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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

November 06, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-5101780, issued to CHEVRON APPALACHIA, LLC, 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: CURRY 3H  
Farm Name: CURRY, JAMES E.  
**API Well Number: 47-5101780**  
**Permit Type: Plugging**  
Date Issued: 11/06/2015

**Promoting a healthy environment.**

## PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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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.

WW-4B  
Rev. 2/01

1) Date October 14, 2015  
2) Operator's  
Well No. 3M  
3) API Well No. 47-51 - 01700

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 1317' Watershed Middle Grave Creek - Grave Creek  
District Washington County Marshall Quadrangle Moundsville, WV 7.5'
- 6) Well Operator Chevron Appalachia, LLC 7) Designated Agent \_\_\_\_\_  
Address 800 Mountain View Drive Address \_\_\_\_\_  
Smithfield, PA 15478
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Jim Nicholson Name \_\_\_\_\_  
Address P.O. Box 44 Address \_\_\_\_\_  
304-552-3874

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

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

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Work order approved by inspector Jim Nicholson Date 10/22/15 **ACT 27 2015**

WV Department of  
Environmental Protection

**Curry 3H P&A Procedure**

JN 10/22/15

***Plug Set from 869' to 43'***

1. N/U 13 5/8" 10K BOP stack. Test break.
2. TIH with 3 1/2" 12.95# workstring to 5' above float collar
3. Break circulation
4. Pressure test lines
5. Pump 6% Bentonite spacer
6. Pump 128 bbls of 16 ppg Class A with up to 3% Calcium Chloride
7. Drop wiper ball
8. Displace plug
9. POOH slowly (<30'/min)
10. Circulate hole clean above TOC--43'
11. POOH
12. N/D BOPE and skid rig

***Offline***

1. Cut off 30" landing ring, 20" hanger, and 13 5/8" UH2 WS.
2. Install permanent monument (pipe to surface)
  - Cement remaining wellbore to surface
  - Minimum diameter of 6"
  - Pipe shall extend to a depth of 10' below GL into well
  - Pipe shall extend to a depth of >30" above GL
  - Monument shall be sealed with concrete
  - API well identification number shall be stamped on monument with lettering no smaller than 1/2"

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5101780P

# Curry 3H As Drilled

Marshall Co. WV October 14, 2015		Casing & Cementing Details			Ground Level Elevation: 1,320' All depths from KB of: 32'		
Casing Formation	DEPTH		Inclination	HOLE SIZE	CASING SPECS	CEMENT INFO	GENERAL INFO
	MD	TVD					
Depth to bottom of 30" landing ring 30" Casing	37.76 112'				36"	Conductor	grout to surface
20.00" Casing	438'				26"	Fresh Water Casing 20" 94# J-55 BTC 0.438" wall	Cement to surface
13 3/8" Casing	897'				17 1/2"	Coal Casing 13-3/8" 54.5# J-55 BTC 0.458" wall	Cement to surface
Float Collar	874'						

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# Curry 3H P&A

Marshall Co. WV October 14, 2015		Casing & Cementing Details			Ground Level Elevation: 1,320' All depths from KB of: 32'		
Casing Formation	DEPTH		Inclination	HOLE SIZE	CASING SPECS	CEMENT INFO	GENERAL INFO
	MD	TVD					
Depth to bottom of 30" landing ring 30 " Casing	37.76 112'			36"	Conductor	grout to surface	
Top of Plug	43				Fresh Water Casing 20" 94# J-55 BTC 0.438" wall	Cement to surface	
20.00 "Casing	438'			26 "			
Bottom of Plug	869'				Coal Casing 13-3/8" 54.5# J-55 BTC 0.458" wall	Cement to surface	
Float Collar	874'						
13 3/8 "Casing	897'			17 1/2"			

WR-35  
Rev. 8/23/13

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47-051-01780 County Marshall District Washington  
Quad Moundsville Pad Name Curry Field/Pool Name \_\_\_\_\_  
Farm name Curry Well Number 3H  
Operator (as registered with the OOG) Chevron Appalachia, LLC  
Address 800 Mountain View Drive City Smithfield State PA Zip 15478

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing \_\_\_\_\_ Easting \_\_\_\_\_

Elevation (ft) 1317' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s)  
\_\_\_\_\_

Date permit issued 1/14/2015 Date drilling commenced 3/19/2015 Date drilling ceased 5/6/2015  
Date completion activities began \_\_\_\_\_ Date completion activities ceased \_\_\_\_\_  
Verbal plugging (Y/N) N Date permission granted \_\_\_\_\_ Granted by \_\_\_\_\_

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 1/2" stream @ 355' GL per mudlog Open mine(s) (Y/N) depths \_\_\_\_\_  
Salt water depth(s) ft \_\_\_\_\_ Void(s) encountered (Y/N) depths \_\_\_\_\_  
Coal depth(s) ft 819' GL per mud log Cavern(s) encountered (Y/N) depths \_\_\_\_\_  
Is coal being mined in area (Y/N) No, it is in the sealed and abandoned Alexander Mine

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WR-35  
Rev. 8/23/13

API 47-051 - 01780 Farm name Curry Well number 3H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	36	30"	80'	New	X-42; 118.76#		
Surface	26	20"	406'	New	J-55; 94#		
Coal	17 1/2	13 3/8"	865'	New	J-55; 54.50#		
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Bulk	48				Surface	8
Surface	Class A	757	15.60	1.20	908	Surface	8
Coal		903	15.6	1.20	1084	Surface	8
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) <sup>925</sup> \_\_\_\_\_ Loggers TD (ft) <sup>925</sup> \_\_\_\_\_  
 Deepest formation penetrated \_\_\_\_\_ Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) \_\_\_\_\_

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No  Conventional  Sidewall      Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING One bow spring centralizer every joint on the water string. Two bow spring centralizers every 2 joints for the coal string.

WAS WELL COMPLETED AS SHOT HOLE  Yes  No      DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No      DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No      TYPE OF TRACER(S) USED \_\_\_\_\_

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WR-35  
Rev. 8/23/13

API 47- 051 - 01780 Farm name Curry Well number 3H

PRODUCING FORMATION(S)	DEPTHS	
	TVD	MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface \_\_\_\_\_ psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST \_\_\_\_\_ hrs

OPEN FLOW Gas \_\_\_\_\_ mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		
SLTS / SS	90	500	90	500	Lithologies are taken from mudlog KB (15' above GL)
LS / SLTS	500	700	500	700	
LS	700	834	700	834	
Coal	834	850	834	850	
LS / SLTST	850	944	850	944	

Please insert additional pages as applicable.

Drilling Contractor SEE ATTACHED  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Logging Company N/A  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Cementing Company Baker Hughes  
Address 5373 West Alabama, Suite 300 City Houston State TX Zip 77056

Stimulating Company N/A  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Please insert additional pages as applicable.

Completed by Jackie M. Scholar Telephone 724-564-3721  
Signature [Signature] Title Regulatory Compliance Team Lead Date 10/20/2015

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Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

OCT 27 2015

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Environmental Protection

WR-35

Page 5 of 5

API: 47-5101780	Well Name: Curry	Well Number: 3H
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DRILLING CONTRACTORS		
Driller	Driller	Driller
Name Rocky Mountain Drilling	Name Highlands Drilling LLC	Name
Address 185 North Vernal Avenue, Suite 2	Address 900 Virginia Street East	Address
City - State - Zip Vernal, UT 84078	City - State - Zip Charleston, WV 25301	City - State - Zip

WW-4A  
Revised 6-07

1) Date: 10/14/2015  
2) Operator's Well Number  
3H  
3) API Well No.: 47 - 51 - 01780

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

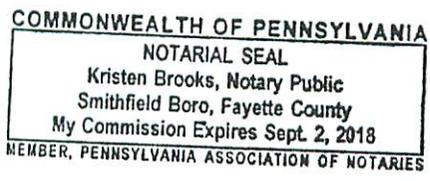
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>James E. Curry</u>	Name <u>Murray Energy Corporation</u>
Address <u>7059 Fairmont Pike Road</u>	Address <u>46226 National Road</u>
<u>Moundsville, WV 26041</u>	<u>St. Clairsville, OH 43950</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Consolidated Coal Company</u>
	Address <u>1000 Consol Energy Drive</u>
	<u>Canonsburg, PA 15317</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Jim Nicholson</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 44</u>	Name _____
<u>Moundsville, WV 26041</u>	Address _____
Telephone <u>304-552-3874</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 reverse 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 Chevron Appalachia, LLC  
 By: Jenny Hayes  
 Its: Permitting Team Lead  
 Address 800 Mountain View Drive  
Smithfield, PA 15478  
 Telephone 724-564-3700

Subscribed and sworn before me this 14th day of October, 2015  
Kristen Brooks Notary Public  
 My Commission Expires Sept 2, 2018

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**Office of Oil and Gas**

OCT 27 2015

**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 its 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. The office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

WV Department of  
 Environmental Protection

5101780P

WW-9  
(2/15)

API Number 47 - 51 - 01780  
Operator's Well No. 3H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Chevron Appalachia, LLC OP Code 49449935

Watershed (HUC 10) Middle Grave Creek - Grave Creek Quadrangle Moundsville, WV 7.5'

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
- 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: N/A

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

-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. N/A

-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 August 1, 2005, 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 Jenny Hayes  
Company Official (Typed Name) Jenny Hayes  
Company Official Title Permitting Team Lead

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Office of Oil and Gas

Subscribed and sworn before me this 14th day of October, 20 15

Kristen Brooks Notary Public

My commission expires Sept 2, 2018

COMMONWEALTH OF PENNSYLVANIA  
NOTARIAL SEAL  
Kristen Brooks, Notary Public  
Snyder County, Fayette County  
My Commission Expires Sept. 2, 2018  
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

51017809

Form WW-9

Operator's Well No. 3H

**Chevron Appalachia, LLC**

Proposed Revegetation Treatment: Acres Disturbed 19.5 Prevegetation pH 6.5-7.0

Lime 2,000 lb/ac Tons/acre or to correct to pH 6.5-7.0

Fertilizer type 10-20-20

Fertilizer amount 1,000 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

**Temporary**

**Permanent**

Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass Mixture	10 lb per acre (3/1-5/15) and (8/16-4/30)	Kentucky 31 Fescue -	20 lb/ac Annual Rye Grass
Barley or Oats (local seed)	50 lb per acre (3/1-5/15)	Red Fescue (PENN LAWN)	20 lb/ac and 41 lb/ac
Millet (Hungarian, German, or Japanese)	50 lb per acre (5/16-8/15)	Crownvetch	20 lb/ac Hard Fescue Mixture
Cereal Rye or Cereal Wheat -	50 lb per acre (8/16-4/30)	Hard Fescue Mix	63 lb/ac Annual Ryegrass (8/1-5/15) 7lb/ac (cut & fill slopes)
		Annual Ryegrass (8/1-5/15)	12 lb/ac (all other areas) Weeping Lovegrass (5/15-8/1) 5lb/ac

**Attach:**

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jim Nicholson

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

Title: Oil and Gas Inspector

Date: 10/22/15

Field Reviewed?  Yes  No

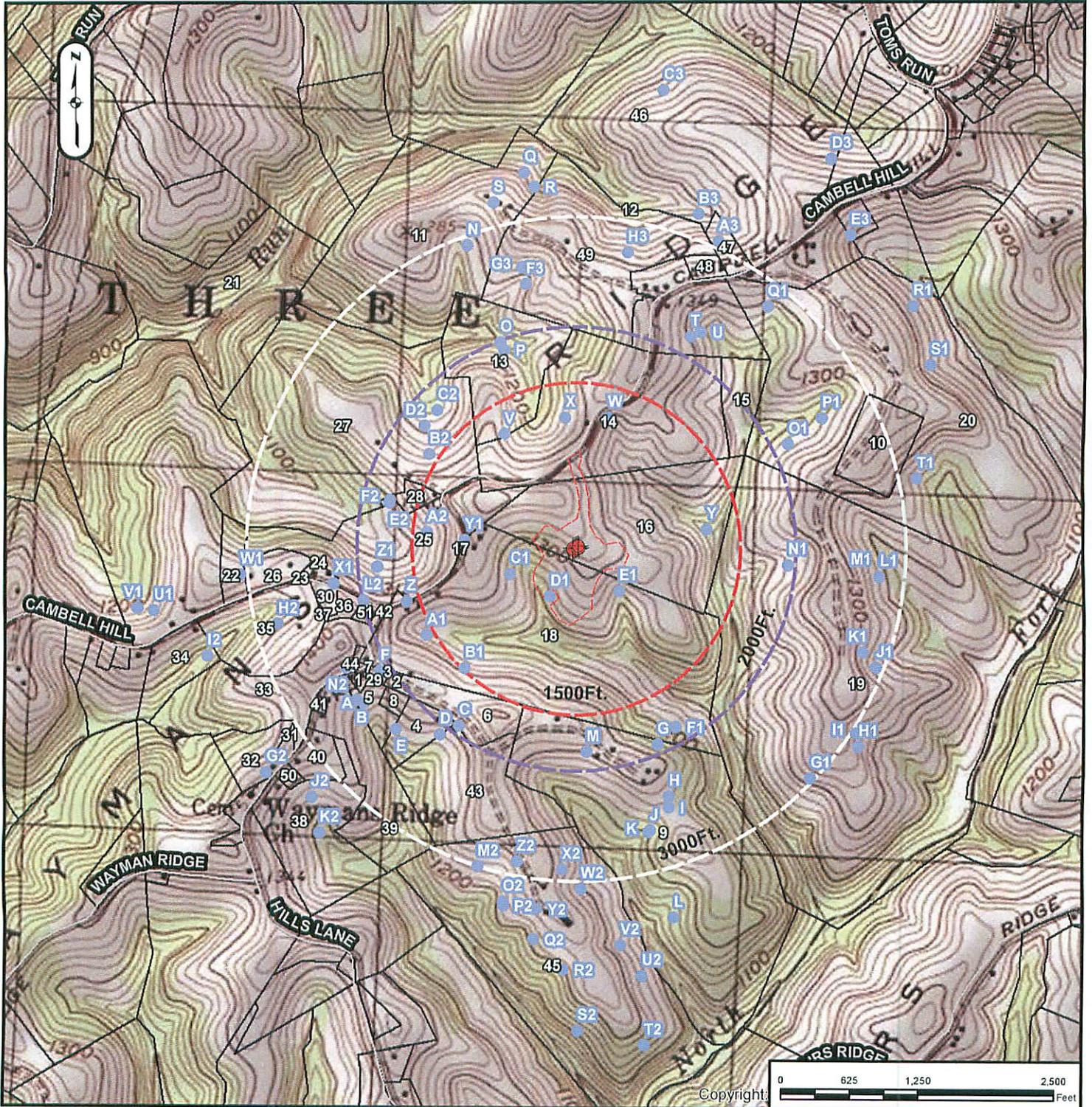
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# WATER SUPPLY EXHIBIT CURRY

Date: 5/9/2014



SURFACE OWNER: **JAMES E. CURRY**  
 OIL/GAS OWNER: **JAMES E. CURRY**  
 WELL OPERATOR: **CHEVRON APPALACHIA, LLC**  
 ADDRESS: **800 MOUNTAIN VIEW DRIVE**  
**SMITHFIELD, PA 15478**  
 PHONE: **724-564-3700**

COUNTY: **MARSHALL**  
 DISTRICT: **WASHINGTON**  
 SURVEYOR: **BLUE MOUNTAIN OIL AND GAS**  
 ADDRESS: **11023 MASON-DIXON HIGHWAY**  
**BURTON, WY 26562**  
 PHONE: **304-662-6486**

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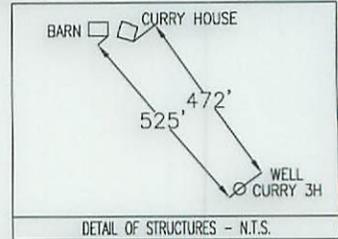
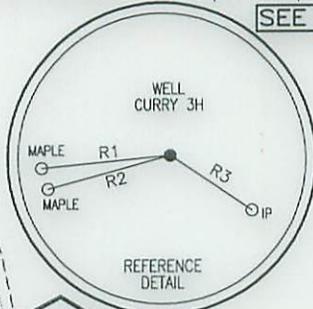
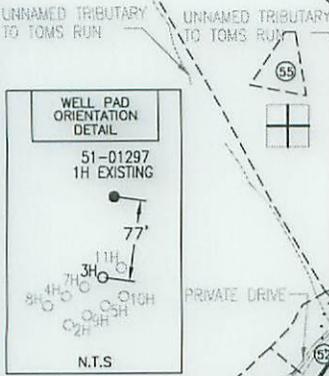
Well is located on topo map 2,224 feet south of Latitude: 39° 55' 00"

**SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS**

NOTES:

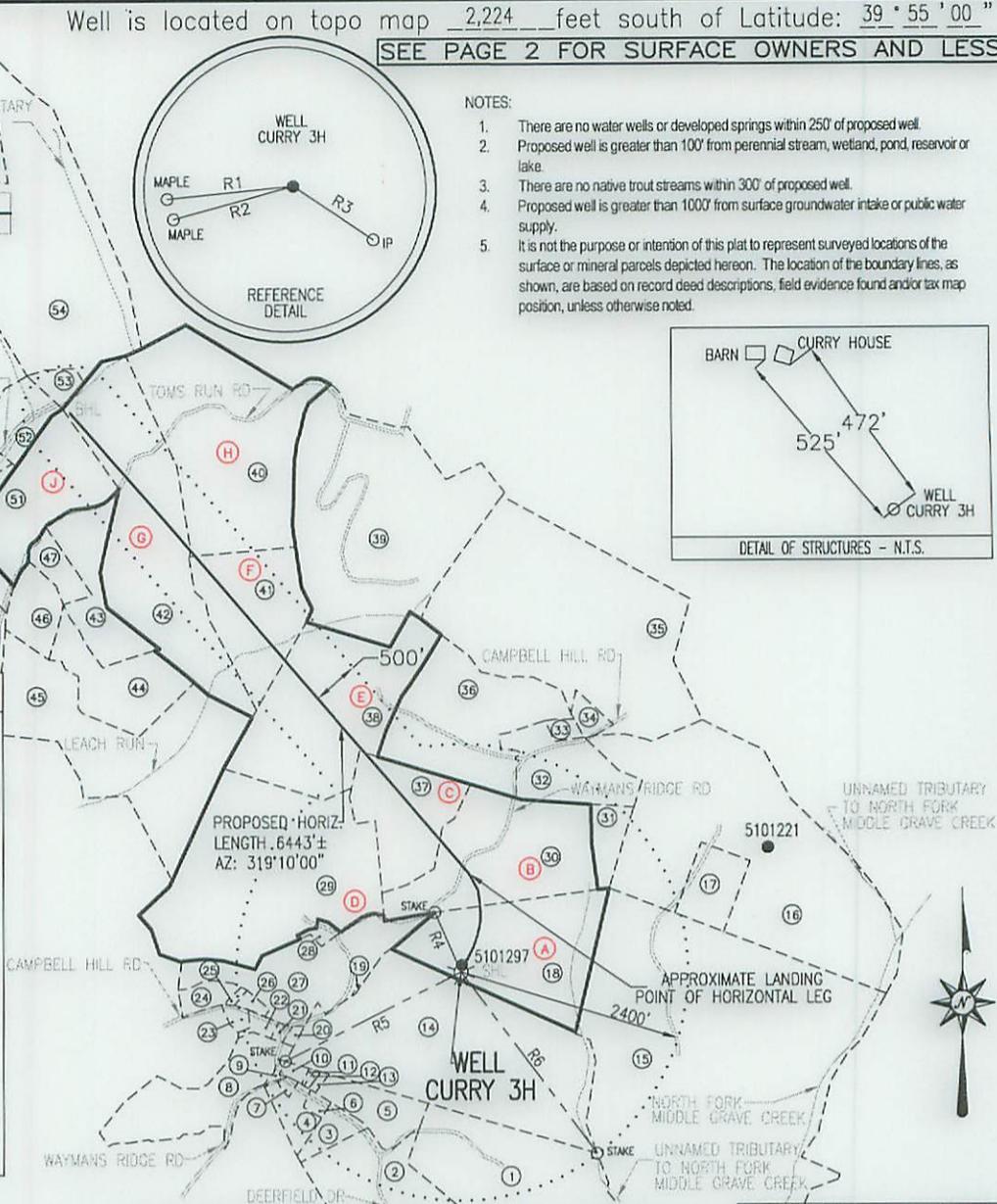
1. There are no water wells or developed springs within 250' of proposed well.
2. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
3. There are no native trout streams within 300' of proposed well.
4. Proposed well is greater than 1000' from surface groundwater intake or public water supply.
5. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

Well is located on topo map 11,419 feet west of Longitude: 80° 37' 30"



**LEGEND**

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- LESSORS (A)
- SURFACE OWNERS (1)
- GAS WELLS
- EXISTING WELLS
- PLUGGED WELLS



**Blue Mountain Inc.**  
 11023 MASON DIXON HIGHWAY  
 BURTON, WV 26562  
 PHONE: (304) 662-6486

SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)	LINE	BEARING	DISTANCE
UTM 17-NAD83(M) N:4417821.554 E:528534.835	UTM 17-NAD83(M) N:4418135.89 E:528554.84	UTM 17-NAD83(M) N:4419599.44 E:527246.64	R1	S 84°19'09" W	268.86'
NAD83, WV NORTH N:515692.430 E:1641384.251	NAD83, WV NORTH N:516722.812 E:1641467.139	NAD83, WV NORTH N:521597.241 E:1637254.573	R2	S 74°38'08" W	263.76'
			R3	S 56°11'05" E	205.22'
			R4	N 23°57'19" W	686.37'
			R5	S 63°22'44" W	2096.90'
			R6	S 37°07'00" E	2391.06'

FILE #: CURRY 3H  
 DRAWING #: CURRY 3H  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1/2500  
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *[Signature]*  
 R.P.E.: \_\_\_\_\_ L.L.S.: P.S. No. 2000

**GEORGE D. SIX**  
 LICENSED  
 No. 2000  
 STATE OF  
 WEST VIRGINIA  
 PROFESSIONAL SURVEYOR

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
 OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25304

DATE: DECEMBER 18, 2014  
 OPERATOR'S WELL #: CURRY 3H  
 API WELL #: 47 51 01780 P  
 STATE COUNTY PERMIT

Well Type:  Oil  Waste Disposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1317.13'  
 COUNTY/DISTRICT: MARSHALL / WASHINGTON QUADRANGLE: MOUNDVILLE, WV 7.5'  
 SURFACE OWNER: JAMES E. CURRY ACREAGE: 45.01±  
 OIL & GAS ROYALTY OWNER: JAMES E. CURRY ACREAGE: 441.205±

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
 CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY): \_\_\_\_\_

TARGET FORMATION: BURKETT ESTIMATED DEPTH: TVD: 6,372± TMD: 13,425±  
 WELL OPERATOR CHEVRON APPALACHIA, LLC ADDRESS 800 MOUNTAIN VIEW DRIVE  
 City SMITHFIELD State PA Zip Code 15478  
 DESIGNATED AGENT KENNETH E. TAWNEY ADDRESS 500 LEE STREET, EAST SUITE 1600  
 City CHARLESTON State WV Zip Code 25301-3202

# CURRY

## 3H

### PAGE 2 OF 2

## SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)  
N:4417821.554  
E:528534.835  
NAD83, WV NORTH  
N:515692.430  
E:1641384.251

## APPROX. LANDING POINT

UTM 17-NAD83(M)  
N:4418135.89  
E:528554.84  
NAD83, WV NORTH  
N:516722.812  
E:1641467.139

## BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M)  
N:4419599.44  
E:527246.64  
NAD83, WV NORTH  
N:521597.241  
E:1637254.573

	LESSOR	DIST-TM/PAR
A	JAMES E. CURRY	14-10/15
B	JAMES E. CURRY	14-10/13
C	DENNIS & MICHELLE S. BLAKE	14-10/12
D	MICHAEL T. & PENNY J. DAVIS	14-10/9
E	DENNIS & MICHELLE S. BLAKE	14-10/10
F	MARY LOU RUBINI	14-6/41.1
G	JOHN W. & MARY ALICE MILLER	14-10/3
H	JOHN W. & MARY ALICE MILLER	14-6/41
J	L. DEXTER & SANDRA L. COFFIELD	14-10/4.3
	SHERI L. EVRAETS, TRUSTEE OF THE SHERI L. EVRAETS FAMILY TRUST	

	SURFACE OWNER	DIST-TM/PAR
1	RAYMOND EUGENE FRANKLIN ET UX	14-11/9
2	DAVID LAWRENCE WILSON ET UX	14-11/8
3	DEBRA J. & RICHARD L. WAYT JR.	14-11/8.5
4	PATRICIA SUE HOSKINS	14-11/8.6
5	DAVID E. FRANKLIN	14-11/8.7
6	GREGORY SCOTT MCDONALD ET UX	14-11/8.9
7	MARY V. JAKO ET AL	14-11/8.2
8	ILA F. MOORE ET AL	14-11/6
9	ROBERT H. BOWMAN JR.	14-11/8.1
10	JOHN J. & BELINDA R. BAKER	14-11/8.8
11	RICHARD W. HYETT ET UX	14-11/17
12	RICHARD W. HYETT ET UX	14-11/8.4
13	RICHARD W. HYETT ET UX	14-11/8.3
14	JOSEPH MICHAEL CROW ET UX	14-10/17
15	JOHN J. HART ET UX	14-10/18
16	JOHN J. & RENEE A. HART	14-10/19.1
17	JOHN J. & RENEE A. HART	14-10/19
18	JAMES E. CURRY	14-10/15
19	JOSEPH MICHAEL CROW	14-10/16
20	DAVID E. HILL ET UX	14-11/7
21	DAVID E. HILL ET UX	14-11/6.10
22	DENNIS C. FISHER ET UX	14-11/6.4
23	DENNIS CLYDE FISHER	14-11/18
24	RICHARD E. HITT	14-10/8.3
25	VALLIE JAMES WEST	14-10/8
26	VALLIE JAMES WEST	14-10/8.1
27	DAVID L. BLAKE	14-10/8.2
28	FREDA ELIZABETH BLAKE	14-10/9.1
29	MICHAEL T. DAVIS	14-10/9
30	JAMES E. CURRY	14-10/13
31	JOHN J. HART ET UX	14-10/14
32	JOHN J. II & JENNA E. HART	14-10/11
33	JAMES E. BLAKE	14-10/11.1
34	JOHN J. HART ET UX	14-6/36
35	CARL W. & BRIDGETT L. YOHO	14-6/35
36	DENNIS & MICHELLE S. BLAKE	14-10/11.3
37	DENNIS BLAKE ET UX	14-10/12
38	DENNIS BLAKE ET UX	14-10/10
39	JEFFREY L. & JANET L. ALLEN	14-6/37
40	JOHN W. & MARY ALICE MILLER	14-6/41
41	MARY LOU RUBINI	14-6/41.1
42	JOHN W. & MARY ALICE MILLER	14-10/3
43	JOHN W. & MARY ALICE MILLER	14-10/4.8
44	JOHN W. & MARY ALICE MILLER	14-10/4.7
45	JOHN W. & MARY ALICE MILLER	14-10/4.6
46	AARON ALLEN STRAIGHT	14-10/4.5
47	JOSEPH D. STRAIGHT	14-10/4
48	RANDALL E. & CHARLOTTE REXROAD	14-10/4.4
49	JOHN W. & MARY ALICE MILLER	14-9/24
50	DANNIE J. RUZA SR.	14-9/24.1
51	BRUCE M. STRAIGHT	14-10/4.3
52	DANNIE J. RUZA SR.	14-10/1
53	DANNIE J. RUZA SR.	14-10/2
54	WILLIAM H. III & LINDA BARDALL	14-7/42
55	WHEELING POWER CO.	14-7/42.1