

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

December 10, 2013

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-10302962, 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: TRACY 4H

Farm Name: MARY J. TRACY LIVING TRUST

API Well Number: 47-10302962

Permit Type: Horizontal 6A Well

Date Issued: 12/10/2013

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</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 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.

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

<u>WE</u>	ELL WORK PE	RMIT APPLICAT	103	6	554
1) Well Operator: Stone Energy	Corporation	494490923	Wetzel	Magnolia	Porters Falls
		Operator ID	County	District	Quadrangle
2) Operator's Well Number:	Tracy #4H	Well Pad	Name:	Т	racy
3) Farm Name/Surface Owner: Tra	cy, Mary J. Living Tru	st, et al Public Roa	d Access:	Wetzel C	ounty Route 5
4) Elevation, current ground:	1,108' Ele	vation, proposed j	post-construction	on:	1,101
5) Well Type (a) Gas	Oil	Unde	erground Storag	ge	
Other	. <u> </u>				
(b)If Gas Shallo	w <u> </u>	Deep			
Horizo					Dut
6) Existing Pad: Yes or No	No				10-2-17
7) Proposed Target Formation(s), I Target Formation is the Marcellus S	-				
8) Proposed Total Vertical Depth:	6,900' TVD @ 1	ſD			
9) Formation at Total Vertical Dep	th: Marcellus S	hale			
10) Proposed Total Measured Dept	th: 13,250' MD	@ TD			
11) Proposed Horizontal Leg Leng	th: 5,854' from	LP and 7,123' from	m KOP		
12) Approximate Fresh Water Stra	ta Depths:	Shallowest @ 50' a	nd Deepest @ 9	09'	·
13) Method to Determine Fresh Wa	ater Depths: D	epth of bit when water	er shows in the flo	wline or wher	n drilling soap is injected
14) Approximate Saltwater Depths	: 1,556'				
15) Approximate Coal Seam Depth	ns: 904'				
16) Approximate Depth to Possible	e Void (coal min	ne, karst, other):	None Anticipated	l	
17) Does Proposed well location codirectly overlying or adjacent to an		ns Yes	No	√	
(a) If Yes, provide Mine Info:	Name:				
I	Depth:			ooi.	od -
S	Seam:			eceiv	cu
(Owner:			CI 7	<i></i>

18)

CASING AND TUBING PROGRAM

TYPE	Size	New or Used	<u>Grade</u>	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	1,095'	1,095'	1,059 - CTS
Coal	13.375"	New	J55	54.5	1,095'	1,095'	1,059 - CTS
Intermediate	9.625"	New	J55	36.0	2,430'	2,430'	617 Lead - 393 Tail CTS
Production	5.5"	New	P110	20.0		13,250'	1,025 Lead - 2,272 Tail TOC @ 1,430'
Tubing	2.375"	New	J55	4.7		6,300'	N/A
Liners	N/A	1					

Note: The Fresh Water/Coal casing is to be set just above Sea Level. In no instance will the casing be set below Sea Level. This 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						

DA4 10-2-13

PACKERS

Kind:	N/A	
Sizes:		
Depths Set:		Received

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

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 KCl fluid back to surface. RDMO top-hole rig and MIRU horizontal rig. Displace KCl 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): _	14.9
22) Area to be disturbed for well pad only, less access road (acres):	11.7
23) Describe centralizer placement for each casing string:	
Fresh Water/Coal string will use bow spring centralizers w/ one just above guide shoe and Intermediate string will use bow spring centralizers w/ one just above the guide shoe, one then on every 3rd jt. to surface. One straight vane rigid centralizer will be placed as close a Production string will use alternating left/right rigid centralizers on every 4th jt. from TD to 5 jt. from 500' above KOP to top of slant. Bow spring centralizers every 3rd jt. will be used from 500' above KOP to top of slant.	just above the float collar and as practical to the surface. 500' above KOP and on every 3rd
	D= 14

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

77-2-17

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.

Office of Oil and Gas
WV Dept. of Environmental Protection

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

API Number 47 -	103	02	9	6	2
Operator's	Well No.	Tracy #4H			

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name	Stone Energy Corporation		OP Code	494490923	_
Watershed (HUC 10)	Little Fishing Creek	Quadrangle _	Р	orters Falls	_
Elevation1,10	1 County	Wetzel	District	Magnolia	
Do you anticipate using mor Will a pit be used? Yes _	re than 5,000 bbls of water to cor	mplete the proposed w	rell work? Yes_	No	
	pe anticipated pit waste:	. 7	0 (0000)		-
	er be used in the pit? Yes Method For Treated Pit Wastes:		so, what ml.?		Day
L R R	and Application Underground Injection (UIC Per Leuse (at API Number Flow Port Site Disposal (Supply form V	mit Number2 w Back will be collected and u	sed for other stimulation ation)	24037, 34-121-24086 ns, wells not permitted yet	
Will closed loop system be	used? If so, describe: Both the Top	-Hole Rig and Horizontal F	Rig will incorporate th	ne use of a closed loop syst	tem
	I for this well (vertical and horizo				
	type? Synthetic, petroleum, etc.				_
Additives to be used in drill	ing medium?	See WW-	9 Addendum		
	od? Leave in pit, landfill, remov			ed of in an approved landfill	
	an to solidify what medium will				
	name/permit number?				
on August 1, 2005, by the Corprovisions of the permit are law or regulation can lead to I certify under perapplication form and all a obtaining the information.	erstand and agree to the terms and office of Oil and Gas of the West to enforceable by law. Violations to enforcement action. In alty of law that I have personal attachments thereto and that, but I believe that the information is the information, including the possession.	Virginia Department s of any term or cond ally examined and an ased on my inquiry is true, accurate, and	of Environmental ition of the gener of familiar with the of those individual complete. I am	Protection. I understar ral permit and/or other ne information submittants immediately response	and that the applicable applicable applicable applicable for applicable for applicable for applicable applicab
Company Official Signature		1 m/cy	w	ner -	
Company Official (Typed I	7	Timothy P. M	1cGregor		
Company Official Title		Land Coordinat		Office of Oil and Gas ept. of Environmental Pro	otection
Subscribed and sworn before My commission expires_	te me this 30 th day of sanduly	Syptember	, 20	OFFICIAL SEAL Ablic NOTARY PUBL STATE OF WEST VIR DANIELLE L SNOTARE Box 248A, Fairmont, My Commission Expires M.	LIC GINIA 2/2/13/20 WV 26554

Form WW-9				Operator's Wel	Tracy #4
	Stone	Energy (Corporati	<u>-</u>	1110
Proposed Revegetation Treati			6.5		
Lime Fertilizer type	Tons/acre or to corr 10-20-20 or Equivalent			<u></u>	
Fertilizer amount	500 - 750	lbs/a	сге		
Mulch 0.50	to 0.75 + Straw	Tons/acre	e		
		Seed M	<u> Iixtures</u>		
Te	mporary			Permane	ent
Seed Type Marcellus Mix	lbs/acre 100.0		M	Seed Type arcellus Mix	100.0
White or Ladino Cl	over 10.0		White	or Ladino Clove	r 10.0
Orchard Grass	40.0		Or	chard Grass	40.0
Winter Rye	50.0			Winter Rye	50.0
Drawing(s) of road, location, provided) Photocopied section of involve the provided section of involve the provided by: Comments:	ved 7.5' topographic shee	et.			
				grands promo	leceived
Title: Dil + Court	I no chis		Date: /	0-2-17	
Field Reviewed?	Yes Yes) No		Office of Oil and Gas pt. of Environmental Protect



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 & 11138-66-2), 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.

Received

Office of Oil and Gas WV Dept. of Environmental Protection



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

DMH 10-2-17

Received

OCT 7

Office of Oil and Gas
WV Dept. of Environmental Protection

west virginia department of environmental protection



Water Management Plan: Primary Water Sources



WMP-01599

API/ID Number:

047-103-02962

Operator:

Stone Energy Corporation

Tracy #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 NOV 2 1 2013

Source Summary

WMP-01599

API Number:

047-103-02962

Operator:

Stone Energy Corporation

Tracy #4H

Stream/River

Ohio River @ The Spielers Club Source

Wetzel

Owner:

The Spielers Club

Start Date

End Date

Total Volume (gal) Max. daily purchase (gal)

Intake Latitude: Intake Longitude:

8/1/2014

8/1/2015

6,600,000

39.709677

-80.826384

✓ Regulated Stream?

Ohio River Min. Flow Ref. Gauge ID:

9999999

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

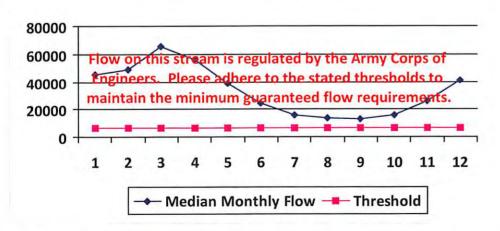
WMP-01599 API/ID Number: 047-103-02962 Operator: Stone Energy Corporation Tracv #4H Ohio River @ The Spielers Club Source ID: 30185 Source Name Source Latitude: 39.709677 The Spielers Club Source Longitude: -80.826384 HUC-8 Code: 5030201 Anticipated withdrawal start date: 8/1/2014 Drainage Area (sq. mi.): 25000 Wetzel County: 8/1/2015 Anticipated withdrawal end date: **Endangered Species?** ✓ Mussel Stream? Total Volume from Source (gal): 6,600,000 Trout Stream? ☐ Tier 3? Max. Pump rate (gpm): 833 Regulated Stream? Ohio River Min. Flow Max. Simultaneous Trucks: Proximate PSD? Grandview-Doolin PSD Max. Truck pump rate (gpm) 0 Gauged Stream? Ohio River Station: Willow Island Lock & Dam 9999999 Reference Gaug

Month	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)
1	45,700.00		-
2	49,200.00		4
3	65,700.00	6	
4	56,100.00	-	*.
5	38,700.00	-	2.
6	24,300.00	1.6.1	7
7	16,000.00	(F	
8	13,400.00	~	4
9	12,800.00	-	-
10	15,500.00	4.1	-
11	26,300.00		7
12	41,300.00	4	(4)



25,000.00

Drainage Area (sq. mi.)



Water Availability Assessment of Location

Gauge Threshold (cfs):

6468

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

[&]quot;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-01599

API/ID Number

047-103-02962

Operator:

Stone Energy Corporation

Tracy #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.

Multi-site impoundment

Source ID: 30186 Source Name Pribble Centralized Freshwater Impoundment

Source start date:

8/1/2014

Source end date:

8/1/2015

Source Lat:

39.685144

Source Long: -80.820002

County

Wetzel

Max. Daily Purchase (gal)

Total Volume from Source (gal):

6,600,000

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

Tracy #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: 30187 Source Name Tuttle Centralized Freshwater Impoundment Source start date: 8/1/2014

Source end date: 8/1/2015

Source Lat: 39.586528 Source Long: -80.779889 County Wetzel

Max. Daily Purchase (gal)

Total Volume from Source (gal): 6,600,000

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: 30188 Source Name Conley Centralized Freshwater Impoundment Source start date: 8/1/2014
Source end date: 8/1/2015

39.608922 Source Long: -80.79156 County Wetzel

Max. Daily Purchase (gal) Total Volume from Source (gal): 6,600,000

DEP Comments:

Source Lat:

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- 01599 API/ID Number 047-103-02962 Operator: Stone Energy Corporation

Tracy #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.

Recycled Frac Water

Source ID: 30189 Source Name Various Source start date: 8/1/2014

Source end date: 8/1/2015

Source Lat: Source Long: County

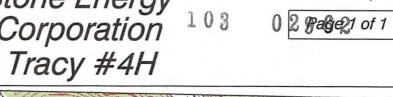
Max. Daily Purchase (gal)

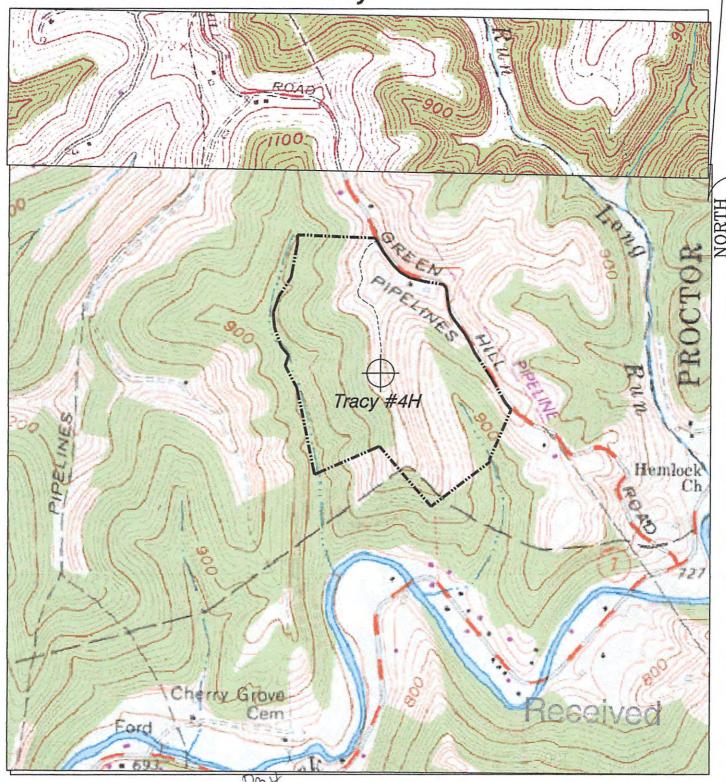
Total Volume from Source (gal): 6,600,000

DEP Comments:

Form W-9

Stone Energy Corporation Tracy #4H





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'

10-2-17

Stone Energy Corp. ection P.O. Box 52807 Lafayette, LA 70508

