

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 16, 2014

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-10302949, issued to STONE ENERGY CORPORATION, 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: CONLEY 9H

Farm Name: CONLEY, RONALD GENE

API Well Number: 47-10302949

Permit Type: Horizontal 6A Well

Date Issued: 01/16/2014

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. Failure to adhere to the specified permit 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 fill material shall be within plus or minus 2% of the optimum moisture content as determined by the standard proctor density test, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort. Each lift must meet 95% compaction of the optimum density based on results from the standard proctor density test of the actual soils used in specific engineered fill sites. 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.

WW-6B (9/13)

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

		WELL V	ORIGITE	Idvii i i i i i i i i i i i i i i i i i i	103	5	55牛
1) Well Operat	tor: Stone	Energy Cor	poration	494490923	Wetzel	Green	Porter's Falls
x				Operator ID	County	District	Quadrangle
2) Operator's V	Well Number	r:Co	nley #9H	Well Pa	d Name:	Co	onley
3) Farm Name	/Surface Ow	ner: Conley	, Ronald (Gene Public Roa	nd Access:	WV	Route 7
4) Elevation, c	urrent groun	d: 960)' Ele	evation, proposed	post-construc	tion:	955'
5) Well Type	(a) Gas Other		Oil	Und	erground Stora	age	
	(b)If Gas	Shallow		Deep			
		Horizontal					DAH
6) Existing Pag	d: Yes or No		No		5/		10-2-13
	-			pated Thickness a /D (-5,652' SL) , 50'			
8) Proposed To	otal Vertical	Depth: 6,50	0' TVD @ 1	TD			
9) Formation a	t Total Verti	cal Depth:	Marcellus S	hale			
10) Proposed 7	Γotal Measur	ed Depth:	13,000' MD	@ TD			
11) Proposed I	Horizontal Le	eg Length:	5,690' from	LP and 7,171' fro	m KOP		
12) Approxima	ate Fresh Wa	ter Strata Dej	pths:	Shallowest @ 75' a	and Deepest @	728'	
13) Method to 14) Approxima			epths: <u>D</u> ,700'	epth of bit when wat	er shows in the f	lowline or wher	n drilling soap is inject
15) Approxima	ate Coal Sear	n Depths: _7	23'				
16) Approxima	ate Depth to	Possible Void	d (coal mir	ne, karst, other):	None Anticipate	ed	
17) Does Propo directly overly	ing or adjace	ent to an activ	e mine?	Yes	Reč	°e lv ed	Ì
(a) If Yes, pro	ovide Mine I		-				
		Depth:	-		UET	7	
		Seam:			Office of	Oil and Gas	
		Owner	":		WV Dept of Fru		ntlos.

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	20"	New	LS	94.0	80'	80'	77 - CTS
Fresh Water	13.375"	New	J55	54.5	840'	840'	833 - CTS
Coal	13.375"	New	J55	54.5	840'	840'	833 - CTS
Intermediate	9.625"	New	J55	36.0	2,200'	2,200'	529 Lead - 405 Tail CTS
Production	5.5"	New	P110	20.0		13,000'	1,000 Lead - 2,285 Tail TOC @ 1,200*
Tubing	2.375"	New	J55	4.7		6,100'	N/A
Liners	N/A						

Note: The Fresh Water/Coal casing will be set just above Sea Level. At no time will the casing be set below Sea Level. Setting depth is due to sloughing formation below the Pittsburgh Coal Seam.

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.375"	N/A	Type 1	1.18
Fresh Water	13.375"	17.5"	0.380"	2,730 psi	Class A	1.19
Coal	13.375"	17.5"	0.380"	2,730 psi	Class A	1.19
Intermediate	9.625"	12.25"	0.352"	3,520 psi	Class A	1.26 Lead - 1.19 Tail
Production	5.5"	8.75"	0.361	12,360 psi	Class A	1.25 Lead - 1.19 Tail
Tubing	2.375"	N/A	0.190"	7,700 psi	N/A	N/A
Liners						

PMH 102-17

PACKERS

Kind:	N/A	
Sizes:		D
Depths Set:		Heceived

Office of Oil and Gas WV Dept. of Environmental Protection WW-6B (9/13)

19	Describe p	proposed	well wo	rk.	includ	ling the	drilling	and 1	plugging	back of	any p	ilot l	nole:
	, 20001100	or oboper	***********	,				,			J F		

MIRU conductor rig and set 20" conductor into solid rock cementing back to surface. Typically the setting depth is 80'. RDMO conductor rig and MIRU top-hole rig. Drill and set 13.375" fresh water/coal casing cementing back to surface. Drill and set 9.625" intermediate casing cementing back to surface. Drill 8-3/4" production hole to just above KOP. This section will be drilled using a slant in order to maintain and reduce anti-collision concerns. Run gyro and displace with KCI fluid back to surface. RDMO top-hole rig and MIRU horizontal rig. Displace KCI fluid out of well bore with salt saturated drilling fluid. Drill to KOP and then drill curve to landing point. Continue drilling horizontal section of well bore to TD. Condition well bore at TD, TOOH, and run 5.5" production casing to TD. Cement production casing to 1000' inside of the 9.625" casing string. RDMO horizontal rig after installing night cap on top of well head.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

MIRU coil tubing unit or service rig and clean out well bore to PBTD. Run CBL to approximately 30-60 degrees in curve back to surface. Toe prep horizontal for fracturing. RDMO coil tubing unit or service rig. MIRU stimulation equipment. Begin stimulation on first stage. Anticipated maximum treating pressure is 9000 psi. Anticipated maximum pump rate is between 85 and 90 bmp of slick-water with sand. Frac plugs will be pumped down during night-time operations. The number of stages to be pumped will be determined once the well is drilled and log information is reviewed. All other stages will pumped as described above. Once well is fraced the coil tubing unit or service rig (with snubbing unit) will be moved back on site and the frac plugs will be drilled out and the well bore will be cleaned up. Flow back time for the well will be dependent upon fluid return and gas production. All gas will be flared until the well is capable of production.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres):	12.0
22) Area to be disturbed for well pad only, less access road (acres):	4.5
23) Describe centralizer placement for each casing string:	
Fresh Water/Coal string will use bow spring centralizers w/ one just above guide shoe and t Intermediate string will use bow spring centralizers w/ one just above the guide shoe, one just then on every 3rd it, to surface. One straight vane rigid centralizer will be placed as close as	ust above the float collar and

Intermediate string will use bow spring centralizers w/ one just above the guide shoe, one just above the float collar and then on every 3rd jt. to surface. One straight vane rigid centralizer will be placed as close as practical to the surface. Production string will use alternating left/right rigid centralizers on every 4th jt. from TD to 500' above KOP and on every 3rd jt. from 500' above KOP to top of slant. Bow spring centralizers every 3rd jt. will be used from this point to top of cement.

24) Describe all cement additives associated with each cement type:

Dr. H

Fresh Water/Coal cement is typically Class A w/ 0.25 pps Cello-Flake and 1.0% to 3.0% CaCl2. Intermediate cement is a lead/tail blend with the lead being Class A w/ 10% Salt and 0.25 pps Cello-Flake. Tail is Class A w/ 0.25 pps Cello-flake and 1.0% to 3.0% CaCl2. Production cement is a lead/tail blend with the lead being HES's GASSTOP blend w/ 0.8% Retarder and tail being HES's HALCEM blend w/ 0.65% Retarder and 0.1% Dispersant or SLB with lead/tail with the lead being Class A w/ 10% Salt or Class A w/ FlexSeal and the tail being Class A w/ 0.2% Dispersant, 0.4% Fluid Loss, 0.2% Anti-Foam, 0.15% Retarder, and 0.2% Anti-Settling Agent.

25) Proposed borehole conditioning procedures:

Fresh Water/Coal section will be done by circulating air through the drill string at TD between 30 and 90 minutes or until the well bore clears of cuttings.

Intermediate section will be done by circulating air and/or stiff foam through the drill string at TD between 30 and 120 minutes or until the well bore clears of cuttings.

Production section will be done by circulating drilling fluid through the drill string at TD between 120 to 720 minutes (a minimum of 3 bottoms up) until the shakers are clear of cuttings.

*Note: Attach additional sheets as needed.

WW-9 (9/13)

API Number 47 -	103	-	
Operator's	Well No	o.	Conley #9H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name		Stone Energy Corporation	on	OP Code	494490923	_
Watershed (HUC 10)_	Lit	tle Fishing Creek	Quadrangle	Po	orter's Falls	
Elevation	955'	County	Wetzel	District	Green	_
Do you anticipate using Will a pit be used? Y		000 bbls of water to co	omplete the proposed	well work? Yes_	No _	
		d in the pit? Yes	No 🗸 If	so, what ml.?		- Da H
Proposed Disp	osal Method	For Treated Pit Wastes	:			10-2-
	Reuse (at Off Site D	and Injection (UIC Pe	ow Back will be collected and WW-9 for disposal lo	used for other stimulations cation)	s, wells not permitted yet	_)
Will closed loop system	n be used? If	so, describe: Both the To	p-Hole Rig and Horizonta	Rig will incorporate the	e use of a closed loop system	em
Drilling medium antici						
		nthetic, petroleum, etc				
Additives to be used in				V-9 Addendum		
Drill cuttings disposal					of in an approved landfill	
		idify what medium wil				
		rmit number?		and the second s		
on August 1, 2005, by provisions of the perm law or regulation can le	the Office of C it are enforced ead to enforced r penalty of I all attachmen ion, I believe g false informa	able by law. Violation ment action. aw that I have person its thereto and that, be that the information	at Virginia Department is of any term or contain ally examined and a based on my inquiry is true, accurate, and	t of Environmental dition of the genera m familiar with the of those individual d complete. I am	Protection. I understart all permit and/or other a e information submitte als immediately respo	nd that the applicable ed on this nsible for
Company Official (Ty			Timothy P. I	McGregor		
Company Official Title			Land Coordina	itor	1	=
Subscribed and sworn I	pefore me this	day o	f Octobu	WV Dego of	of Oil and Gas Avironmental Protection OFFICIAL SEAL NOTARY PUBLISTATE OF WEST VIE	LIC
My commission expire	5/18/20	01			DANIELLE L SNO RR2 Box 248A, Fairmont, My Commission Expires M	WV 26554

Operator's Well No. Conley #9H Form WW-9 **Stone Energy Corporation** 12.0 Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH 6.5 Tons/acre or to correct to pH _____ 10-20-20 or Equivalent Fertilizer type _ 500 - 750 lbs/acre Fertilizer amount 0.50 to 0.75 + Straw Tons/acre **Seed Mixtures Temporary** Permanent lbs/acre Seed Type lbs/acre Seed Type 100.0 Marcellus Mix 100.0 Marcellus Mix White or Ladino Clover 10.0 White or Ladino Clover 10.0 **Orchard Grass** 40.0 40.0 **Orchard Grass** 50.0 Winter Rye 50.0 Winter Rye 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: Title: Dil + Gas Tagactor Date: /0-2-17 WV Dept. of Environmental Protection Field Reviewed?



WW-9 ADDENDUM

Drilling Medium Anticipated for This well

- Vertical section of well bore, down to KOP, will be drilled on air and/or a combination of air and drilling soap.
- From KOP through the curve section and horizontal section of well bore will be drilled on a brine-water based mud system.

Additives to be Used While Drilling

- Common additives when air drilling: KCl (CAS No. 1302-78-9 & 14808-60-7), soda ash (CAS No. 497-19-8), shale stabilizer (CAS No 67-48-1 & 7732-1835), drilling soap (CAS No. 111-76-2), air hammer/motor lubricant.
- Common water based additives for mud drilling: NaCl (CAS No. 7647-14-5), KCl (CAS No. 7447-40-7), barite (CAS No. 13462-86-7 & 14808-60-7), starch (CAS No. 9005-25-8), PAC (CAS No. 9004-32-4), xanthum gum (CAS No. 11138-66-2), PHPA (CAS No. 64742-47-8), polysaccharide (CAS No. 11138-66-2), sulfonated asphaltic material (CAS No. 269-212-0 & 238-878-4), aluminum silicate (CAS No. 37287-16-4), gilsonite (CAS No. 12002-43-6), graphite (CAS No.14808-60-7 & 7782-42-5), shale stabilizer (CAS No. 67-48-1 & 7732-18-5), fluid loss control polymers (CAS No. 9004-34-6), viscosity control polymers (CAS No. 11138-66-2 & 107-22-2), soda ash (CAS No. 497-19-8), sodium bicarbonate (CAS No. 144-55-8), NaOH (CAS No. 1310-73-2, 7647-14-5, & 7732-18-5), lime (CAS No. 1305-62-0), gypsum (CAS No.778-18-9), citric acid (CAS No. 77-92-9), biocide (CAS No. 52-51-7 or 7732-18-5 + 67-56-1 + 141-43-5), CaCO₃ (CAS No. 471-34-1), cellulose fibers (CAS No. 14808-60-7), nut plug (CAS No. 9004-34-6 & 14808-60-7), cross-linking polymers (CAS No. 107-22-2 & 1138-66-2), other LCMs, surfactants (CAS No. 64-17-5), ROP enhancer/lubricant (CAS No. 8002-13-9), beads, corrosion inhibitor (CAS No. 7732-18-5), aluminum stearate (CAS No. 300-92-5), defoamer (CAS No. 246-771-9).

MSDS are available upon request.

7mH 10-2-17

Received



WW-9 ADDENDUM

Drill Cuttings Disposal Method

Closed loop drilling system will be incorporated. No waste pits will be constructed. All
drill cuttings are put through a drier system and hauled to and disposed of at approved
and permitted landfills.

Landfills or Offsite Names and Permit Numbers

Wetzel County Sanitary Landfill Rt. 1, Box 156A New Martinsville, WV 26155 SWF-1021 / WV01909185 Brooke County Sanitary Landfill Colliers, WV 26035 SWF-1013 / WV0109029

DW17

Received

Office of Oil and Gas

WW Dept. of Environmental Protection

Well: Conley #9H State: West Virginia

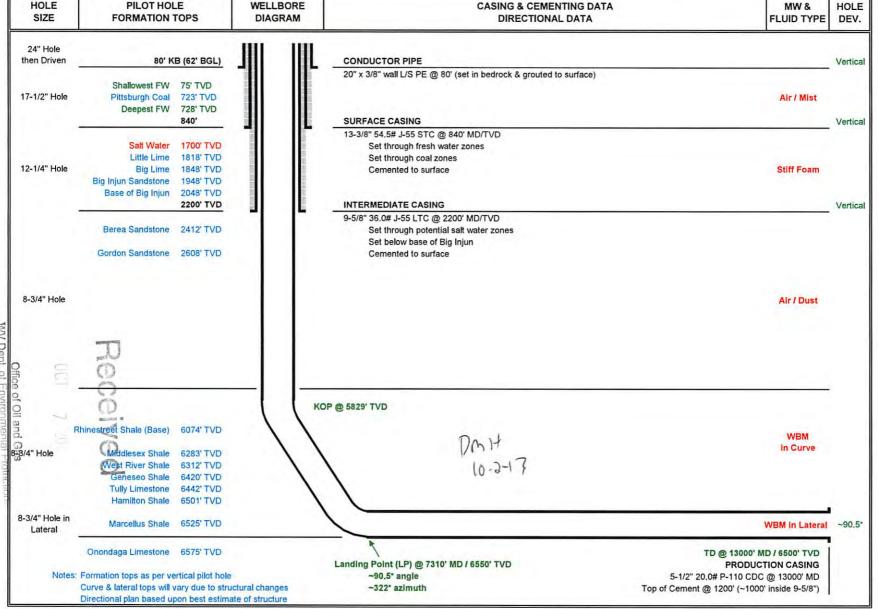
STONE ENERGY - PROPOSED HORIZONTAL

Permit Number: 47-103-

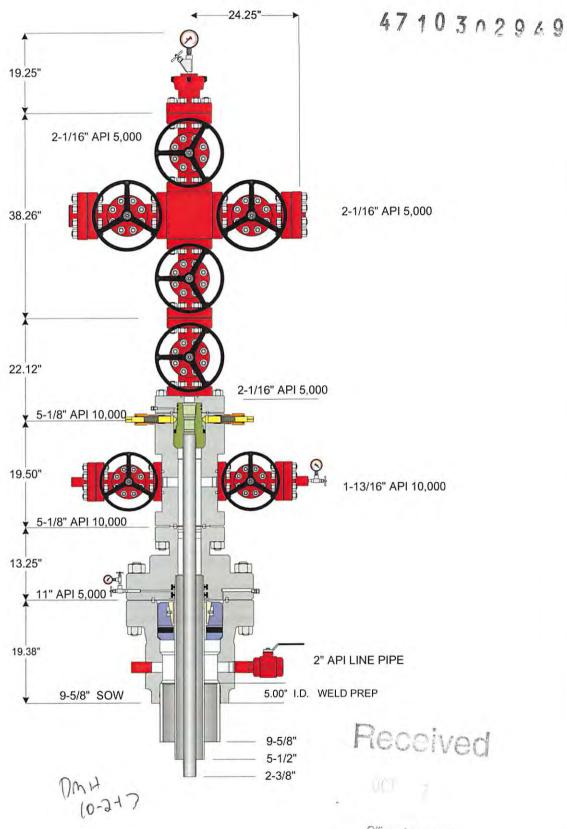
Permit Issued:

Post Construction Ground Elevation: 855'

County: Wetzel Revision: 30-Sept-13 District: Magolia Kelly Bushing: 18' Prospect: Mary Rig: Location: Surface: North = 4,384,125 East = 518,153 (UTM NAD 83) Spud Date: North = 4,385,918 East = 517,401 (UTM NAD 83) TD Date: PTD: 13000' MD / 6500' TVD Rig Release Date: HOLE PILOT HOLE WELLBORE **CASING & CEMENTING DATA** MW & SIZE **FORMATION TOPS** DIAGRAM **DIRECTIONAL DATA**



NOTE: THIS DRAWING IS NOT TO SCALE. THE DIMENSIONS REFLECTED ON THE DRAWING ARE ESTIMATED MEASUREMENTS AND FOR REFERENCE ONLY.





Office of Oil and Gas WV Dept. of Environmental Protection

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Customer: STONE ENERGY	Project: 46705	Quote: 99565 v 3
Tender, Project or Well: 2011- 2012 CONVENTIONAL MARCELLUS	Date: 07-17-2011	Dr. 0.1 61:7×2014

west virginia department of environmental protection



Water Management Plan: Primary Water Sources



WMP-01616

API/ID Number:

047-103-02949

Operator:

Stone Energy Corporation

Conley #9H

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 4 2013

Source Summary

WMP-01616

API Number:

047-103-02949

Operator:

Stone Energy Corporation

Conley #9H

Stream/River

Source

Ohio River @ The Spielers Club

Wetzel

Owner:

The Spielers Club

Start Date

End Date

Total Volume (gal)

Max. daily purchase (gal)

Intake Latitude:

Intake Longitude:

7/1/2014

7/1/2015

6,300,000

39.709677

-80.826384

✓ Regulated Stream?

Ohio River Min. Flow Ref. Gauge ID: 999999

Ohio River Station: Willow Island Lock & Dam

Max. Pump rate (gpm):

833

Min. Gauge Reading (cfs):

6,468.00

Min. Passby (cfs)

DEP Comments:

Refer to the specified station on the National Weather Service's Ohio River forecast

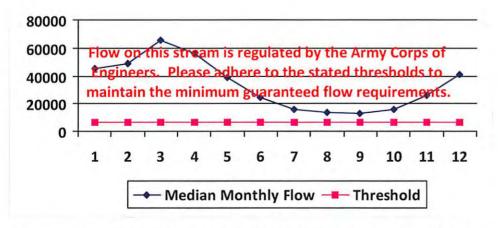
website: http://www.erh.noaa.gov/ohrfc//flows.shtml

Source Detail

WMP-01616	API/ID Number:	047-103-02949	Operator: Stone	Energy Corporation
	Con	ley #9H		
Source ID: 30405 Source Name	Ohio River @ The Spielers C	Club	Source Latitud	e: 39.709677
	The Spielers Club		Source Longitud	e: -80.826384
☐ Trout Stream? ☐ Tie ✓ Regulated Stream? Ohio I ✓ Proximate PSD? Grand		Wetzel		ate: 7/1/2015 gal): 6,300,000 om): 833 ultaneous Trucks: 0
✓ Gauged Stream?			Max. Truck	pump rate (gpm) 0
Reference Gaug 99999	99 Ohio River Station: \	Willow Island Lock &	Dam	
Drainage Area (sq. mi.)	25,000.00		Gauge Threshold	(cfs): 6468

Month	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)
1	45,700.00		-
2	49,200.00		14.
3	65,700.00		150
4	56,100.00	4	-
5	38,700.00		-
6	24,300.00		
7	16,000.00		
8	13,400.00		
9	12,800.00		- 1
10	15,500.00		-
11	26,300.00	17	4
12	41,300.00	14	-





Water Availability Assessment of Location

Upstream Demand (cfs):	0.00
Downstream Demand (cfs):	0.00
Pump rate (cfs):	1.86
Headwater Safety (cfs):	0.00
Ungauged Stream Safety (cfs):	0.00
Min. Gauge Reading (cfs):	
Passby at Location (cfs):	

"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-01616

API/ID Number

047-103-02949

Operator:

Stone Energy Corporation

Conley #9H

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.

Multi-site impoundment

Source ID: 30406 Source Name

Pribble Centralized Freshwater Impoundment

Source start date:

7/1/2014

Source end date:

7/1/2015

Source Lat:

39.685144

Source Long:

-80.820002

County

Wetzel

Max. Daily Purchase (gal)

Total Volume from Source (gal):

6,300,000

DEP Comments:

The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise noted.

Reference: WMP-277

Conley #9H

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.

Tuttle Centralized Freshwater Impoundment Source ID: 30407 Source Name

Source start date:

7/1/2014

Source end date:

7/1/2015

Source Lat: 39.586528 Source Long:

-80.779889

County

Wetzel

Max. Daily Purchase (gal)

Total Volume from Source (gal):

6,300,000

DEP Comments:

The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise noted.

Reference: WMP-588

Source ID: 30408 Source Name

Conley Centralized Freshwater Impoundment

Source start date:

7/1/2014

Source end date:

7/1/2015

Source Lat:

39.608922

Source Long:

-80.79156

County

Wetzel

Max. Daily Purchase (gal)

Total Volume from Source (gal):

6,300,000

DEP Comments:

The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise noted.

Reference: WMP-589

WMP-01616 API/ID Number 047-103-02949 Operator: Stone Energy Corporation

Conley #9H

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.

Recycled Frac Water

Source ID: 30409 Source Name Various Source start date: 7/1/2014

Source end date: 7/1/2015

Source Lat: Source Long: County

Max. Daily Purchase (gal)

Total Volume from Source (gal): 6,300,000

DEP Comments:

Stone Energy Corporation Page 1 of 1 Form W-9 Conley #9H 4710302949 CONLEY #9H Laure Fishing Pride of Green DMH 10-2-17

HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147 PH: (304)354-7035 E-MAIL: hupp@frontiernet.net

1" = 1000'Porters Falls 7.5'

Stone Energy Corp.
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Lafeffeed Pland Gas 70508
www.pept. of Environmental Protection 17/2014

