



west virginia department of environmental protection

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

July 16, 2015

WELL WORK PERMIT

Partial Plug

This permit, API Well Number: 47-5101726, 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: BERGER 7H
Farm Name: BERGER, GARY & LINDA
API Well Number: 47-5101726
Permit Type: Partial Plug
Date Issued: 07/16/2015

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

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.

1) Date May 11, 2015
2) Operator's
Well No. 7H
3) API Well No. 47-51 - 01729

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 1292' Watershed _____
District Clay County Marshall Quadrangle Glen Easton, 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 James Nicholson Name _____
Address P.O. Box 44 Address _____
Moundsville, WV 26041

10) Work Order: The work order for the manner of plugging this well is as follows:
Pressure test the 13-3/8" casing set at 2,711' (current TD) to confirm its integrity (shoe has not yet been drilled out), Set a cast iron bridge plug and pressure test, place minimum 15' of cement on top of the bridge plug, and then install pressure containment cap on wellhead and pressure test. These barriers along with the hydrostatic barrier of the SBM in the hole provide sufficient barriers to temporarily suspend operations on the well. Note the 20" surface casing is set at 330'.

RECEIVED
Office of Oil and Gas

MAY 29 2015

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 Jim Nicholson Date 5/19/2015

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Berger Operator Well No.: 7H

LOCATION: Elevation: 1287' Quadrangle: Powhatan, OH-WV 7.5'
District: Clay County: Marshall
Latitude: 168 Feet South of 39 Deg. 52 Min. 30 Sec.
Longitude: 1271' Feet West of 80 Deg. 45 Min. 00 Sec.

Well Type: OIL _____ GAS X

Company Chevron Appalachia, LLC Coal Operator Consolidated Coal Company c/o Leatherwood, Inc
800 Mountain View Dr. or Owner 1000 Consol Energy Drive
Smithfield, PA 15478 Canonsburg, PA 15317
Coal Operator _____
Agent _____ or Owner _____
Permit Issued Date 5/27/2014

AFFIDAVIT

STATE OF Pennsylvania
County of Fayette ss:

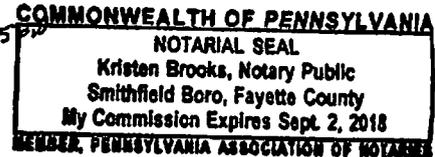
Glen Hoverson and Derek Hoge being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 30TH day of MAY, 2015, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Cast Iron Bridge Plug	1450'			
Cement Plug	1450'	1430'		
13-3/8" Casing	2,711'	Surface	None	

Description of monument: 13-5/8" FMC UH 1 Wellhead and that the work of plugging and filling said well was completed on the 31st day of May, 2015.

And further deponents saith not.

Alex Hoverson Office of Oil and Gas
Derek Hoge
JUN 04 2015



Sworn and subscribe before me this 3rd day of June, 2015

My commission expires: Sept 2, 2018
Kristen Brooks
Notary Public

Affidavit reviewed by the Office of Oil and Gas: _____ Title: _____

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

Received

JUN 15 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

API 47 - 051 - 01726 County Marshall District Clay
Quad Powhatan Pad Name Berger Pad A Field/Pool Name _____
Farm name Berger Well Number Berger 7H
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) 1292 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 5/27/2014 Date drilling commenced 6/30/2014 Date drilling ceased 5/31/2015
Date completion activities began _____ Date completion activities ceased _____
Verbal plugging (Y/N) Y Date permission granted 5/28/2015 Granted by Jim Nicholson

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

Freshwater depth(s) ft 169 Open mine(s) (Y/N) depths N
Salt water depth(s) ft _____ Void(s) encountered (Y/N) depths N
Coal depth(s) ft 768'-769', 784'-785', 830'-837', 1411'-1413', 1415'-1418' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) no but not sealed

Reviewed by:

API 47-051 - 01726 Farm name Berger Well number Berger 7H

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							
Surface							
Coal							
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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) 2710 Loggers TD (ft) _____

Deepest formation penetrated Berea 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 _____

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 _____

API 47- 051 - 01726 Farm name Berger Well number Berger 7H

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

Received

JUN 18 2015

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

Office of Oil and Gas
WV Dept. of Environmental Protection

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 ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		
Dunkard Group Sand	160	169	160	169	Fresh Water 169' MD 1" stream
Pittsburgh Coal	830	837	830	837	Coal
Salt Sand	1538	1568	1540	1570	Gas Show @ 1550' 6101 units
Big Lime	1848	1928	1850	1930	Limestone: crm-wh, hd, crpxln
Burgoon (Big Injun)	1927	2117	1930	2120	SS: offwh, wh, cons, clr, trans, lcemt, fg-mg
Weir Sand	2277	2297	2280	2300	SLTST: lly-mgy, occ mgy, hrd, vf-fg, tcmf, bio, arg, sl calc
Berea Sand	2507	2530	2510	2533	SS: wh, clr, trans, lly-gy, ora, lcmt, mg-fg, sbang-ang, arg, maph, non calc, tr flwr, oad fast cut, fnt odr, toe pyr

Please insert additional pages as applicable.

Drilling Contractor SEE ATTACHED
Address _____ City _____ State _____ Zip _____

Logging Company _____
Address _____ City _____ State _____ Zip _____

cementing Company _____
Address _____ City _____ State _____ Zip _____

Stimulating Company _____
Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Jackie M. Scholar / Nicholas Staffieri Telephone 724.564.3721 / 724.564.3715
Signature [Signature] Title Regulatory Compliance Team Lead Date 6/18/2015

API: 47-051-01725	Well Name: Berger	Well Number: Berger 3H
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DRILLING CONTRACTORS			
Driller	Driller	Driller	Driller
Name Rocky Mountain Drilling	Name Highlands Drilling LLC	Name Nabors Drilling USA	Name
Address 185 North Vernal Avenue, Suite 2	Address 900 Virginia Street East	Address 10100 NW 10th Street	Address
City - State - Zip Vernal, UT 84078	City - State - Zip Charleston, WV 25301	City - State - Zip Oklahoma City, OK 73127	City - State - Zip
Phone 435-789-3320	Phone 304-380-0114	Phone 405-324-8081	Phone

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

Received

API 47-051-01726 County Marshall District Clay **JUN 18 2015**
Quad Powhatan Pad Name Berger Pad A Field/Pool Name _____
Farm name Berger Well Number Berger 701 and Gas
Operator (as registered with the OOG) Chevron Appalachia, LLC WV Dept. of Environmental Protection
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) 1292 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
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Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							
Packer type and depth set							

Comment Details _____

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 Plug back procedure _____

Kick off depth (ft) _____

Check all wireline logs run caliper density deviated/directional induction
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API 47- 051 - 01726 Farm name Berger Well number Berger 7H

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

Received
JUN 18 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

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 ₂ S, ETC)
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Burgoon (Big Injun)	1927	2117	1930	2120	SS: offwh, wh, cons, clr, trans, lccmt, fg-mg
Weir Sand	2277	2297	2280	2300	SLTST: lly-mgy, occ mgy, hrd, vf-fg, lcrnt, bio, arg, sl calc
Berea Sand	2507	2530	2510	2533	SS: wh, cr, trans, lly-mgy, cna, lcrnt, mg-fg, sbang-ang, wrg, mspn, non calc, tr flcr, cal fast cut, int odr, lso pyr

Please insert additional pages as applicable.

Drilling Contractor SEE ATTACHED
 Address _____ City _____ State _____ Zip _____
 Logging Company _____
 Address _____ City _____ State _____ Zip _____
 Cementing Company _____
 Address _____ City _____ State _____ Zip _____
 Stimulating Company _____
 Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Jackie M. Scholar / Nicholas Staffieri Telephone 724.564.3721 / 724.564.3715
 Signature [Signature] Title Regulatory Compliance Team Lead Date 6/16/2015

API: 47-051-01725	Well Name: Berger	Well Number: Berger 3H
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DRILLING CONTRACTORS			
Driller	Driller	Driller	Driller
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Address 185 North Vernal Avenue, Suite 2	Address 900 Virginia Street East	Address 10100 NW 10th Street	Address
City - State - Zip Vernal, UT 84078	City - State - Zip Charleston, WV 25301	City - State - Zip Oklahoma City, OK 73127	City - State - Zip
Phone 435-789-3320	Phone 304-380-0114	Phone 405-324-8081	Phone

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Office of Oil and Gas

WW-4A
Revised 6-07

MAY 29 2015

1) Date: 5/11/2015

2) Operator's Well Number
7H

3) API Well No.: 47 - 51 - 01726

WV Department of Environmental Protection
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

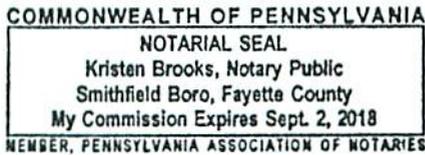
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name Gary Keith & Linda Berger	Name
Address 1305 Center Street	Address
Moundsville, WV 26041	
(b) Name	(b) Coal Owner(s) with Declaration
Address	Name Consolidated Coal Company c/o Leatherwood, Inc.
	Address 1000 Consol Energy Drive
	Canonsburg, PA 15317
(c) Name	Name
Address	Address
6) Inspector James Nicholson	(c) Coal Lessee with Declaration
Address P.O. Box 44	Name
Moundsville, WV 26041	Address
Telephone 304-552-3874	

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 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 12th day of May, 2015
Kristen Brooks Notary Public
 My Commission Expires Sept 2, 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.

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> <i>Walter C. ...</i> <input type="checkbox"/> Agent <input type="checkbox"/> Address</p> <p>B. Received by (Printed Name) <i>N. C. ...</i></p> <p>C. Date of Delivery</p>
<p>1. Article Addressed to:</p> <p>Consolidated Coal Company c/o Leatherwood, Inc. Engineering & Ops Support-Coal Attn: Analyst 1000 Consol Energy Drive Canonsburg, PA 15317</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label)</p>	<p>7014 0150 0000 0329 7557</p>
<p>PS Form 3811, July 2013 Domestic Return Receipt</p>	

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Office of Oil and Gas
MAY 29 2015
WV Department of
Environmental Protection

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Sent To	Postmark Here 
Street, Apt. No. or PO Box No.	Gary Keith & Linda Berger
City, State, ZIP	1305 Center Street
	Moundsville, WV 26041
PS Form 3800	

7014 0150 0000 0329 7557

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 Powhatan, OH-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. N/A

-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 MAY 29 2015
Company Official (Typed Name) Jenny Hayes
Company Official Title Permitting Team Lead

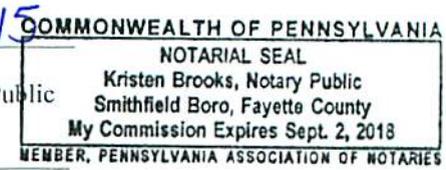
WV Department of
Environmental Protection

Subscribed and sworn before me this 12th day of May, 20 15

Kristen Brooks

Notary Public

My commission expires Sept 2, 2018



RECEIVED
Office of Oil and Gas

Chevron Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 21.2 Prevegetation pH 7

Lime 1 Tons/acre or to correct to pH 6.5-7

Fertilizer type 10-20-20

Fertilizer amount 1000 lbs/acre

Mulch 3 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Annual Ryegrass Mixture 48.4 lbs/acre

Perennial Ryegrass Mixture 435.6 lbs/acre

Creeping Red Fescue or Chewings Descue

Kentucky Bluegrass Mixture

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 Nicholas
Comments: _____

The attached plugging procedure is approved by me for temporary abandonment only.

RECEIVED
Office of Oil and Gas

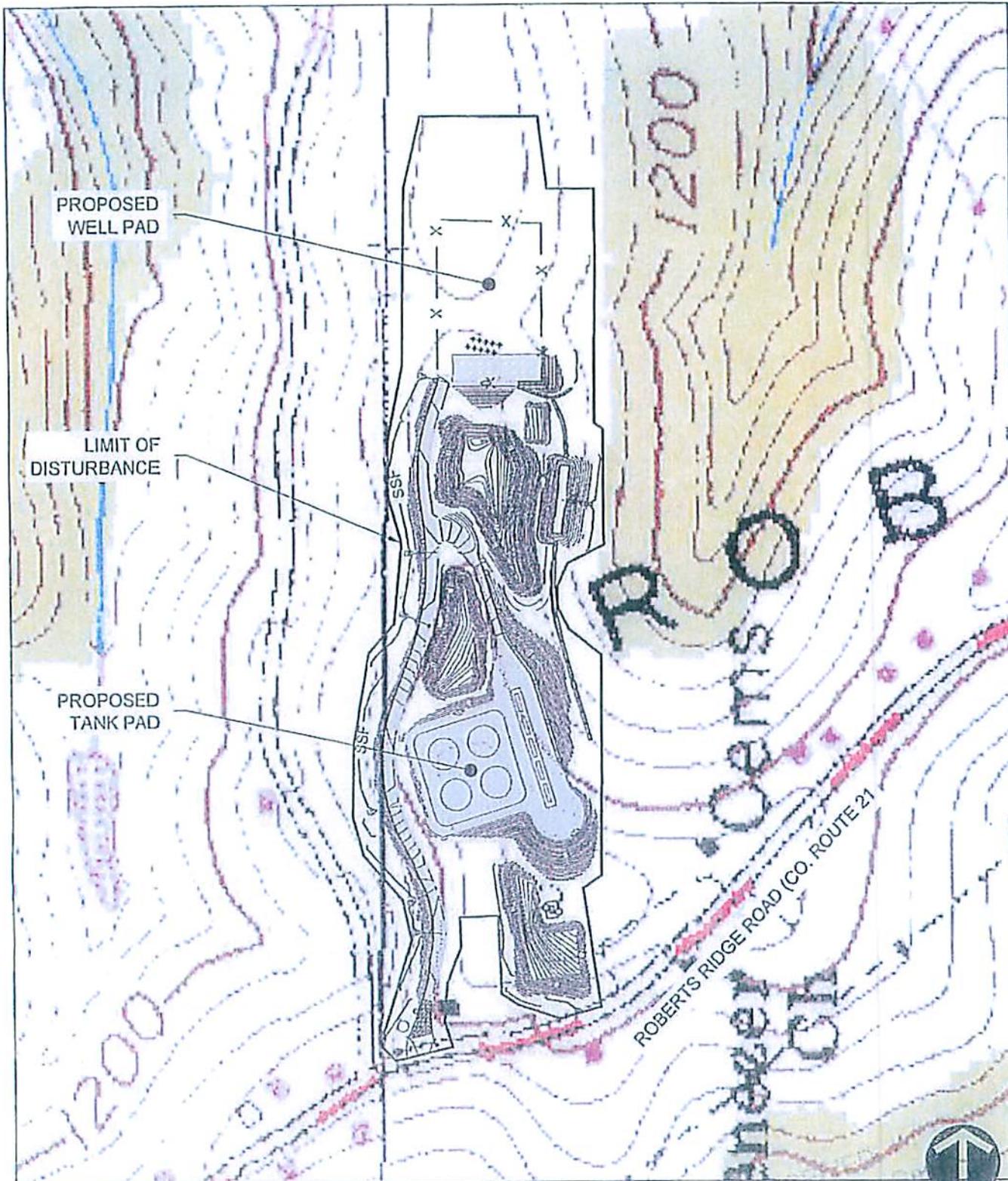
MAY 29 2015

WV Department of Environmental Protection

Title: Oil & Gas Inspector

Date: 5/19/2015

Field Reviewed? Yes No



SITE USGS LOCATION MAP
POWHATAN POINT AND BUSINESSBURG USGS QUADS
SCALE: 1" = 300'



USGS SITE LOCATION MAP
Project Number: 01726-0106
Drawing Scale: 1"=300'
Date & Issue: 02/21/2013
Issue Number: 1
Client No: 123
Checked By: JLD
Project Manager: JLD
FIG-1

BERGER WELLS AND TANK PAD
ROBERTS RIDGE ROAD (CO. ROUTE 21), CLAY DISTRICT
MARSHALL COUNTY, WEST VIRGINIA
PREPARED FOR:
CHEVRON APPALACHIA
800 MOUNTAIN VIEW DRIVE
S.M. HUBBARD, PA 15478

Date	No.	REVISION RECORD
	01	
	02	
	03	
	04	
	05	
	06	
	07	
	08	

RECEIVED
Office of Oil and Gas

02/21/2013

GATEWAY
Consulting Engineers & Geologists
4031 Holiday Drive, Suite 303 Pittsburgh, PA 15229
Phone (412) 921-4030 • Fax (412) 921-9793
E-Mail: info@gatewayinc.com
www.gatewayinc.com

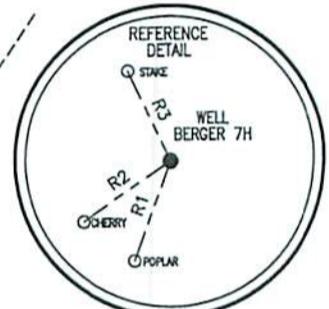
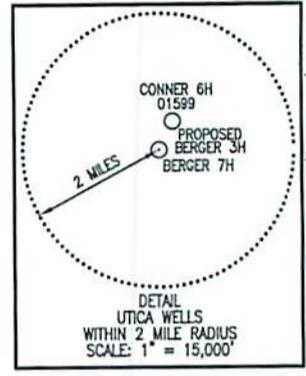
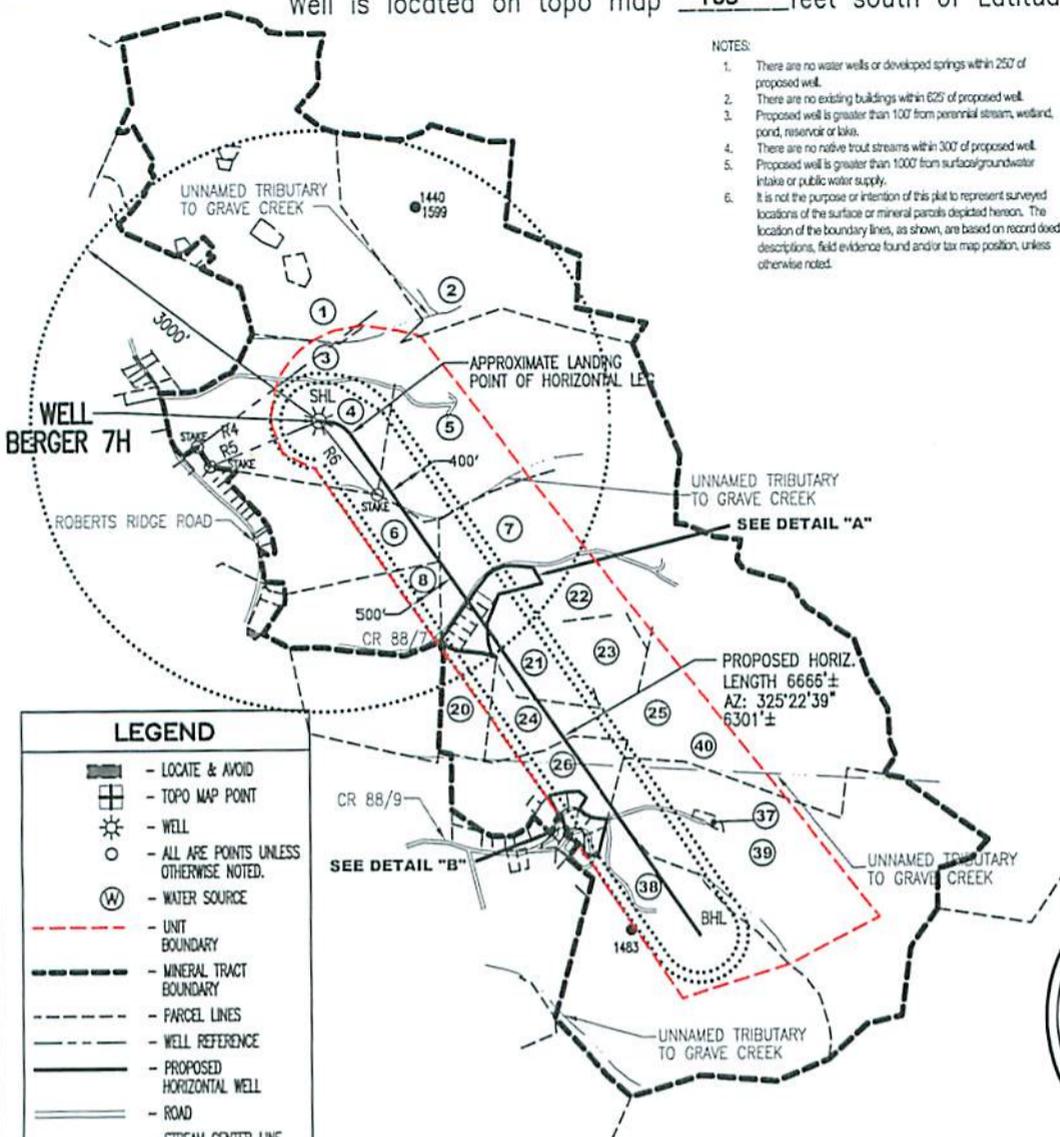
MAY 29 2015

Well is located on topo map 168' feet south of Latitude: 39° 52' 30"

- NOTES:
1. There are no water wells or developed springs within 250' of proposed well.
 2. There are no existing buildings within 625' of proposed well.
 3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 4. There are no native trout streams within 300' of proposed well.
 5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
 6. 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 1271' feet west of Longitude: 80° 45' 00"



LEGEND

- LOCATE & AVOID
- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- WATER SOURCE
- UNIT BOUNDARY
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE

WELLS WITHIN 3000'

- EXISTING WELLS
- PLUGGED WELLS

SEE PAGE 2 & 3 FOR SURFACE/OIL & GAS OWNERS

SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83 N:4413858.71 E:520989.08	UTM 17-NAD83 N:4413818.70 E:521087.76	UTM 17-NAD83 N:4412257.19 E:522204.87
NAD83_WY NORTH N:503102.30 E:1616405.99	NAD83_WY NORTH N:502965.56 E:1616727.62	NAD83_WY NORTH N:497780.22 E:1620307.88

LINE	BEARING	DISTANCE
R1	S 19°56'09" W	219.30'
R2	S 55°14'48" W	219.90'
R3	N 25°02'26" W	205.76'
R4	S 78°28'18" W	1283.41'
R5	S 67°40'10" W	1216.99'
R6	S 37°56'47" E	971.70'

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

FILE #: BERGER 7H
DRAWING #: BERGER 7H
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: *George D. Six*
R.P.E.: _____ L.L.S.: P.S. No. 2000



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



DATE: FEBRUARY 12, 2014

OPERATOR'S WELL #: BERGER 7H
RECEIVED
Office of Oil and Gas 51
STATE COUNTY PERMIT

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

WATERSHED: MIDDLE GRAVE CREEK - GRAVE CREEK
COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: POWHATAN, OH-WV 7.5'
SURFACE OWNER: GARY & LINDA BERGER ACREAGE: 53.01±
OIL & GAS ROYALTY OWNER: GARY & LINDA BERGER ACREAGE: 999.829±

MAY 29 2015
WV Department of Environmental Protection 1287.44'

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: UTICA ESTIMATED DEPTH: TVD: 10,967± TMD: 17,718±
WELL OPERATOR: CHEVRON APPALACHIA, LLC DESIGNATED AGENT: KENNETH E. TAWNEY
Address: 800 MOUNTAIN VIEW DRIVE Address: 500 LEE STREET, EAST SUITE 1600
City: SMITHFIELD State: PA Zip Code: 15478 City: CHARLESTON State: WV Zip Code: 25301-3202

Operator: CHEVRON APPALACHIA, LLC
API: 5101726
WELL No: BERGER 7H

Reviewed by: _____ Date: _____

15 Day End of Comment: 6/3/15

CHECKLIST FOR FILING A PERMIT

Partial Plug

- WW-2B
- Inspector signature on WW-2B
- Completion / Well Records of Previous Work
- WW-2A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- Surface Owner Waiver
- Coal Owner / Lessee / Operator Waiver
- WW-2A-1 (Signed) Showing Book/Page Number and Royalty Percentage
- WW-9 (Page 1 & 2) (Notarized)
- More than 5,000 bbls
- Inspector Signature on WW-9
- Reclamation plan
- Topographic Map of location of well
- Mylar Plat (Signed Sealed) (Surface owner on plat matches WW-2A)
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- \$650.00 check (\$550.00 if no pit)
- Mine Data
- Addendum
- Professional Engineer/Company has COA