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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](http://www.dep.wv.gov)

March 18, 2014

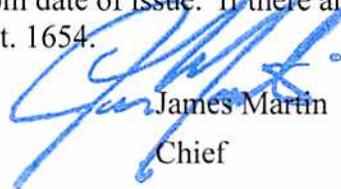
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-1501415, issued to BLUE CREEK GAS COMPANY, 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: 1  
Farm Name: ROGERS, LOWELL  
**API Well Number: 47-1501415**  
**Permit Type: Plugging**  
Date Issued: 03/18/2014

**Promoting a healthy environment.**



4701501415

7012 3050 0000 2996 5885

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
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WALLBACK WV 25225

OFFICIAL USE

Postage	\$	\$0.49	0732
Certified Fee		\$3.30	
Return Receipt Fee (Endorsement Required)		\$2.70	
Restricted Delivery Fee (Endorsement Required)		\$0.00	
<b>Total Postage &amp; Fees</b>	<b>\$</b>	<b>\$6.49</b>	



Sent To Howell Rogers  
 Street, Apt. No.,  
 or PO Box No.  
 City, State, ZIP+4  
Wallback - WV. 25225

PS Form 3800, August 2006 See Reverse for Instructions



1) Date 3/5/14 20  
2) Operator's Well No. 1  
3) API Well No. 47-15-1415

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 1260 Watershed Sandy  
District Henry 02 County Clay 15 Quadrangle Ivydale 409

6) Well Operator Blue Creek Gas 7) Designated Agent Steve Rubin  
Address 1700 Pennsylvania Ave. Address 1700 Pennsylvania Ave.  
Charleston, WV. Charleston Wv.

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Eddie Gainer Name Duckworth Well Service  
Address P.O. Box 821 Address P.O. Box 6871  
Spencer WV. 25276 Charleston, WV. 25362

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

Cement 2200' 2100'  
Cement 1200' 1100' est. casing cut.  
Cement 700' 600'  
Cement 100' 0'

Gel between all plugs.  
Erect monument with API numbers.  
Pull all free pipe.

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

Work order approved by inspector

Date

3/18/14

Received

MAR 13 2014



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

RECEIVED  
DEC - 6 1978  
OIL & GAS DIVISION  
DEPT. OF MINES

Rotary  Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas   
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Quadrangle Ivydale

Permit No. 47-915  
Clay 1415

Company <u>Blue Creek Gas Co.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>1700 Pennsylvania Ave. Chas. WV</u>				
Farm <u>Brown McCorkle</u> Acres <u>2733</u>				
Location (waters) <u>Sandy</u>	Size			
Well No. <u>1</u> Elev <u>1260</u>	<u>20-16</u>			
District <u>Henry</u> County <u>Clay</u>	Cond.			
The surface of tract is owned in fee by <u>Lowell Rogers</u>	<u>13-10"</u>			
Address <u>Wallback, WV</u>	<u>9 5/8</u>			
Mineral rights are owned by <u>Blue Creek Gas Co.</u>	<u>8 5/8</u>	<u>306</u>	<u>306</u>	<u>cemented to surface</u>
Address <u>1700 Pennsylvania Ave</u>	<u>7</u>			
Drilling Commenced <u>8-10-78</u>	<u>5 1/2</u>			
Drilling Completed <u>8-15-78</u>	<u>4 1/2</u>	<u>219 1/2</u>	<u>219 1/2</u>	<u>40sks</u>
Initial open flow <u>600,000</u> cu. ft. _____ bbls.	<u>3</u>			
Final production _____ cu. ft. per day _____ bbls.	<u>2</u>			
Well open <u>8</u> hrs. before test <u>610</u> RP.	Lines Used			

Attach copy of cementing record.

Well treatment details:  
Injun 400 sks sand 500 gals 15%

Coal was encountered at None encountered Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Injun 2160-2178 Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand and Shale			0	1000		
Shale			1000	1008		
Sand			1008	1028		
Shale			1028	1070		
Sand Shale			1070	1196		
Shale			1196	1430		
Sand			1430	1570		
Sand Shale			1570	1778		
Shale			1778	1810		
Sand			1810	1850		
Shale			1850	1968		
Sand			1968	2000		
Lime			2000	2152		
Shale			2152	2160		
Injun			2160	2178		
Shale			2178	2206		

T.D.

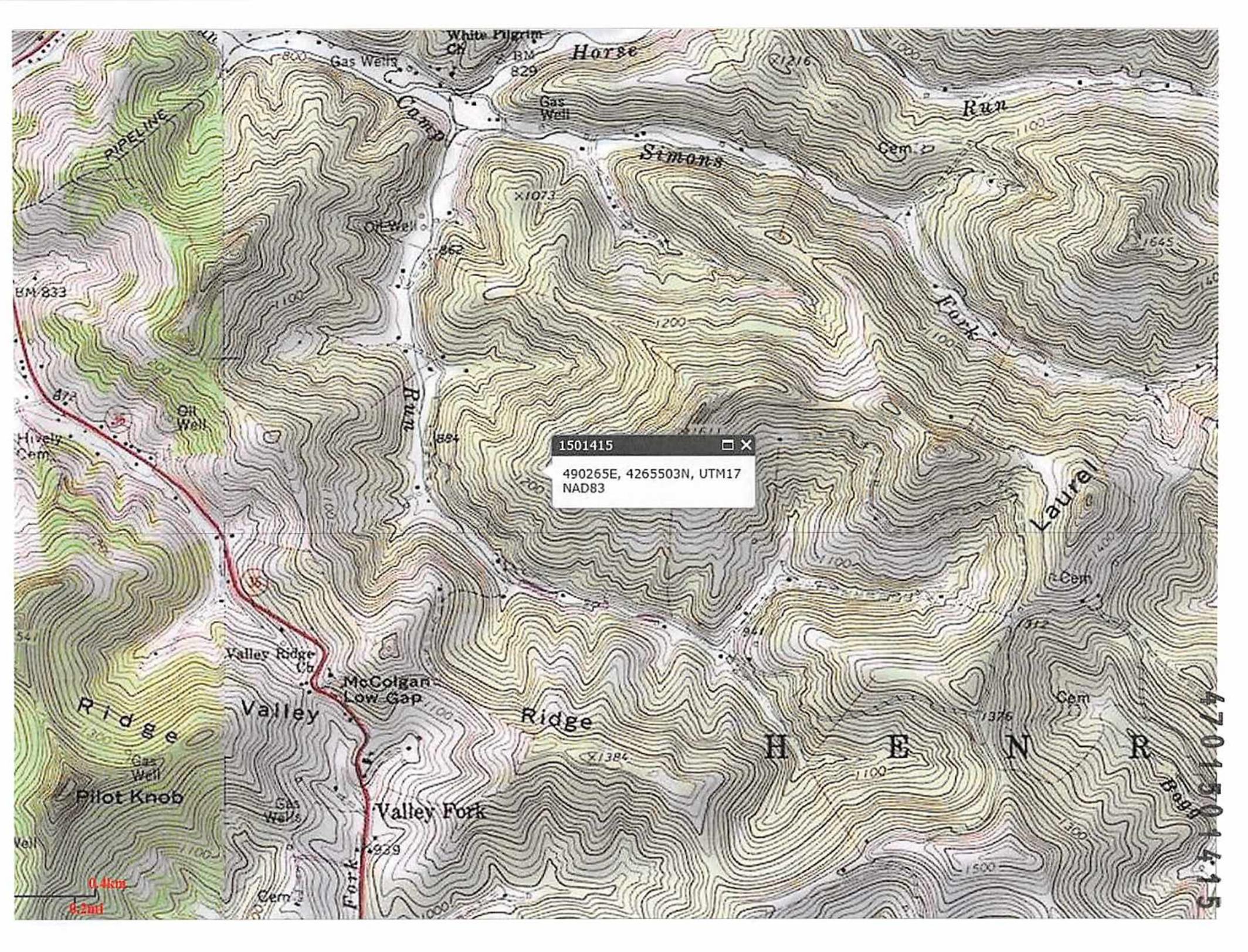
Received  
MAR 13 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

\* Indicates Electric Log tops in the remarks section.







1501415

490265E, 4265503N, UTM17  
NAD83

4701501415

WW-7  
8-30-06



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

API: 47-15-1415 WELL NO.: 1  
 FARM NAME: Brown McCorkle  
 RESPONSIBLE PARTY NAME: Steve Rubin  
 COUNTY: Clay DISTRICT: Henry  
 QUADRANGLE: Ivydale  
 SURFACE OWNER: Lowell Rogers  
 ROYALTY OWNER: Blue Creek Gas  
 UTM GPS NORTHING: ~~17564900~~ 65 E  
 UTM GPS EASTING: 4265503 <sup>N</sup> GPS ELEVATION: 1305

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.

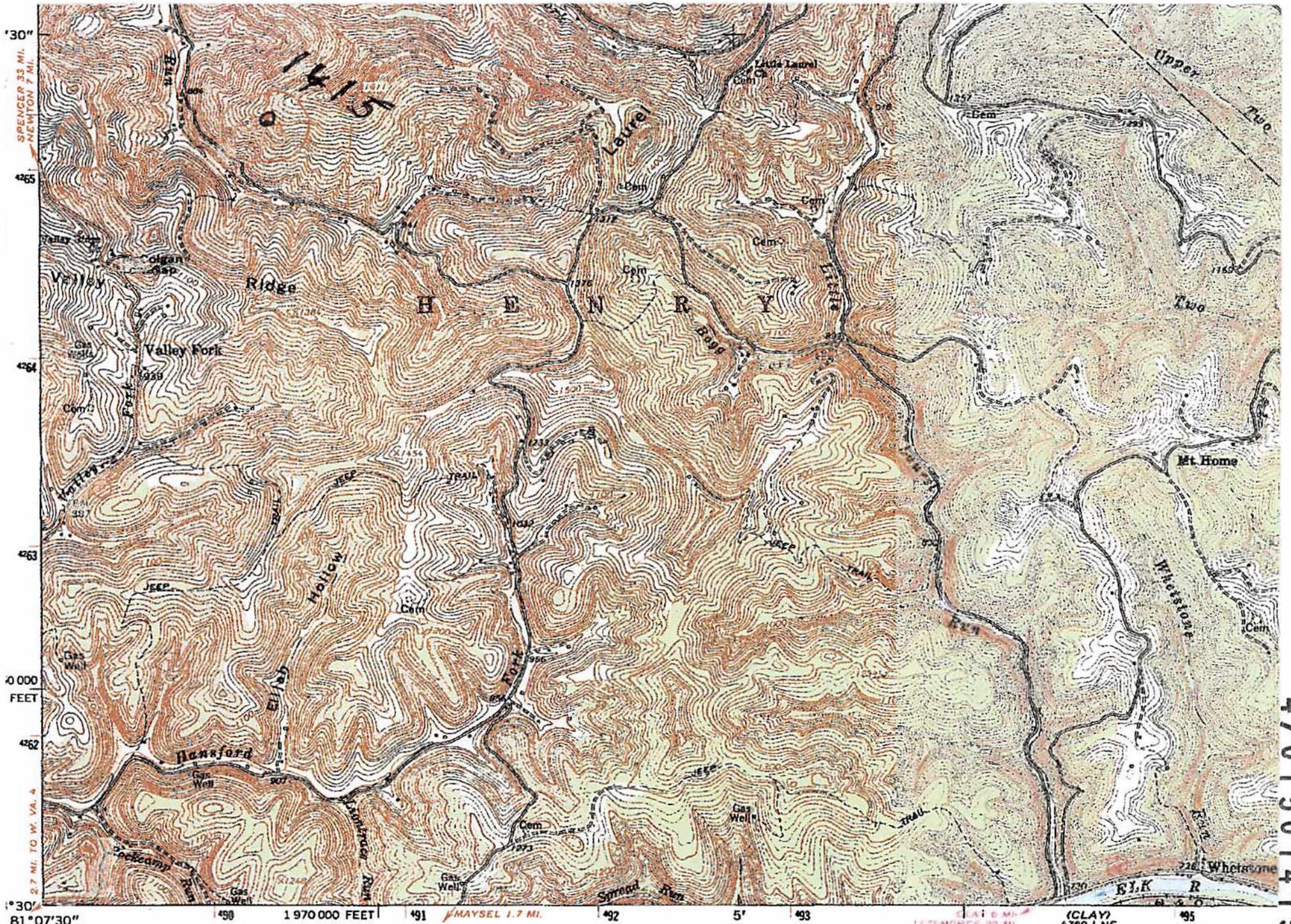
Steve Duckworth contractor  
Signature Title

3-10-14  
Date

Received

MAR 13 2014

Office of Oil and Gas  
Dept. of Environmental Protection



SPENCER 3.3 MI.  
NEWTON 7 MI.

425

424

423

0000  
FEET

422

2.7 MI. TO W. VA. 4

0°30'

81°07'30"

490

197000 FEET

491

MAYSEL 1.7 MI.

492

5'

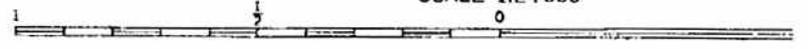
493

CLAY 1.8 MI.  
LIZEMONES 2.0 MI.

(CLAY)  
4760 1 NE

495

SCALE 1:24000

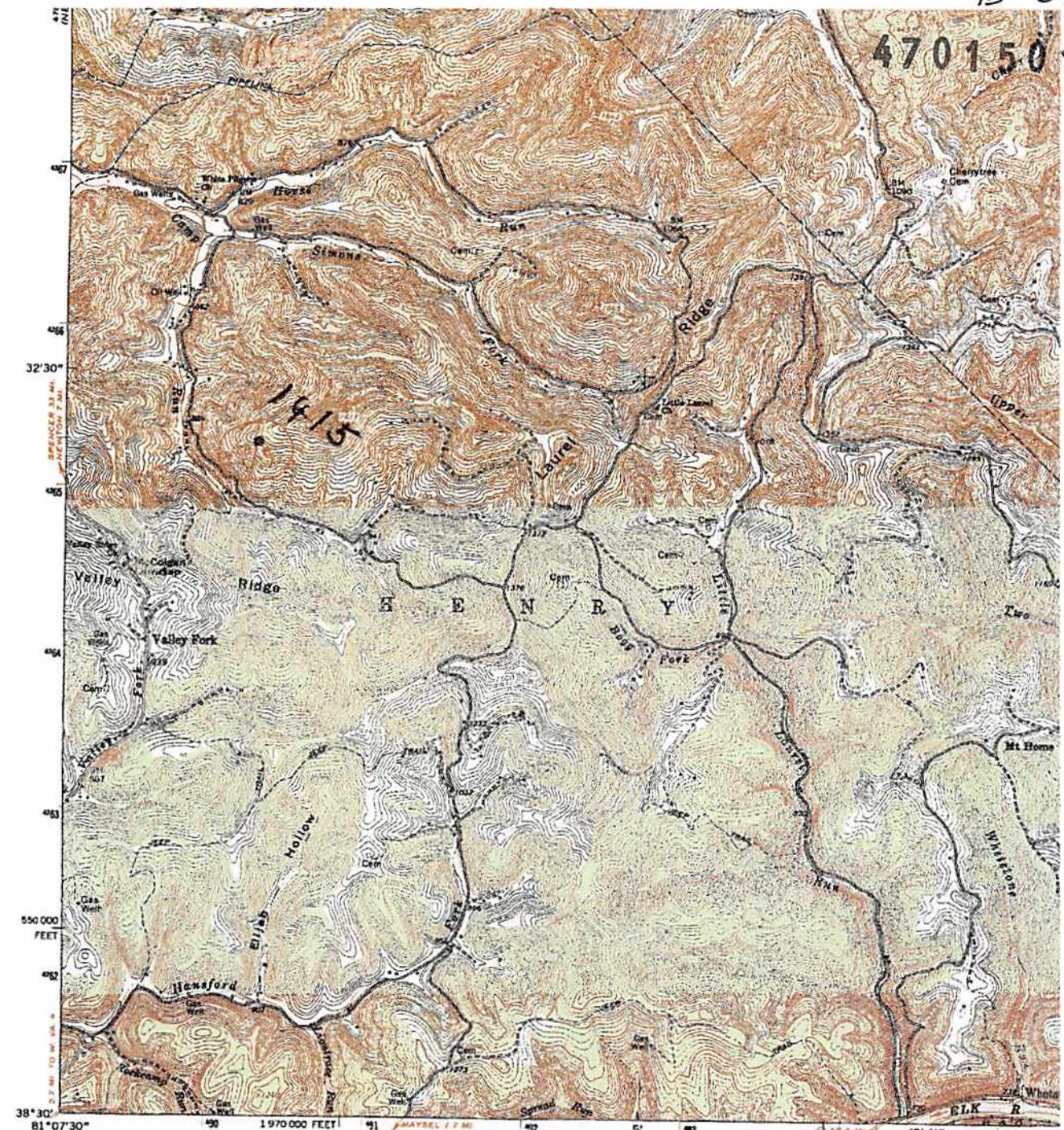


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Mapped, edited, and published by the Geological Survey  
Control by USGS and USC&GS

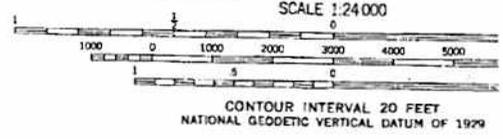
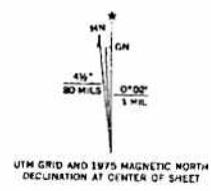
15-01415

4701501415



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Mapped, edited, and published by the Geological Survey  
 Control by USGS and USC&GS  
 Topography by photogrammetric methods from aerial  
 photographs taken 1962. Field checked 1965  
 Polyconic projection. 1927 North American datum  
 10,000-foot grid based on West Virginia coordinate system,  
 south zone  
 1000-meter Universal Transverse Mercator grid ticks,  
 zone 17, shown in blue  
 Fine red dashed lines indicate selected fence and field lines where  
 generally visible on aerial photographs. This information is unchecked  
 Revisions shown in purple compiled in cooperation with  
 State of West Virginia agencies from aerial photographs  
 taken 1975. This information not field checked



CONTOUR INTERVAL 20 FEET  
 NATIONAL GEODEIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STAND  
 FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA  
 A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE