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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Thursday, January 31, 2019  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

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

OKLAHOMA CITY, OK 73118

Re: Permit approval for 2082  
47-023-00009-00-00

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: 2082  
Farm Name: HEAVNER, OATHER & HAZE  
U.S. WELL NUMBER: 47-023-00009-00-00  
Vertical Plugging  
Date Issued: 1/31/2019

A blue ink signature of James A. Martin, Chief, is written over the permit details.

I

## 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

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged under the terms of that agreement.

47-023-00009 P

WW-4B  
Rev. 2/01

1) Date 11-5, 2018  
2) Operator's  
Well No. ~~2528~~ 2082  
3) API Well No. 47-023 - 00009

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 837.59 Watershed \_\_\_\_\_  
District Milroy County Grant Quadrangle Hopeville, WV

6) Well Operator Chesapeake Appalachia, LLC 7) Designated Agent Eric Haskins - Manager Reg. Ops  
Address P.O. 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 Bryan Harris Name Chesapeake Appalachia, LLC  
Address P.O. Box 157 Address P.O. Box 18496  
Volga, WV 26238 Oklahoma City, OK 73154-0496

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

See attached NOTIFY INSPECTOR BRYAN HARRIS  
@ 34 - 553-6087

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OK gwm

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

Work order approved by inspector \_\_\_\_\_ Date \_\_\_\_\_

SCOPE OF OPERATION

1. Safety is the highest priority. Control costs and avoid unnecessary expenditures.
2. TOOH with 2-3/8" tubing. Set CIBP above perms. TIH w/ 2 3/8" tubing.
3. Pump required cement and gel plugs per WV DEP state requirements
4. Plant a well monument with WV State API number

PROCEDURE

1. Contact the BLM Inspector 48 hours prior to operations.
2. Safety is the highest priority. Hold wellsite safety meetings prior to each significant operation. Review critical parameters and objectives as well as emergency action plans.
3. MIRU construction equipment if necessary to repair road / location in order to get workover rig in. Remove any tanks, separators, well lines, meter runs, exc.
4. MIRU service rig & needed BOP equipment. NOTE: Blow down well to pit or tank.
5. TOOH with 8,316' of 2 3/8" tubing.
6. RIH w/ sandline tools and RIH w/ 5K CIBP & set @ 8,280'.
7. TIH strapping 2 3/8" tubing & tag 5K CIBP @ 8,280'. Load hole with 192 bbls of 6% gelled water or break surface with circulation.
8. Pump 12 sks of Class A cement for 100' cement plug on top of CIBP, flush tubing with 33 bbls 6% gelled water. TOOH with 2 3/8" tubing to surface.
9. ND BOP & 'B' Section. Weld on 5 1/2" pull sub. RU casing jacks and remove slips. Work casing for free point and ensure casing is free no deeper than 8,100' (actual free point will determine point to cut casing, cut 100' above free point).
10. NU 'B' Section & BOP. RU Wireline and cut 5 1/2" casing @ 100' above free point. Pull and laydown casing. ≈ 4000'
11. TIH w/ 2 3/8" tubing to 50' inside of top of casing 5 1/2" stub (50' inside of 5 1/2" casing). Circulate hole w/ 487 bbls of 6% gelled water. Pump ~~22~~ <sup>44 SKS</sup> sks of Class A cement for ~~100~~ <sup>200</sup>' cement plug (50' inside of 5 1/2" & ~~50~~ <sup>150</sup>' above casing stub), flush tubing with 33 bbls 6% gelled water. 150'

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- 12. TOO H w/ 2 3/8" tubing to 2,785' and Pump 32 sks of Class A cement for 100' elevation cement plug, flush tubing with 10 bbls 6% gelled water
- 13. TOO H w/ 2 3/8" tubing to 2,579' and Pump 32 sks of Class A cement for 100' intermediate shoe cement plug, flush tubing with 7 bbls 6% gelled water
- 14. TOO H w/ 2 3/8" tubing to <sup>300'</sup>~~100'~~ Pump <sup>18</sup>~~6~~ bbl of 6% gelled water or break circulation. Pump <sup>27</sup>~~29~~ sks of Class A cement for <sup>300'</sup>~~100'~~ surface cement plug, TOO H w/ tubing.
- 15. Top off well with required Class A cement as needed.
- 16. RDMO all service equipment providers and reclaim location to BLM requirements.

SET MONUMENT PER WV STATE CODE.

*J. W. [Signature]*

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WELL DATA

Location (Surface)	Lat. 38.965631 Long. -79.3206731
TD	8,228'

CASING AND TUBULAR DATA

STRING	SIZE	WEIGHT/GRADE	DEPTH
Intermediate	9 5/8"	40 lb/ft; J-55 (Assumed)	2,529'
Production	5 1/2"	17 lb/ft; N-80 (Assumed)	8,575'

PRESSURE AND DIMENSIONAL DATA

SIZE	WEIGHT	GRADE	BURST	COLLAPSE	DRIFT
13 3/8"	48lb/ft	H-40	1,730	740	12.559"
9 5/8"	40 lb/ft	J-55	3,950	2,570	8.835"
5 1/2"	17 lb/ft	N-80	5,320	4,910	4.767"
2 3/8"	4.7 lb/ft	N-80	11,200	11,780	1.901"

CAPACITIES

SIZE	WEIGHT	CAPACITY (FT <sup>3</sup> /FT.)	CAPACITY (BBL/FT.)
13 3/8"	48lb/ft	0.8817	0.1570
9 5/8"	40 lb/ft	0.3575	0.0636
7 7/8"	Open Hole	0.3382	0.0583
5 1/2"	17.0 lb/ft	0.1305	0.0232
2 3/8"	4.7 lb/ft	0.0217	0.0039

WELLHEAD EQUIPMENT

COMPONENT	SIZE & RATING
Manufacturer	No Record
Tubing Spool	No Record
Casing Spool	No Record
Bradenhead	No Record

DRIVING DIRECTIONS

Contact Field Personnel

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IV-35 (Rev 8-81)

821332-PI

State of West Virginia Department of Mines Oil and Gas Division

Date December 18, 1986 Operator's Well No. 1 - 2082 Farm Oather Heavner #1 API No. 47 - 023 - 0009 CONFIDENTIAL

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 / Underground Storage / Deep XXX Shallow /)

LOCATION: Elevation: Watershed District: County Quadrangle

COMPANY Union Drilling, Inc. ADDRESS P.O. Drawer 40, Buckhannon, WV 26201 DESIGNATED AGENT Joseph C. Fettey ADDRESS P.O. Drawer 40, Buckhannon, WV 26201 SURFACE OWNER Oather Heavner, et. ux. ADDRESS Route 1, Box 243, Maysville, WV 26833 MINERAL RIGHTS OWNER same as surface OIL AND GAS INSPECTOR FOR THIS WORK Phil Tracy ADDRESS P.O. Box 2536, Elkins, WV 26241 PERMIT ISSUED 8/13/86 DRILLING COMMENCED 8/17/86 DRILLING COMPLETED 10/14/86 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2 3/8, and Liners used.

GEOLOGICAL TARGET FORMATION Oriskany Depth 9000' feet Depth of completed well 8612' feet Rotary XXX / Cable Tools Water strata depth: Fresh 117' feet; Salt none feet Coal seam depths: none Is coal being mined in the area? no

OPEN FLOW DATA Producing formation Oriskany Pay zone depth 8394' feet Gas: Initial open flow Did not test Mcf/d Oil: Initial open flow Bbl/d Final open flow 746 Mcf/d Final open flow Bbl/d Time of open flow between initial and final tests 2 hours Static rock pressure 2546# psig (surface measurement) after 72 hours shut in (If applicable due to multiple completion--)

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(Continue on reverse side)

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

Halliburton - frac - 11/29/86  
 8338/42 - Oriskany - 218,500# sand, 5000 gals methanol, 29,800 lbs of Potassium Chloride, and 2401 gals water  
 8348/52  
 8390/94

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Red Rock			0	12	1" stream fresh water @117'
Sand			12	53	
Sand & Shale			53	125	
Sand			125	302	
Red Rock			302	386	
Sand & Shale			386	4786	
Harrell Shale			7262	7672	
Tully Horizon			7674	7955	
Upper Marcellus			7956	7970	
Purcell			7970	8048	
Lower Marcellus			8049	8088	
Tioga			8089	8091	
Metabentonite			8095	8097	
Needmore			8103	8228	
Oriskany			8228	8428	
Helderberg			8429	8632'	- could not test, bad bore hole conditions

(Attach separate sheets as necessary)

Union Drilling, Inc.  
 Well Operator  
 By: Joseph C. Pettey  
 Date: Joseph C. Pettey, Vice President of Production  
 12/18/86

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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 coal, encountered in the drilling of a well."



47-023-00009 P

WW-4A  
Revised 6-07

1) Date: 11-5-2018  
2) Operator's Well Number 2528

3) API Well No.: 47 - 023 - 00009

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

<b>4) Surface Owner(s) to be served:</b>	<b>5) (a) Coal Operator</b>
(a) Name <u>Elvin Heavner</u>	Name <u>Elvin Heavner</u>
Address <u>2126 Jordan Run Rd.</u>	Address <u>2126 Jordan Run Rd.</u>
<u>Maysville, WV 26833</u>	<u>Maysville, WV 26833</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
<b>6) Inspector</b> <u>Bryan Harris</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 157</u>	Name _____
<u>Volga, WV 26238</u>	Address _____
Telephone _____	_____

**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: Marlene Williams *Marlene Williams*  
 Its: Regulatory Analyst II  
 Address P.O. Box 18496  
Oklahoma City, OK 73154-0496  
 Telephone 405-935-4158

Subscribed and sworn before me this 5<sup>th</sup> day of November 2018  
Jacquelyn Potvin Notary Public  
 My Commission Expires 10-21-21



NOV 14 2018

**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](mailto:depprivacyoffier@wv.gov).

47-023-00009

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WW-9  
(5/16)

JAN 30 2019

API Number 47 - 023 - 00009  
Operator's Well No. 2528

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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 \_\_\_\_\_

Watershed (HUC 10) \_\_\_\_\_ Quadrangle \_\_\_\_\_

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 Chesapeake will not use pits and intends to utilize tanks. Chesapeake plans to contract Eco-First Environmental Services to dispose of the fluids at the appropriate off-site facility.) \_\_\_\_\_

Will closed loop system be used? If so, describe: No

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

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

Additives to be used in drilling medium? \_\_\_\_\_

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

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

-Landfill or offsite name/permit number? \_\_\_\_\_

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 Marlene Williams

Company Official (Typed Name) Marlene Williams

Company Official Title Regulatory Analyst II

Subscribed and sworn before me this 29<sup>th</sup> day of January, 2019

Morgan Beuchaw Notary Public

My commission expires 8/10/19



47-023-00009 A

Form WW-9

Operator's Well No. 2528

Proposed Revegetation Treatment: Acres Disturbed 1.15 Prevegetation pH 6.25

Lime 0.75 Tons/acre or to correct to pH 7

Fertilizer type 19-19-19

Fertilizer amount 350 lbs/acre

Mulch 1.5(promatrix) Tons/acre

Seed Mixtures

**Temporary**

**Permanent**

Seed Type lbs/acre

Seed Type lbs/acre

Oats / Annual Rye 50lbs/acre

Advanced Landscape Blend 300 lbs/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: \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ok

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Field Reviewed? ( ) Yes

( ) No

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N/A

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

Operator Name: Chesapeake Appalachia, LLC  
Watershed (HUC 10): \_\_\_\_\_ Quad: Hopeville, WV  
Farm Name: Oather Heavner

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

See attached

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

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

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

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

N/A

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

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.

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

Signature: \_\_\_\_\_










Date: \_\_\_\_\_

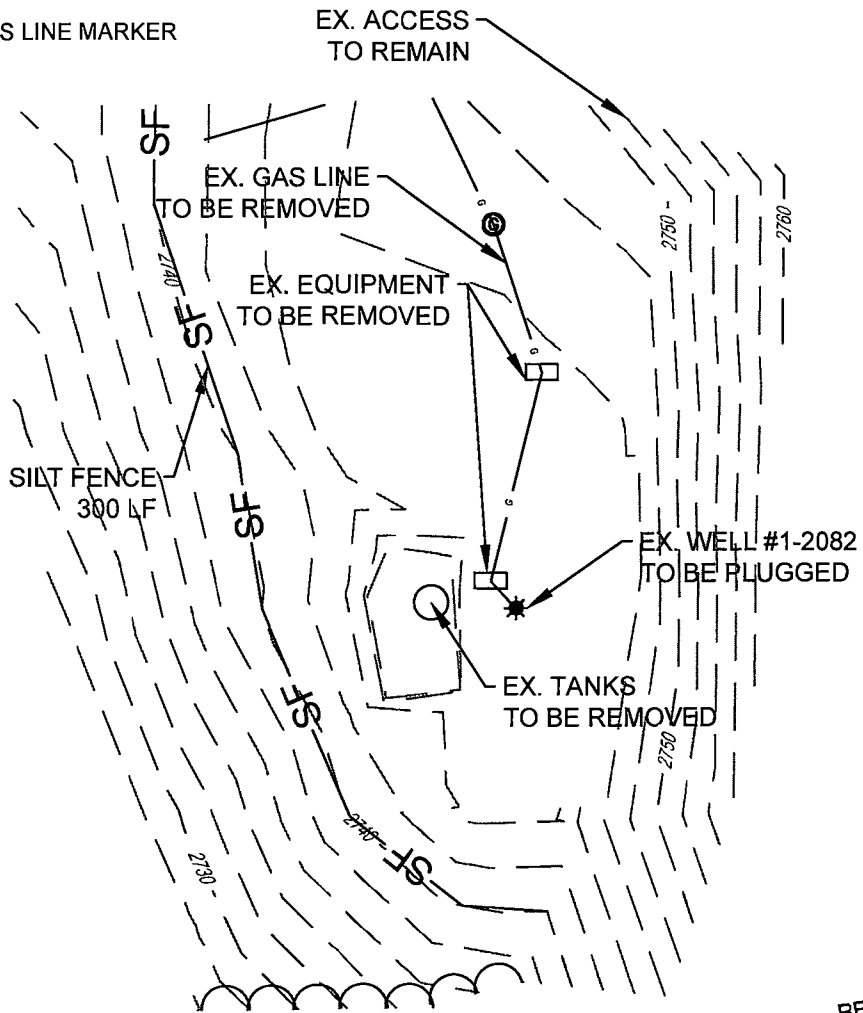
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**LEGEND**

-  EXISTING WELL
-  SILT FENCE
-  EXISTING PAVEMENT
-  MAJOR CONTOUR
-  MINOR CONTOUR
-  GAS LINE
-  TREE LINE
-  EXISTING CULVERT
-  GAS LINE MARKER



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**CHESAPEAKE**  
ENERGY

SITE PLAN  
OATHER HEAVNER SITE RECLAMATION  
API#47-023-0009  
GRANT COUNTY, WEST VIRGINIA

DATE: 10/23/2018

47-023-00009P

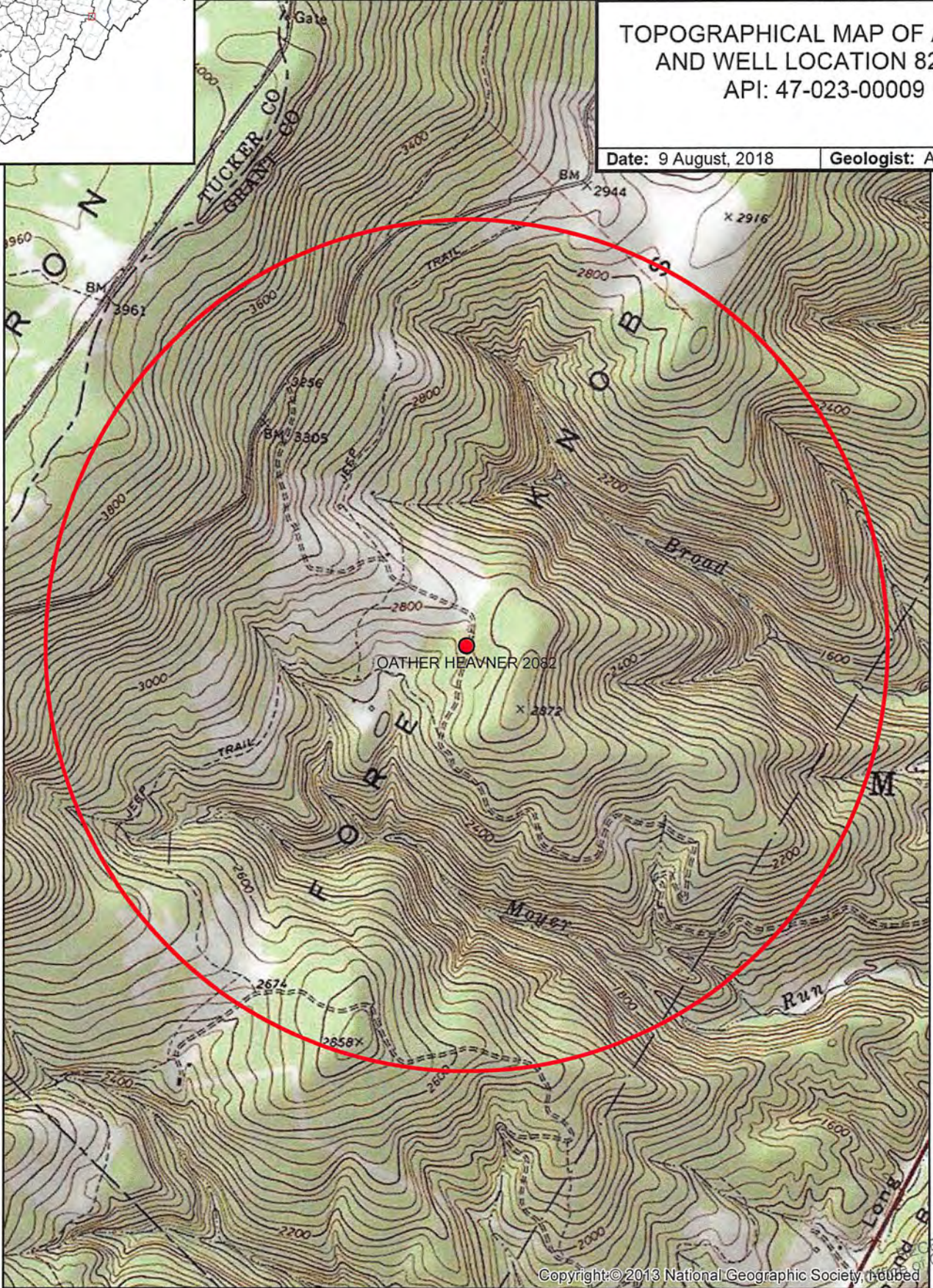
**CHESAPEAKE**  
ENERGY

**CHESAPEAKE**  
OPERATING,  
INC.

**TOPOGRAPHICAL MAP OF ACCESS  
AND WELL LOCATION 821332  
API: 47-023-00009**

Date: 9 August, 2018

Geologist: APPALACHIA



0 0.25 0.5 1 1.5 2 Miles

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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: 47-023-00009 WELL NO.: 2082  
 FARM NAME: Oather Heavner  
 RESPONSIBLE PARTY NAME: Chesapeake Appalachia, LLC  
 COUNTY: Grant DISTRICT: Milroy  
 QUADRANGLE: Hopeville, WV  
 SURFACE OWNER: Elvin Heavner  
 ROYALTY OWNER: Elvin Heavner  
 UTM GPS NORTHING: 4314314.46  
 UTM GPS EASTING: 645509.46 GPS ELEVATION: 837.59

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.

Marlene Williams  
Signature

Regulatory Analyst II  
Title

11-15-2018  
Date