

### 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

January 08, 2015

### WELL WORK PERMIT Horizontal 6A Well

This permit, API Well Number: 47-5101769, 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: CONNER 1HR

Farm Name: KNABENSHUE, SARAH J. ET AL

API Well Number: 47-5101769

Permit Type: Horizontal 6A Well

Date Issued: 01/08/2015

Promoting a healthy environment.

### **INSPECTORS PERMIT SUMMARY FORM**

GPS YES[] NO[]

DA	TE STARTED/LOCATION:	OPERATOR:	CHEVRON APPALACH	IIA, LLC
DR	ILLING COMMENCED:	FARM:	KNABENSHUE, SARA	H J. ET AL
то	DATE: DEPTHS:	Well No:	CONNER 1HR	
WA	TER DEPTHS:	COAL DEPTHS		
	ESTIONS FOR THIS REPORT ARE IN ACCORDANCE 2.1 AND 35CSR 4-16 AND THE GENERAL WATER PO			NS 35CSR
PC	INTS ARE TO BE GIVEN UP TO MAXIMUM AS SE	HOWN BASED OF	N PERFORMANCE.	
1.	DID OPERATOR GIVE PROPER NOTICE TO INSPE	CTOR BEFORE TI	HE FOLLOWING:	
	A. CONSTRUCTION YES [ ]	NO[] (2_PTS)	)	(4_PTS)
	B. DRILLING YES [ ]	NO [ ] (2_PTS)	)	
2.	WAS THE TIMBER CUT, STACKED, AND BRUSH UBEFORE DIRT WORK STARTED? YES [ ]	SED FOR SEDIMI NO [ ] (2_PT	ENT BARRIERS S)	(4_PTS)
3.	ARE ALL LOCATION AND/OR ROAD BANKS BEIN	G SLOPED? YES	[ ] NO[ ] (4_PTS)	(4_PTS)
4.	CONSTRUCTIONS: WERE THE FOLLOWING SEDIMENT CONTROL STA. ROAD DITCHES (1)_(2)_(3)_(4)_(PTS) C. CULVERTS (1)_(2)_(3)_(4)_(5)_(PTS) E. DIVERSION DITCHES (1)_(2)_(3)_(PTS) G. TEMPORARY SEEDING YES[] NO[] (10)	B. CROSS DRA  ) D. CREEK CRO  F. BARRIERS  _PTS)	AINS (1)_(2)_(3)_(4 OSSINGS (1)_(2)_(3)_(F (1)_(2)_(3)_(F	(5)_(5)_(PTS) PTS)
			E FOR QUESTION 4:	(33_PTS)
5.	HAS TOP SOIL (IF ANY) BEEN STOCKED PILED?	YES[]	NO[] (2_PTS)	(2_PTS)
6.	IS THE PIT PROPERLY INSTALLED AND MAINTAI	NED? YES[]	NO[] (9_PTS)	(9_PTS)
7.		D. PIPELINES F. API INSTALL (3)_(PTS) (3)_(PTS)	(1)_(2)_(3)_(PT	S)
8. T	WAS RECLAMATION COMPLETED WITHIN: 6 MTHS OF TD 6_PTS ONLY; 4 MTHS OF TD 12_ PO: TOTAL MAXIMUM POSSIBLE SCORE OF 99.	INTS AVAILABLE	THS OF TD 19_PTS ONL  FOR QUESTION 8:  ECLAMATION SCORE	(19_PTS)
	DATE RELEASED	IN	SPECTOR'S SIGNATURI	Ē

NSPECTIONS:	
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API Number: 051-01769

### PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit</u> conditions may result in enforcement action.

#### **CONDITIONS**

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

WW-6B (9/13)

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operator: Chevron App	oalachia, LL(	49449935	Marshall	Clay	Businessburg, WV 7.5'
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: 1HR	1	Well P	ad Name: Con	ner .	
3) Farm Name/Surface Owner: _	Conner	Public Re	oad Access: Co	ounty Hwy 88	8/6 (Kull Lane)
4) Elevation, current ground: 1	220'	Elevation, propose	d post-construc	tion:	
5) Well Type (a) Gas	Oil	Un	derground Stor	age	A = 1
(b)If Gas Shal	low 🔳	Deep			-
Hori	zontal 🔳		Z.	h 8/	19/14
6) Existing Pad: Yes or No Yes				- 1	,
7) Proposed Target Formation(s), Marcellus, 6323', 49'/0.65 psi/f		nticipated Thickness	and Associate	d Pressure(s	·):
8) Proposed Total Vertical Depth	: 6,329'				
9) Formation at Total Vertical De		us			7
10) Proposed Total Measured De	-				
11) Proposed Horizontal Leg Ler	ngth: 8.329				
12) Approximate Fresh Water St	rata Depths:	80' 230'	=		1
13) Method to Determine Fresh	Water Depths:	Local stream base	/Conner 4H Pilot/	offset operate	ors
14) Approximate Saltwater Dept				si si	
15) Approximate Coal Seam Dep	oths: 752'				
16) Approximate Depth to Possi	ole Void (coal	l mine, karst, other)	: None Anticipat	ed, Well bo	re located in an
17) Does Proposed well location directly overlying or adjacent to				arrier pi	illar (see coalex)
(a) If Yes, provide Mine Info:	Name: Ire	eland Mine			
	Depth: 75	52'			
	Seam: Pi	ittsburgh No 8 Coal S	Geam		
	Owner: C	ONSOL Energy			

Office of Oil & Gas

WW-6B (9/13)

18)

### CASING AND TUBING PROGRAM

TYPE	Size	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill-up (Cu. Ft.)
Conductor	30"	New			40'	40'	CTS
Fresh Water	13-3/8"	New	J-55	54.5#	323'	323'	CTS
Coal							
Intermediate	9-5/8"	New	N-80	40#	2,157'	2,157'	CTS
Production	5.5"	New	P-110	20#	15,012	15,012	CTS
Tubing					15)		
Liners							

Ju 8/19/14

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	36"				
Fresh Water	13-3/8"	17.5	0.380"	2,730 psi	Class A	1.18
Coal						
Intermediate	9-5/8"	12.25	0.395	5,750 psi	Class A	1.29
Production	5.5"	8.5	0.361	12,640 psi	Class A	2.2
Tubing						
Liners						

### **PACKERS**

Kind:			
Sizes:		Dec	eived
Depths Set:		1100	1 2 2014
	1	SEP	

Office of Oil and Gas

WV Dept. of Environmental Protection

WW-6B (9/13)

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:
Drill 17.5" hole to 323' then run and cement 13-3/8"" casing to surface covering the fresh water. Drill 12.25" hole 2157' then run and cement to surface 9 5/8" casing. Drill 8 1/2" hole to KOP. Drill 8 1/2" curve and lateral to 15,012' MD and 6,329' TVD. Run 5 1/2" production casing and cement back to surface.
20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:
Chevron will utilizing plug and perf method with 40 stages using 8,572 bbl of fluid and 315,000 lbm of sand per stage
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 9.9 ac
22) Area to be disturbed for well pad only, less access road (acres): 3.8
23) Describe centralizer placement for each casing string:
There will be a bow spring centralizer every two jts on the Water string and intermediate. The production string will have two centralizer every jt in the lateral and curve, then one every two jts from KOP to surface.
24) Describe all cement additives associated with each cement type:
The Water String blend will contain class A cement, 3% CaCl2, and flake. The intermediate will contain class A cement, 10% CaCl2, Salt, and flake. The Production cement will have a lead and tail cement. The lead will contain class A cement, KCl, dispersant, suspension agent, and retarder. The tail will contain class A cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.
25) Proposed borehole conditioning procedures:
Well will be circulated a minimum of 3 bottoms up once casing point has been reached on all hole sections and until uniform mud properties are achieved.
SEP 1 2 2014
*Note: Attach additional sheets as needed   *Note: Attach additional sheets as needed   *Note: Attach additional sheets as needed
*Note: Attach additional sheets as needed

### WW-6B Attachment Conner North Unit 1H, 3H, 5H, 7H, 8H, 9H, and 10H

### Scenario-1: Marcellus well drilled first as Pilot well:

- a. If a void is encountered, we will drill ahead to min 30' or max 50' below mine void and stop drilling.
  - Notify DEP Inspector and obtain permit/ approval to plug back hole. The plugback procedure will be as follows:
    - o Trip in hole with 2-7/8" tubing cement stinger to 20' above top of void.
    - Mix and pump cement to fill rat hole below void. Trip out of hole and lay down tubing
    - o Trip in hole with Open Hole Packer and set at 20' above top of void. Test packer.
    - Trip out of hole and lay down packer running tool
    - o TIH w/ 2-7/8" tubing to 5'+/- from top of packer
    - o Mix and pump 15.6pgg cement on top of packer and fill hole to within 10' from surface.
    - o Trip out of hole and lay down tubing.
    - Nipple down BOPE and related equipment
    - o Cut casing, lay wellhead and casing cut piece
    - Weld on steel plate to cover casing
    - Rig down and skid rig to next well. Note: Cellar ring removal, cellar filling and installation of land mark will be done later

The rest wells original plan will be revised to incorporate a coal casing string as follows:

### b. Marcellus Wells Contingency Casing Plan:

- Drill 26" hole to 330' (min 50' or max 150' beyond freshwater zone)
- Run 20" 94.5# J-55 BTC casing
- Cement casing to surface using displacement method with 30% excess
- Drill 17-1/2" hole to 800' (min 30'or max 50 beyond mine void)
- Run 13-3/8" 54.5# J-55 BTC casing with cement basket 20' above mine void
- Cement casing using displacement method to bottom of mine void using 100% excess
- Grout from surface to cement basket using whatever volume of cement necessary to get cement to surface
- Drill 12-1/4" hole to **2,157'** (50' below the base of the Burgoon)
- Run 9-5/8" 40# N-80 BTC casing to isolate shallow gas sand and salt water zones
- Cement casing to surface using displacement method with 30% excess
- Drill 8-1/2" production hole to TD
- Run 5 ½" 20# P-110 VA Superior production casing to TD
- Cement casing to surface using displacement method with 10% excess

### Scenario-2: Drilling String/ Bottom Hole Assembly Stuck during drilling:

- If the drill string/BHA gets stuck during drilling operation:
  - Make all necessary effort and attempt to free the drill string/BHA.
  - If all effort and attempts proves unsuccessful, will notify WV DEP Inspector of situation and obtain verbal and/or email approval to plug hole back with cement plug(s) and sidetrack well
  - Cement plug(s) will be set as needed to the desired depth adequate for successful sidetrack of well without compromising anti-collision with the longing bole and ghost well(s)/adjacent wells on the same pad
  - Cement plug(s) additives will contain Class H cement, KCl, Dispersant, Anti-Foam, and Retarder.
  - o Trip in hole with Drilling Bottom Hole Assembly
  - Dress/drill cement to proposed kick off point

Office of Oil and Gas

o Kick off and sidetrack well and directionally drill sidetrack Well to ପାଇଞ୍ଚାଳଥା ଅଧିକଥା । ପ୍ରତ୍ୟାକ୍ତ ଜଣ ବ୍ୟୁ ନିର୍ଦ୍ଦ ପ୍ରତ୍ୟାକ୍ତ ଜଣ ବ୍ୟୁ ନିର୍ଦ୍ଦ ପ୍ରତ୍ୟାକ୍ତ ଜଣ ବ୍ୟୁ ନିର୍ଦ୍ଦ ଜଣ ବ୍ୟୁ ନିର୍ମ୍ଦ ଜଣ ବ୍ୟୁ ନିର୍ଦ୍ଦ ଜଣ ବ୍ୟୁ ନିର୍ମ ଜଣ ବ୍ୟୁ ନିର୍ଦ୍ଦ ଜଣ ବ୍ୟୁ ନିର୍ମ ଜଣ ବ୍ୟୁ ନିର୍ମ ଜଣ ବ୍ୟୁ ନିର୍ମ ଜଣ ବ୍ୟୁ ନିର୍ମ ଜଣ କିନ୍ମ ଜଣ କିନ୍ମ

470S 101769 **Conner North 1H** Ground Level Elevation: 1,222 Marshall Co. WV Casing & Cementing Details 15 August 21, 2014 DEPTH CASING CEMENT GENERAL Casing INFO INFO SIZE SPECS MD TVD Conductor grout to surface 40 ft from GL or at least 10 ft into bedroo 30 " Casing Class A w/ 3% CaCl2, Salt & Flake Fresh Water Casing 13-3/8" 54.5# J-55 BTC Bow Spring: 1-shoe jt, 1-every 2nd jt Yield (cf/sk) = 1.21 1 on ea 2-3 jts across previous shoe. 0.458" wall Weight (ppg)= 15.6 Rigid: 2-within 100 ft of surface Capacity = 0.3553 bbl/ft Annulus = 0.2681 bbl/ft 79 bbl 30% excess 367 sks Deepest Aquifer 245 (+ 15.6 bbl for shoe track) Burst = 2110 psi Minimum 50 ft past deepest known fresh water 17 1/2" 13.38 "Casing 767 Pittsburgh Coa Possible Red Beds 802-902' from GL Possible Red Beds 1070'-1100" from GL Class A w/ 10% CaCl2, Salt & Flake Yield (cf/sk) = 1.29 Weight (ppg)= 15.6 Intermediate Casing 9-5/8" 40# N-80 BTC 8.835" ID - 8.679" DD Bow Spring: 1-shoe jt, 1-every 2nd jt Capacity = 0.0758 bbl/ft 1 on ea 2-3 its across previous shoe Annulus = 0.0558 bbl/ft 159.5 bbl Rigid: 2-within 100 ft of surface (+ 3.1 bbl for shoe track) 694 sks Burst = 5750 psi Collapse = 3090 psi 30% excess Burgoon (Big Injun 12 1/4" 9 5/8 "Casing Class A: Lead Length: 1) LEAD SLURRY BOPE Class for section 6,088 Yield (cf/sk) = 1.32 (Surface to 200' above Upper Marcellus plus 10% ir Weight (ppg)= 15.2 13-5/8" 10K Class III 285.9 bbl BOPE 1216 sks open hole) Prod. Casing 5-1/2", 20# P-110, New Vam TOC Lead = 15 ft MD Class A: Tail Length: Capacity = .0221 bbl/ft 2) TAIL SLURRY Middlese Yield (cf/sk) = 1.61 8,938' (+1 bbl for shoe track) Weight (ppg)= 15.2 402.0 bbl (200' above Upper Burst = 12,640 psi 55.85° **Burkett Sh** Marcellus to Shoe plus 10% in open Collapse = 11,080 psi ID = 4.778" 1401 sks TOC Tail = 6,088 ft MD hole) Drift = 4.653" 60.24° 75.01 S2b (L. Marcellus) Centralization \* 2 Torq glider per jt 88.65° from shoe to KOP 1 single bow per 2 jt from KOP to surface Horizontal Landing Point 90.0° 90.0° S1b (Basal Marcellus 45ft Shoe Tra Lateral length = Onondaga

8 1/2"

15,026

5 1/2 "Casin

Received

SEP 1 2 2014

WW-9 (9/13) API Number 47 - 47 05 10 1 7 6 9
Operator's Well No. 1HR

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 Quadran	gle Businessburg, WV 7.5'	
Elevation 1220'	County_Marshall	District_ Clay	
Do you anticipate using more than 5,000 b Will a pit be used? Yes No _	bls of water to complete the propos	ed well work? Yes N	o
If so, please describe anticipated p			
Will a synthetic liner be used in the	ne pit? Yes No	If so, what ml.?	
Proposed Disposal Method For Tr	reated Pit Wastes:		
Reuse (at API)	Jection (UIC Permit Number	nt location) Istern will remove drill o gsare them prepared for	uttings from the dri transportation to an
-If oil based, what type? Synthet			
Additives to be used in drilling medium?		abilizer	
Drill cuttings disposal method? Leave in			
	what medium will be used? (ceme		
	number?Arden Landfill - Permit# - PA C		
on August 1, 2005, by the Office of Oil as provisions of the permit are enforceable law or regulation can lead to enforcement	by law. Violations of any term or action.  that I have personally examined a acreto and that, based on my incention is true, accurate	ment of Environmental Protection condition of the general permit and and familiar with the informa- tury of those individuals imme- and complete. I am aware the	n. I understand that the and/or other applicable ation submitted on this diately responsible for
Company Official Signature ()	shunialen	Ro	ceived
Company Official (Typed Name) Anna	Shumaker		of Oil & Gas
Company Official Title Permitting Coord	linator		
		UEC	<b>2 9</b> 2014
Subscribed and sworn before me this	12 day of August	. 20 <u>//</u> com	MONWEALTH OF PENNSYLVANIA
Thomas Baring	1	Notary Public	NOTARIAL SEAL THOMAS BASINGER
My commission expires 9/24/20	7	CONNE	Notary Public LLSVILLE CITY, PAYETTE ONTY nmission Expires Sep 24, 2017

Operator's Well No. 1HR Form WW-9 Chevron Appalachia, LLC Prevegetation pH 6.5-7.0 Proposed Revegetation Treatment: Acres Disturbed 16.0 Tons/acre or to correct to pH 10-20-20 Fertilizer type Fertilizer amount 1,000 lbs/acre  $_{\text{Mulch}\_}$  3 Tons/acre **Seed Mixtures** Permanent **Temporary** lbs/acre Seed Type Seed Type lbs/acre Perennial Ryegrass Mixture (Iolium Perenne) -10 lb per acre Annual Ryegrass Mixture (Lolium Multigorum) - 10 LB per acre Creeping Red Fescue or Chewing Fescue - 10 lb per acre Kentucky Bluegrass Mixture (POA Pratensis) - 10 lb per acre 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. Comments: Office of Oil and Gas Title: Oil + Cos (uspector Date: 8/19/14 WV Dept. of Environmental Protection

Field Reviewed? ( ) Yes ( ) No

### CHEVRON APPALACHIA, LLC



### West Virginia Well Site Safety Plan

# Conner Site Well 1HR Marshall County, West Virginia

Prepared in Conformance with:

8:1141

West Virginia's Code §22-6A and Legislative Rule §35-8-5.7 and

West Virginia Department of Environmental Protection's, Office of Oil and Gas documents: "Well Site Safety Plan Standards" (issued August 25, 2011), and "Deep Well Drilling Procedures and Site Safety Plan Requirements" (issued October 22, 2012)

Revision 1

Original: September 2012

Revised: June 2013

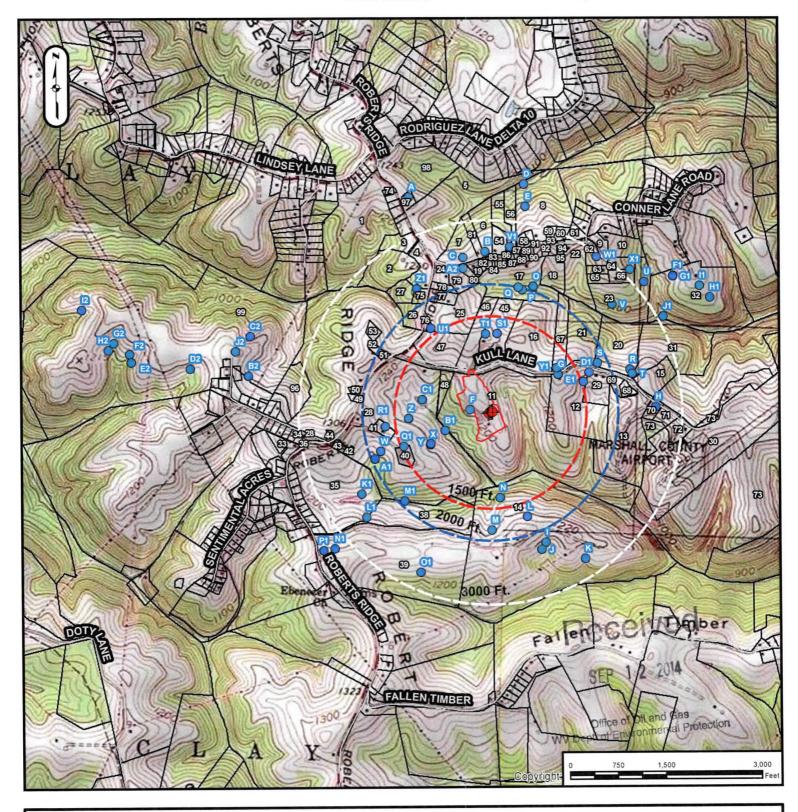
Revised: May 2014

Received

SEP 1 2 2014

Office of Oil and Gas WV Dept. of Environmental Protection Date: 6/2/2014

# WATER SUPPLY AHO 5 / 0 1 7 6 9 CONNER Blue Mountain Inc.



SURFACE OWNER: SARAH KNABENSHUE, ET AL

OIL/GAS OWNER: HOWARD BONAR CONNER, ET AL

WELL OPERATOR: CHEVRON APPALACHIA, LLC

ADDRESS: 800 MOUNTAIN VIEW DRIVE

SMITHFIELD, PA 15478

PHONE: 724-564-3700

COUNTY: MARSHALL

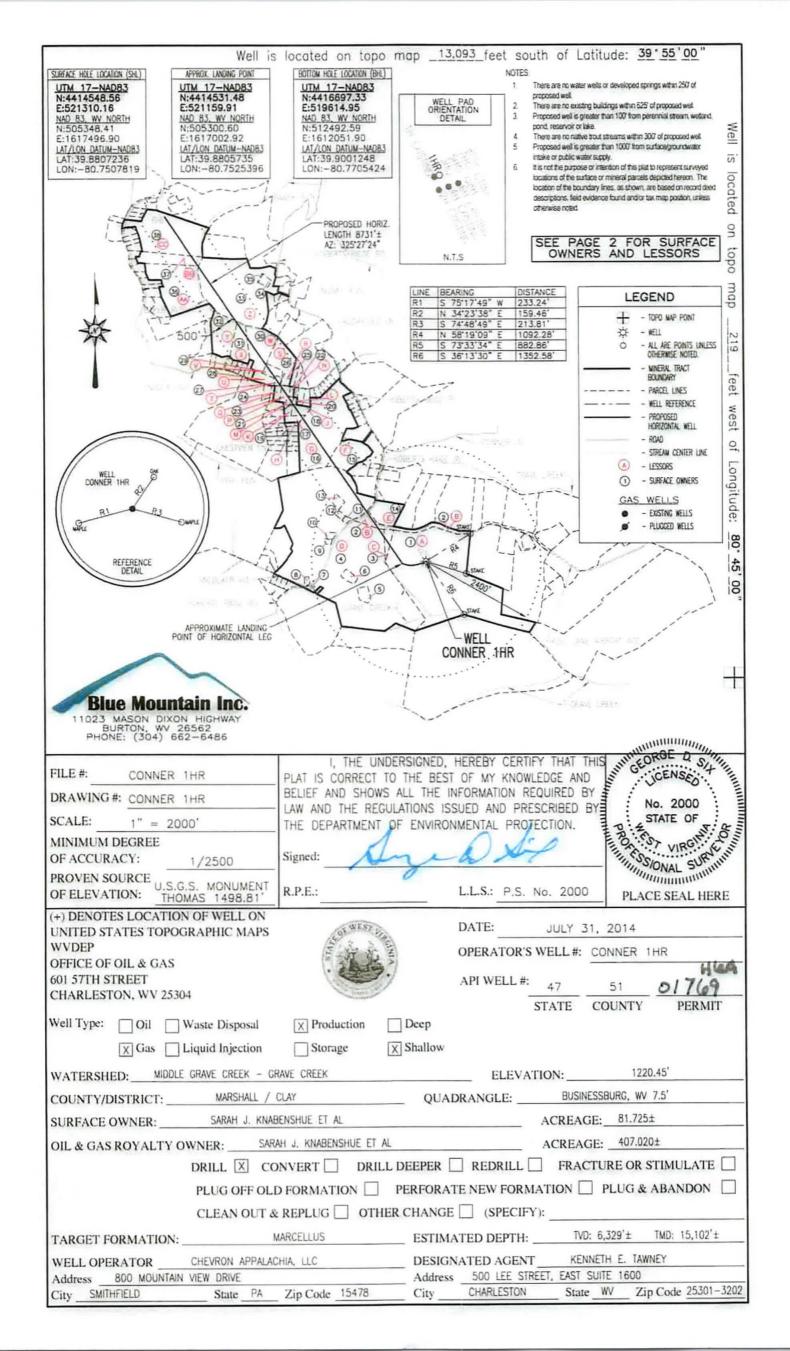
DISTRICT: CLAY

SURVEYOR: BLUE MOUNTAIN INC.

ADDRESS: 11023 MASON DIXON HIGHWAY

BURTON, WV 26562

PHONE: 304-662-6486



### CONNER 1HR PAGE 2 OF 2

	SURFACE OWNER	DIST-TM/PAR
1	SARAH J. KNABENSHUE ET AL	4-5/55
2	W VA DEPT OF HIGHWAYS	4-5/65
3	MARY E. & JANET C. PERSINGER	4-5/55.1
4.	JOHN L. FOX ET AL	4-5/66
5	JANET C. & JOHN R. HUNNELL	4-5/66.16
6	ROGER L. & TAMARA J. ANTILL	4-5/66.10
7	KEVIN H. SOUTH ET UX	4-5/66.7
8	WAYNE L. JR. & ANNETTE R. WEST	4-5/66.12
9	RICHARD A. GOODE ET UX	4-5/66.9
10	BRYANT L. PERSINGER ET UX	4-5/66.4
11	TRENT & BRIA WOLFE	4-5/66.2
12	RONALD E. CARNEY ET UX	4-5/66.3
13	ANN & GERALD L. MILLER	4-5/66.14
14	*LARRY S. RODRIGUEZ ET UX	4-5/56.1
15	JOHN A. & TIFFANY ROBBINS	4-5/19.7
16	CURTIS G. & SHERRI A. MASON	4-5/19.8
17		4-5/16
18		4-5/17
19		4-5/15
	RANDOLPH & CYNTHIA S. BRUNNER	4-5/14.1
	STEVE & CHRISTINA D. TROY	4-5/14
	*ALICE E. DUNLAP - LIFE	4-5/8.1
23	FRANK GUZEK JR. EST	4-5/8
24	RICHARD E. SCHAMP ET UX	4-5/9
25	JAMIE LYNN BROOKS	4-5/1.5
26	*JACK PORTER ET UX	4-5/1.1
27	JACK PORTER ET UX	4-5/1.4
28	*JAMES ROBERT MCDANNELS ET AL	4-5/1.3
29	JACK PORTER ET UX	4-5/1.2
30	JAMES ROBERT MCDANNELS ET AL	4-5/1
31	LARRY WAYNE PHILLIPS ET UX	4-6/25
32	LARRY WAYNE PHILLIPS ET UX	4-6/26
33	ROBERT G. MARSH ET UX	4-2/20
34	MARGARET A. YEATER	4-2/20.5
35	MARGARET A. YEATER	4-2/20.6
36	MARK MINOR ET UX	4-2/19.15
37	GARY D. HINERMAN JR.	4-2/13
38	ROBERT J. HINERMAN	4-2/12

. - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

	LESSOR
A	HOWARD BONAR CONNER ET AL
В	HOWARD T. CONNER
	SARAH J. KNABENSHUE
	MARY L. WHITTINGTON
С	MARY E. PERSINGER, LIFE ESTATE,
	JANET HUNNELL (REMAINDERMAN)
D	MARY E. PERSINGER ET AL
E	*LARRY S. & SUSAN D. RODRIGUEZ
F	DANIEL J. FECAT
	MELISA A. FECAT
G	CURTIS G. & SHERRI A. MASON
Н	W. B. MINOR HEIRS
J	RANDOLPH & CYNTHIA S. BRUNNER
K	*RANDOLPH & CYNTHIA S. BRUNNER
L	W. B. MINOR HEIRS
М	W. B. MINOR HEIRS
N	*W. B. MINOR HEIRS
P	FRANK GUZEK JR.
Q	W. B. MINOR HEIRS
R	JAMIE LYNN BROOKS
S	*JACK & AUGUSTE PORTER
T	W. B. MINOR HEIRS
U	*JAMES R. MCDANNELS ET AL
٧	JACK & AUGUSTE PORTER
W	JAMES R. MCDANNELS ET AL
X	LARRY WAYNE PHILLIPS
Y	LARRY WAYNE PHILLIPS
Z	ROBERT G. & MARY C. MARSH
AA	MARK MINOR AND MARY MINOR
BB	GARY D. HINERMAN JR.
CC	ROBERT J. HINERMAN

47-51-01769

SUPFACE HOLE LOCATION (SHL)

UTM 17-NAD83 N:4414548.56 E:521310.16 NAD 83, W NORTH N:505348.41 E:1617496.90 LAT/LON DATUM-NAD83 LAT:39.8807236 LON:-80.7507819

APPROX. LANSING POINT WTM 17-NAD83 N:4414531.48 E:521159.91 NAD 83. W. NORTH N:505300.60 E:1617002.92 LAT/LON DATUM-NAD83 LAT:39.8805735 LON:-80.7525396

BOTTOM HOLE LOCATION (BHL) UTM 17-NAD83 N:4416697.33 E:519614.95 NAD 83, W NORTH N:512492.59 E:1612051.90 LAT/LON DATUM-NAD83 LAT:39,9001248 LON:-80.7705424

**JULY 31, 2014** 

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

Date of Notic	ee Certification: 09/04/2014		No. 47	
		•	rator's Well No. <u>1</u> 1	
		Wel	l Pad Name: Conn	er
Notice has b	oeen given:			
	ne provisions in West Virginia Code §	22-6A, the Operator has provided	the required parties	s with the Notice Forms listed
	tract of land as follows:	Cost	ting: 521310.16	
State:	West Virginia		ting: 521310.16 thing: 4414548.56	
County: District:	Marshall Clay	Public Road Access:		8/6 (Kull Lane)
Quadrangle:	Businessburg, WV 7.5'	Generally used farm n		5/5 (No. 12410)
Watershed:	Middle Grave Creek - Grave Creek			
watersnea.		<del></del>		
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and shed the owners of the surface described equired by subsections (b) and (c), see surface owner notice of entry to surface of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall to have been completed by the applicant	ted in subdivisions (1), (2) and (4) ction sixteen of this article; (ii) that rvey pursuant to subsection (a), so if this article were waived in write ander proof of and certify to the se	4), subsection (b), it the requirement we ection ten of this a ing by the surface	section ten of this article, the ras deemed satisfied as a result rticle six-a; or (iii) the notice owner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the required	erator has attached proof to this Nd parties with the following:	lotice Certification	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED SEISMIC ACTIVITY WAS CO		☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	EY or 🔳 NO PLAT SURVEY V	WAS CONDUCTE	P RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLAWAS CONDUCTED or		☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY S (PLEASE ATTACH)	SURFACE OWNE	₹
■ 4. NO	TICE OF PLANNED OPERATION		civod	RECEIVED
■ 5. PU	BLIC NOTICE		1.2 2014	☐ RECEIVED
■ 6. NO	TICE OF APPLICATION	OL1	1 <b>&amp;</b> 30 T	☐ RECEIVED
		Office WV Dept. of E	of Oil and Gas actedments. Protecti	on

#### **Required Attachments:**

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

### Certification of Notice is hereby given:

Well Operator: Chevron Appalachia, LLC

THEREFORE, I Make Tread and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

By: Anna Shumaker Smithfield, PA 15478

Its: Permitting Coordinator Facsimile: 724-564-3894

Telephone: 724-564-3700 Email: ashumaker@chevron.com

Subscribed and sworn before me this day of September 2014.

Subscribed and sworn before me this Motary Public Notary Public

My Commission Expires

Address:

800 Mountainview Drive

#### Oil and Gas Privacy Notice:

1200

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

Received

SEP 1 2 2014

Office of Oil and Gas WV Dept. of Environmental Protection

COMMONISATIN OF PERMITY VALUE

NOTATIVAL SEAL

JEWNY L SUTCHKO

Moles y Public

SMITHFIELD BORG. HAVETTE COUNTY

MY COMMISSION Expure Jan 17, 2013

### 4705/01769

API NO. 4/-			_
OPERATOR WE	LL NO.	1HR	
Well Pad Name:	Conner		

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS $\frac{\text{NOTICE OF APPLICATION}}{\text{NOTICE OF APPLICATION}}$

Noti	ce Time Requirement:	notice shall be provi	ded no later than	the filing date of permit application.
	e of Notice: 85/4 I ce of:	Date Permit Applica	tion Filed: 99	114
<b>V</b>	PERMIT FOR ANY WELL WORK			OVAL FOR THE N IMPOUNDMENT OR PIT
Deli	very method pursuant	to West Virginia C	ode § 22-6A-10(l	b)
	PERSONAL SERVICE	REGISTERED MAIL		D OF DELIVERY THAT REQUIRES A T OR SIGNATURE CONFIRMATION
regiss seding the social addescription operation well important provides a substraction of the substractio	stered mail or by any met ment control plan require surface of the tract on wh and gas leasehold being de ribed in the erosion and stator or lessee, in the ever e coal seams; (4) The ow work, if the surface tract boundment or pit as descript a water well, spring or wide water for consumption cosed well work activity is section (b) of this section ords of the sheriff required vision of this article to the le R. § 35-8-5.7.a required	hod of delivery that read by section seven of hich the well is or is preveloped by the proposed ment control plan and the tract of land on the record of the state of the proposed ment of the propose	quires a receipt or this article, and the oposed to be located sed well work, if the submitted pursuant which the well production of the construction of the article; (5) Are cated within one the estic animals; and (1) If more than three ands, the applicant resuant to section either holder is not received.	as required by this article shall deliver, by personal service or by signature confirmation, copies of the application, the erosion and e well plat to each of the following persons: (1) The owners of record of ed; (2) The owners of record of the surface tract or tracts overlying the he surface tract is to be used for roads or other land disturbance as it to subsection (c), section seven of this article; (3) The coal owner, sposed to be drilled is located [sic] is known to be underlain by one or its overlying the oil and gas leasehold being developed by the proposed ction, enlargement, alteration, repair, removal or abandonment of any my surface owner or water purveyor who is known to the applicant to housand five hundred feet of the center of the well pad which is used to (6) The operator of any natural gas storage field within which the tenants in common or other co-owners of interests described in may serve the documents required upon the person described in the ght, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. ovide the Well Site Safety Plan ("WSSP") to the surface owner and any s provided in section 15 of this rule.
☑ A	Application Notice	WSSP Notice ☐ E		☑ Well Plat Notice is hereby provided to:
	URFACE OWNER(s)	/		COAL OWNER OR LESSEE
	ne: Sarah J. Knabenshue et al			Name: Consolidated Coal Company, et al  Address: 1000 Consol Energy Drive
	ress: RR 2 Box 139		_	Canonsburg, PA 15317-6506
	ster, WV 26034			COAL OPERATOR
Nar	3300000		_	Name:
Auc	dress:			Address:
	URFACE OWNER(s) (	Road and/or Other D	isturbance)	110010001
				☑ SURFACE OWNER OF WATER WELL
Ada	me:		_	AND/OR WATER PURVEYOR(s)
Au	dress:			Name: Ethel Faye Howe
Na	me:			Address: 455 Kull Lane
	dress:			Moundsville, WV 26041
Au	u1033.			☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
	SURFACE OWNER(s)	(Impoundments or Pi	ts)	Name:
_	me:			Address:SEP 1 2 2014
Ad	dress:			SEP 12 2014
/ <b>1</b> U			_	*Please attach additional forms if necessary
-			_	

APINO 7051	0	4	7	6	9	_
OPERATOR WELL	NO	)1	HR			_
Well Pad Name: Cor	nner					

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Noti	ce Time Requirer	ment: notice shall be provi	ded no later than the filing date of permit application.
Date	e of Notice:	Date Permit Applica	tion Filed:
	ce of:		
<b>V</b>	PERMIT FOR A		CATE OF APPROVAL FOR THE RUCTION OF AN IMPOUNDMENT OR PIT
Deli	very method pur	suant to West Virginia C	ode § 22-6A-10(b)
П	PERSONAL	REGISTERED	✓ METHOD OF DELIVERY THAT REQUIRES A
_	SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
certi regis sedin the s oil a desc oper more well impe have prov prop subs reco prov Cod	ficate of approval fatered mail or by an ment control plan resurface of the tract of and gas leasehold be ribed in the erosion ator or lessee, in the ecoal seams; (4) The work, if the surface oundment or pit as a water well, springide water for construction (b) of this series of the sheriff revision of this article e. R. § 35-8-5.7.a. r	for the construction of an imply method of delivery that resequired by section seven of an which the well is or is proving developed by the proposition and sediment control plane event the tract of land on the owners of record of the set tract is to be used for the proposition of the set tract is to be used for the proposition of the section of the set tract is to be used for the proposition of the set tract is to be used for the proposition of the set tract is to be used for the proposition of the set tract is to be used for the proposition of the set tract is to be used for the proposition of the set tract is to be used for the set tract is to be used for the proposition of the set tract is to be used for the set tract is t	an the filing date of the application, the applicant for a permit for any well work or for a poundment or pit as required by this article shall deliver, by personal service or by quires a receipt or signature confirmation, copies of the application, the erosion and this article, and the well plat to each of the following persons: (1) The owners of record of posed to be located; (2) The owners of record of the surface tract or tracts overlying the sed well work, if the surface tract is to be used for roads or other land disturbance as submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, which the well proposed to be drilled is located [sic] is known to be underlain by one or urface tract or tracts overlying the oil and gas leasehold being developed by the proposed bacement, construction, enlargement, alteration, repair, removal or abandonment of any this article; (5) Any surface owner or water purveyor who is known to the applicant to cated within one thousand five hundred feet of the center of the well pad which is used to stic animals; and (6) The operator of any natural gas storage field within which the lift more than three tenants in common or other co-owners of interests described in lands, the applicant may serve the documents required upon the person described in the suant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. rator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any and water testing as provided in section 15 of this rule.
	5.5		&S Plan Notice  Well Plat Notice is hereby provided to:
	URFACE OWNE		☐ COAL OWNER OR LESSEE  Name: Murray Energy Co.
			/
Auc	iress.		St. Clairsville, OH 43950
Nar	ne:		COLL OPER LEGA
Tuc	11033.		Address:
ПS	LIREACE OWNE	R(s) (Road and/or Other D	
_		ri(o) (riouu unu er e une e	- STIPE CE OUD IED OF WATER WELL
Ada	dress:		AND/OR WATER PURVEYOR(s)
riuc			Name: John I Fox et al
Nar			The second secon
			Moundsville, WV 26041
			OPERATOR OF ANY NATURAL GAS STORAGE FIELD
$\Box S$	URFACE OWNE	R(s) (Impoundments or Pit	
_		(-) (	Address:
Add	dress:		SEP 12 2014
			*Please attach additional forms if necessary
_			

API NO. 47-OPERATOR WELL NO. 1HR Well Pad Name: Conner

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: \_\_\_\_\_ Date Permit Application Filed: Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ PERSONAL REGISTERED ✓ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION **SERVICE** MAIL Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: ☐ COAL OWNER OR LESSEE ☐ SURFACE OWNER(s) Name: Name: Address: Address: ☐ COAL OPERATOR Name: Name: Address: Address: ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) SURFACE OWNER OF WATER WELL RECEIVED Name: AND/OR WATER PURVEYOR(s) Address: Name: Gregory E. Howe Address: 607 Kull Lane Name: Moundsville, WV 26041 Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Office of Oil and Gas WV Dept. of Environmental Protection Address: Name: Address: \*Please attach additional forms if necessary

4705101769
API NO. 47-\_\_\_\_OPERATOR WELL NO. 1HR
Well Pad Name: Conner

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Notice Time Requirement: notice shall be provided no later that	n the filing date of permit application.
Date of Notice: Date Permit Application Filed: Notice of:	
☑ PERMIT FOR ANY ☐ CERTIFICATE OF APP	ROVAL FOR THE
	AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-10	(b)
☐ PERSONAL ☐ REGISTERED ☑ METHO	OD OF DELIVERY THAT REQUIRES A
SERVICE MAIL RECEI	PT OR SIGNATURE CONFIRMATION
the surface of the tract on which the well is or is proposed to be located oil and gas leasehold being developed by the proposed well work, if described in the erosion and sediment control plan submitted pursual operator or lessee, in the event the tract of land on which the well proposed well work, if the surface tract is to be used for the placement, constrained work, if the surface tract is to be used for the placement, constrained water well, spring or water supply source located within one provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than thre subsection (b) of this section hold interests in the lands, the applicant records of the sheriff required to be maintained pursuant to section of provision of this article to the contrary, notice to a lien holder is not Code R. § 35-8-5.7.a requires, in part, that the operator shall also p water purveyor or surface owner subject to notice and water testing	the well plat to each of the following persons: (1) The owners of record of ated; (2) The owners of record of the surface tract or tracts overlying the of the surface tract is to be used for roads or other land disturbance as and to subsection (c), section seven of this article; (3) The coal owner, roposed to be drilled is located [sic] is known to be underlain by one or acts overlying the oil and gas leasehold being developed by the proposed function, enlargement, alteration, repair, removal or abandonment of any any surface owner or water purveyor who is known to the applicant to thousand five hundred feet of the center of the well pad which is used to the theorem of any natural gas storage field within which the etenants in common or other co-owners of interests described in the may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. rovide the Well Site Safety Plan ("WSSP") to the surface owner and any as provided in section 15 of this rule.
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice	
□ SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name:Address:	Name:Address:
Name:Address:	COAL OPERATOR  Name:
SURFACE OWNER(s) (Road and/or Other Disturbance)	Address:
Name:	SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s) Name: Janet C. & John R. Hunnell
Nome	Address: 165 Foxview Lane
Name:Address:	Moundsville, WV 26041
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name: Reserved
Name:	Address:
Address:	*D1
	*Please attach additional forms if necessary SEP 1 2 2014

API NO. 47- O S I O 1 7 6 9
OPERATOR WELL NO. 1HR
Well Pad Name: Conner

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Noti	ce Time Requiren	nent: notice shall be provide	led no later tha	n the filing date of permit application.
		_ Date Permit Applicat	ion Filed:	
Noti	ce of:			
<b>V</b>	PERMIT FOR AN			ROVAL FOR THE AN IMPOUNDMENT OR PIT
Deli	very method purs	uant to West Virginia Co	de § 22-6A-10	(b)
	PERSONAL SERVICE	REGISTERED MAIL		OD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION
certi regiss sedin the s soil a desc oper more well impe have prov prop subs reco prov Cod	ficate of approval for stered mail or by any ment control plan re- jurface of the tract of and gas leasehold being ribed in the erosion ator or lessee, in the ecoal seams; (4) The work, if the surface bundment or pit as do a water well, spring ide water for consumptions water ection (b) of this second rision of this article et R. § 35-8-5.7.a re	rethe construction of an impresent that recognized by section seven of the number of the well is or is proposed and sediment control plans are event the tract of land on we expected by the proposed and sediment control plans are event the tract of land on we expected by the proposed and sediment control plans are event the tract of land on we expected in section nine of the expected in section nine of the gor water supply source local and the proposed and the proposed in th	oundment or piquires a receipt on article, and to posed to be located well work, it ubmitted pursua which the well prace tract or tracement, constraints article; (5) A attended within one tic animals; and f more than threads, the applicant uant to section on the holder is not ator shall also p	of the application, the applicant for a permit for any well work or for a t as required by this article shall deliver, by personal service or by or signature confirmation, copies of the application, the erosion and the well plat to each of the following persons: (1) The owners of record of ated; (2) The owners of record of the surface tract or tracts overlying the of the surface tract is to be used for roads or other land disturbance as ant to subsection (c), section seven of this article; (3) The coal owner, proposed to be drilled is located [sic] is known to be underlain by one or acts overlying the oil and gas leasehold being developed by the proposed ruction, enlargement, alteration, repair, removal or abandonment of any any surface owner or water purveyor who is known to the applicant to thousand five hundred feet of the center of the well pad which is used to defend the operator of any natural gas storage field within which the retenants in common or other co-owners of interests described in the many serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any motice to a landowner, unless the lien holder is the landowner. W. Va. provide the Well Site Safety Plan ("WSSP") to the surface owner and any as provided in section 15 of this rule.
$\square$ $A$	Application Notice	☑ WSSP Notice ☑ E&	S Plan Notice	☑ Well Plat Notice is hereby provided to:
	URFACE OWNER	040 P3		☐ COAL OWNER OR LESSEE
Nan	ne:		-	Name:
Add	ress:		_	Address:
Non	20		_	COAL OPERATOR
Ado	lress		-	Name:
riuc			_	Address:
	URFACE OWNER	(s) (Road and/or Other Di	sturbance)	
Nar	ne:		_	☑ SURFACE OWNER OF WATER WELL
Add	lress:		_	AND/OR WATER PURVEYOR(s)
				Name: Clement R. & Nancy L. Shutler Address: 204 Kull Lane
Nar	ne:		-	Address: 204 Kuli Larie  Moundsville, WV 26041
Add	iress:		_	
	URFACE OWNER	(s) (Impoundments or Pits	<u>)</u>	OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name:
Nar	ne:		_	Address:
Add	dress:			*Please attach additional forms if necessary SFP 1 2 2014
				*Please attach additional forms if necessary

API NO. 47-OPERATOR WELL NO. 1HR Well Pad Name: Conner

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Noti	ce Time Requirem	ent: notice shall be provi	ded no later than the filing date of permit application.
Date	e of Notice:	Date Permit Applica	ion Filed:
Noti	ce of:		
<b>√</b>	PERMIT FOR AN	y 🗖 CERTIFI	CATE OF APPROVAL FOR THE
_	WELL WORK		CUCTION OF AN IMPOUNDMENT OR PIT
Deli	very method purs	uant to West Virginia Co	de § 22-6A-10(b)
	PERSONAL	REGISTERED	✓ METHOD OF DELIVERY THAT REQUIRES A
_	SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
sedin the soil a descooper more well important proving properties.	ment control plan re- surface of the tract of and gas leasehold being ribed in the erosion rator or lessee, in the e coal seams; (4) The work, if the surface oundment or pit as do e a water well, spring yide water for consum- osed well work acti- section (b) of this sec- ords of the sheriff re- vision of this article of the R. § 35-8-5.7.a re- er purveyor or surface	quired by section seven of an which the well is or is proposed and sediment control plans are event the tract of land on we event the tract of land on we event is to be used for the plescribed in section nine of g or water supply source loomption by humans or dome wity is to take place. (c)(1) ction hold interests in the laquired to be maintained pur to the contrary, notice to a figure, in part, that the opens of the part of the country is part, that the opens of the part of the country is part, that the opens of the part of the country is part, that the opens of the part of the country is part, that the opens of the part	quires a receipt or signature confirmation, copies of the application, the erosion and his article, and the well plat to each of the following persons: (1) The owners of record of posed to be located; (2) The owners of record of the surface tract or tracts overlying the sed well work, if the surface tract is to be used for roads or other land disturbance as submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, which the well proposed to be drilled is located [sic] is known to be underlain by one or urface tract or tracts overlying the oil and gas leasehold being developed by the proposed lacement, construction, enlargement, alteration, repair, removal or abandonment of any this article; (5) Any surface owner or water purveyor who is known to the applicant to eated within one thousand five hundred feet of the center of the well pad which is used to stic animals; and (6) The operator of any natural gas storage field within which the f more than three tenants in common or other co-owners of interests described in nds, the applicant may serve the documents required upon the person-described in the suant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any ien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. rator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any and water testing as provided in section 15 of this rule.
			S Plan Notice ☑ Well Plat Notice is hereby provided to:  □ COAL OWNER OR LESSEE
	URFACE OWNER		
Nar			
	•		Name:
ПS	URFACE OWNER	R(s) (Road and/or Other D	Address: isturbance)
Nai	me:		☑ SURFACE OWNER OF WATER WELL
Add	dress:		AND/OR WATER PURVETOR(S)
NIo			
Nal	dress:		_
Au	u1688		DOPERATOR OF ANY NATURAL GAS STORAGE FIELD
		R(s) (Impoundments or Pit	S) Italie.
Na	me:		
Ad	dress:		*Please attach additional forms if necessary SEP 1 2 2014

API NO. 47- 05 10 1 7 6 9
OPERATOR WELL NO. 1HR
Well Pad Name: Conner

#### Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

#### This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

### **Well Location Restrictions**

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, pothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require, alteration to address the items

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WW-6A (8-13)

API NO. 47	
OPERATOR WELL NO.	1HR
Well Pad Name: Conner	

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

#### Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

### Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

#### Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

#### **Written Comment:**

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57<sup>th</sup> St. SE
Charleston, WV 25304
(304) 926-0450

Roceived

SEP 1 2 234

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

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OPERATOR WELL NO. 1HR

Well Pad Name: Conner

### Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

### **Comment Requirements**

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

#### **Permit Denial or Condition**

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.



SEP 1 2 2014

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WW-6A (8-13) API NO. 47-\_\_\_OPERATOR WELL NO. 1HR
Well Pad Name: Conner

Notice is hereby given by:

Well Operator: Chevron Appalachia, LLC
Telephone: 724-564-3700
Email:

Address: 800 Mountain View Drive

Smithfield, PA 15478

Facsimile: 724-564-3894

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL THOMAS BASINGER Notary Public CONNELLSVILLE CITY, FAYETTE CNTY My Commission Expires Sep 24, 2017

Subscribed and sworn before me this 4 day of Angust 2014.

Notary Public.

My Commission Expires\_

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WW-6A5 (1/12)

### 47 05101769 Operator Well No. 1HR

### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Req Date of Notice: _	quirement: notice shall be provided no later 108/20/2014 Date Permit Applicate	than the filing d tion Filed:	ate of permit a	pplication.
Delivery method	l pursuant to West Virginia Code § 22-6A-	-16(c)		
CERTIFIEI RETURN I		D IVERY		
return receipt req the planned oper required to be pro drilling of a hori damages to the su	Va. Code § 22-6A-16(c), no later than the duested or hand delivery, give the surface ow ration. The notice required by this subsection by subsection (b), section ten of this a secondal well; and (3) A proposed surface usurface affected by oil and gas operations to the equired by this section shall be given to the section.	mer whose land ion shall include article to a surface and compensate extent the dar	will be used for e: (1) A copy of ce owner whose tion agreement mages are comp	the drilling of a horizontal well notice of of this code section; (2) The information a land will be used in conjunction with the containing an offer of compensation for ensable under article six-b of this chapter.
Notice is hereby (at the address lis Name: Sarah J Knab Address: P.O. Box Chester, WV 26034				
operation on the	y given: t Virginia Code § 22-6A-16(c), notice is here e surface owner's land for the purpose of drill test Virginia	ling a horizontal	well on the trac Easting:	vell operator has developed a planned ct of land as follows: 521310.16
County: Ma	arshall	UTM NAD 83	Northing:	4414548.56
	ay	Public Road A		County Hwy 88/6 (Kull Lane)
_	usinessburg, WV 7.5'	Generally use	d farm name:	Conner
This Notice Sha Pursuant to Wes to be provided horizontal well; surface affected information rela	all Include:  In Virginia Code § 22-6A-16(c), this notice is by W. Va. Code § 22-6A-10(b) to a surfact and (3) A proposed surface use and compent by oil and gas operations to the extent the attent to horizontal drilling may be obtained as ocated at 601 57th Street, SE, Charleston	ce owner whose esation agreement damages are confrom the Secret	land will be untraining an ompensable und ary, at the WV	ased in conjunction with the drilling of a offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection
Well Operator:	Chevron Appalachia, LLC	Address:	800 Mountain View	Drive
Telephone:	724-564-3700	•	Smithfield, PA 1547	8
Email:	kristenbrooks@chevron.com	Facsimile:	724-564-3894	
01 10 0	ing on Mation			

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>. DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

SEP 1 2 2014



### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

### **Division of Highways**

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Earl Ray Tomblin Governor Paul A. Mattox, Jr., P. E. Secretary of Transportation/ Commissioner of Highways

September 8, 2014

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57<sup>th</sup> Street, SE Charleston, WV 25304

Subject: DOH Permit for the Conner A Well Pad, Marshall County

Conner A Unit 1H Conner A Unit 2H Conner A Unit 3H Conner A Unit 4H Conner A Unit 5H Conner A Unit 6H Conner A Unit 7H Conner A Unit 8H

Conner A Unit 9H Conner A Unit 10H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2013-0045 & transferred permit #06-2011-0178 for the subject site to Chevron Appalachia, LLC for access to the State Road for the well site located off of Marshall County Route 88/6 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Day K. Clayter

Gary K. Clayton, P.E. Regional Maintenance Engineer

Central Office Oil &Gas Coordinator

Received

SEP 1 2 2014

Cc: Kristen R. Brooks
Chevron Appalachia, LLC
CH, OM, D-6
File

Office of Oil and Gas
WV Dept. of Environmental Protection



### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

### **Division of Highways**

Earl Ray Tomblin Governor Office of the District Engineer/Manager
District Six
1 DOT Drive \* Moundsville, WV 26041 \* 304-843-4000
February 8, 2013

Paul A. Mattox, Jr., P. E. Secretary of Transportation / Commissioner of Highways

CHEVRON APPALACHIA LLC 800 MOUNTAIN VIEW DRIVE SMITHFIELD, PA 15478

Dear Applicant:				
Your approved	copy of Permit Number	06-2013-0045	for a	DP - Drilling Permit
permit type is en	nclosed. A description of t	the work is on the pe	ermit.	
Please contact the	he District Six of	ffice:		
	Please notify the County	Superintendent, C	Chuck Sheedy,	at 304-843-4056
at least 48 hours i	in advance of the date you pla	an to begin work so ar	angements can	be made to inspect the work authorized
by the permit.				
Failure to com	ply will result in cancella	tion of your permit		
	permit is to be available on Division of Highways' pers		while the work	is in progress for inspection by the
		Sincerely	anny	Sha
			District En	gineer / District Manager
	No		JAN.	Leccused Supervisor
Enclosure: N	lo			Receive

E.E.O./AFFIRMATIVE ACTION EMPLOYER

SEP 1 2 2014

Form MM-109 Rev. 05-19-05	
	PERMIT NO
PERMIT TO ENTER UPON, WEST VIRGINIA, AS PROV ARTICLE 16, CHAPTER 17; S AMENDED.	UNDER, OVER OR ACROSS THE STATE ROADS OF THE STATE OF VIDED FOR IN SECTION 6, ARTICLE 16, CHAPTER 17; SECTION 9, SECTION 8, ARTICLE 4, CHAPTER 17, WEST VIRGINIA CODE, 1931, AS
THIS PERMIT, Made this	05 day of April 30 44
DEPARTMENT OF TRANSPO	ORTATION DIVISION OF HIGHWAYS
Address: 6802 West Snowville	Rd, Suite E. Brecksville, OH 44144
hereinafter called APPLICANT.	1 Horie No. (440) 922-1250
	WITNESSETH
Virginia, 1931, as amended, and apply to enter	inafter set out covenants and in accordance with Section 6, Article 16, Chapter hapter 17; or Section 8, Article 4, Chapter 17, of the Official Code of West d the rules and regulations promulgated thereunder, APPLICANT does hereby
Route Type & No. Count	y Rte 88/6 DOH Project No. (if applicable);
at 0.20 Miles East off of Rt	All Barrier and Indiana Mail Barrier All States
··· <u>Iviars</u> nali	County, for the numbers have a
	to allauned hereto and made a part horse 6 inetall a EO 4 co a
stone driveway approach to C	County Rte 88/6 with a 15" Culvert
A DDI TO A NITI C	
APPLICANT Rither agrees t	to accept the conditions hereinafter set forth:
and inspection costs DIV expense incurred in restor	t with DIVISION the sum of \$ N/A in the form of an official, to or executed bond with surety satisfactory to DIVISION to cover any damage ISION may sustain by reason of the granting of this permit, including any ing said highway to its original condition or the proper repair of any and all ithin one (1) year from the date of the completion of said work.
2. APPLICANT agrees to rein  A. For any inspection  B. At \$	mburse DIVISION for inspection costs as follows:  a costs incurred under this permit.
	DIVISION at least 48 hours in advance of the date the work will begin.  ause for cancellation of this permit.
<ol> <li>APPLICANT agrees to perform accordance with the current Construction and Maintenant</li> </ol>	rotect its employees, equipment and users of the highway at all times in nt Division of Highways manual "Traffic Control For Street and Highway nce Operations".
<ol><li>APPLICANT agrees to con under this permit.</li></ol>	mply with all applicable state and federal laws in the performance of work
<ol><li>Supplementary conditions of hereof.</li></ol>	cited on the reverse side of this permit are understood and agreed to be a part
7. The work authorized under	this permit shall be completed on or before (Date):
Applicant's signature on this permit in Highways Encroachment Permit Form	affirms that all text herein is a verbatim reproduction of The West Virginia Division of m MM-109, revision date May 19, 2005. All attachments are inclusive to this permit.
RECOMMENDED:	A A structure of the permit.
The state of the s	Al Mak II Van True
Title	- IVIA TO THE
	Signature and Talle of Applicant
BOND REQUIREMENT:	APPROVED:
BOND NO. 33BSBFZ0153 Attached 🗵 On File 🗂	DATE 03/22/2011
Bigggorios	Title
Full Time Part Time	West Virginia Divizion of Highways
Periodic Reimbursable	No Cost   SEP   12   14
AUTHORIZATION NO:	ULI 12 . 4

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### 47 OSI 01769

Form MM-109 Rev. 09-07-11

PERMIT NO. <u>06-2013-0045</u>

PERMIT TO ENTER UPON, UNDER, OVER OR ACROSS THE STATE ROADS OF THE STATE OF WEST VIRGINIA, AS PROVIDED FOR IN §§17-16-6, 17-16-9 and 17-4-8, WEST VIRGINIA CODE, 1931, AS AMENDED.
THIS PERMIT, Made this 4th day of February 2013 , between the
WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, a statutory
corporation hereinafter called DIVISION and
Name: CHEVRON APPALACHIA LLC
Address: 800 MOUNTAIN VIEW DRIVE
Address: SMITHFIELD, PA 15478 Phone No: (724) 564-3749
EMail: AKERR@CHEVRON.COM hereinafter called APPLICANT.
WITNESSETH
In consideration of the hereinafter set out covenants and in accordance with §§17-16-6, 17-16-9 or 17-4-8, of the Official Code of West Virginia, 1931, as amended, and the rules and regulations promulgated thereunder, APPLICANT does hereby apply to enter:
Route Type & No.: SLS 88/6 DOH Project No.: (if applicable);
at 0.17 miles east of the intersection with CR 21 Mile Post 0.17
in 26 - Marshall County, for the purposes hereinafter set forth and in accordance with the
plans and specifications which are attached hereto and made a part hereof:
To construct and maintain a 50' wide maximum (temporary) approach which will originate on the right-of-way of
CR 88/6 as shown on the attached sketch and plans. All work must comply with the WVDOT DOH  Specifications. Line # 4 TRAFFIC CONTROL CASE A-6 ATTACHED: NOTE: EB ENTRANCE ONLY - NO
EXIT WB
APPLICANT further agrees to accept the conditions hereinafter set forth:
1. APPLICANT shall deposit with DIVISION the sum of \$
A. For any inspection costs incurred under this permit.
B. At \$ per linear foot for feet of water line installed under this permit.
C. At \$ per linear foot for feet of sewer line installed under this permit.
<ol> <li>APPLICANT shall notify DIVISION at least 48 hours in advance of the date the work will begin. Failure to comply will be cause for cancellation of this permit.</li> </ol>
4. APPLICANT agrees to protect its employees, equipment and users of the highway at all times in accordance with the current Division of Highways manual "Traffic Control For Street and Highway Construction and Maintenance Operations".
<ol><li>APPLICANT agrees to comply with all applicable state and federal laws in the performance of work under this permit.</li></ol>
<ol><li>Supplementary conditions cited on the reverse side of this permit are understood and agreed to be part hereof.</li></ol>
7. The work authorized under this permit shall be completed on or before (Date); February 4, 2014
Applicant's signature on this permit affirms that all text herein is a verbatim reproduction of The West Virginia Division of Highways Encroachment Permit Form MM-109, revision date May 19, 2005. All attachments are inclusive to this permit.  RECOMMENDED:  APPLICANT:
Signature and Title of Applicant
Permit / Utility Supervisor
BOND REQUIREMENT: APPROVED: ACTING DISTRICT ENGINEER
BOND NO: 070010540 DATE: 12/12/2011 District Engineer / District Manager
INSPECTION: Periodic - NoCost  West Virginia Division of Highways
AUTHORIZATION NO.
PERMIT NO. <u>06-2013-0045</u> SEP 1 2 2014

### CHAPTER 17 WEST VIRGINIA CODE, 1931

§ 17-4-8. Use of roadbed by railroad, telephone company, etc.

No railroad or electric or other railway shall be constructed upon the roadbed of any state road, except to cross the same, nor shall any person, firm or corporation enter upon or construct any works in or upon such road, or lay or maintain thereon or thereunder any drainage, sewer or water pipes, gas pipes, electric conduits or other pipes, nor shall any telephone, telegraph or electric line or power pole, or any other structure whatsoever, be erected upon, in or over any portion of a state road, except under such restrictions, conditions and regulations as may be prescribed by the state road commissioner. Whenever any railroad or electric or other railway, heretofore or hereafter constructed, shall cross any state road, it shall be required to keep its own roadbed, and the bed of the road or highway at such crossing, in proper repair, or else to construct and maintain an overhead or undergrade crossing, subject to the approval of the state road commissioner; and the tracks of such railroad or railway at grade crossings shall be so constructed as to give a safe and easy approach to and across the same, and when the construction of such approaches is made necessary by a change in the railroad grade at the grade crossing, the cost shall be upon the railway company.

§ 17-16-6. Permit by commission or county court for openings in or structures on public roads; franchises and easements of oil, etc., transportation companies.

No opening shall be made in any state or county-district road or highway, nor shall any structure be placed therein or thereover, nor shall any structure, which has been so placed, be changed or removed, except in accordance with a permit from the state road commission or county court, as the case may be. No road or highway shall be dug up for laying or placing pipes, sewers, poles or wires, or for other purposes, and no trees shall be planted or removed or obstructions placed thereon, without the written permit of the commission or county court, or its duly authorized agent, and then only in accordance with the regulations of the commission or court. The work shall be done under the supervision and to the satisfaction of the commission or court; and the entire expense of replacing the highway in as good condition as before shall be paid by the persons to whom the permit was given, or by whom the work was done: Provided, however, That nothing herein contained shall be so construed as to prevent any oil or gas company or person having a proper permit or franchise from transporting oil or gasoline along any of the public highways of this State, nor to give such company a franchise without paying to the landowners through whose lands such road passes the usual and customary compensation paid or to be paid to the landowners for such right of way. Any grant or franchise when made shall be construed to give to such company or person only the right to use the easement in such public road.

A violation of any provision of this section shall be a misdemeanor, and the person or corporation violating the same shall, upon conviction thereof, be fined not less than twenty-five nor more than one hundred dollars for each offense.

§17-16-9. Private driveways or approaches to roads; obstruction of ditches.

The owner or tenant of land fronting on any state road shall construct and keep in repair all approaches or driveways to and from the same, under the direction of the state road commission, and, likewise, the owner or tenant of land fronting on any county-district road shall construct and keep in repair approaches or driveways to and from the same, under the direction of the county road engineer, and it shall be unlawful for such owner or tenant to fill up any ditch, or place any material of any kind or character in any ditch, so as in any manner to obstruct or interfere with the purposes for which it was made.

#### SUPPLEMENTARY CONDITIONS

1. The person, firm or corporation to whom a permit is issued agrees to hold the State of West Virginia and DIVISION harmless on account of any damages to persons or property which may arise during the process of the work authorized by this permit or by reason thereof.

2.Applications for permission to perform work within highway rights of way shall be made on DIVISION'S standard permit form and shall be signed by the authorized representative of the person, firm or corporation applying.

3.The APPLICANT shall give detailed information concerning the work to be performed and the application must include a sketch sufficient to show the nature of the work performed.

4.APPLICANT, his agents, successor, heirs or assigns, contractors or any other person, firm or corporation working under APPLICANT'S real or apparent authority, shall perform the work in a manner satisfactory to DIVISION. Damage to the road resulting at any time from work authorized under this permit shall be repaired by APPLICANT. Unsatisfactory repairs may be a corrected by DIVISION or its authorized agent and the cost thereof paid by APPLICANT.

5.DIVISION assumes no liability for damage to the proposed work by reason of construction or maintenance work on the road.

6. This permit is granted subject to removal of the authorized installation by APPLICANT at no cost to DIVISION when required for improvement of the road, and subject to all regulations now or hereafter adopted by DIVISION. 7. Utility installation shall be in accordance with the current manual, "Accommodation of Utilities on Highway Right of Way".

8.Driveways shall be in accordance with the current manual, "Rules and Regulations for Constructing Driveways on State Highway Rights-of-Way."

9.DIVISION reserves the right to cancel this permit at any time, should APPLICANT fail to comply with the terms and conditions under which it is granted.

10. This permit is granted only insofar as the DIVISION has a right to do so.

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### **Addendum to Permit**

This addendum, made this 4th day of	April	2 013	, between the	West Virginia
Department of Transportation, Division of H	ighways, a stat	tutory company	v hereinafter ca	Illed the Division
and Chevron Appalachia LLC	, ,	, == <b>, =</b>	, more marter ea	med the Division
Address: 800 Mountain View Drive, Smithfield, PA 15	178	Phon	ne: <u>72</u> 4	4 564 3822
Hereinafter called APPLICANT.				
The Applicant has filed with the DIVISION a written	application for	the following	named routes	and location:
Leaving WV Alt. 2:				
Lindsay Lane, MCR 88/5, MP 0.00 to 1.77				
Roberts Ridge, MCR 21, MP 19.60 to 18.92				
Kull Lane, MCR 88/6, MP 0.00 to 0.17				
Applicant shall properly repair and maintain any	nd all damages	that may resu	ult to said brid	ges, highways,
shoulders, and ditches from hauling activities of Ap	plicant, its age	ents, contracto	ors and employ	yees, to as good
a condition as when the permit was issued, as deter				
jurisdiction over the work permitted, or pay damag				
bridges, roads, highways, shoulders, and ditches to				
inspection costs incurred by it in connection with sa				
with all terms and conditions of said permits and sa				
Virginia from all losses resulting from the conduct	of said work and	d repairs; ther	this Bond sha	all be released;
or otherwise will remain in full force and effect.				
Bond Amount: \$1,000,000.00				
Bond Number: 070010540 Date: 1/19/1				

SEP 12 214

Office of Oil and Gas WV Dept. or Environmen of Protection

06/30045

### Section VI - Hydraulic Fracturing Fluid Product Component Information Disclosure

	Fracture Date:
wv	State:
Marshall	County:
047-51-XXXXX	API Number:
Chevron	Operator Name:
Conner	Well Pad Name:
39.880292	Longitude:
-80.750853	Latitude:
NAD 83	Long/Lat Projection:
	Production Type:
	True Vertical Depth (TVD):
118,644,000	Total Water Volume (gal)*:

Hydraulic Fracturing Fluid Additives:

CAS NOT ALKOWED

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Comments
Corrosion Inhibitor A264	Schlumberger	Corrosion Inhibitor	Methanol/Aliphatic Acids/Prop-2-yn-1- ol/Aliphatic Alcohols, ethoxylated #1	Mixture	
28% HCl Acid	Schlumberger	Used to open perfs	Hydrochloric Acid	7647-01-0	
Breaker J134	Schlumberger	Gel Breaker	Hemicellulase Enzyme	9012-54-8	
Water Gelling Agent J580	Schlumberger	Water Viscosifier	Carbohydrate Polymer	Proprietary	
Friction Reducer J609	Schlumberger	Friction Reducer	Ammonium Sulfate	7783-20-2	
Iron Stabilizer L58	Schlumberger	Iron Stabilizer	Sodium Erythorbate	6381-77-7	
EC6116A	Nalco	Biocide	Dibromoacetonitrile/2,2-Dibromo-3- nitrilopropionamide/Polyethylene Glycol	Mixture	
EC6486A Scale Inhibitor	Nalco	Scale Inhibitor	Amine Triphosphate/Ethylene Glycol	Mixture	
NALCO EC6673W	Nalco	Iron Control	Ethylene Glycol	107-21-1	
S012-3050	Schlumberger	Proppant	Crystalline Silica	14808-60-7	
S012-4070	Schlumberger	Proppant	Crystalline Silica	14808-60-7	TA SE
				Martin Company	dynas.

<sup>\*</sup> Total Water Volume sources may include fresh water, produced water, and/or recycled water

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS i9s subject to 29 CFR 1910.1200(i) and Appendix D.

Received

SEP 1 2 2014

