

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 21, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-5101847, 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

Operator's Well No: 4H

Farm Name: HUNTER, DENNIS W.

API Well Number: 47-5101847

Permit Type: Horizontal 6A Well

Date Issued: 07/21/2015

Promoting a healthy environment.

PERMIT CONDITIONS 4705101847

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 (USACE), Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.



May 1, 2015

Ashley LeMasters & Laura Adkins West Virginia Department of Environmental Protection Office of Oil & Gas 601 57th Street SE Charleston, West Virginia 25304

RE: Proposed Hunter/Pethtel 4H, & 9H Marshall Co.

Well work permit applications.

These are additional permits for the existing Hunter/Pethtel unit in Marshall County.

Dear Laura and Ashley:

Please find enclosed two new Marcellus well permits for our existing Hunter/Pethtel unit. The Hunter/Pethtel pad site is an existing pad site having 2 current permit API wells starting with #47-5101330. (Farm Name: Hunter, Dennis W.)

If you require any additional information, do not hesitate to contact me.

Thank you for your assistance.

Best Regards,

Tim McGregor **Land Coordinator**

Stone Energy Corporation

(304) 225-1788

mcgregortp@stoneenergy.com

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WV Department of Environmental Protection WW-6B (04/15) AECENED Gos
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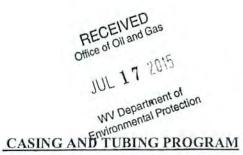
STATE OF WEST VIRGINIA

API NO. 47	
OPERATOR WELL NO.	#4H
Well Pad Name:	Hunter-Pethel

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

1) Well Operator	r: Stone Ene	ergy Corporation	494490923	Marshall	Meade	Glen Easton
-			Operator ID	County	District	Quadrangle
2) Operator's W	ell Number:	#4H	Well Pac	d Name:	Hunte	er-Pethel
3) Farm Name/S	Surface Owner:	Hunter, Dennis	W. Public Roa	d Access:	Marshall C	ounty Route 74
4) Elevation, cur	rent ground:	755' Ele	evation, proposed	post-construct	ion:	755'
5) Well Type	(a) Gas	X Oil	Unde	- erground Stora	nge	
,	Other			Ū		
((b)If Gas Sh	allow X	Deep			
	Но	rizontal X				
6) Existing Pad:	Yes or No	Yes but being	expanded	_		
7) Proposed Targ	get Formation(s), Depth(s), Antici	pated Thickness a	and Expected F	Pressure(s):	
	Marcellus Shale	@ 6,147' TVD (5,3	92' SSL). Thicknes	ss = 55'. RP =	4,000 to 4.40	00 psig.
8) Proposed Tota	al Vertical Dep	th:		6,250' TVD		
9) Formation at	Total Vertical I	Depth:		Marcellus Sh	nale	
10) Proposed To	tal Measured [Depth:		11,640' MI	D	
11) Proposed Ho	orizontal Leg L	ength:	From LP =	4,891' From	KOP = 6,1	60'
12) Approximate	e Fresh Water S	Strata Depths:		142', 270',	423' & 700'	· · · · · · · · · · · · · · · · · · ·
13) Method to D	etermine Fresh	Water Depths: V	Vhen having to so	ap wellbore o	r show of flui	id at end of flow line
14) Approximate	e Saltwater Dep	oths:		1,155'		
15) Approximate	e Coal Seam De	epths:	- <u> </u>	318' and 41	8'	
16) Approximate	e Depth to Poss	ible Void (coal mi	ne, karst, other):		None Antici	pated
•		n contain coal sean o an active mine?	ns Yes	X No	o	
(a) If Yes, prov	ride Mine Info:	Name:	Con	solidation Co	al Company	/
•		Depth:				
		Seam:				6
		Owner:				
						AVAINS

WW-6B (04/15)



API NO. 47- 051 -OPERATOR WELL NO. _ Well Pad Name: Hunter-Pethel

18)

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20.0	New	LS	94.1 ppf	80'	80'	65 - CTS
Fresh Water	13.375	New	J55	54.5 ppf	750'	750'	732 - CTS
Coal	13.375	New	J55	54.5 ppf	750'	750'	732 - CTS
Intermediate	9.625	New	J55	36.0 ppf	1,905'	1,905	Lead-484 Tail-315 - CTS
Production	5.5	New	P110	20.0 ppf		11,640'	2,928 - CT 1,405'
Tubing	2.375	New	J55	4.7		6,200'	N/A
Liners				1,2			

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

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20.0	24.0	0.375	N/A	N/A	Type 1	1.18
Fresh Water	13.375	17.5	0.380	2,730	2,184	Class "A"	1.24
Coal	13.375	17.5	0.380	2,730	2,184	Class "A"	1.24
Intermediate	9.625	12.25	0.352	3,520	2,816	Lead/Tail Class "A"	Lead-1.24 Tail-1.21
Production	5.5	8.75	0.361	12,360	9,888	VariCem	1.21
Tubing	2.375	N/A	0.190	7,700	6,160	N/A	N/A
Liners							

PACKERS

Kind:		
Sizes:		
Depths Set:		



WW-6B
(10/14)

Office of Oil and Gas

API NO. 47- 051 -OPERATOR WELL NO. Well Pad Name: Hunter-Pethel

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Proposed well to include the use of a conductor rig to drill, set and CBTS 20" conductor. A top hole rig will be MIRU to drill, set and CBTS the 13.375" and 9.625" casing strings. The rig will then continue to drill the 8.75" hole section to KOP at which time the hole will be loaded with 3% KCl fluid. The 12.25" section will be drilled using a directional motor to maintain collision avoidance. Next the horizontal rig will be MIRU and continue to drill 8.75" hole from KOP thru the curve to the LP. Drilling will continue to the MD/TVD, run 5.5" casing and cement back into the 9.625" casing string 500' A night cap will then be installed on the well and rig skidded to the next well or RDMO to the next pad.

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

Stimulation will begin by MIRU of coil tubing unit or service rig. The 5.5" casing is then cleaned out to the PBTD and a CBL is then run to approximately 60 degrees in the curve and pulled to surface. The next step is to perforate the toe stage. A stimulation company is then MIRU and the toe stage is fractured. Anticipated flow rates will be up to a maximum of 85 bpm and stimulation pressures are anticipated to reach a maximum of 9,500 psi. Each subsequent stage is then perforated after a pump down frac plug is set and the stage is perforated. The same maximum rates and pressures apply to all stage in the well. After all stages are completed the well is SI and the stimulation company is RDMO. A coil tubing unit or service rig with snubbing unit is then MIRU and the frac plugs are drilled out and the 5.5" casing cleared to the PBTD. The rig is then RDMO and a flow back crew is RU to flow back the free water to frac tanks. Once well begins to gas it is either flared or placed in line through a separator and produced. The well is next turned over to production and the flow back crew is RDMO.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres)	: 8.26
22) Area to be disturbed for well pad only, less access road (acres):	4.89
23) Describe centralizer placement for each casing string:	
The fresh water/coal string will incorporate the use use of bow spring centralizers beging an every third joint. The intermediate string will incorporate bow spring centralizers witfourth joint to surface. The production string will use left and right alternating rigid central pup joint 100' above the KOP. From there to the top of cement bow spring centralizers	th one on joint 2 and then every tralizers beginning on joint 2 to the

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

Fresh water/coal string cement is generally HalCem which is a Class "A" cement with 0.25 pps Cello Flake with up to 2% CaCl. The intermediate casing cement is also generally HalCem Class "A" iwth a lead and tail mixed at different weights. At time the lead cement on this string will contain 10% NaCl whihc has expanding properties. The production string is generally cemented with VariCem which is a Class "A" that can be mixed at different weights.

25) Proposed borehole conditioning procedures:

-The 17.5" section will be conditioned using air and/or until cuttings are removed from the well bore. -Intermediate 12.25" section will be conditioned using air and/or stiff foam until cutting have been removed fro the well bore.

-The 8.75" section will be conditioned with a minimum of three bottoms up of drilling fluid (mud) and the shakers screens are clear of cuttings.

*Note: Attach additional sheets as needed.

Page 3 of 3



WW-9 ADDENDUM

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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.

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WV Department of Environmental Protection

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4705101847

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

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WV Department of Environmental Protection

Page 2 07/24/2015

API Number 47 - 051 - Operator's Well No. #4H

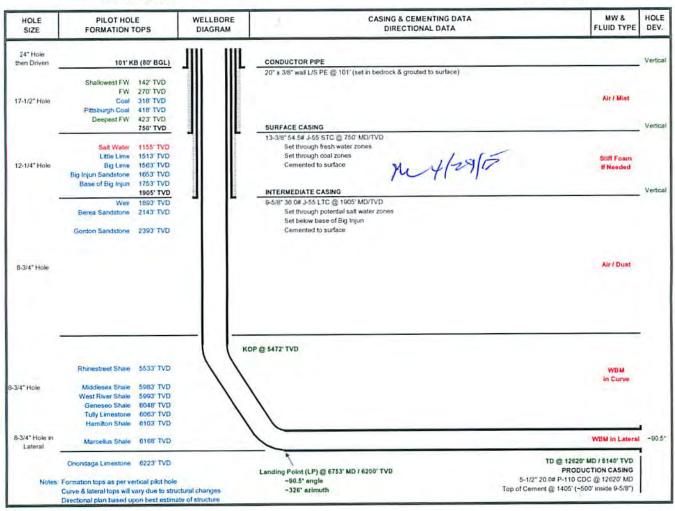
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS 7 0 5 1 0

Operator Name	Stone Energy Corporation	OP Code	
Watershed (HUC 10)	Figh Crook		N 1 8 4 3
	Fish Creek	Quadrangle	Glen Easton
Do you anticipate using more t Will a pit be used? Yes	than 5,000 bbls of water to com	plete the proposed well work? Yo	es V No 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.?_	N/A
Proposed Disposal M	ethod For Treated Pit Wastes:		
Lan	d Application	nit Number_2D0855151, 2D0859721, 34-12	1-24086 34-121-23995 34-105-23619 3
		back to be stored in tanks and used at an as ye	
Off	Site Disposal (Supply form Weer (Explain_		
Will closed loop system be use	ed? If so, describe: Cuttings will	be taken off the drying shakers and flu	
Drilling medium anticipated for	or this well (vertical and horizon	ntal)? Air, freshwater, oil based, etc	Vertical Air/Foam/Drilling Soap Curve and Lateral-Saturated Satt
-If oil based, what typ	pe? Synthetic, petroleum, etc	N/A	
Additives to be used in drilling	g medium?	See attached WW-9 Addendu	ım
Drill cuttings disposal method	? Leave in pit, landfill, remove	d offsite, etc. Dewater and dispose of	in anapproved and permitted landfill
		e used? (cement, lime, sawdust)	
-Landfill or offsite na	me/permit number?	Wetzel Co. Sanitary Landfill (SWF-	1021/WV0109185)
Permittee shall provide written West Virginia solid waste faci where it was properly disposed	notice to the Office of Oil and lity. The notice shall be provide	fill (SWPU 14-04-16) Gas of any load of drill cuttings or d within 24 hours of rejection and t	associated waste rejected at any the permittee shall also disclose
on August 1, 2005, by the Offi provisions of the permit are en law or regulation can lead to en I certify under penal application form and all atta obtaining the information, I be	ice of Oil and Gas of the West V inforceable by law. Violations inforcement action. Ity of law that I have personal inchments thereto and that, bas	ly examined and am familiar with ed on my inquiry of those indiv- true, accurate, and complete. I a	ntal Protection. I understand that neral permit and/or other applicant the information submitted on iduals immediately responsible
Company Official (Typed Nat	me)	Timothy P. McGregor	
Company Official Title		Land Coordinator	ECEIVED Gas
Subscribed and sworn before	ne this A8Th day of	april , 20	MAY 0 4 2015
subscribed and sworn before i	~ //		
Mulli A	Spodely	Nojan	Public ATTITION STREET

Proposed Revegetation Treatment: Acres Disturbed			Prevegetation pH				
Lime	2.0	Tons/acre or to corr	rect to pH	6.5			
Fertilizer type 10-20-20 or Equivalent		nt	47	470510184			
Fertilizer amo	ount_	500 to 750	lbs/acr	e	0 5 1	101847	
Mulch	0.50	to 0.75 plus Straw	Tons/acre				
			Seed Mi	xtures			
	Te	mporary		1	Permanent		
Seed Type Marcellus M	ix	100.0		Seed Type Marcellus M	1ix	100.0	
White or Ladir	no C	lover 10.0		White or Ladino	Clover	10.0	
Orchard Gra	ass	40.0		Orchard Gra	ass	40.0	
Winter Ry	е	50.0		Winter Ry	'e	50.0	
Plan Approved by: Comments:	1	es Tules					
Title: Old	Ga	s luspecter		Date: $\frac{4}{29}$	RECEIVE of Oi	VED I and Gas	5
Field Reviewed?	() Yes	()	No No	O YAM	4 2015	
						artment ontal Prote	Ť

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Permit Number: 47-051-STONE ENERGY - PROPOSED HORIZONTAL Permit Issued: State: West Virginia Revision: 27-Apr-15 Post Construction Ground Elevation: County: Marshall Kelly Bushing: District: Rig: Prospect: Mary Surface: Spud Date: North = 4,403,578 East = 523,411 (UTM NAD 83) North = 4,404,979 East = 521,974 (UTM NAD 83) Location: TD Date: PBHL: Rig Release Date: 12620' MD / 6140' TVD PTD:

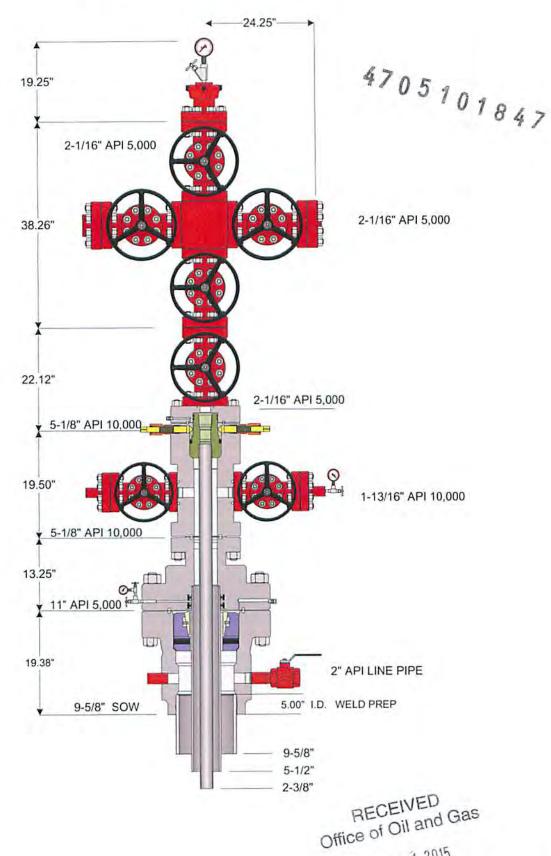


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WV Department of Environmental Protection

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



Weatherford^{*}

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W Property Protections: 99565 v 3 Customer: STONE ENERGY

Tender, Project or Well: 2011-2012 CONVENTIONAL MARCELLUS

Environmental Pro

07/24/2015



Well Site Safety Plan

Hunter-Pethtel

Meade District, Marshall County

Hunter-Pethtel 4H

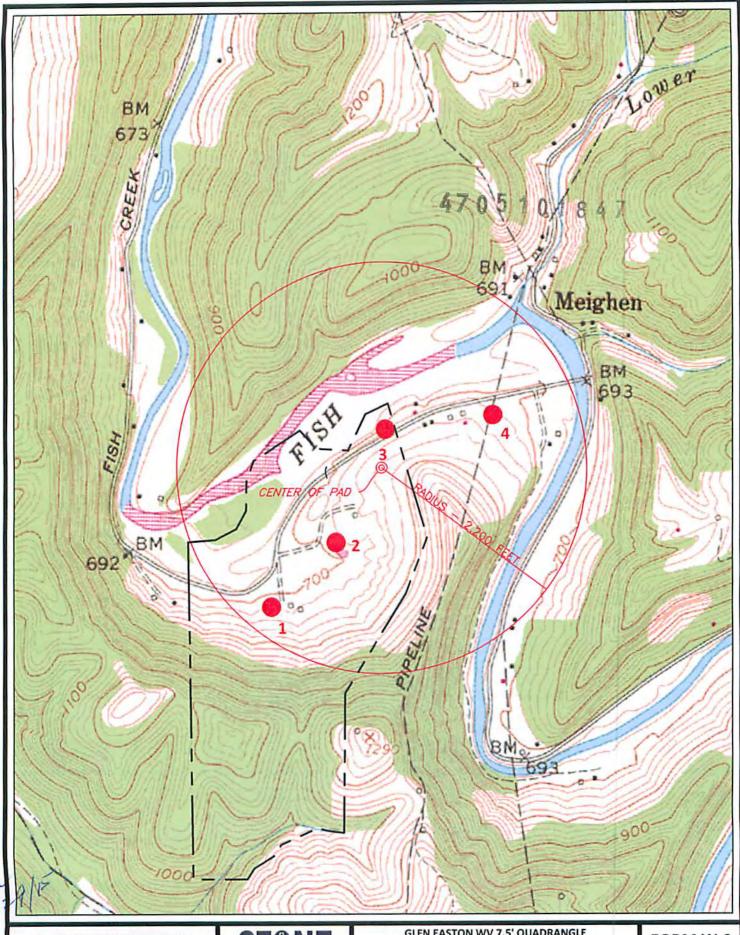
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Stone Energy Corporation 1300 Fort Pierpont Rd Suite 201 Morgantown, West Virginia 26508 (304)225-1600

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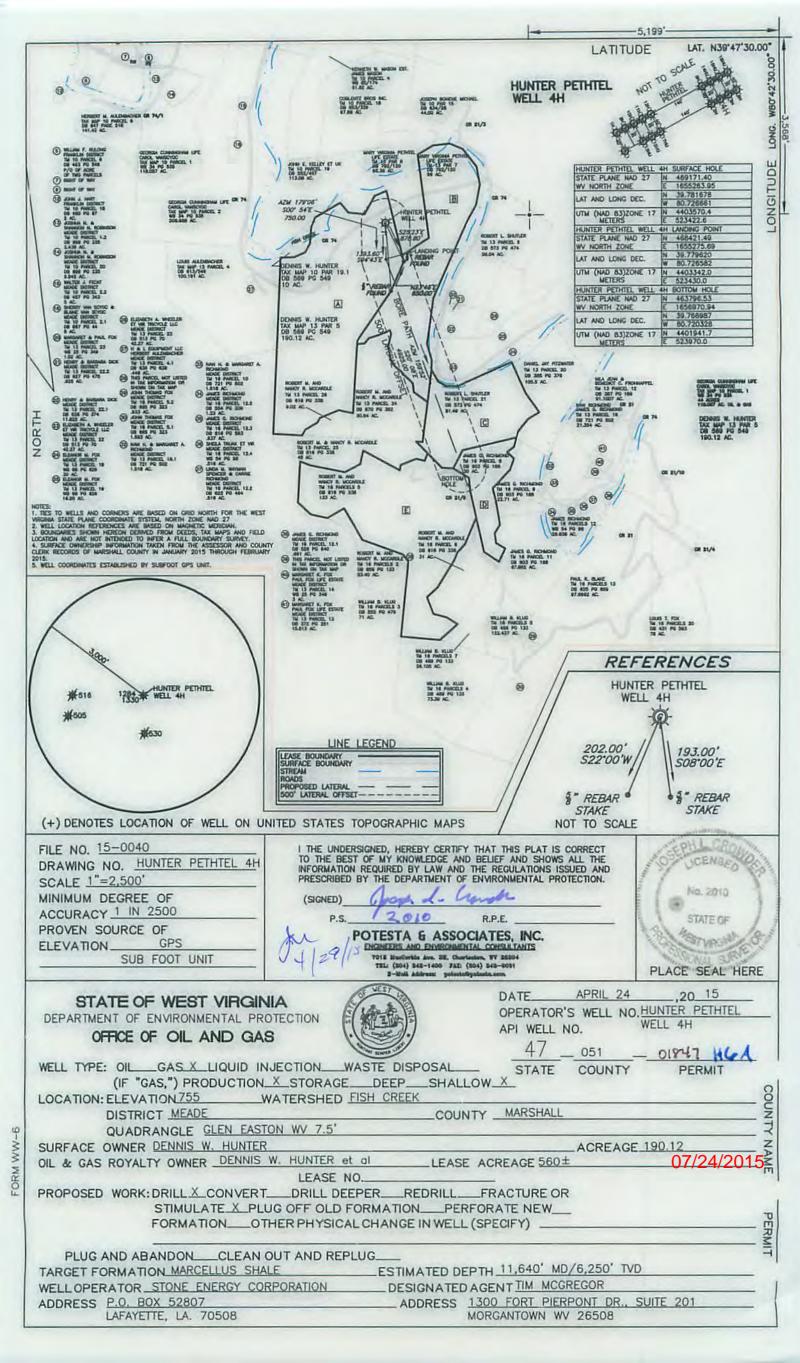


STONE ENERGY CORPORATION 1300 FORT PIERPONT ROAD, SUITE 201 MORGANTOWN, WEST VIRGINIA 26508



GLEN EASTON WV 7.5' QUADRANGLE
HUNTER-PETHTEL WELL PAD
1" = 1,000 FEET
MEADE DISTRICT, MARSHALL COUNTY, WV

FORM W-9 07/24/2015



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Office of Oil and Gas

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ww-6RW (1-12)

Jan Pest MARSHAL County 01:41:10 PM Instrument No 1383269 Date Recorded 07/15/2015 Document Type HIS Pages Recorded 1 Book-Page 26-180 Recording Fee \$5.00 Additional \$6.00

API NO. 47-_051_-OPERATOR WELL NONE THE SHEET THE SH, Well Pad Name: Hunter-Panel 9H, 10H

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WELL LOCATION RESTRICTION WAIVER

is applying for a permit from the State of West Virginia to conduct oil or gas well

The well operator, work. Please be adv	Stone Energy Corporation ised that well work permits are			West Virginia to conduct oil or gas well			
Well Location Restrictions Pursuant to West Virginia Code § 22-6A-12(a), Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements.							
l, Frank Pethte	hereby state that l	have read the Instructions	to Persons Name	d on Page WW-6A and the associated			
provisions listed abo	ve, and that I have received co	pies of a Notice of Appli	cation, an Applica	tion for a Well Work Permit on Form sion and sediment control plan, if			
required and attaching	il plat, all for proposed well w	ork on the tract of land as	, including the cro. i follows:	sion and scampent control plant in			
State:	West Virginia	UTM NAD	83 Easting:	523,417			
County:	Marshall	UTM NAD		4,403,568			
District:	Msade	Public Road	_	Marshall County Route 74			
Quadrangle:	Glen Euston	Generally us	ed farm name:	Hunter, Donnia W.			
Watershed:	Fish Creok			12 mars of the first			
issued on those mate	rials and I therefore waive all	well site restrictions liste	d under West Ving	nave no objection to a permit being ginia Code § 22-6A-12(a).			
	RICTIONS BEING WAIVE			IN BY A NATURAL PERSON			
*Please check all tha	it apply			he Postail			
EXISTING W	ATER WELLS	I 1	Print Name: FR Date: 5/2 R	12015			
☐ DEVELOPED	SPRINGS		FOR EXECUTION	ON BY A CORPORATION, ETC.			
		1	Company: <u>\$70</u>	NE ENGLY COMPORATION			
DWELLINGS			lts: <u>באליאי</u> כ	P. Michelon			
DACRICULTU	RAL BUILDINGS		Signature:	PM			
E AGRICOLIO	RAL BUILDINGS			114/2015			
Well Operator:	Stone Energy Corporation	Signatu	re: Trini				
By:	Timothy P. McGregor	Telepho		(304) 225-1600			
Its:	Land Coordinator	<u> </u>					
Oil and Gas Privacy I	OFFICIAL SEAL BY INJURY, STATE OF WEST WICESA DETECTO L'STOCHITY 445 Days Run Road Platmont, WY 26554 V Commission Epims May 18, 2821	Subscribed and sworn to the subscribed and subscribed an	Stradus es _5/18/2	Notary Public			

personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at departuacyofficer@www.gov.

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Office of Oil and Gas

Jan Pest
MARSHALL County 01:38:50 PM
Instrument No 1383268
Date Recorded 07/15/2015
Document Type MIS
Pases Recorded 1
Book-Pase 26-179
Recording Fee \$5.00
Additional \$6.00

JUL 14 YUND

WV Department of Environmental Protection

API NO. 47- 051 OPERATOR WELL NO: # SH CH. TH. SH,
Well Pad Name: Hunter-Perhel 9H, 10H

is applying for a permit from the State of West Virginia to conduct oil or gas well

WW-6RW (1-12)

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WELL LOCATION RESTRICTION WAIVER

Stone Energy Corporation

work. Please be advised that well work permits are valid for twenty-four (24) months.

Pursuant to West Virginia Code § 22-6A-12(a), Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements.								
	WAIVER							
provisions listed above, and that I have received copies wW-6A and attachments consisting of pages one (I) the required, and the well plat, all for proposed well work of State: West Viginta	of a Notice of Application, an Application ough, including the er in the tract of land as follows: UTM NAD 83 Easting:	osion and sediment control plan, if						
County: Montal District: Monda	UTM NAD 83 Northing: Public Road Access:	4,403,588 Marehall County Roule 74						
Ouadrangle: Gien Easton	Generally used farm name:	Hunter, Dennis W.						
Watershed: Fish Crook I further state that I have no objection to the planned wo issued on those materials and I therefore waive all well	rk described in these materials, and l site restrictions listed under West Vi	have no objection to a permit being rginia Code § 22-6A-12(a).						
WELL SITE RESTRICTIONS BEING WAIVED		ON BY A NATURAL PERSON						
*Please check all that apply	Signature:	ania al Hantes						
EXISTING WATER WELLS	Date: 51 281	inis W. Hunter						
☐ DEVELOPED SPRINGS	FOR EXECUTI	ON BY A CORPORATION, ETC.						
DEACROLED SURINGS	_ · · · · · · · · · · · · · · · · · · ·	THE ENERCY COMPORATION						
DWELLINGS	By: Tim of h	P. M'GREGON.						
AGRICULTURAL BUILDINGS	Signature: 9	14/2015						
Well Operator: Stone Energy Corporation	Signature:	molow						
By: Timothy P. McGregor	Telephone:	(304) 225-1600						
its: Land Coordinator								
Daniella L Smoderly 446 Devys Run Road Rumont, WV 22524 List Commission Entire May 18, 2021	Commission Expires _5/18/202	Motary Public						

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements. including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at departvacyofficer@ww.gov.

WW-6A	
(5/13)	

Operator's Well No.	#4H
The property of the control of the c	

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Attached List

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WV Department of Environmental Protection

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- · WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overides, replaces, or nullifies the need for other permits/approvals that may be necessary and further officings that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is introduced.

Well Operator:

By:

Use Its:

Stone Energy Corporation 2015

Stone Energy Corporation 2015

What Department of Land Manager Space Corporation 2015

Page 1 of ______2

Chapter 22, Article 6, Section 8(d) 4705101847 IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	Map/Parcel	Code
Central Michigan Exploration, LLC	Stone Energy Corporation	1/8	21/288	9-13-5	Α
Central Michigan Exploration, LLC	Stone Energy Corporation	1/8	21/356	9-13-7	В
Perkins Oil & Gas, Inc.	Stone Energy Corporation	1/8	26/322	9-13-21	С
Perkins Oil & Gas, Inc.	Stone Energy Corporation	1/8	26/322	9-16-8	D
Perkins Oil & Gas, Inc.	Stone Energy Corporation	1/8	26/322	9-16-5	E
			RE	CEIVED of Oil and (as
			Office	1 2015	
				NY 0 4 2015	
		21 0	11/11/1	Departmer	10 1

Under the oath required to make the verification on page 1 of this Notice and Application, I deposition that I am the person who signed the Notice and Application for the Applicant, and that –

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Well Operator S	tone	Energ	gy Co	orporation	
Ву	/	1)			
Title I	and	Mana	ger/	pecial Counsel	



4705101847

April 29, 2015

Laura Adkins and Ashley LeMasters West Virginia Department of Environmental Protection Office of Oil & Gas 601 57th Street SE Charleston, West Virginia 25304

RE: Proposed Hunter/Pethtel #4H Wetzel Co.

Well work permit application

This is an additional permit for the existing Hunter/Pethtel unit; that is located Marshall County.

(Farm Name; Hunter, Dennis)

Dear Ashley and Laura:

You will see that we are crossing under route 21/5.

The lessors for tracts 16-8 and 16-5, each own their proportionate share of the minerals under this highway; which are on the WW6A1 form.

If you require any additional information, do not hesitate to contact me.

Thank you for your assistance.

Best Regards,

Tim McGregor
Land Coordinator

Stone Energy Corporation

(304) 225-1788

mcgregortp@stoneenergy.com

RECEIVED
Office of Oil and Gas

MAY 0 4 2015

WV Department of Environmental Protection

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

	ication: 04/30/2015		
		Operator's Well No	#4H
		Well Pad Name:	Hunter-Pethel
otice has been giv	en:	And the second of the second o	V 1100 1 2 1
		22-6A, the Operator has provided the required parties	with the Notice Forms list
elow for the tract of l		Pastina	523,423
tate:	West Virginia	UTM NAD 83 Easting: Northing:	4,403,570
ounty:	Marshall		larshall County Route 74
District:	Meade Glen Easton	Public Road Access: No. 100 Pu	Hunter, Dennis W.
uadrangle:	Fish Creek	Generally used failingange. 0-5	Hamer, Donnis 111
atersned.	FISH CLOCK		4
has provided the or aformation required by f giving the surface equirements of subsecting finia Code § 22-64 f this article have been Pursuant to West Vinthat the Operator has	wners of the surface describ by subsections (b) and (c), se owner notice of entry to su ection (b), section sixteen o A-11(b), the applicant shall t en completed by the applican rginia Code § 22-6A, the Op s properly served the require	erator has attached proof to this Notice Certification	ection ten of this article, s deemed satisfied as a resticle six-a; or (iii) the not wner; and Pursuant to We requirements of section OOG OFFICE USE
*PLEASE CHECK ALL	THAT APPLY		ONLY
☐ 1. NOTICE OF	SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☐ RECEIVED/ NOT REQUIRED
2. NOTICE OF	ENTRY FOR PLAT SURV	YEY or NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
☐ 3. NOTICE OF	FINTENT TO DRILL or	NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF	F PLANNED OPERATION		☐ RECEIVED
4. NOTICE OF5. PUBLIC NO		(PLEASE ATTACH)	RECEIVED RECEIVED CEIVE CI GIREOEIVED MAY 0 4 2015

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

Certification of Notice is hereby given:

THEREFORE, I Timothy P. McGregor , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

 Well Operator:
 Stone Energy Corporation
 Address:
 1300 Fort Pierpont Drive - Suite 201

 By:
 Morgantown, WV 26508

 Its:
 Land Coordinator
 Facsimile:
 (337) 521-9912

 Telephone:
 (304) 225-1788
 Email:
 McGregorTP@StoneEnergy.com

OFFICIAL SEAL
NOTARY PUBLIC - STATE OF WEST VIRGINIA
Danielle L Snoderty
445 Davys Run Road
Fairmont, WV 26554
My Cammission Expires May 18, 2021

Subscribed and sworn before me this 38 day of Coul 2015.

Notary Public

My Commission Expires 5/18/2

847

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Office of Oil and Gas

MAY 0 4 2015

WV Department of Environmental Protection

Hunter-Pethtel Well Pad

There appears to be four potable wells confirmed within the 2,200 foot radius around the Hunter-Pethtel Well Pad.

Locations 1 thru 3

Mr. Dennis Hunter 9201 Fish Creek Road Glen Easton, WV 26039

Location 4

Ms. Mary Virginia Pethtel 3845 Fish Creek Road Glen Easton, WV 26039

These locations are the same as referenced in a letter dated April 3, 2015 as received by Stone Energy Corporation from Potesta & Associates, Inc. entitled "Results of 2,200 foot Proximity Study – Groundwater Well Inventory".

4705101847

WW-6A (9-13) API NO. 47- 051 OPERATOR WELL NO. #4H
Well Pad Name: Hunter-Pethel

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 04/30/2015 Date Permit Application Filed: 05/01/2015 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ✓ REGISTERED ■ METHOD OF DELIVERY THAT REQUIRES A ☐ PERSONAL RECEIPT OR SIGNATURE CONFIRMATION SERVICE MAIL Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5,7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to: ☑ SURFACE OWNER(s) COAL OWNER Name: Mr. & Mrs. Dennis Hunter Name: Address: 1000 CONSOL Energy Drive Address: 9201 Fish Creek Road Canonsburg, Pa 15317 Glen Easton, WV 26039 COAL OPERATOR Name: Name: Consolidation Coal Company Address: Address: 1000 CONSOL Energy Drive SURFACE OWNER(s) (Road and/or Other Disturbance) Canonsburg, Pa 15317 SURFACE OWNER OF WATER WELL Mr. & Mrs. Frank Pethtel Name: Address: 9845 Fish Creek Road AND/OR WATER PURVEYOR(s) RECEIVED PEUELVED
RECEIVED
RECEIVED
Gas
Office of Oil and Gas
Name:
MAY 0 4 265 FIELD
Address: Glen Easton, WV 26039 Name: Address: ☐ SURFACE OWNER(s) (Impoundments or Pits) *Please attach additional forms if next and pepartment of Name: Environmental Protection Address:

WW-6A	
(8-13)	

API NO. 47- 051 -OPERATOR WELL NO. Well Pad Name: Hunter-Pethel

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

4705101 Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir.

(2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending anstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead of ping. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions whis section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the Pastricted are other enced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiplicated pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall the December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A	
(8-13)	

API NO. 47- <u>051</u> -			
OPERATOR WELL	NO	#4H	
Well Pad Name:	Hunte	r-Pethel	

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304

Such persons may request, at the time of submitting written comments, notice of the permit decisin Name a histogramment of test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

Environment of the permit decisin Name of the permit decision of the

MAY 0 4 2015

WW-6A (8-13) API NO. 47- 051 OPERATOR WELL NO. #4H
Well Pad Name: Hunter-Pethel

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

4705101847RECEIVED
Office of Oil and Gas

MAY 0 4 2015

WV Department of
Environmental Protection

WW-6A (8-13)

Email:

API NO. 47- 051 OPERATOR WELL NO. #4H
Well Pad Name: Hunter-Pethel

Notice is hereby given by:

Well Operator: Stone Energy Corporation
Telephone: (304) 225-1788

McGregorTP@StoneEnergy.com

Address: 1300 Fort Pierpont Drive - Suite 201

Morgantown, WV 26508

Facsimile: (337) 521-9912

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

OFFICIAL SEAL
NOTARY PUBLIC - STATE OF WEST VIRGINIA
Danielle L. Snoderty
445 Davys Run Road
Fairmont, WV 26554
My Commission Expires May 18, 2021

Subscribed and sworn before me this 2015 day of april, 2015

Notary Public

My Commission Expires 5/18/2021

4705101847

Office of Oil and Gas

MAY 0 4 2015

WV Department of
Environmental Protection

Mailings of Applications to Surface Owners, Water Purveyors and Mineral Owners for Hunter Pethel:

Consol Energy Inc. CNX Center Attn: Analyst 1000 Consol Energy Dr. Canonsburg, PA 15317

Mr. & Mrs. Dennis Hunter 9201 Fish Creek Road Glen Easton, WV 26039

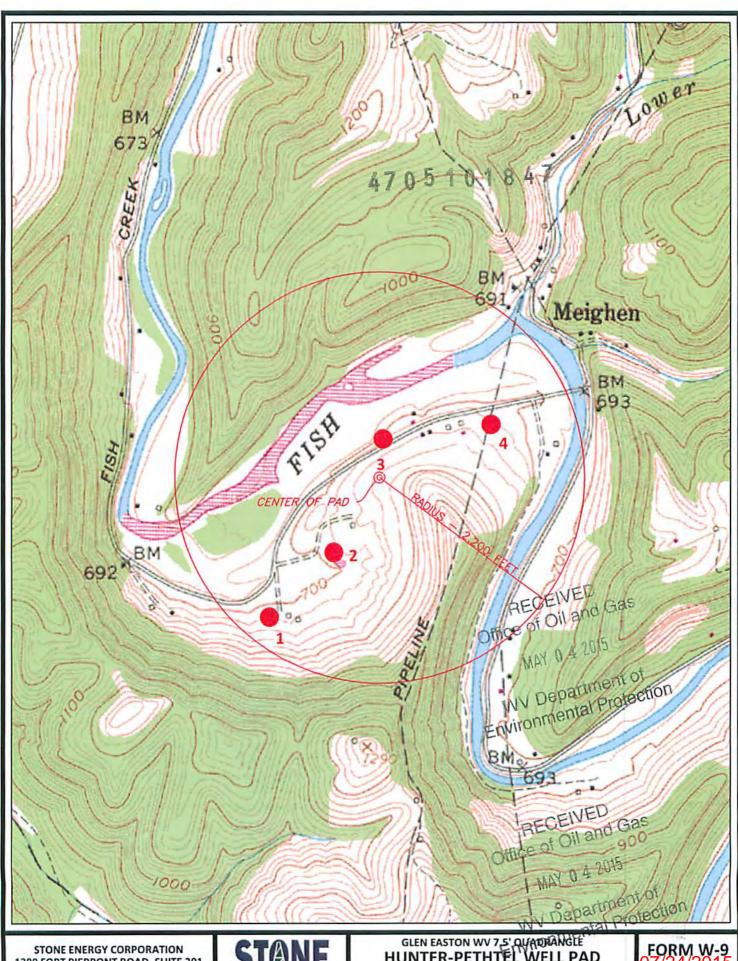
Mr. & Mrs. Frank Pethel 9845 Fish Creek Road Glen Easton, WV 26039

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Office of Oil and Gas

MAY 0 4 2015

WV Department of Environmental Protection



STONE ENERGY CORPORATION 1300 FORT PIERPONT ROAD, SUITE 201 MORGANTOWN, WEST VIRGINIA 26508



GLEN EASTON WV 7.5' QUADIANGLE
HUNTER-PETHTEL WELL PAD
1" = 1,000 FEET
MEADE DISTRICT, MARSHALL COUNTY, WV

FORM W-9 07/24/2015 APRIL 2015

Operator Well No.	#4H
Charmon II ell Lion	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

	Time Requ	irement:	Notice shall be pro-	vided at least S	EVEN (7) da	ys but no more than	FORTY-FIV	E (45) days prior to
Date of	f Notice:	1/29/2015	Date of Pla	nned Entry:	2/9/2105			
	- Average							
Delive	ry method p	oursuant i	to West Virginia C	ode § 22-6A-1	0a			
■ P	ERSONAL		REGISTERED	☐ METH	HOD OF DEL	IVERY THAT REQ	UIRES A	
	ERVICE	_	MAIL			NATURE CONFIRM		
								A LIST WATER
on to the but no beneath owner and Secreta enable	ne surface tra more than for a such tract to of minerals to diment Cont ary, which st	act to cond orty-five de that has fil underlying rol Manua atement sl owner to co	duct any plat survey ays prior to such en led a declaration put g such tract in the coal and the statutes at hall include contact obtain copies from the	s required purs try to: (1) The rsuant to section ounty tax record rules related information, in	suant to this ar surface owner in thirty-six, and ds. The notice to oil and gas	rticle. Such notice sh r of such tract; (2) to rticle six, chapter two e shall include a state	all be provide any owner or enty-two of the ement that co- oduction may	actice of planned entry ed at least seven days lessee of coal seams his code; and (3) any pies of the state Erosion be obtained from the etary's web site, to
_			•		■ co	ONAIED OD I EG	CEE 4	
	JRFACE OV					L OWNER OR LES		
Name:					, turie.	Consolidation Coal Company	· •	
Addres	S: 9201 Fish Cr Glen Easton			-	4.1	1000 Consol Drive Canonsburg, Pa 15317		
Mantai		TO THE OWNER OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OW		-		Canonsburg, Pa 15517		
Name:	s: 9845 Fish Cr			-	■ MINI	ERAL OWNER(s)	1	
Addres	Glen Easton					Mr. & Mrs. Dennis Hunter		
Name:		I TO S PROPERTY		_	i tuille.	9201 Fish Creek Road		
Addres	c.			-		Glen Easton, WV 26039		
1100103				_		h additional forms if nece	ssarv	
				7	49.00			
Notice	is hereby	given:						
Pursua	nt to West V	irginia Co	ode § 22-6A-10(a),	notice is hereby	y given that th	e undersigned well o	operator is pla	nning entry to conduct
	urvey on the	tract of la	and as follows:			3 ay 5 7 4		
State:			West Virginia			ude & Longitude:		403,570 / 523,423
County			Marshall		Public Road A	Access:	1 9 8 M	hal County Route 74
Distric			Meade		Watershed:	4/00	0 10 .	Fish Creek
Quadra	ingle:		Glen Easton		Generally use	d farm name:	- +	unter, Dennis W.
may be Charles obtaine	obtained fro ston, WV 2:	om the Se 5304 (304 Secretary b	cretary, at the WV l -926-0450). Copies by visiting <u>www.de</u>	Department of s of such docur	Environmenta nents or addit	Il Protection headqua ional information rel	arters, located lated to horize REC Office of	Oil and Gas
	perator:		Stone Energy Corporation		Address:	1300 Fort Pierpont Drive -	Suite 201	0 4 2015
Teleph	one:		(304) 225-1788			Morgantown, WV 26508	MAY	0 4 20.5
Email:		Mo	:GregorTP@StoneEnergy.c	om	Facsimile:		(337) 521-99	12 mont of
	_						WV De	partment of
Oil an	d Gas Priv	vacy Not	ice:	nal information	, such as nam	e, address and teleph	environm	ental Protection as part of our regulatory

duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

07/24/2015



6000 Hampton Center Suite "B" Morgantown WV, 26505

December 22, 2014

Mr. & Mrs. Dennis Hunter 9201 Fish Creek Road Glen Easton, WV 26039

Dear Mr. & Mrs. Hunter.

This letter is a follow up to our telephone conversation regarding the expansion of the current Hunter/Petel pad site.

Stone Energy will be conducting surface surveying needs for the engineering plans to accommodate the extra wells to be drilled off this existing pad site very soon.

Mr. Ofie Helmick (Construction Superintendent) is in charge of the operations team that will be on your surface. His contact information is (304) 225-1647.

If you should have any questions or concerns; please contact Mr. Helmick or our land department, at the numbers listed below. You may also contact Mrs. Kathy Sisler if urgent; Kathy is helping us with our surface owner notifications and communication needs.

Kathy will most likely be the one calling you to confirm the exact date the work will start.

We appreciate your assistance and look forward to further developing your oil & gas rights.

Sincerely,

Im McGregor

Land Coordinator Appalachia Basin

Stone Energy Corporation

(304) 225-1788 (Tim)/(304) 225-1775 (Ofie)/304-225-1630 (Kathy)

mcgregortp@stoneenergy.com

4705101847

RECEIVED
Office of Oil and Gas

MAY 0 4 2015

WV Department of Environmental Protection



1300 Fort Pierpont Drive Suite 201 Morgantown WV, 26508

January 29, 2015

Mr. & Mrs. Pethtel 9845 Fish Creek Road Glen Easton, WV 26039

Dear Mr. & Mrs. Pethtel;

This letter is a follow up to our telephone conversation regarding the modification of the current Hunter/Pethtel pad site.

Stone Energy will be conducting surface surveying and due diligence on your surface for the engineering plans needed to modify the existing pad site very soon. Once I have a conceptual design from our Engineering department, I will be out to see you regarding the surface use agreement needed for this project.

Mr. Ofie Helmick (Construction Superintendent) is in charge of the operations team that will be on your surface. His contact information is (304) 225-1647. Potesta & Associates will be the company surveying and completing the surface due diligence.

If you should have any questions or concerns; please contact Mr. Helmick; or my-self at the number listed below.

We appreciate your assistance and look forward to further developing your oil & gas rights. 4705101847

Sincerely,

Tim McGregor

Land Coordinator Appalachia Basin

Stone Energy Corporation

(304) 225-1788 (Tim)/(304) 225-1775 (Ofie)/304-225-1630 (Kathy)

Office of Oil and Gas

RECEIVED

MAY 0 4 2015

mcgregortp@stoneenergy.com

WV Department of Environmental Protection

anil 20 201
april 30, 2015
We Dennis W. Hunter and Kathy A. Hunter
received surface notification from Tim MGregor
We Dennis W. Hunter and Kathy A. Hunter veceived surface votification from Tim MGregor in December 22nd of 2014.
NAME: KAthy A. HUNTEIR
Kathey Adjunter
NAME: Dennis W. Hyunter
Dennis W. Hunter
Witness: Allen Scholine
NAME: Allen Scients
NAME: MILEN DE I DE L'ARY S
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RECEIVED Gas
at Oil and Gas

Office of Oil and Ga

MAY 0 4 2015

WV Department of Environmental Protection

Operator Well No. #-	4H
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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Jolivory mothod on	rsuant to West Virginia (Cade S 2	2-6A-16(c)				
Jenvery method pu	rsuant to west virginia C	Joue 9 2	2-0/4-10(C)				
CERTIFIED M	IAIL		HAND				
RETURN REC	CEIPT REQUESTED		DELIVERY				
return receipt request the planned operation required to be provided drilling of a horizon damages to the surface d) The notices required notice.	Code § 22-6A-16(c), no la ted or hand delivery, give to n. The notice required by ed by subsection (b), section tal well; and (3) A propose ce affected by oil and gas of red by this section shall be ovided to the SURFACE (in the records of the sherif	he surface y this surported ten of ted surface peration given to	ce owner whose land absection shall include this article to a surfa- ace use and compens as to the extent the da to the surface owner a	I will be used for de: (1) A copy ace owner whose sation agreement amages are com	or the drillin of this cod se land will nt containing pensable un	g of a horizon e section; (2) be used in con g an offer of der article six	ntal well notice of The information njunction with the compensation for b of this chapter
		i at the t	Name:	Frank Pethtel			
15111147		_		9845 Fish Creek F	Road		
Address: 9201 Fish Cree Glen Easton, W Notice is hereby giv Pursuant to West Vir	k Road V 26039 en: ginia Code § 22-6A-16(c),	notice is	Address	9845 Fish Creek F Glen Easton, WV	well operato	or has develop	ed a planned
Address: 9201 Fish Cree Glen Easton, W Notice is hereby giv Pursuant to West Vir operation on the sur- State:	k Road V 26039 en: ginia Code § 22-6A-16(c), face owner's land for the p West Virginia	notice is	Address	Glen Easton, WV ne undersigned Il well on the tra Easting:	well operato	s follows: 523,423	3
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Address: 9201 Fish Cree Glen Easton, W Notice is hereby giv Pursuant to West Vir	k Road V 26039 en: ginia Code § 22-6A-16(c), face owner's land for the p West Virginia Marshall	notice is	s hereby given that the familiang a horizonta UTM NAD 8 Public Road	ne undersigned I well on the tra Easting: Northing:	well operato	s follows: 523,423 4,403,57	3 70 Route 74
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Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information of Inform

MAYMAY4 (20152015

WW/perpartment of Environmental Mathematical No. 17/24/2015

API NO. 47	51 -			
OPERATOR W	ELL I	NO	#4H	
Well Pad Name		Hunter	r-Pethel	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS OLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

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

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

State: County:	West Virginia Marsha	UTM NAD 83	Northing:	523,423 4,403,570	
District: Meade Quadrangle: Glen Easton Watershed: Fish Creek		Public Road A		Marshall County Route 74	
		Generally used	tarm name:	Hunter, Dennis W.	
ssued on those mate		FC	OR EXECUTION	YA MATURAL-PERSON	
Please check the bo	••		gnature:	S. W. Hunter	
				MARCHINE	
SURFACE OV	/NER (Road and/or Other Di			S.W. Husetok	
	/NER (Road and/or Other Di /NER (Impoundments/Pits)	Da	ate: 4/30/15		
☐ SURFACE OV	/NER (Impoundments/Pits)	Sturbance) Da	ate: 4130/15 OR EXECUTION I Ompany:	BY A CORPORATION, ETC.	
☐ SURFACE OV ☐ COAL OWNE	/NER (Impoundments/Pits) R OR LESSEE	FO Co	nte: 4 30 15 OR EXECUTION Ompany:	BY A CORPORATION, ETC.	
	/NER (Impoundments/Pits) R OR LESSEE TOR	FO Co By Its	nte: 4 30 15 OR EXECUTION	BY A CORPORATION, ETC.	

Oil and Gas Privacy Notice:

MAY **0 4** 2015

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API NO. 47- <u>05</u> 1	<u> </u>	
OPERATOR WE	LL NO.	#4H
Well Pad Name:	Hunte	r-Pethel

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

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VOLUNTARY STATEMENT OF NO OBJECTION

required, and the well State: County: District: Quadrangle:	plat, all for proposed well work West Virginia Marshall Meade Glen Eeston	k on the tract of land as UTM NAD 8 Public Road A Generally use	follows: Easting: Northing: Access: d farm name:	523,423 4,403,570 Marshall County Route 74 Hunter, Dennis W.	
Watershed: I further state that I has issued on those mater *Please check the box	ials. 			no objection to a permit being BY A NATURAL PERSON	
	NER (Road and/or Other Dis NER (Impoundments/Pits) R OR LESSEE	sturbance) P	Oate:OATE:OR EXECUTION Company:	NK E. YETHTEL	
■ WATER PURV	'EYOR F ANY NATURAL GAS ST	ır	ignature: Date:Offic	RECEIVED De of Oil and Gas	

Oil and Gas Privacy Notice:

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Earl Ray Tomblin Governor

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

March 4, 2015

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

Subject: DOH Permit for the Hunter-Pethtel Pad, Marshall County

Hunter-Pethtel 4H Hunter-Pethtel 5H Hunter-Pethtel 6H Hunter-Pethtel 2H Hunter-Pethtel 9H Hunter-Pethtel 10H Hunter-Pethtel 12H Hunter-Pethtel 8H Hunter-Pethtel 13HU Hunter-Pethtel 14HU Hunter-Pethtel 15HU Hunter-Pethtel 17HU Hunter-Pethtel 18HU

Dear Mr. Martin,

This well site will be accessed from a permit 06-2009-0275 issued to Stone Energy Corporation for access to the State Road for a well site located off of Marshall County Route 74 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012. 4705101847

Very Truly Yours,

Gary K. Clayton, RECEIVED Regional Maintenance L Central Office O&G Coordinator

MAY 0 4 2015

Tim McGregor Cc:

Stone Energy Corporation

CH, OM, D-6

File

WV Department of Environmental Protection



STONE ENERGY CORPORTATION

Addendum for

Planned Additives to be Used in Fracturing or Stimulations

Listed below are the chemicals used in addition to water and sand (CAS-No 14808-60-7) and their respective quantities for slick water fracturing;

- 0.5 gal/thousand gallons of water Friction Reducer (CAS-No 7783-20-2)
- 0.25 gal/thousand gallons of water Bacteria Control (CAS-No 11-30-8)
- 0.25 gal/thousand gallons of water Clay Stabilizer (CAS- No 75-57-0)
- 0.75 gal/thousand gallons of water Surfactant (CAS-No Proprietary)
- 0.25 gal/thousand gallons of water Scale Inhibitor (CAS-No 7601-54-9 & 107-21-1)
- 2000 gal of 15% HCl (CAS-No 7647-01-0) per stage with/ 2 gal/thousand gallons of acid Corrosion Inhibitor (CAS-No 67-56-1, 107-19-7, & Propretary) and 6 pints/thousand gallons of acid – Iron Stabilizer (CAS-No 6381-77-7)
- A 15 lb. Linear Gel and breaker is sometimes used during a stage but the exact amount is not known until the stimulation is in progress (CAS-No Proprietary & 7727-54-0)

4705101847

RECEIVED
Office of Oil and Gas

MAY 0 4 2015

WV Department of Environmental Protection

STONE ENERGY CORPORATION WELL PAD CONSTRUCTION PLANS HUNTER-PETHTEL WELL PAD EXTENSION

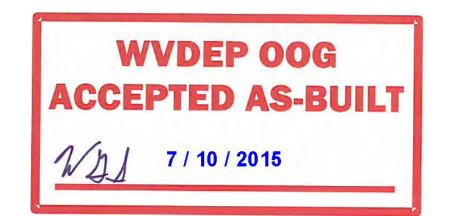
MEADE DISTRICT, MARSHALL COUNTY, WEST VIRGINIA

1.0	1	Mobilization and Demobilization (cannot exceed 10% project bid total)	
2.0	1	Construction Layout Stakes (cannot exceed 5% project bid total)	
3.0	1	Quality Control (cannot exceed 3% project bid total)	LS
4.0	7.9	Clearing, Grubbing	AC
4.1	1	Stabilized Construction Entrance	EA
5.1	1,530	24" Filter Sock	LF
5.3	6	Rock Check Dams	EA
6.0	5.4	Revegetation	AC
7.3	102	Groin Ditch	LF
7.4	1,320	Well Pad Perimeter Underdrains	LF
7.5	500	8" SCH80 PVC	LF
7.7	2	Culvert Inlet Protection	EA
7.9	2	Pad Sump	EA
7.1	2	Well Cellar Drain Cleanouts	EA
8.0	19,821	Earthwork	CY
8.1	160	Rock Toe Key	
8.2	1,380	Well Pad Berm	
9.2	2.5	Well Pad Surface Treatment	AC
9.3	26,730	Timber Crane Mats	SF

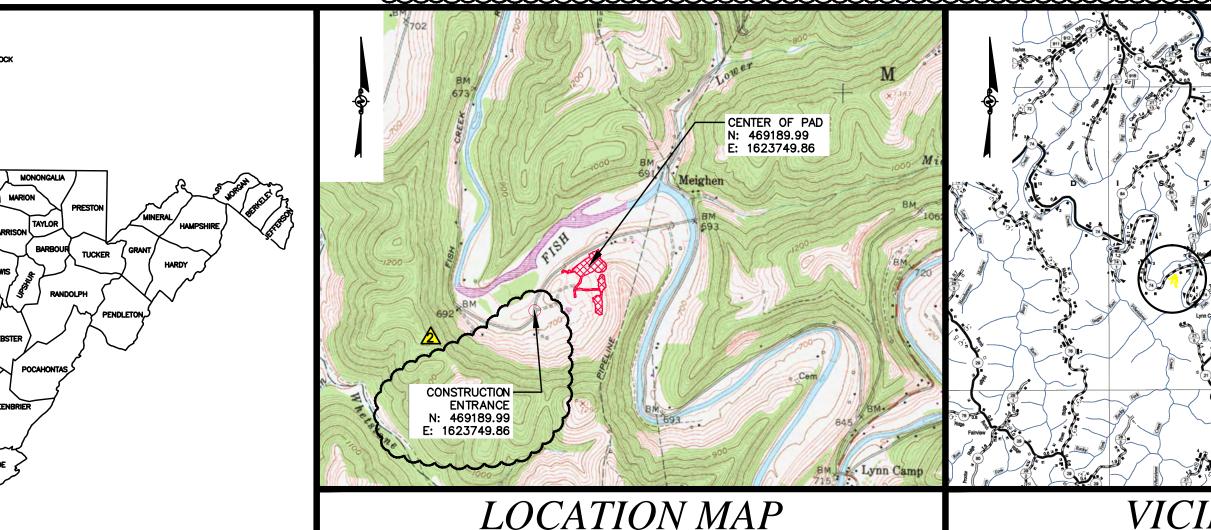
WEST VIRGINIA

ITEM NO. QUANTITY

	PROJECT C	OORDINATES	^
······	HUNTER-PETHTEL SUF	RFACE HOLE LOCATIONS	<u></u>
SURFACE HOLE 2H	SURFACE HOLE 8H	SURFACE HOLE 12H	SURFACE HOLE 16HU
UTM NORTHING 4403539.90 (ZONE 17) EASTING 523364.00	UTM NORTHING 4403548.80 (ZONE 17) EASTING 523358.00	UTM NORTHING 4403557.60 (ZONE 17) EASTING 523373.90	UTM NORTHING 4403543.90 (ZONE 17) EASTING 523374.60
SURFACE HOLE 4H	SURFACE HOLE 9H	SURFACE HOLE 13HU	SURFACE HOLE 17HU
UTM NORTHING 4403570.40 (ZONE 17) EASTING 523422.60	UTM NORTHING 4403578.30 (ZONE 17) EASTING 523411.30	UTM NORTHING 4403551.70 (ZONE 17) EASTING 523363.30	UTM NORTHING 4403546.80 (ZONE 17) EASTING 523379.90
SURFACE HOLE 5H	SURFACE HOLE 10H	SURFACE HOLE 14HU	SURFACE HOLE 18HU
UTM NORTHING 4403573.40 (ZONE 17) EASTING 523427.80	UTM NORTHING 4403581.30 (ZONE 17) EASTING 523416.60	UTM NORTHING 4403540.90 (ZONE 17) EASTING 523369.30	UTM NORTHING 4403576.30 (ZONE 17) EASTING 523433.20
SURFACE HOLE 6H SURFACE HOLE 11H		SURFACE HOLE 15HU	
UTM NORTHING 4403587.20 (ZONE 17) EASTING 523427.20	UTM NORTHING 4403554.70 (ZONE 17) EASTING 523368.60	UTM NORTHING 4403543.90 (ZONE 17) EASTING 523374.60	



REGULATORY REVIEW



U.S.G.S. 7.5' QUADRANGLE

GLEN EASTON, WEST VIRGINIA *SCALE:* 1'' = 2000'

DRAWING NO. *VICINITY MAP* WV DIVISION OF HIGHWAYS MARSHALL COUNTY HIGHWAY MAP SCALE: 1" = 1 MILE

TITLE INDEX AND COVER SHEET GENERAL NOTES/SEQUENCE OF CONSTRUCTION **EXISTING CONDITIONS EXISTING CONDITIONS** PROPOSED SITE PLAN PROPOSED SITE PLAN WELL PAD PROFILE AND CROSS SECTIONS MISCELLANEOUS DETAILS RECLAMATION PLAN

DRAWING INDEX

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