	1987	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Equitable Resources Exploration, Inc.	1988	30,659	310	6,216	2,456	4,240	0	0	1,168	3,349	3,539	3,333	3,027	3,021
4702300020	Equitable Resources Exploration, Inc.	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Columbia Natural Resources, Inc. (CNR)	1995	2,056	202	173	388	391	197	134	0	80	138	114	128	111
4702300020	Columbia Natural Resources, Inc. (CNR)	1996	1,010	40	300	27	79	121	81	89	45	15	71	51	91
4702300020	Columbia Natural Resources, Inc. (CNR)	1999	1,542	95	121	132	115	147	152	123	133	130	154	116	124
4702300020	Columbia Natural Resources, Inc. (CNR)	2000	1,598	86	109	135	105	144	131	130	142	183	187	126	120
4702300020	Columbia Natural Resources, Inc. (CNR)	2001	1,476	131	112	118	130	135	98	134	135	127	138	141	77
4702300020	Columbia Natural Resources, Inc. (CNR)	2002	993	93	80	87	70	74	75	144	129	114	127	0	0
4702300020	Columbia Natural Resources, Inc. (CNR)	2003	1,401	0	0	12	245	363	119	113	150	139	71	81	108
4702300020	Columbia Natural Resources, Inc. (CNR)	2004	1,411	128	119	108	84	117	108	143	140	119	117	109	119
4702300020	Columbia Natural Resources, Inc. (CNR)	2005	1,214	94	86	103	87	115	106	111	91	108	111	102	100
4702300020	Chesapeake Appalachia, LLC	2006	714	60	41	48	45	76	50	68	64	73	46	94	49
4702300020	Chesapeake Appalachia, LLC	2007	826	53	58	77	54	62	96	79	73	76	49	75	74
4702300020	Chesapeake Appalachia, LLC	2008	1,087	103	73	49	108	95	129	142	85	58	88	95	62
4702300020	Chesapeake Appalachia, LLC	2009	1,106	67	77	103	97	49	113	121	104	119	110	102	44
4702300020	Chesapeake Appalachia, LLC	2010	143	59	84	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2011	169	0	83	0	0	0	0	0	0	0	0	0	86
4702300020	Chesapeake Appalachia, LLC	2012	767	71	0	52	78	103	116	119	106	60	62	0	0
4702300020	Chesapeake Appalachia, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0

4702300020P

4702300020	Chesapeake Appalachia, LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4702300020	Chesapeake Appalachia, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2021 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4702300020	Union Drilling, Inc.	1987	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Equitable Resources Exploration, Inc.	1988	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Equitable Resources Exploration, Inc.	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Columbia Natural Resources, Inc. (CNR)	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Columbia Natural Resources, Inc. (CNR)	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Columbia Natural Resources, Inc. (CNR)	1999	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Columbia Natural Resources, Inc. (CNR)	2000	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Columbia Natural Resources, Inc. (CNR)	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Columbia Natural Resources, Inc. (CNR)	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Columbia Natural Resources, Inc. (CNR)	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Columbia Natural Resources, Inc. (CNR)	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Columbia Natural Resources, Inc. (CNR)	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2021 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4702300020	Chesapeake Appalachia, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2021 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4702300020	Chesapeake Appalachia, LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300020	Chesapeake Appalachia, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM QUALITY	DEPTH_TOP	DEPTH	QUALITY	THICKNESS	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4702300020	Original Loc	Foreknobs Fm	Well Record	3496	Reasonable	1841	Reasonable	3460	Reasonable	3460	Ground Level
4702300020	Original Loc	Scherr Fm	Well Record	5337	Reasonable	0	Reasonable	3460	Reasonable	3460	Ground Level
4702300020	Original Loc	Sycamore	Well Record	7442	Reasonable	29	Reasonable	3460	Reasonable	3460	Ground Level

4702300020P

4702300020	Original Loc	Harrell Sh	Well Record	8251	Reasonable	393	Reasonable	3460	Ground Level
4702300020	Original Loc	Tully Ls	Well Record	8644	Reasonable	5	Reasonable	3460	Ground Level
4702300020	Original Loc	Up Marcellus	Well Record	9012	Reasonable	27	Reasonable	3460	Ground Level
4702300020	Original Loc	Purcell Ls Mbr	Well Record	9039	Reasonable	68	Reasonable	3460	Ground Level
4702300020	Original Loc	lo Marcellus	Well Record	9107	Reasonable	47	Reasonable	3460	Ground Level
4702300020	Original Loc	Tioga	Well Record	9154	Reasonable	16	Reasonable	3460	Ground Level
4702300020	Original Loc	Needmore Sh	Well Record	9170	Reasonable	116	Reasonable	3460	Ground Level
4702300020	Original Loc	Oriskany	Well Record	9286	Reasonable	200	Reasonable	3460	Ground Level
4702300020	Original Loc	Helderberg	Well Record	9486	Reasonable	226	Reasonable	3460	Ground Level
4702300020	Original Loc	Mandata Sh	Well Record	9712	Reasonable	15	Reasonable	3460	Ground Level
4702300020	Original Loc	Corriganville	Well Record	9727	Reasonable	68	Reasonable	3460	Ground Level
4702300020	Original Loc	New Creek	Well Record	9795	Reasonable	37	Reasonable	3460	Ground Level
4702300020	Original Loc	Keyser Ls	Well Record	9832	Reasonable	0	Reasonable	3460	Ground Level

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well



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

ATTN: Plugging permit 4702300020

3 messages


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

Mon, Aug 1, 2022 at 2:55 PM

To: Gayne J Knitowski <gayne.j.knitowski@wv.gov>, rlayton@assessor.state, Brent.Antolik@chk.com

To whom it may concern, a plugging permit for 470230020 has been issued.

James Kennedy
OOG WVDEP

2 attachments **4702300020 - Copy.pdf**
4589K **IR-8 Blank.pdf**
237K

Mail Delivery Subsystem <mailer-daemon@googlemail.com>

Mon, Aug 1, 2022 at 2:56 PM

To: james.p.kennedy@wv.gov

**Address not found**

Your message wasn't delivered to **rlayton@assessor.state** because the domain assessor.state couldn't be found. Check for typos or unnecessary spaces and try again.

[LEARN MORE](#)

The response was:

DNS Error: DNS type 'mx' lookup of assessor.state responded with code NXDOMAIN Domain name not found: assessor.state Learn more at <https://support.google.com/mail/?p=BadRcptDomain>

Final-Recipient: rfc822; rlayton@assessor.state

Action: failed

Status: 5.1.2

Diagnostic-Code: smtp; DNS Error: DNS type 'mx' lookup of assessor.state responded with code NXDOMAIN Domain name not found: assessor.state Learn more at <https://support.google.com/mail/?p=BadRcptDomain>

Last-Attempt-Date: Mon, 01 Aug 2022 11:56:06 -0700 (PDT)

----- Forwarded message -----

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

To: Gayne J Knitowski <gayne.j.knitowski@wv.gov>, rlayton@assessor.state, Brent.Antolik@chk.com

Cc:

Bcc:

Date: Mon, 1 Aug 2022 14:55:49 -0400

Subject: ATTN: Plugging permit 4702300020

----- Message truncated -----

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

Mon, Aug 1, 2022 at 3:00 PM

To: rlayton@assessor.state.wv.us

to whom it may concern plugging permit has been issued for 4702300020 has been issued.

[Quoted text hidden]



4702300020 - Copy.pdf

4589K