

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

July 30, 2013

WELL WORK PERMIT

Rework/Horizontal 6A Well

This permit, API Well Number: 47-10302568, 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 tree to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: MASON CONLON UNIT 1 WELL Farm Name: GREATHOUSE, JAMES ARNOLD

API Well Number: 47-10302568

Permit Type: Rework/Horizontal 6A Well

Date Issued: 07/30/2013

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 conditions may result in enforcement action.</u>

CONDITIONS

- 1. 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.
- 2. 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% (unless soil test results show a greater range of moisture content is appropriate and 95% compaction can still be achieved) 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.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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

		WE	LL WORK PE	RMIT APPLICA	rion 103	1	681
1) Well Operator:	STONE	ENERGY C	ORPORATION	494490923	Wetzel	Proctor	Wileyville
i) wen operator.				Operator ID	County	District	Quadrangle
2) Operator's Well	Number	: MAS	ON-CONLON	UNIT 1 #1H V	Vell Pad Nar	ne: MASON-CONL	ON UNIT 1
3 Elevation, curre	nt ground	d:	1,202' Ele	vation, proposed	post-constru	etion:	1.202'
4) Well Type: (a)	Gas		Oil	Underground	d Storage		
	Other	STIMULATI	ION			. 1	
(b)	If Gas:	Shallow		Deep			
		Horizonta	1			DAH	
5) Existing Pad? Y	es or No	:	YES			17-13 DVH	
Proposed Target Proposed target				ed Thicknesses an 54' (-5,752' Sea Le			proximate
rock pressure will 7) Proposed Total			and 4,400 psig 6,954'	1			
8) Formation at To	tal Verti	cal Depth:	Marcellus Sh	nale			
9) Proposed Total	Measure	d Depth:	10,216'				
10) Approximate F	resh Wa	ter Strata D	epths: St	nallowest @ 52'			
11) Method to Det	ermine F	resh Water	Depth: SI	now at flowline or w	hen drilling so	pap is used	
12) Approximate S	Saltwater	Depths:	1,452'				
13) Approximate C	Coal Sear	n Depths:	600' AND 7	10'			
14) Approximate I	Depth to	Possible Vo	id (coal mine, l	carst, other):	NONE	REPORTED	
15) Does proposed adjacent to an a				irectly overlying o	or NO		
16) Describe propo		work:	STIMULATE THE	EXISTING WELL BOP	RE. The well wa	s drilled prior to H	B401's passage
17) Describe fractu				ately 30 degrees in the curv	e to surface. Perfo	rate 10 individual stag	es in the lateral section
of the well bore and stim	ulate each in	dividual set of per	forations using slick wat	er and sand. MIRU service	rig and flow well b	ack. Clean out well b	oreland run production
tubing. Test well flow.	See the att	ached frac chem	ical addendum for add	ditives used during the sti	mulation.	Of	lice of one
18) Total area to be	e disturb	ed, includin	g roads, stockp	ile area, pits, etc,	(acres):	EXISTI	NG - 5 ACRES
19) Area to be dist	urbed for	well pad o	nly, less access	road (acres):		EXISTING - 4	ACRES
***************************************		****					Page 1 of 3

WW - 6B (3/13)

20)

CASING AND TUBING PROGRAM

ТҮРЕ	Size	New or Used	Grade	Weight per ft.	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill -up (Cu. Ft.)
Conductor	20"	New	LS	94.0	35'	35'	Existing - see WR-35
Fresh Water	13.375"	New	J55	68.0	1,135'	1,135'	Existing - CTS
Coal	13.375"	New	J55	68.0	1,135'	1,135'	Existing - CTS
Intermediate	9.625"	New	J55	36.0	2,561'	2,561'	Existing - CTS
Production	5.5"	New	P110	20.0		10,175'	Existing - TOC @ 402'
Tubing	2.375"	New	J55	4.7		6,400'	N/A
Liners							

PMH 6-17-13

ТҮРЕ	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield
Conductor	20"	24"	0.375"	N/A	Type 1	1.18
Fresh Water	13.375"	17.5"	0.480"	3,450 psi	Type 1	1.26
Coal	13.375"	17.5"	0.480"	3,450 psi	Type 1	1.26
Intermediate	9.625"	12.25"	0.352"	3,520 psi	Type 1	1.35
Production	5.5"	8.75"	0.361"	12,360 psi	HalCEM	1.20
Tubing	2.375"	N/A	0.190"	7,700 psi	N/A	N/A
Liners	N/A					

PACKERS

Kind:	N/A		
Sizes:			Received Office of Oil & Gas
Depths Set:			Omov

21) Describe centralizer placement for each casing string.
spring centralizers with one (1) being placed above the guide shoe and then every second joint to surface for a total
of 16 centralizers.
-Intermediate string will incorporate bow spring centralizers with one (1) above the guide shoe, one (1) above float
collar, and one (1) every third joint to surface for a total of 24 centralizers.
-Production string will incorporate alternating left and right hand spiral centralizers with one (1) every fourth joint to
500' above KOP. A total of 32 rigid spiral centralizers will be used
22) Describe all cement additives associated with each cement type.
-Fresh Water/Coal string used a slurry of Type 1cement with 0.25 pps Cello Flake and 1.0% CaCl2
-Intermediate string used a slurry of Type 1 cement with 2.0% CaCl2 and 0.25 pps Cello-Flake
- Production string used a slurry of HalCEM cement
23) Proposed borehole conditioning procedures.
-Fresh Water/Coal section will be conditioned by circulating air down the down the drill string at TD for 30 to 90
minutes or until the well bore clears of cuttings.
- Intermediate section will conditioned by circulating air and/or stiff foam through the drill string at TD for 30 to 120
minutes until well bore clears of cuttings.
-Production section will be conditioned by circulating drilling fluid through the drill string at TD for 120 to 720 minutes
until cuttings shakers clear of cuttings.
*Note: Attach additional sheets as needed.
*Note: Attach additional sheets as needed. [Ph 17] 6-17-17
6-11-13

Received Office of Oil & Gas Mason-Conlon Unit 1 #1H West Virginia

PBTD: 10,106' MD / 6,956' TVD

N = 4,386,319 E = 523,464 UTM NAD83 (Meters)

BHL: N = 4,387,345 E = 523,186 UTM NAD83 (Meters)

Wetzel

Proctor

Mary

Surface:

PROPOSED HORIZONTAL

Revision: 05/31/13

Permit Number: 47-103-02568

Permit Issued: 6/9/2010

Kelly Bushing: 18'

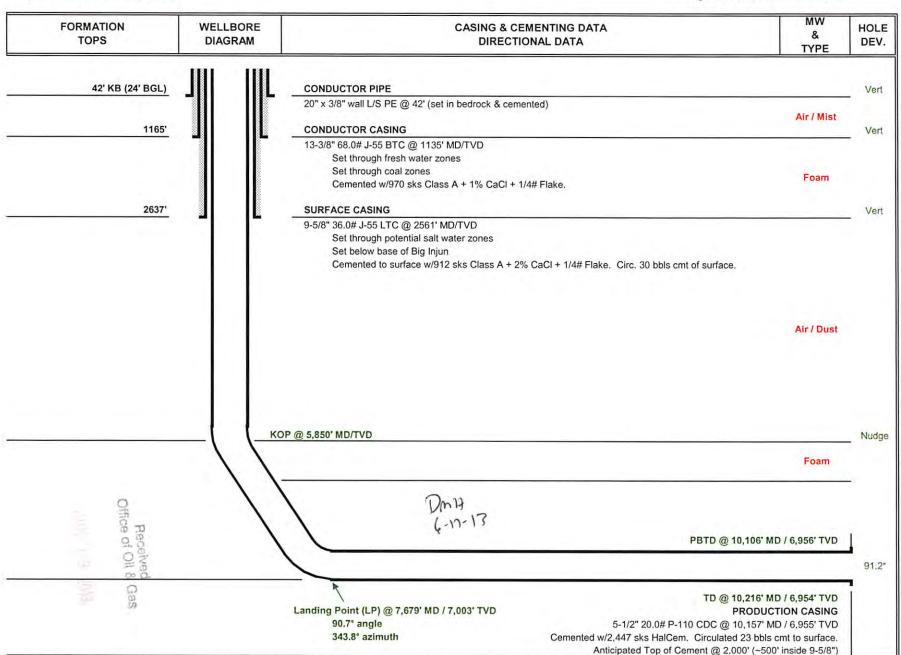
Post Construction Ground Elevation:

Rig: Saxon Rig 141
Spud Date: 6/30/2010 (Top Hole)

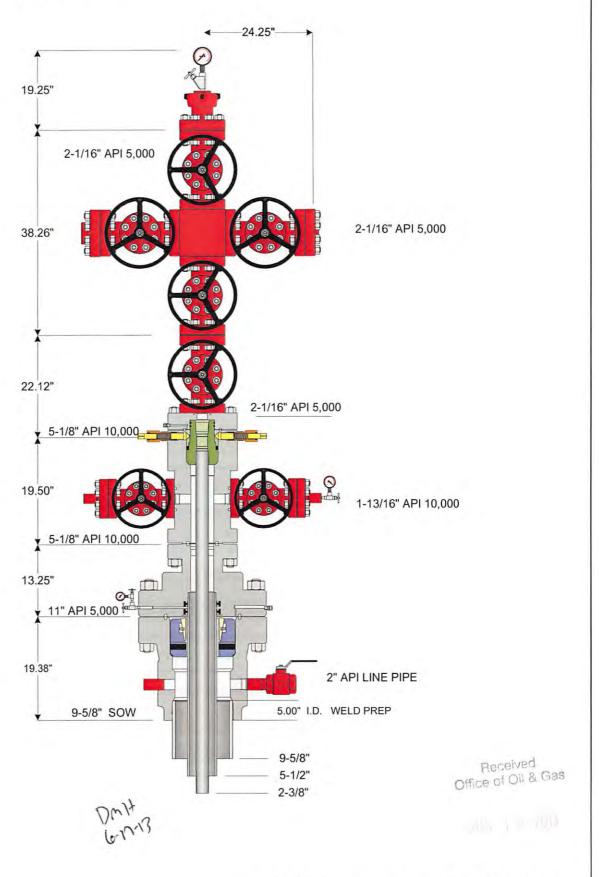
TD Date: 10/2/2010 (Horizontal)

1202"

Rig Release Date: 10/5/2010



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





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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	DA& 492 1/2 013

	Pa	ige	of	
API Number 47 -	103	-		
Operator's	Well No.	MASON-	CONLON UNIT 1 #	#1H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name	STONE	ENERGY COR	RPORATION	OP Code	494490923
Watershed (HUC I	0) Pine Run	of Little Fishing	Creek Quadrangle		Wileyville
Elevation	1,202'	County	Wetzel	District	Proctor
Do you anticipate u Will a pit be used f If so, pleas Will a syn Proposed	ising more than 5 for drill cuttings? se describe anticipathetic liner be use Disposal Method Land App Undergro Reuse (at Off Site D Other (E: estem be used?	No Yes No yet ed in the pit? Yes For Treated Pit Wast dication and Injection (UIC API Number Flow B Disposal (Supply for Explain Soth the Top-Hole Rigwell? Air, freshwater No Yes Source No Yes	No I les: Permit Number Hunte ack will be collected and u m WW-9 for disposal lo g and Horizontal Rig will er, oil based, etcTop-Ho	well work? Yes N/A f so, what ml.? er Disposal 2D0859721, sed for other stimulate ocation) I incorporate the usele on air and/or drilling	N/A 34-121-24037, 34-121-24086) ions, wells not permitted yet)
			tc		
Additives to be use	d in drilling medi	um?	See W\	N-9 Addendum	
			noved offsite, etc. All co vill be used? (cement, I		ed of in an approved landfill N/A
-Landfill o	or offsite name/pe	rmit number?	Wetzel County San	itary Landfill (SWF-	-1021/WV109185)
on August 1, 2005, provisions of the po- law or regulation ca I certify u application form a obtaining the infor	by the Office of ermit are enforce an lead to enforce under penalty of and all attachmer mation, I believe tting false inform	Oil and Gas of the Wable by law. Violati ment action. law that I have persuits thereto and that, at that the information	est Virginia Departmer ons of any term or cor onally examined and a based on my inquiry	nt of Environmenta addition of the gene am familiar with t of those individud d complete. I am	ER POLLUTION PERMIT issue I Protection. I understand that the ral permit and/or other applicable the information submitted on the rals immediately responsible for aware that there are significant receives Office of Oliverine Personnel III.
Company Official	(Typed Name)_	Timothy P. McGregor			
Company Official		Land Coordinator			
Subscribed and swo	8 ×	day	of June	Notan-Pi	manning

Operator's Well No	MASON-CONLON UNIT	1 #1H

			ATION	
Proposed Revegetation Treat	ment: Acres Disturbed	15.90	_ Prevegetation pH	
Lime2.0	Tons/acre or to correct to	_{рН} 6.5		
Fertilizer (10-20-20	or equivalent) 500-750	lbs/acre (500 lbs mi	nimum)	
	0 0 75 + Strow	ons/acre	······,	
Mulch				
		Seed Mixtures		
Are Seed Type	ea I lbs/acre		Area Seed Type	lls/acre
Marcellus Mix	100.0	Ma	arcellus Mix	100.0
White or Ladino Clover	10.0	White	or Ladino Clover	10.0
Orchard Grass	40.0	Ore	chard Grass	40.0
Winter Rye	50.0	v	Vinter Rye	50.0
Plan Approved by:	, _	12 11 11 11 11		
· · · · · · · · · · · · · · · · · · ·	4			
Comments:				
Title: O; 1 + G < r			1717	Office of C



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.

OW17-13

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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

DM1+ 6-17-13





west virginia department of environmental protection



Water Management Plan: Primary Water Sources



WMP-01368

API/ID Number:

047-103-02568

Operator:

Stone Energy Corporation

Mason-Conlon Unit 1 - #1H

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 JUL 2 5 2013

Source Summary

WMP-01368 API Number: 047-103-02568 Operator:

Stone Energy Corporation

Mason-Conlon Unit 1 - #1H

Stream/River

Little Fishing Creek WP 2 (Mason-Conlon) Source

Wetzel

Owner:

Charles & Cecelia Ruth

Howell

Start Date 8/1/2013

End Date 8/1/2014

Total Volume (gal)

Max. daily purchase (gal)

Intake Latitude: Intake Longitude:

1,000,000

39.62207

-80.721053

Regulated Stream?

Ref. Gauge ID:

3114500

MIDDLE ISLAND CREEK AT LITTLE, WV

Max. Pump rate (gpm):

400

Min. Gauge Reading (cfs):

68.39

Min. Passby (cfs)

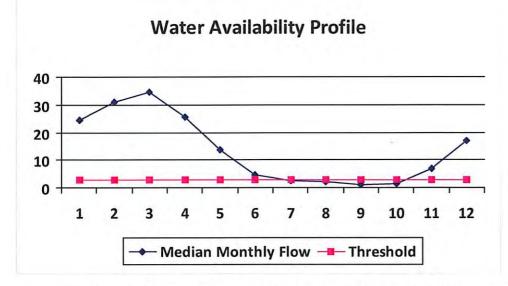
3.38

DEP Comments:

Source Detail



<u>Month</u>	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)
1	24.55	4.26	20.73
2	30.88	4.26	27.06
3	34.55	4.26	30.74
4	25.66	4.26	21.84
5	13.53	4.26	9.72
6	4.73	4.26	0.91
7	2.67	4.26	-1.14
8	2.20	4.26	-1.61
9	1.13	4.26	-2.69
10	1.42	4.26	-2.40
11	6.92	4.26	3.10
12	16.91	4.26	13.09



Min. Gauge Reading (cfs): Passby at Location (cfs):	68.39 3.37
Ungauged Stream Safety (cfs):	0.56
Headwater Safety (cfs):	0.56
Pump rate (cfs):	0.89
Downstream Demand (cfs):	0.00
Upstream Demand (cfs):	0.00
Base Threshold (cfs):	2.25

"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-01368

API/ID Number

047-103-02568

Operator:

Stone Energy Corporation

Mason-Conlon Unit 1 - #1H

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: 21567 Source Name

Mason-Conlon Freshwater Impoundment

Source start date:

8/1/2013

Source end date:

8/1/2014

Source Lat:

39.629511

Source Long:

-80.728594

County

Wetzel

Max. Daily Purchase (gal)

Total Volume from Source (gal):

3,400,000

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-634

Mason-Conlon Unit 1 - #1H

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: 21568 Source Name Tuttle Fresh Water Impoundment Source start date: 8/1/2013
Source end date: 8/1/2014

Source Lat: 39.586528 Source Long: -80.779889 County Wetzel

Max. Daily Purchase (gal)

Total Volume from Source (gal): 1,200,000

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: 21569 Source Name Conley Fresh Water Impoundment Source start date: 8/1/2013
Source end date: 8/1/2014

Source Lat: 39.608922 Source Long: -80.79156 County Wetzel

Max. Daily Purchase (gal)

Total Volume from Source (gal): 1,200,000

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-01368 API/ID Number 047-103-02568 Operator: Stone Energy Corporation

Mason-Conlon Unit 1 - #1H

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:	21570	Source Name	Various		Source start date:	8/1/2013
				Source Long:	Source end date:	8/1/2014
		Source Lat:			County	
	Max. Daily Purchase (gal)				Total Volume from Source (gal):	100,000
	DEP Co	omments:				

STONE ENERGY CORP. Form W-9 Page 1 of 1 MASON-CONLON UNIT 1 #1H WATER Rid (D) 01 20 5 Mason-Conlon Unit 1 #1H 40 Fishing 000

HUPP Surveying & Mapping

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

1" = 1000' Wileyville Quad

Dait

Stone Energy Corporation P.O. Box 52807 Lafayette, LA 7050 70508

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