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**west virginia** department of environmental protection

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

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

June 24, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-8702228, issued to CHESAPEAKE APPALACHIA, L.L.C., 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 all 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. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin

Chief

Operator's Well No: 604

Farm Name: OGDEN, M. T. & R. K.

**API Well Number: 47-8702228**

**Permit Type: Plugging**

Date Issued: 06/24/2015

**Promoting a healthy environment.**

**06/26/2015**

1) Date: 6/11/2015  
2) Operator's Well No. 800604 P&A  
3) API Well No. 47-087-02228

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         
(Is Gas, Production   X   or Underground storage   ) Deep        Shallow   X
- 5) Location: Elevation   704'   Watershed   Big Sandy Creek of Elk River    
District   Geary   County   Roane   Quadrangle   Newton, WV 7.5'
- 6) Well Operator   Chesapeake Appalachia, L.L.C.   7) Designated Agent   Jessica Greathouse    
Address   P.O. Box 18496   Address   P.O. Box 6070    
  Oklahoma City, OK 73154-0496     Charleston, WV 25362
- 8) Oil and Gas Inspector to be notified  
Name   Ed Gainer    
Address   P.O. Box 821    
  Spencer, WV 25276
- 9) Plugging Contractor  
Name   Chesapeake Appalachia, L.L.C.    
Address   P.O. Box 18496    
  Oklahoma City, OK 73154-0496

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

See Attached Sheet

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

Work Order approved by Inspector



Received  
Office of Oil & Gas

Date   JUN 15 2015  

06/26/2015

**800604 P&A PROCEDURE**

- 1) Prepare road and location, MIRU service rig
- 2) RIH with tools to check TD approximately at 1600'
- 3) Attempt to pull 3" and packer:
  - A) If successful:
    - a) RIH with W.S. to 1600', spot gel, pull W.S. to 1570'
    - b) Spot 100' cement plug 1570'-1470', pull W.S.
    - c) Proceed to step #4
  - B) If unsuccessful:
    - a) TIH with W.S. to 1600', spot gel
    - b) Spot 100' cement plug 1600'-1500', pull W.S.
    - c) Cut 3" at free-point (approximately 1470') and pull
    - d) Proceed to step #4
- 4) Rip or shoot holes in 6 5/8" approximately at 1435'
- 5) TIH with W.S. to 1470', spot gel
- 6) Spot 150' cement plug 1470'-1320', pull W.S.
- 7) Cut 6 5/8" at free-point (approximately 1300') and pull
- 8) Rip or shoot holes in 8 1/4" approximately at 1280', 1240', 1170'
- 9) TIH with W.S. to 1300', spot gel
- 10) Spot 150' cement plug 1300'-1150", pull W.S.
- 11) Cut 8 1/4" at free-point (approximately 1050') and pull
- 12) Run W.S. to 1050', spot gel
- 13) Spot 100' cement plug 1050'-950', pull W.S. to 925'
- 14) Spot 125' cement plug 925'-800', pull W.S. to 630'
- 15) Spot 100' cement plug 630'-530', pull W.S. to 450'
- 16) Spot 100' cement plug 450'-350', pull W.S. to 150'
- 17) Spot 150' cement plug 150'-surface
- 18) Pull W.S. and top off with cement
- 19) Erect monument and reclaim as prescribed by law  
(with API#)

*[Handwritten signature]*  
6/15/15

Roane 2228

UNITED FUEL GAS COMPANY  
(INCORPORATED)

Well 800604  
API 47-087-02228  
Map Sq. 82-75

SERIAL WELL No. 604 LEASE No. 5618.

RECORD OF WELL No.		1. on the		CASING AND CONDUCTOR		GAS WELL	
M. T. & R. K. OGDEN	Farm of 405 Acres	Roane	County	Conductor	USED IN DRILLING	LEFT IN WELL	OPEN FLOW
is	GEARY	District	County	13"	12'		in. 3 inch Tubing
OLENDENIN	Field, State of W. VA.			10"	398'		At Centre At 1-7 Diam
				8 1/4"	1375'	1375'	Pounds Ounces Pounds Ounces
Rig Commenced		19		8"			20/10 Mercury
Rig Completed		19		7 1/2"			CLOSED IN
Drilling Commenced	JUNE 18TH. 1914.	19		6 3/4"	1458'	1458'	in 3" Tubing Casing
Drilling Completed	AUG. 11TH. 1914.	19		6 1/4"			1 Min. 145 Pounds
Drilling to cost	1.30 per foot			5 3/4"			2 Min. 185 Pounds
Contractor is:	MUNCE DRILLING CO.			5 1/4"			3 Min. 225 Pounds
Address:	CHARLESTON W. VA.			4 3/4"			4 Min. 250 Pounds
				3"		1635' 5"	5 Min. 270 Pounds
Drillers' Names	FRANK DYER			Shot	19		Rock Pressure 450 Pounds
				Size of Torpedo			24 Hrs.
Elev. 702 B.				Size of Tubing	3 inch		OIL WELL
1st DAY'S PRODUCTION				Size of Packer	3 x 6 1/8 x 16		Size of Rods
Gas calculated to be	1,770,000 cubic feet			Kind of Packer	LARKIN		Kind of Rods
Oil flowed	barrels, pumped	barrels		Set	133 1/2 ft. from Bottom		Well abandoned and plugged
				1st. Perforation	" 63.7" " "		
				2nd. "	" 87" " "		

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS	DATE
SLATE	0	5	5	SLATE	1370 1380 10
GRAVEL	5	10	5	LITTLE LIME	1380 1405 25
SAND	10	100	90	PENCIL CAVE	1405 1420 15
SLATE	100	320	220	BIG LIME	1420 1517 97
LITTLE DUNKARD SAND	320	350	30	BIG INJUN	1517 1579 62
SLATE	350	355	5	GAS AT	1482
BIG DUNKARD SAND	355	380	25	GAS AT	1525
COAL	380	383	3	GAS AT	1540 to 1563
SLATE	383	398	15	SLATE	1579 1627 48
SAND	398	420	22	TOTAL DEPTH	1627'
SLATE	420	520	100	Well repaired Sept. 13, 1924,	
SAND	520	540	20	Used 1637-ft. 1 1/2" Tubing	
SLATE	540	600	60	RUN STEEL LINE AT 1007, 1172, 1420, 1482,	
COAL	600	605	5	1485, 1517, 1525, 1540, 1563, 1579, 1627.	
SLATE	605	655	50	1 - 3x1 1/2 Anchor Packer	
SAND	655	745	90	143 feet of anchor.	
SLATE	745	750	5		
SAND	750	815	65		
LIME	815	845	30		
SLATE	845	925	80		
SAND	925	960	35		
SLATE	960	1000	40		
LIME	1000	1007	7		
SALT SAND	1007	1335	328		
SLATE	1335	1340	5		
LIXON SAND	1340	1370	30		

Received  
Office of Oil & Gas  
JUN 15 1915  
SMALL SHOW OF OIL 925' TO 930'

Rome 2228

604

Lease No. 5618

Map Square 82-75

# UNITED FUEL GAS COMPANY

INCORPORATED

WELL LOCATION Clendenin FIELD

Well No. 604 M.T. & R.K. Dyden Farm; 40.5 Acres. On Big Sandy Cr.

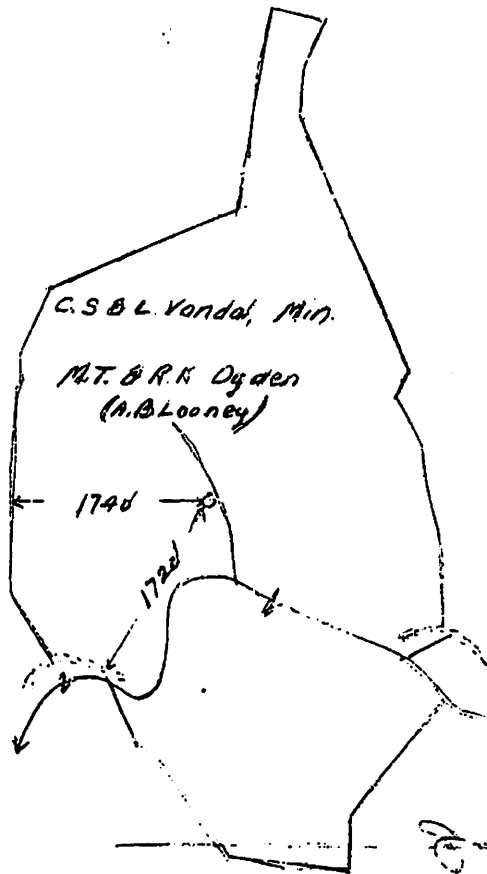
Geary Dist.  Boone  Co.  W. Va.  State

Scale 1" =  2000

Location Made by  S. J. ...  Date  April 24 , 1914

Elevation  702

Lat.  38° 35' 6"   
Long.  81° 14' 14"



75

**RECEIVED**  
MAY 15 1914  
PITTSBURGH, PA.

RECEIVED  
MAY 13 1914  
C. & D.

Approved:  April 28 , 1914  
 May 11 , 1914

J. A. Ketchum   
 Pullman , General Manager

Received  
Office of Oil & Gas  
JUN 15 1915  
Engineer

WW4-A  
Revised  
2/01

1) Date: 6/11/2015  
2) Operator's Well No. 800604 P&A  
3) API Well No. 47-087-02228

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
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:  
(a) Name See Attached List of  
Address Surface Owners  
  
  
  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
  
6) Inspector Ed Gainer  
Address P.O. Box 821  
Spencer, WV 25276  
  
Telephone 304-389-7582

5) Coal Operator  
(a) Name None  
  
Coal Owner(s) with Declaration  
(b) Name See attached list of Coal Owners  
Address \_\_\_\_\_  
  
  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
Coal Lessee with Declaration  
(c) Name None  
Address \_\_\_\_\_

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 the 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 the 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, L.L.C.  
By: [Signature]  
Its: Completion Superintendent  
Address: P.O. Box 18496  
Oklahoma City, OK 73154-0496  
Telephone: 405-935-4073

Received  
Office of Oil & Gas  
JUN 15 2015

Subscribed and sworn before me this 11<sup>th</sup> day of June the year of 2015  
Phyllis A. Copley  
Notary Public  
My Commission Expires September 16, 2018

06/26/2015

Well 800604

API 47-087-02228

7014 3490 0000 3911 7832

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Total Postage & Fees	\$	\$7.67

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03 Postmark Here  
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**Sent To**  
800604 P&A  
Dwayne E. Selman  
1550 Big Sandy Road  
Left Hand, WV 25251

PS Form 3800

7014 3490 0000 3911 7825

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Shirley Williams  
6509 Dakota Road  
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PS Form 3800

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Virginia Smith  
152 Kelly Hollow Road  
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PS Form 3800

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800604 P&A  
Pamela Smith  
1670 Big Sandy Road  
Left Hand, WV 25251

PS Form 3800

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**Sent To**  
800604 P&A  
Barbara Nichols Weiner  
207 Beauty Street  
Spencer, WV 25276

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**Sent To**  
800604 P&A  
Karen Adkins  
P.O. Box 906  
Oceana, WV 24870

PS Form 3800

06/26/2015

API: 47-087-02228  
Well Number: 800604

### SURFACE OWNERS

Dwayne E. Selman ✓  
1550 Big Sandy Road  
Left Hand, WV 25251

Shirley Williams ✓  
6509 Dakota Road  
W. Columbia, SC 29170

Pamela Smith ✓  
1670 Big Sandy Road  
Left Hand, WV 25251

Virginia Smith ✓  
152 Kelly Hollow Road  
Spencer, WV 25276

Karen Adkins ✓  
P.O. Box 906  
Oceana, WV 24870

Carol Selman ✓  
600 North River Road  
Tiffin, OH 44883

Received  
Office of Oil & Gas  
JUN 15 2015

06/26/2015



API: 47-087-02228  
Well Number: 800604

## SURFACE OWNERS

Dwayne E. Selman  
1550 Big Sandy Road  
Left Hand, WV 25251

Shirley Williams  
6509 Dakota Road  
W. Columbia, SC 29170

Pamela Smith  
1670 Big Sandy Road  
Left Hand, WV 25251

Virginia Smith  
152 Kelly Hollow Road  
Spencer, WV 25276

Karen Adkins  
P.O. Box 906  
Oceana, WV 24870

Carol Selman  
600 North River Road  
Tiffin, OH 44883

Well 800604

ARI 47-087-02228

CK 527723 1000

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600 North River Road  
Tiffin, OH 44883

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Anita V. Tuason  
2340 Cascade Avenue, NW  
East Wenatchee, WA 98802

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Sent To: **800604 P&A**  
Carolyn Taylor  
608 Grandview Drive  
Spencer, WV 25276

PS Form 3800, July 2014

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Sent To: **800604 P&A**  
Varda Oil & Gas Inc.  
3557 Ripley Road  
Spencer, WV 25276

PS Form 3800, July 2014

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Sent To: **800604 P&A**  
James R. Hickel  
53 Rivercourt Lane  
Dawsonville, GA 30534

PS Form 3800, July 2014

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06/12/2015

Sent To: **800604 P&A**  
Violet Ogden  
1107 Jousting Way  
Mt. Airy, MD 21771

PS Form 3800, July 2014

06/26/2015

Well 800604

API 47-087-02228

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<b>Total Postage &amp; Fees</b>	<b>\$</b>	<b>\$1.42</b>



**Sent To** 800604 P&A67  
Jame Hildreth  
656 Triplet Road  
Spencer, WV 25276

Street & Apt.  
or PO Box N  
City, State, Z

coal ✓

PS Form 38

Received  
Office of Oil & Gas  
JUN 15 2015

06/26/2015

API: 47-087-02228  
Well Number: 800604

### Coal and Royalty Owners

Barbara Nichols Weiner ✓  
207 Beauty Street  
Spencer, WV 25276

Varda Oil & Gas Inc. ✓  
3557 Ripley Road  
Spencer, WV 25276

Anita V. Tuason ✓  
2340 Cascade Avenue, NW  
East Wenatchee, WA 98802

Carolyn Taylor ✓  
608 Grandview Drive  
Spencer, WV 25276

Violet Ogden ✓  
1107 Jousting Way  
Mt. Airy, MD 21771

James R. Hickel ✓  
53 Rivercourt Lane  
Dawsonville, GA 30534

Jame Hildreth  
656 Triplet Road  
Spencer, WV 25276

Received  
Office of Oil & Gas  
JUN 15 2015

06/26/2015

API: 47-087-02228  
Well Number: 800604

### Coal and Royalty Owners

Barbara Nichols Weiner  
207 Beauty Street  
Spencer, WV 25276

Varda Oil & Gas Inc.  
3557 Ripley Road  
Spencer, WV 25276

Anita V. Tuason  
2340 Cascade Avenue, NW  
East Wenatchee, WA 98802

Carolyn Taylor  
608 Grandview Drive  
Spencer, WV 25276

Violet Ogden  
1107 Jousting Way  
Mt. Airy, MD 21771

James R. Hickel  
53 Rivercourt Lane  
Dawsonville, GA 30534

Jame Hildreth  
656 Triplet Road  
Spencer, WV 25276

**CHESAPEAKE APPALACHIA, L.L.C.**

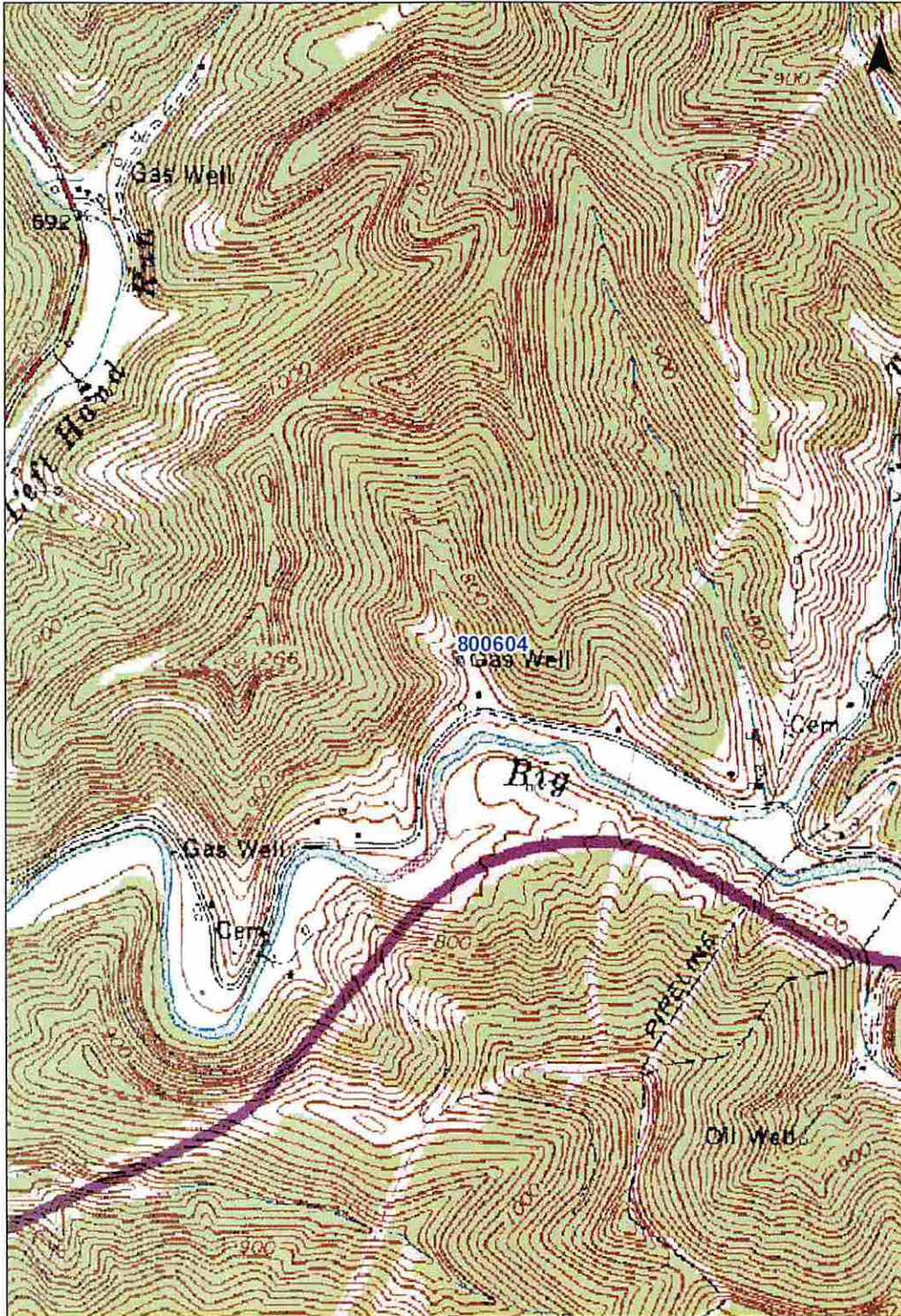
Topographical Map of Access

and Well Location 800604

API 47-087-02228

Field Office - Crawford

County - Roane



1:12,000

0 500 1,000 2,000 Feet

API Number 47-087-02228  
Operator's Well No. 800604 P&A

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Chesapeake Appalachia, L.L.C. OP Code 494477557

Watershed Big Sandy Creek of Elk River Quadrangle Newton, WV 7.5'

Elevation 704' County Roane District Geary

Description of anticipated Pit Waste: Plugging Returns/Cement

Will a synthetic liner be used in the pit? Yes

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_ )

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Swabbing
- Plugging
- Other (Explain \_\_\_\_\_ )

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on December 31, 1999, 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 *R. E. Schindler*

Company Official (Typed Name) Robert E. Schindler

Company Official Title Completions Superintendent

Subscribed and sworn before me this 11<sup>th</sup> day of June, 2015.

*Phyllis A. Copley*

Notary Public  
**Received**  
**Office of Oil & Gas**

My Commission Expires September 16, 2018

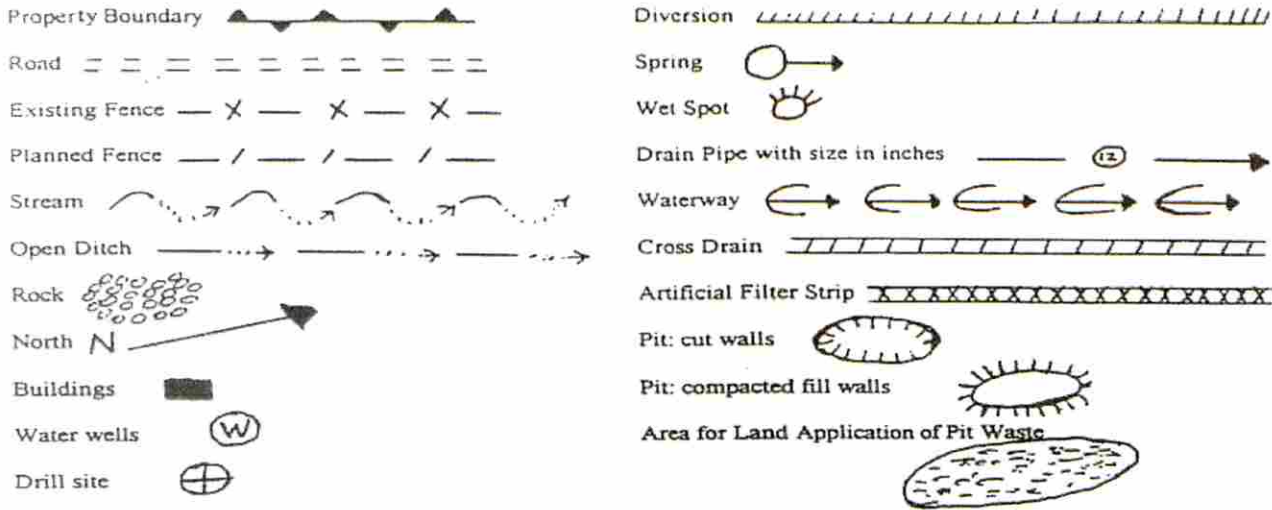
JUN 15 2015



06/26/2015

API #: 47-089-02228  
 Operator's Well No. 800604 P&A

**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed 1.0 Prevegetation pH 6.1

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 1/3 TON lbs/acre (500 lbs minimum)

Mulch Hay 2 Tons/acre

**Seed Mixtures**

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
CHESAPEAKE CONTRACTOR'S MIX	40	ORCHARD GRASS	15
ALSIKE CLOVER	5	ALSIKE CLOVER	5
ANNUAL RYE	15		

Attach:  
 Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

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

Date: 6/15/15

Received  
 Office of Oil & Gas  
 JUN 15 2015

Field Reviewed? (  ) Yes (  ) No



WW-7  
8-30-06



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

API: 47-087-02228 WELL NO.: 800604  
FARM NAME: M T & R K Ogden 1  
RESPONSIBLE PARTY NAME: Chesapeake Appalachia, L.L.C.  
COUNTY: Roane DISTRICT: Geary  
QUADRANGLE: Newton  
SURFACE OWNER: See Attached List  
ROYALTY OWNER: See Attached List  
UTM GPS NORTHING: 4270761  
UTM GPS EASTING: 0479369 GPS ELEVATION: 704'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

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

Survey grade GPS  : Post Processed Differential

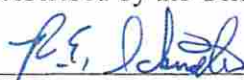
Real-Time Differential

Mapping Grade GPS  : Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

  
Signature

Completion Superintendent

Title

June 11, 2015

Date

06/26/2015

Operator: CHESAPEAKE APPALACHIA, L.L.C.  
API: 8702228  
WELL No: 604  
Reviewed by: GCS Date: 6/24/15  
45 Day End of Comment: 06/22/15

### CHECKLIST FOR FILING A PERMIT

#### Plugging

ck #5277223  
\$100<sup>00</sup>

- WW-4B
- Inspector signature on WW-4B
- Completion / Well Records of Previous Work
- WW-4A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- Surface Owner Waiver
- Coal Owner / Lessee / Operator Waiver
- WW-9 (Page 1) (Notarized)
- Inspector Signature on WW-9 (Optional)
- Topographic Map of location of well
- WW-7

#### OR

- ~~Mylar Plat (Surface owner on plat matches WW-4A)~~
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- \$100.00 check (\$0.00 if no pit) Need Per 2

06/26/2015