

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

February 26, 2014

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-5101704, issued to CHEVRON APPALACHIA, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: BERGER 4H

Farm Name: BERGER, GARY & LINDA

API Well Number: 47-5101704

Permit Type: Horizontal 6A Well

Date Issued: 02/26/2014

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 (USACOE). Through this permit, you are hereby being advised to consult with USACOE 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.

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

1) Well Operator:	Chevro	n Appalac	hia, LLC	49449935	51	Clay	Glen Easton, WV 7.5'
i) wen operator.				Operator ID	County	District	Quadrangle
2) Operator's Well 1	Number:	4H			Well Pad Na	me: Berger	
3 Elevation, current	t ground:	1292	E	Elevation, propose	d post-constru	iction:	1292'
4) Well Type: (a) C	as _	a	Oil	Undergrou	nd Storage		
	Other _						
(b) I		Shallow	- 8	Deep		- 10.21	and
o = 1 .1 p 10 1/		Horizontal		_	D	W (122/14	(1
5) Existing Pad? Ye		YES				W/ / - 1/ - 1/ 1/	
6) Proposed Target MARCELLUS, 6510'-6563	Formation 53' anticipate	n(s), Depth d thickness, ((s), Anticipa Larcellus	ated Thicknesses	and Associate	d Pressuré(s):	
7) Proposed Total V			5,538'				
8) Formation at Tot	al Vertica	l Depth:	MARCELLUS	3			
9) Proposed Total N	Aeasured .	Depth:	13,378				
10) Approximate Fr	resh Wate	r Strata De	pths:	165'			
11) Method to Dete	rmine Fre	sh Water D	Depth:	Local stream base, offset	well data		
12) Approximate Sa	altwater D	epths:	2,565				
13) Approximate C	oal Seam	Depths:	825'				
14) Approximate D			d (coal min	e, karst, other):	None A	nticipated	
15) Does proposed adjacent to an a	well loca	tion containe? If so, inc	coal seam:	s directly overlyin and depth of min	g or e: Ireland	, 825'	
16) Describe propo				to 300' then run and ceme		surface covering the	fresh water.
			9 5/8" casing, cov	rering the Berea. Drill 8 1/2"	hole to KOP at 5,764	4'. Drill 8 1/2" curve an	id lateral to
13,378' MD and 6,538 TV	D. Run 5 1/2"	production casing	and cement back	k to surface. If a void is eno	ountered: (see attach	ment)	
17) Describe fractu Complete, 4 of the Marce							
				25,000#s 40/70, and 300,00	0#s 30/50 sand mesh	es totaling 450,000#s	of sand frac'd at 100 bpm.
Complete, 2 of the Marce	ellus wells utiliz	ing utilizing 75,00	00#s 100 mesh, ar	nd 375,000#s 30/50 sand m	eshes totaling 450,00	0#s of sand frac'd at 1	00 bpm.
18) Total area to be						23.4 ac.	
19) Area to be dist	urbed for		of Oil an		2.2 ac.		Page 1 of 3

20)

CASING AND TUBING PROGRAM

TYPE	Size	New or Used	Grade	Weight per ft.	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill -up (Cu. Ft.)
Conductor	20"	New			40'	40'	CTS
Fresh Water	13-3/8"	New	J-55	54.5#	300'	300'	CTS
Coal							
Intermediate	9-5/8"	New	N-80	40#	2,665'	2,665'	CTS
Production	5-1/2"	New	P-110	20#	13,378'	13,378'	CTS
Tubing							
Liners						18. 11.	100

BEK 1/23/14

ТҮРЕ	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield
Conductor	20"	26"				
Fresh Water	13-3/8"	17-1/2"	0.380"	2,730 psi	Class A	1.18
Coal						
Intermediate	9-5/8"	12-1/4"	0.395"	5,750 psi	Class A	1.29
Production	5-1/2"	8-1/2"	0.361"	12,640 psi	Class A	2.2
Tubing						
Liners						

PACKERS

Kind:	None	
Sizes:		
Depths Set:		

1) 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.
2) Describe all cement additives associated with each cement type.
For the Water String the 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, middle, and tail cement.
The lead will contain class A cement, KCl, dispersant, suspension agent, and retarder.
The middle will contain class A cement, KCI, dispersant, Aluminum Silicate, suspension agent, and retarder.
The tail will contain class A cement, Calcium Carbonate, KCI, dispersant, de-foamer, suspension agent, and friction reducer
3) 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.

^{*}Note: Attach additional sheets as needed.

Cement Additives Berger Unit 1, 2, 4, 5, 6, 8, 9, 10

For the Water String the 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, middle, and tail cement.

The lead will contain class A cement, KCl, dispersant, suspension agent, and retarder.

The middle will contain class A cement, KCl, dispersant, Aluminum Silicate, suspension agent, and retarder.

The tail will contain class A cement, Calcium Carbonate, KCI, dispersant, de-foamer, suspension agent, and friction reducer.

Cement Additives Berger Unit 3, 7

The Water String the blend will contain class A cement, 3% CaCl2, and flake.

The 1st intermediate will contain class A cement, 10% CaCl2, Salt, and flake.

The 2nd intermediate will have lead and tail cement. The lead will contain class G cement, Poz Mix, Latex, Friction reducer, defoamer, suspension agent, and 1% CaCl2. The Tail will contain class G cement and 1/2% CaCl2

The production will have a lead and tail cement. The lead will contain Class A cement, KCl, Fluid loss additive, suspension agent, and retarder. The tail will contain Class G cement, Calcium Carbonate, KCl, Fluid loss additive, Suspension Agent, and Retarder.

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Office of Oil and Gas

OCT 282013

WV Department of
Environmental Protection

WW-6B Attachment Berger 2H, 4H, 5H, 6H, 8H, 9H, 10H $_{_{ m J}}$ / μ

If a void is encountered the contingency will be the following:

- If a void is encountered drill 12-1/4" hole to 100' below bottom of void.
- Run 9-5/8", 36 lb/ft, J-55 casing with cement basket 20' above void.
- Cement casing using displacement method to bottom of void using 100 percent excess.
- Grout from surface to cement basket using whatever volume of cement is necessary to get cement to surface.
- Drill 8-3/4" hole to 2665'.
- Run 7", 23 lb/ft, N-80 casing.
- Cement casing to surface using the displacement method with 30% excess.
- Drill 6-1/4" hole to TD.
- Run 4-1/2" 13.5 lb/ft, P-110 casing to TD.
- Cement to surface using displacement method with 10% excess.

Ocerto			Be	rger 4H				
Marshall Co WV		Cas	sing & C	ementing Deta	ils	Ground Level Elevation: Depth meas, from KB:	1,292' ft above SL 0' ft above GL	
332514	Casing Formation	DEF	TVD	Inclination	HOLE	CASING SPECS	CEMENT INFO	GENERAL INFO
	20" Conductor	40'				Conductor Minimum 40 ft fro	om GL or at least 10 ft in	o bedrock
Bow Spring: 1-shoe jt, 1-every 2nd jt 1 on ea 2-3 jts across previous shoe. Rigid: 2-within 100 ft of surface	Deepest Aquifer	165				Surface String 13-3/8" 54,5# J-55 BTC 0,38" wall Capacity = ,1545bb/rt Annulus = ,1237 bb/rt (+ 6 bb/ for shoe track) Burst = 2730 psi	Cement to Surface	
	13 3/8" Casing	300'			17-1/2"	Minimum 35 ft -	Optimum 50 ft past dee	pest coal
Bow Spring: 1-shoe jt, 1-every 2nd jt 1 on ea 2-3 jts across previous shoe. Double-Bow: 2-within 100 ft of surface	Basket Top Coal Deepest Coal Red Beds	780' 825' 835' 1,185'				Intermediate Casing 9-5/8" 40# N-80 BTC 8.835" ID - 8.679" DD Capacity = 0758 bbt/ft Annulus = .0557 bbt/ft (+ 3.1 bbt for shoe track) Burst = 5750 psi	Cement to Surface	
	Berea 9-5/8" Casing	2,565'			12-1/4"	Collapse = 3090 psi	et below the Berea	
	Burkett Sh. Tully Lm. Hamilton Sh. U. Marcellus Cherry Valley	5,000'	6,409' 6,510' 6,534'	0° 30° 45° 60°		Prod. Casing 5-1/2", 20# P-110, VAM Top Gapacity = 0221 bbl/ft (+1 bbl for shee track) Burst = 12,640 psi Cottapse = 11,080 psi ID = 4,778" Orift = 4,653" Centralization See Drilling Program	Cement to Surface	
	L. Marcellus Landing Point	6,969'	6,536'	80° 90°	1	1 Turbolator per joint for 3 joints above and 3 joints below 9-5/8" shoe 2 double Bow Spring per 1 joint from for Maggilly, to.		
	Basal Marcellus Onondaga		6,558' 6,563'			joint from top Marcellus to KOP • 2 SpiraGlider per joint from shoe to top of Marcellus		
	5-1/2" Casing	13,378	6,538'	90°	5,409' \$-1/2"	RECEIVED		

WW-9 (9/13)

API Number	47 -	51			
Oper	rator's	s Well No	. Berger	4H	

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 4944935
Watershed (HUC 10) Middle Grave Creek- Grave Creek Quadrangle Powhatan, OH-WV 7.5'
Elevation 1287.47 County Marshall District Clay
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
If so, please describe anticipated pit waste: N/A Will a synthetic liner be used in the pit? Yes No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application Underground Injection (UIC Permit Number Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain
Will closed loop system be used? If so, describe: N/A
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. and highly refined mineral will based anad.
-If oil based, what type? Synthetic, petroleum, etc. Highly refined mineral oil based mud
Additives to be used in drilling medium? emulsifiers, wetting egents, organophilic days, barite, calcium chloride (for internal phase of invert) gilsonite
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed offsite
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? Arden Landfill- permit #- PA DEP 100172
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attackments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official Title Company Official Title Company Official Title
Subscribed and sworn before me this 27th day of September 20. 13 COMMONWEALTH OF PENNSYLVANIA
Notary Public Redney Lee Frazee, Notary Public Henry Gay Topol Fayette, County My Commission expires 1 Jan 12, 2016
MEMBER, FENISYLVANIA ASSOCIATION OF NOTARI

Chevron Appala		Prevegetation pH 7
Proposed Revegetation 1 Lime	reatment: Acres Disturbed 21.2 Tons/acre or to correct to pH	
	0-20-20	
Fertilizer amoun	t 1000 lbs/	/acre
Mulch_3	Tons/ac	re
	Seed	Mixtures
	Temporary	Permanent
Seed Type Annual Ryegrass	lbs/acre s Mixture 48.4 lbs/acre	Seed Type Ibs/acre Perennial Ryegrass Mixture 435.6 lbs/acre
A STATE OF THE PARTY OF THE PAR		
		Creeping Red Fescue or Chewings Fescue
Attach: Drawing(s) of road, loca provided)		Kentucky Bluegrass Mixture
Attach: Drawing(s) of road, loca provided)	tion, pit and proposed area for land applayor and proposed area for land applayor and for land applayor area.	
Attach: Drawing(s) of road, loca provided) Photocopied section of in		Kentucky Bluegrass Mixture

CHEVRON APPALACHIA, LLC



West Virginia Well Site Safety Plan

Berger Site Well 4H Marshall County, West Virginia

10/4/2013 10/4/2013

Prepared in Conformance with:

West Virginia's Code §22-6A, and Legislative Rules §35-8-3.4 and §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

Office of Oil and Gas

OCT 2 8 2013

WV Department of Environmental Projection

Original: September 2012

Revised: June 2013



Water Management Plan: Primary Water Sources



WMP-01632

API/ID Number:

047-051-01704

Operator:

Chevron Appalachia, LLC

Berger 4H

Important:

For each proposed primary water source (including source intakes for purchased water sources) identified in your water management plan, and summarized herein, DEP has made an evaluation concerning water availability over the specified date range. DEP's assessment is based on the following considerations:

- ·Statistical analysis of historical USGS stream gauge data (transferred to un-gauged locations as necessary);
- ·Identification of sensitive aquatic life (endangered species, mussels, etc.);
- Quantification of known existing demands on the water supply (Large Quantity Users);
- . Minimum flows required by the Army Corps of Engineers; and
- · Designated stream uses.

Based on these factors, DEP has provided, for each intake location (and origination point for purchased water), a reference gauge location and discharge flow reading which must be surpassed prior to withdrawals. Additionally, DEP has established a minimum passby flow at the withdrawal location which must also be surpassed prior to withdrawals. These thresholds are considered terms of the permit and are enforceable as such.

DEP is aware that some intake points will be used for mutiple wells and well sites. In these cases, the thresholds set by the Water Management Plan are to be interepreted as total withdrawal limits for each location over the specified date range regardless of how many wells are supported by that intake.

For all purchased water intakes, determinations of water availability are made at the original source intake location. It is the responsibility of the Oil and Gas Operator, not the seller, to cease withdrawal of water from the seller when flows are less than the minimum gauge reading at the stream gauge referenced by the Water Management Plan in order to protect stream uses.

Note that the determinations made herein are based on the best available data, but it is impossible to predict water availability in the future. While the DEP has carefully established these minimum withdrawal thresholds, it remains the operator's responsibility to protect aquatic life at all times. Approval to withdrawal is contingent upon permission from the land owner. It is the responsibility of the operator to secure and maintain permission prior to any withdrawals.

The operator is reminded that 24-48 hours prior to withdrawing (or purchasing) water, DEP must be notified by email at DEP.water.use@wv.gov.

APPROVED DEC 0 9 2013 -

01704

Source Summary

WMP-01632

API Number:

047-051-01704

Operator:

Chevron Appalachia, LLC

Berger 4H

Stream/River

Source

Grave Creek @ Cochran-Pearson Withdrawal Site

Marshall

Owner:

Diana Lynn Cochran

Start Date

End Date

Total Volume (gal)

Max. daily purchase (gal)

Intake Latitude: Intake Longitude:

4/25/2014

39.905103

-80.757019

4/25/2015

8,000,000

9999999

Ohio River Station: Willow Island Lock & Dam

Max. Pump rate (gpm):

Regulated Stream?

1,200

Ohio River Min. Flow

Min. Gauge Reading (cfs):

Ref. Gauge ID:

6,468.00

Min. Passby (cfs)

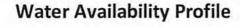
DEP Comments:

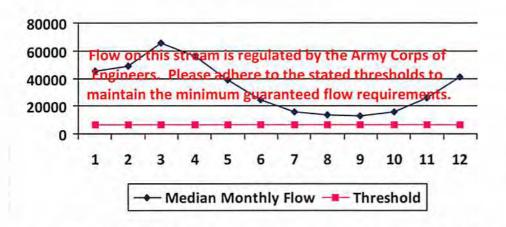
Refer to the specified sation on the National Weather Service's Ohio River forecasts at

the following website: http://www.erh.noaa.gov/ohrfc//flows.shtml

WMP-01	632	API/ID Number:	047-051-01704	Operator: Chevron Ap	palachia, LLC
		Ber	ger 4H		
ource ID: 30445 Source	ce Name Grave	Creek @ Cochran-Pe	arson Withdrawal Site	Source Latitude: 39	905103
	Diana	Lynn Cochran		Source Longitude: -80	.757019
HUC-8 Code: Drainage Area (so Endangered Species? Trout Stream? ✓ Regulated Stream? Proximate PSD? ✓ Gauged Stream?	5030106 q. mi.): 2500 Mussel St Tier 3? Ohio River N	ream?	Marshall Ani	cipated withdrawal start date: ticipated withdrawal end date: otal Volume from Source (gal): Max. Pump rate (gpm): Max. Simultaneo	
Reference Gaug	9999999	Ohio River Station: N	Willow Island Lock & D		96
Drainage Area (sq.)	mi.) 25,00	00.00		Gauge Threshold (cfs):	6468

Month	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)
1	45,700.00		
2	49,200.00		-
3	65,700.00	141	
4	56,100.00	-	-
5	38,700.00	-	-
6	24,300.00		ä
7	16,000.00	-	- 4
8	13,400.00	+	-
9	12,800.00	-	Q.
10	15,500.00		-
11	26,300.00		
12	41,300.00	à	3





Water Availability Assessment of Location

Upstream Demand (cfs):	0.00
Downstream Demand (cfs):	0.00
Pump rate (cfs):	2.67
Headwater Safety (cfs):	0.00
Ungauged Stream Safety (cfs):	0.00

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

west virginia department of environmental protection



Water Management Plan: Secondary Water Sources



WMP-01632

API/ID Number

047-051-01704

Operator

Chevron Appalachia, LLC

Berger 4H

Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Purchased Water

Source ID: 30446 Source Name

Southwestern Pennsylvania Water Authority

Source start date:

4/25/2014

Public Water Provider

Source end date:

4/25/2015

Source Lat:

Source Long:

County

Max. Daily Purchase (gal)

100,000

Total Volume from Source (gal):

8,000,000

DEP Comments:

Please ensure that purchases from this provider are in accordance with the terms

established by PADEP in WMP-279986-5.

Berger 4H

Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- •For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Source ID: 30447 Source Name North Fayette Water Authority - Oliverio Source start date: 4/25/2014

Public Water Provider Source end date: 4/25/2015

Source Lat: Source Long: County

Max. Daily Purchase (gal) 100,000 Total Volume from Source (gal): 8,000,000

DEP Comments: Please ensure that purchases from this provider are in accordance with the terms

established by PADEP in WMP-279986-5.

Source ID: 30448 Source Name North Fayette Water Authority - Mt. Braddock Source start date: 4/25/2014 Public Water Provider Source end date: 4/25/2015

Source Lat: Source Long: County

Max. Daily Purchase (gal) 100,000 Total Volume from Source (gal): 8,000,000

DEP Comments: Please ensure that purchases from this provider are in accordance with the terms

established by PADEP in WMP-279986-5.

