



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

September 30, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-5101866, 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: 5H
Farm Name: HUNTER, DENNIS W.
API Well Number: 47-5101866
Permit Type: Horizontal 6A Well
Date Issued: 09/30/2015

Promoting a healthy environment.

10/02/2015

PERMIT CONDITIONS 4705101866

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.

WW-6B
(04/15)

API NO. 47- 051 - _____
OPERATOR WELL NO. #5H
Well Pad Name: Hunter-Pethtel

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

1) Well Operator: Stone Energy Corporation 494490923 Marshall Meade Glen Easton
Operator ID Cor. District Quadrangle

2) Operator's Well Number: #5H Well Pad Name: Hunter-Pethtel
Office of Oil and Gas

3) Farm Name/Surface Owner: Hunter, Dennis W. Public Road Access: Marshall County Route 74
SEP 17 2015

4) Elevation, current ground: 755' Elevation, proposed construction: 755'
WV Department of Environmental Protection

5) Well Type (a) Gas Oil Underground Storage
Other _____
(b) If Gas Shallow Deep
Horizontal

4705101866
JW 9/17/15

6) Existing Pad: Yes or No Yes but being expanded

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale @ 6,176' TVD (5,400' SSL). Thickness = 55'. RP = 4,000 to 4,400 psig.

8) Proposed Total Vertical Depth: 6,240' TVD

9) Formation at Total Vertical Depth: Marcellus Shale

10) Proposed Total Measured Depth: 11,800' MD

11) Proposed Horizontal Leg Length: From LP = 5,321' From KOP = 6,320'

12) Approximate Fresh Water Strata Depths: 142', 270', 429' and 700'

13) Method to Determine Fresh Water Depths: When having to soap wellbore or show of fluid at end of flow line

14) Approximate Saltwater Depths: 1,155'

15) Approximate Coal Seam Depths: 326' and 426'

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes X No

(a) If Yes, provide Mine Info: Name: Consolidation Coal Company
Depth: _____
Seam: _____
Owner: _____

WW-6B
(04/15)

API NO. 47- 051 -
OPERATOR WELL NO. #5H
Well Pad Name: Hunter-Pethel

18)

CASING AND TUBING PROGRAM

<u>TYPE</u>	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
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		11,800'	2,771 - CT 1,405'
Tubing	2.375	New	J55	4.7		4,270' 5	101866
Liners							

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.

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<u>TYPE</u>	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
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:			

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WV Department of
Environmental Protection

WW-6B
(10/14)

API NO. 47- 051 -
OPERATOR WELL NO. #5H
Well Pad Name: Hunter-Pathel

JN 9/17/15

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

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 PBDT 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 max pressure ~9,500 psi and max rate ~85 bpm. Each subsequent stage is then perforated after a pump down frac plug is set and the stage is perforated. 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 PBDT. 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): 4705101866

23) Describe centralizer placement for each casing string:

The fresh water/coal string will incorporate the use use of bow spring centralizers beginning generally on joint 2 to surface on every third joint. The intermediate string will incorporate bow spring centralizers with one on joint 2 and then every fourth joint to surface. The production string will use left and right alternating rigid centralizers beginning on joint 2 to the pup joint 100' above the KOP. From there to the top of cement bow spring centralizers will be used on every third joint.

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.

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SEP 17 2015

WV Department of Environmental Protection

25) Proposed borehole conditioning procedures:

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

**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) Fish Creek Quadrangle Glen Easton

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: N/A

Will a synthetic liner be used in the pit? Yes No If so, what ml.? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 2D0855151, 2D0859721, 34-121-24086, 34-121-28995, 34-105-23619)
- Reuse (at API Number Flow back to be stored in tanks and used at an as yet to be determined well pad)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

47-051-01866

Will closed loop system be used? If so, describe: Cuttings will be taken off the drying shakers and fluids will be returned to the system

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.
Vertical-Air/Foam/Drilling Soap
Curve and Lateral-Saturated Salt

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? See attached WW-9 Addendum

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Dewater and dispose of in an approved and permitted landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? Wetzel Co. Sanitary Landfill (SWF-1021/WW0109185)
Brooke Co. Landfill (SWPU 14-04-16)

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

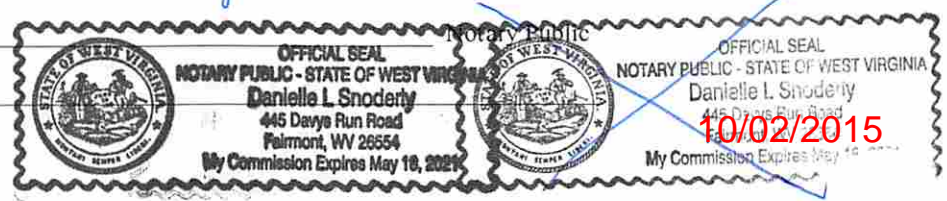
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Roger L. Cutright
Company Official (Typed Name) Roger L. Cutright
Company Official Title Land Manager / Special Counsel

Office of Oil & Gas
AUG 26 2015

Subscribed and sworn before me this 24th day of August, 2015

My commission expires 5/18/2021



Proposed Revegetation Treatment: Acres Disturbed 8.26 Prevegetation pH

Lime 2.0 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or Equivalent

Fertilizer amount 500 to 750 lbs/acre

Mulch 0.50 to 0.75 plus Straw Tons/acre

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Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Marcellus Mix	100.0	Marcellus Mix	100.0
White or Ladino Clover	10.0	White or Ladino Clover	10.0
Orchard Grass	40.0	Orchard Grass	40.0
Winter Rye	50.0	Winter Rye	50.0

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *James Wilson*

Comments:

Title: *Oil & Gas Inspector*

Date: *6/24/15*

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AUG 26 2015

Field Reviewed? () Yes () No



WW-9 ADDENDUM

4705101866

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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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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AUG 26 2015



Well Site Safety Plan

4705101866 *ju* 8/24/15

Hunter-Pethtel

Meade District, Marshall County

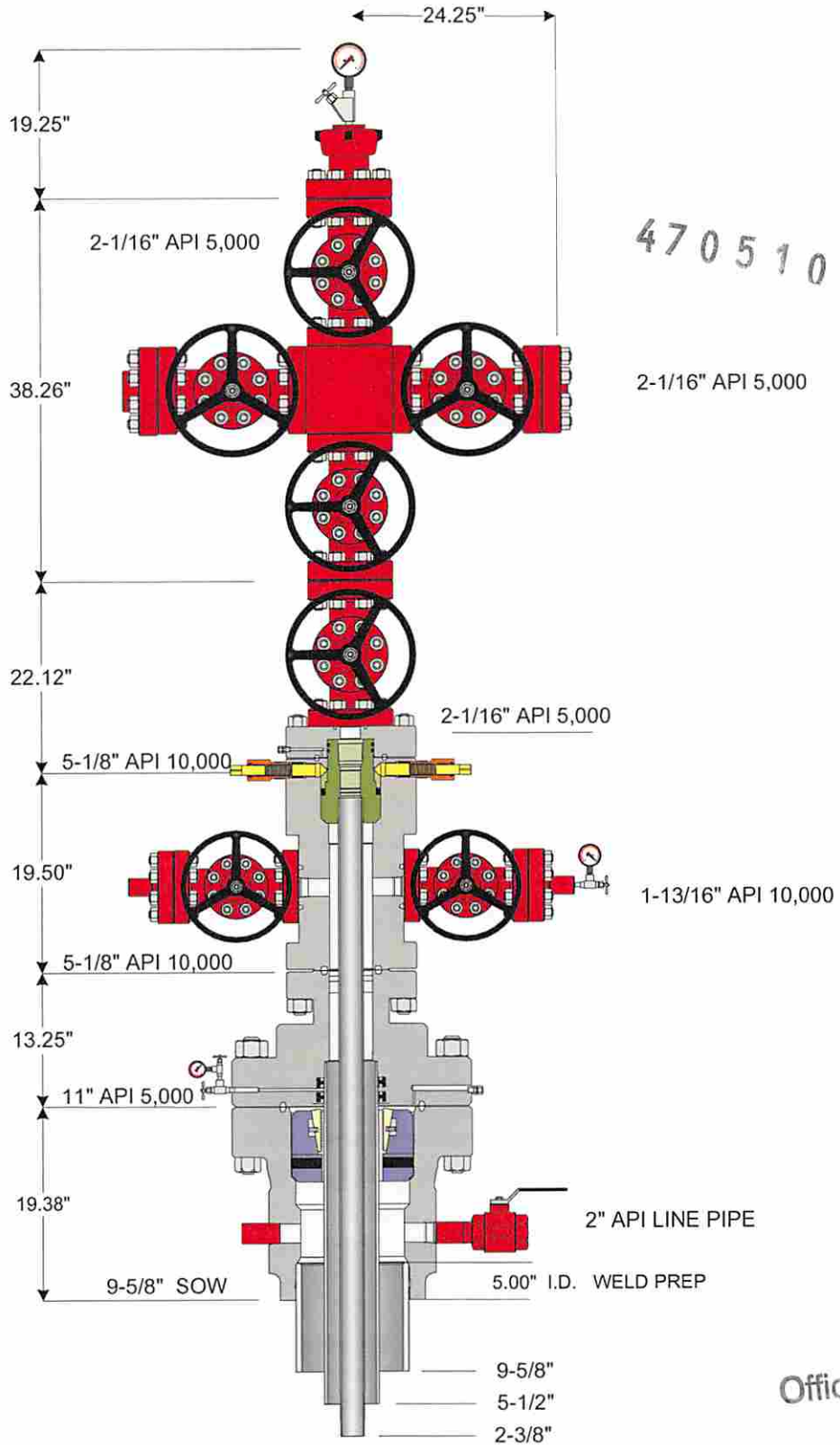
Hunter-Pethtel 5H

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

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AUG 26 2015

10/02/2015

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



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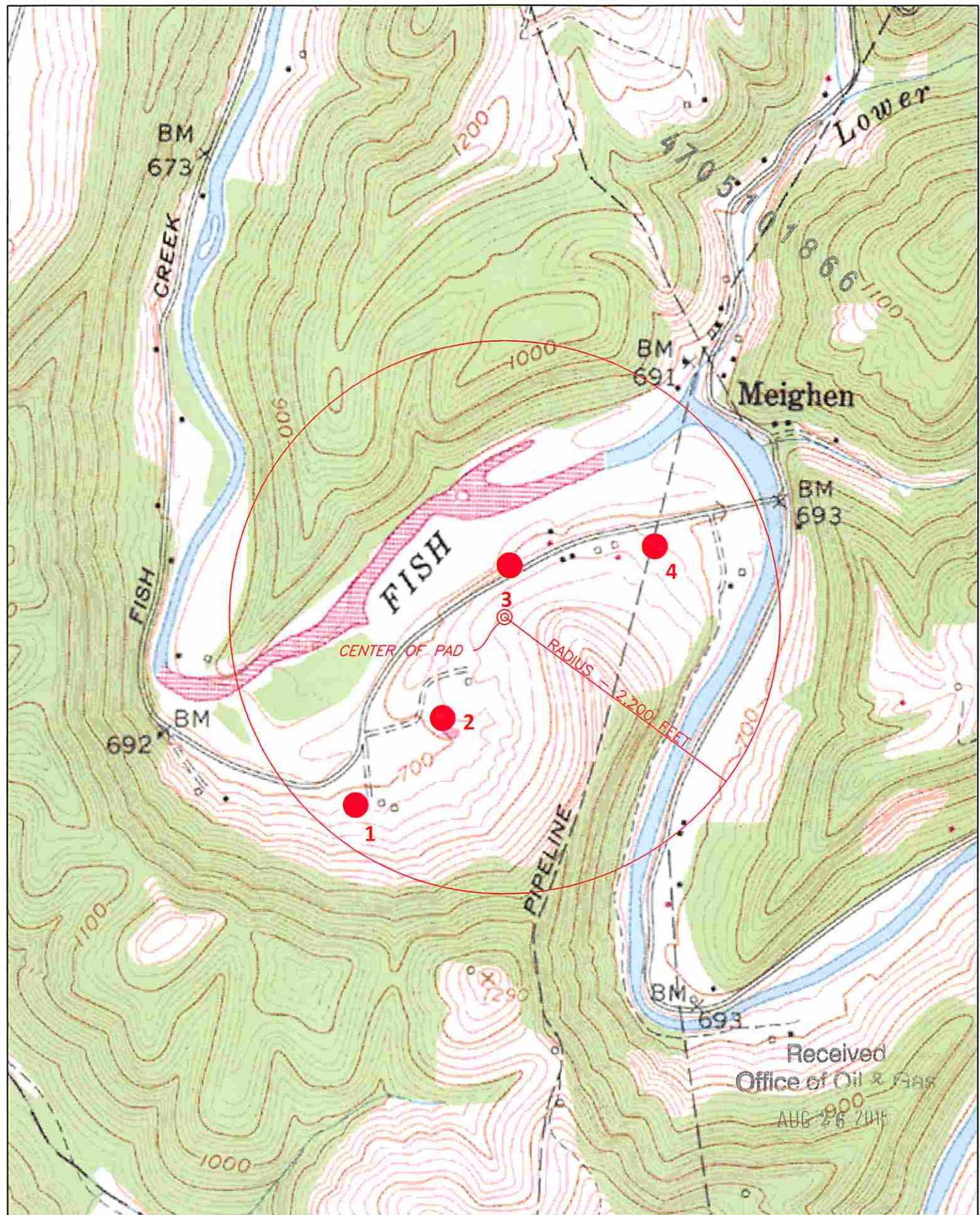
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Office of Oil & Gas
AUG 26 2015



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Customer: STONE ENERGY	Project: 46705	Quote: 99565 v 3
Tender, Project or Well: 2011- 2012 CONVENTIONAL MARCELLUS	Date: 07-17-2011	Drawn By: RF

10/02/2015



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



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

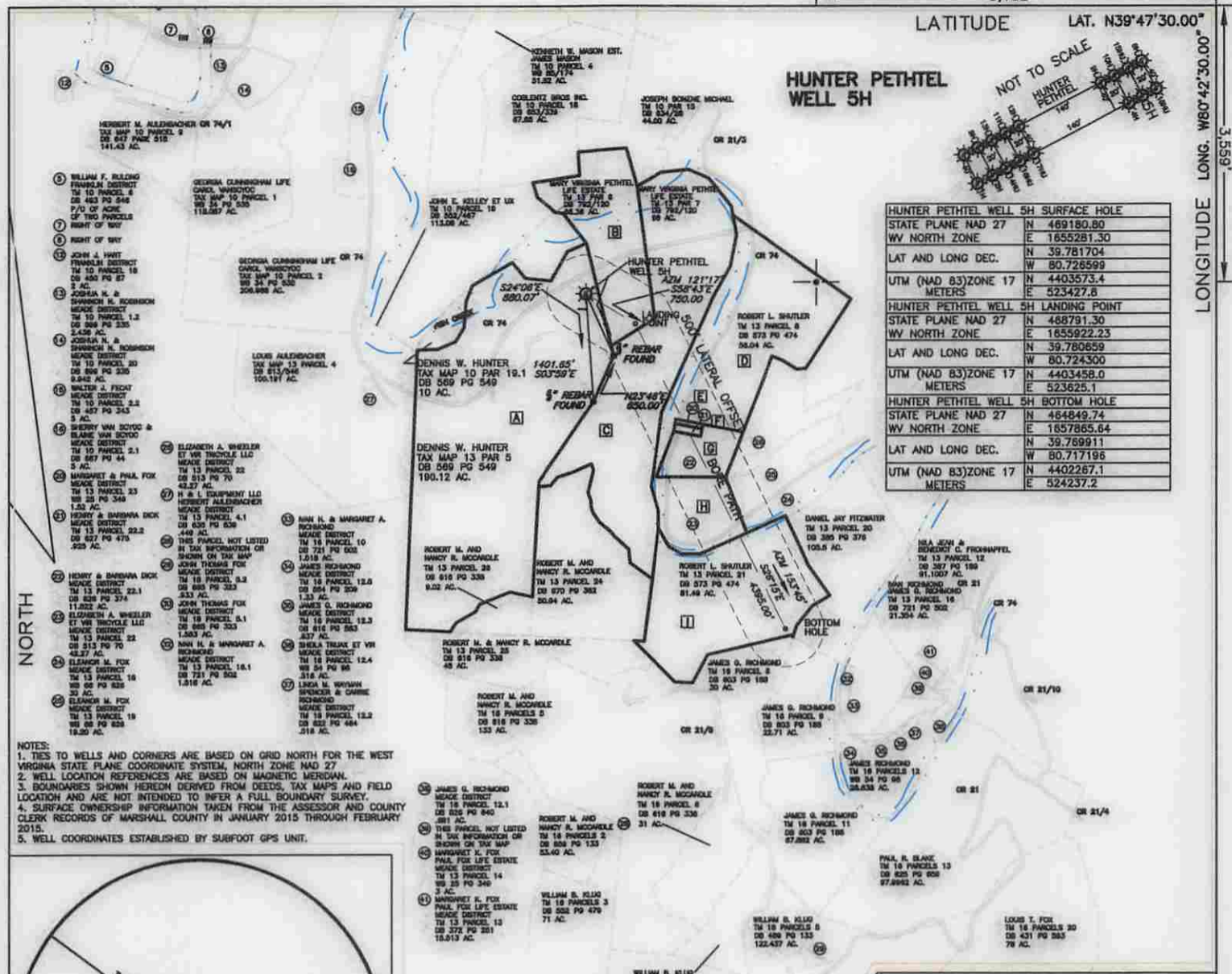
10/02/2015
 FORM W-9

APRIL 2015

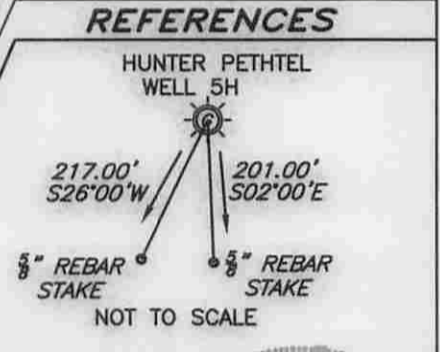
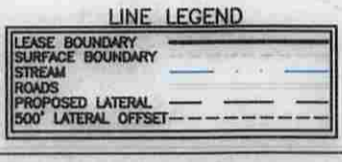
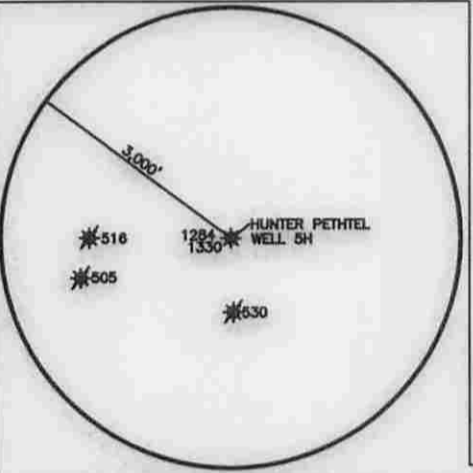
LATITUDE LAT. N39°47'30.00"
 LONGITUDE LONG. W80°42'30.00"
 5,182'
 3,559'

HUNTER PETHTEL WELL 5H

HUNTER PETHTEL WELL 5H SURFACE HOLE	
STATE PLANE NAD 27	N 469180.80
WV NORTH ZONE	E 1655281.30
LAT AND LONG DEC.	N 39.781704
UTM (NAD 83)ZONE 17	N 4403573.4
METERS	E 523427.6
HUNTER PETHTEL WELL 5H LANDING POINT	
STATE PLANE NAD 27	N 468791.30
WV NORTH ZONE	E 1655922.23
LAT AND LONG DEC.	N 39.780659
UTM (NAD 83)ZONE 17	N 4403458.0
METERS	E 523625.1
HUNTER PETHTEL WELL 5H BOTTOM HOLE	
STATE PLANE NAD 27	N 464849.74
WV NORTH ZONE	E 1657865.64
LAT AND LONG DEC.	N 39.769911
UTM (NAD 83)ZONE 17	N 4402267.1
METERS	E 524237.2



- NOTES:
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WEST VIRGINIA STATE PLANE COORDINATE SYSTEM, NORTH ZONE NAD 27
 2. WELL LOCATION REFERENCES ARE BASED ON MAGNETIC MERIDIAN.
 3. BOUNDARIES SHOWN HEREDIN DERIVED FROM DEEDS, TAX MAPS AND FIELD LOCATION AND ARE NOT INTENDED TO INFER A FULL BOUNDARY SURVEY.
 4. SURFACE OWNERSHIP INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MARSHALL COUNTY IN JANUARY 2015 THROUGH FEBRUARY 2015.
 5. WELL COORDINATES ESTABLISHED BY SURFOOT GPS UNIT.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 15-0040
 DRAWING NO. HUNTER PETHTEL 5H
 SCALE 1"=2,500'
 MINIMUM DEGREE OF ACCURACY 1 IN 2500
 PROVEN SOURCE OF ELEVATION GPS
 SUB FOOT UNIT

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

(SIGNED) Joseph L. Crowder
 P.S. 12610 R.P.E. _____

POTESTA & ASSOCIATES, INC.
 ENGINEERS AND ENVIRONMENTAL CONSULTANTS
 7012 MacCubbin Ave. SE, Charleston, WV 25304
 TEL: (804) 348-1400 FAX: (804) 348-9081
 E-Mail Address: potesta@potesta.com



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

DATE JUNE 22, 20 15
 OPERATOR'S WELL NO. HUNTER PETHTEL
 API WELL NO. 47 051 PERMIT 018666 H6A
 STATE 47 COUNTY 051 PERMIT 018666 H6A

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 755 WATERSHED FISH CREEK
 DISTRICT MEADE COUNTY MARSHALL
 QUADRANGLE GLEN EASTON WV 7.5'
 SURFACE OWNER DENNIS W. HUNTER ACREAGE 190.12
 OIL & GAS ROYALTY OWNER DENNIS W. HUNTER et al LEASE ACREAGE 528±
 LEASE NO. 10/02/2015

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION MARCELLUS SHALE ESTIMATED DEPTH 12,380' MD/6,250' TVD
 WELLOPERATOR STONE ENERGY CORPORATION DESIGNATED AGENT TIM MCGREGOR
 ADDRESS P.O. BOX 52807 ADDRESS 1300 FORT PIERPONT DR., SUITE 201
LAFAYETTE, LA. 70508 MORGANTOWN WV 26508

FORM WW-6

COUNTY NAME
 PERMIT

**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				

4705101866

**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

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Office of Oil & Gas
AUG 26 2015

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

Well Operator: _____ Stone Energy Corporation
 By: _____
 Its: _____ Land Manager / Special Counsel

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
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	A
Central Michigan Exploration, LLC	Stone Energy Corporation	1/8	21/356	9-13-6	B
Suzy Walker	Stone Energy Corporation	1/8	859/591	9-13-6	B
Richard Cunningham	Stone Energy Corporation	1/8	859/595	9-13-6	B
Linda Danley	Stone Energy Corporation	1/8	859/593	9-13-6	B
Central Michigan Exploration, LLC	Stone Energy Corporation	1/8	21/288	9-13-7	C
Suzy Walker	Stone Energy Corporation	1/8	870/139	9-13-7	C
Richard Cunningham	Stone Energy Corporation	1/8	870/122	9-13-7	C
Linda Danley	Stone Energy Corporation	1/8	870/141	9-13-7	C
Robert L. Shutler	Stone Energy Corporation	1/8	702/306	9-13-8	D
Mary A. Fox	Stone Energy Corporation	1/8	872/357	9-13-23	E
Thomas John Fox	Stone Energy Corporation	1/8	872/355	9-13-23	E
Louis T. Fox	Stone Energy Corporation	1/8	872/353	9-13-23	E
Paul G. Fox	Stone Energy Corporation	1/8	872/351	9-13-23	E
Mark H. Fox	Stone Energy Corporation	1/8	872/349	9-13-23	E
David E. Fox	Stone Energy Corporation	1/8	872/347	9-13-23	E
Chevron USA, Inc.	Stone Energy Corporation	1/8	33/325	9-13-22.2	F
Chevron USA, Inc.	Stone Energy Corporation	1/8	33/325	9-13-22.1	G
Chevron USA, Inc	Stone Energy Corporation	1/8	33/325	9-13-22	H
Tricycle, LLC	Stone Energy Corporation	1/8	Memorandum Included	9-13-22	H
Perkins Oil & Gas, Inc.	Stone Energy Corporation	1/8	26/322	9-13-21	I

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:

Well Operator Stone Energy Corporation
 By Roger L. Shutler
 Title Land Manager/Special Counsel

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MEMORANDUM OF LEASE

This Memorandum of Lease is made and entered into on the 10th day of July, 2015, by and between Tricycle, LLC, as Lessor, and **Stone Energy Corporation**, 625 East Kaliste Saloom Road Lafayette, LA 70508, c/o Land Department, a Delaware corporation licensed to do business in West Virginia as a foreign corporation, as Lessee.

Whereas, by that Oil and Gas Lease dated July 10, 2015, Lessor agreed to lease to Lessee and Lessee agreed to lease from Lessor certain oil and gas rights in that certain tract or parcel of land situate in Meade District, Marshall County, West Virginia, containing 42.27 acres, more or less, which is identified on the tax map as Map # 13, Parcel(s) # 22, being the same real property interest and estate that was conveyed to Lessor by that certain deed dated the 20th day of August, 2013, and of record in the Clerk’s Office of Marshall County, West Virginia in Deed Book 804, at page 532; provided however, that such description is intended to include all strips, tracts or parcels of land now owned or hereafter acquired by Lessor that are contiguous with or adjacent to the lands described above, and all interests in the lands described above now owned or hereafter acquired by Lessor, as to those depths set forth in Paragraph 6 below (“Leased Premises”).

Whereas, the Lease shall remain in force for a primary term of five (5) years from the 10th day of July, 2015, and as long thereafter as either Oil or Gas are produced in paying quantities from the Leased Premises or property unitized therewith.

Now, therefore, witnesseth: That in accordance with and pursuant to the provisions of West Virginia Code § 40-1-8, as in effect as of the date of this Memorandum, Lessor and Lessee hereby set forth the following information with respect to that certain Lease Agreement entered into and made by and between Lessor and Lessee:

1. LESSOR: Tricycle, LLC
2. LESSEE: Stone Energy Corporation
3. LESSOR’S ADDRESS: 908 Briarwood Street, Morgantown, WV 26505
4. LESSEE’S ADDRESS: c/o Land Department, 625 East Kaliste Saloom Road, Lafayette, LA 70508
5. LEASE AGREEMENT EXECUTION DATE: July 10, 2015
6. DEPTHS COVERED: All Depths
7. LEASE TERM:
 - (a) COMMENCEMENT DATE: July 10, 2015
 - (b) TERMINATION DATE: July 10, 2020 unless either Oil or Gas are produced in paying quantities from the Leased Premises or property unitized therewith.
 - (c) EXTENSION PERIOD OPTION: [yes/no]; if yes:
 - (i) [date extension period may be exercised]; N/A
 - (ii) [term of extension]; N/A
 - (iii) [maximum date of extensions]; or N/A
 - (iv) [number of extension periods]. N/A

4705101866

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IN WITNESS WHEREOF, Lessor and Lessee have caused this Memorandum to be executed and effective as of the date first set forth above.

[Signature Page Follows]

10/02/2015

LESSOR

Tricycle, LLC
A West Virginia limited liability company

BY: _____
Robert W. Wheeler

ITS: Member

BY: *Bruce R. Wheeler*
Bruce R. Wheeler

ITS: Member

4705101866

BY: _____
George B. Wheeler

ITS: Member

Stone Energy Corporation,
a Delaware Corporation

By: *RLC*
Roger L. Cutright,
Land Manager and Special Counsel

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AUG 26 2015

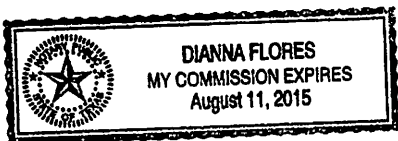
ACKNOWLEDGMENT BY LESSOR

STATE OF TEXAS,

COUNTY OF Travis,

The foregoing instrument was acknowledged before me on this 23 day of July, 2015 by Bruce Wheeler, Lessor.

{SEAL}



Dianna Flores
Notary Public
My Commission expires: 8-11-15 10/02/2015

LESSOR

Tricycle, LLC
A West Virginia limited liability company

BY: _____
Robert W. Wheeler

ITS: Member

4705101866

BY: _____
Bruce R. Wheeler

ITS: Member

BY: George B. Wheeler
George B. Wheeler

ITS: Member

Stone Energy Corporation,
a Delaware Corporation

By: RLC
Roger L. Cutright,
Land Manager and Special Counsel

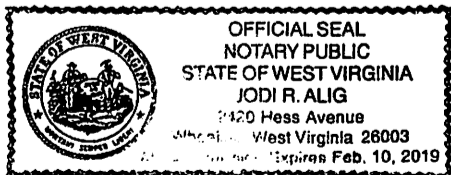
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Office of Oil & Gas
AUG 26 2015

ACKNOWLEDGMENT BY LESSOR

STATE OF West Virginia,
COUNTY OF Ohio,

The foregoing instrument was acknowledged before me on this 22nd day of July, 2015 by George B. Wheeler, Lessor.

{SEAL}



Jodi R. Alig
Notary Public
My Commission expires: 2-10-19 10/02/2015

LESSOR

Tricycle, LLC
A West Virginia limited liability company

BY: Robert W. Wheeler
Robert W. Wheeler

ITS: Member

BY: _____
Bruce R. Wheeler

ITS: Member

BY: _____
George B. Wheeler

ITS: Member

4705101866

Stone Energy Corporation,
a Delaware Corporation

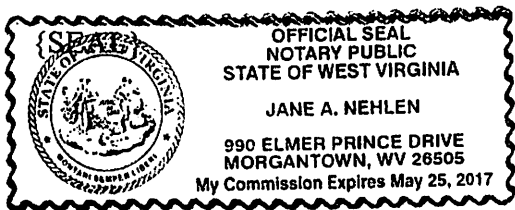
By: RLC
Roger L. Cutright,
Land Manager and Special Counsel

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ACKNOWLEDGMENT BY LESSOR

STATE OF WV,
COUNTY OF monongalia

The foregoing instrument was acknowledged before me on this 22 day of July, 2015 by Robert W. Wheeler, Lessor.



Jane A. Nehlen
Notary Public
My Commission expires: 5-25-2017 10/02/2015

Road King



4705101866

July 2, 2015

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

4705101866

RE: Proposed Hunter/Pethtel #5H Marshall 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 Laura and Wade:

You will see that we are crossing under route 74 two times.

The lessors for tract 13 – 7, 13 – 8 & 13 - 20 own the minerals under this highway; which are on the WW6A1 form.

The lessors for tracts 13 – 22 & 13– 21 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

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10/02/2015

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

Date of Notice Certification: 07/02/2015

4705101860
API No. 47- 051 -
Operator's Well No. #5H
Well Pad Name: Hunter-Pethtel

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>523,428</u>
County:	<u>Marshall</u>		Northing:	<u>4,403,573</u>
District:	<u>Meade</u>	Public Road Access:		<u>Marshall County Route 74</u>
Quadrangle:	<u>Glen Easton</u>	Generally used farm name:		<u>Hunter, Dennis W.</u>
Watershed:	<u>Fish Creek</u>			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 40px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
---	---

Required Attachments:

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 attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under 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.

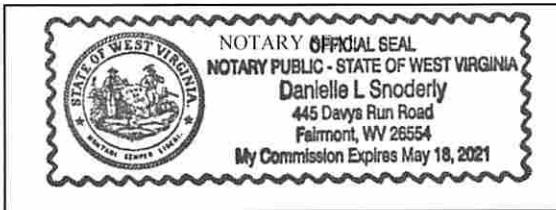
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10/02/2015

Certification of Notice is hereby given:

THEREFORE, I Roger L. Cutright, 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:	<u>Stone Energy Corporation</u>	Address:	<u>4705101866</u> 300 Fort Pierpont Drive - Suite 201
By:	<u>Roger L. Cutright</u>		Morgantown, WV 26508
Its:	<u>Land Manager / Special Counsel</u>	Facsimile:	<u>(337) 521-9911</u>
Telephone:	<u>(304) 225-1600</u>	Email:	<u>CutrightRL@StoneEnergy.com</u>



Subscribed and sworn before me this 24th day of August 2015.
Danielle L. Snoderly Notary Public
 My Commission Expires 5/18/2021

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.

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10/02/2015

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: 07/02/2015 **Date Permit Application Filed:** 07/03/2015

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

4705101866

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

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)
Name: Mr. & Mrs. Dennis Hunter
Address: 9201 Fish Creek Road
Glen Easton, WV 26039

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: Mr. & Mrs. Frank Pethtel
Address: 9845 Fish Creek Road
Glen Easton, WV 26039

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: Mr. & Mrs. Frank Pethtel
Address: 9201 Fish Creek Road
Glen Easton, WV 26039

COAL OWNER OR LESSEE
Name: Consolidation Coal Company
Address: 1000 CONSOL Energy Drive
Canonsburg, Pa 15317

COAL OPERATOR
Name: Consolidation Coal Company
Address: 1000 CONSOL Energy Drive
Canonsburg, Pa 15317

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: See Attached List
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

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*Please attach additional forms if necessary

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7015 1520 0003 0602 2475

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Certified Mail Fee
\$ 7.89

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postmark
Here

8-24-15

Postage
\$

Total Postage and Fees
\$

Mr. and Mrs. Dennis Hunter

Sent To
9201 Fish Creek Road ✓
Street and Apt. No., or PO Box No.
Glen Easton, WV 26039
City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

2942 2002 0602 2482

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Certified Mail Fee
\$ 7.67

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postmark
Here

8-24-15

Postage
\$

Total Postage and Fees
\$

Consol Energy, Inc.

Sent To
CNX Center Attn: Analyst ✓
Street and Apt. No., or PO Box No.
1000 CONSOL Energy Drive
City, State, ZIP+4®
Cannonsburg, PA 15317

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 1520 0003 0602 2466

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Certified Mail Fee
\$ 7.67

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postmark
Here

8-24-15

Postage
\$

Total Postage and Fees
\$

Mr. and Mrs. Frank Pethtel

Sent To
9845 Fish Creek Road ✓
Street and Apt. No., or PO Box No.
Glen Easton, WV 26039
City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

4705101866

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10/02/2015

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.

4705101866

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/oil-and-gas/pages/default.aspx.

Well Location Restrictions

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 upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. 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 of this 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 restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by 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

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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 relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability 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 written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Received
Office of Oil & Gas
AUG 26 2015

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. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

10/02/2015

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.

Received
Office of Oil & Gas
AUG 26 2015

10/02/2015

Notice is hereby given by:

Well Operator: Stone Energy Corporation
Telephone: (304) 225-1600
Email: CutrightRL@StoneEnergy.com

Address: 300 Fort Pierpont Drive - Suite 201
Morgantown, WV 26508
Facsimile: (337) 521-9911

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.



Subscribed and sworn before me this 24th day of August 2015.
Danielle L. Snoderly Notary Public
My Commission Expires 5/18/2021

4705101866

Received
Office of Oil & Gas
AUG 26 2015

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**

4705101866

**Received
Office of Oil & Gas
AUG 26 2015**

10/02/2015

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

4705101866

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".

Received
Office of Oil & Gas
AUG 26 2015

10/02/2015

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

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: 1/29/2015 **Date of Planned Entry:** 2/9/2015

Delivery method pursuant to West Virginia Code § 22-6A-10a

- PERSONAL SERVICE
 REGISTERED MAIL
 METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(S)

Name: Mr. & Mrs. Dennis Hunter

Address: 9201 Fish Creek Road
Glen Easton, WV 26039

Name: Mr. Frank Pethel

Address: 9845 Fish Creek Road
Glen Easton, WV 26039

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: Consolidation Coal Company

Address: 1000 Consol Drive
Canonsburg, Pa 15317

MINERAL OWNER(S)

Name: Mr. & Mrs. Dennis Hunter

Address: 9201 Fish Creek Road
Glen Easton, WV 26039

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>4,403,573 / 523,428</u>
County: <u>Marshall</u>	Public Road Access: <u>Marshall County Route 74</u>
District: <u>Meade</u>	Watershed: <u>Fish Creek</u>
Quadrangle: <u>Glen Easton</u>	Generally used farm name: <u>Hunter, Dennis W.</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: Stone Energy Corporation

Telephone: (304) 225-1600

Email: CutrightRL@StoneEnergy.com

Address: 300 Fort Pierpont Drive - Suite 201
Morgantown, WV 26508

Facsimile: (337) 521-9911

Received
Office of Oil & Gas

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.

AUG 26 2015

10/02/2015



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,


Tim McGregor

Land Coordinator
Appalachia Basin
Stone Energy Corporation
(304) 225-1788 (Tim)/(304) 225-1775 (Ofie)/304-225-1630 (Kathy)
mgregortp@stoneenergy.com

Received
Office of Oil & Gas
AUG 26 2015

10/02/2015



6000 Hampton Center
Suite "B"
Morgantown WV, 26505

January 29, 2015

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

4705101866

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.

Sincerely,

Tim McGregor
Land Coordinator
Appalachia Basin
Stone Energy Corporation
(304) 225-1788 (Tim)/(304) 225-1775 (Ofie)/304-225-1630 (Kathy)
mgregortp@stoneenergy.com

Received
Office of Oil & Gas

AUG 26 2015

10/02/2015

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 07/02/2015 **Date Permit Application Filed:** 07/03/2015

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

4705101866

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: Dennis W. Hunter
Address: 9201 Fish Creek Road
Glen Easton, WV 26039

Name: Frank Pethel
Address: 9845 Fish Creek Road
Glen Easton, WV 26039

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>523,428</u>
County: <u>Marshall</u>	UTM NAD 83 Northing: <u>4,403,573</u>
District: <u>Meade</u>	Public Road Access: <u>Marshall County Route 74</u>
Quadrangle: <u>Glen Easton</u>	Generally used farm name: <u>Hunter, Dennis W.</u>
Watershed: <u>Fish Creek</u>	

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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/oil-and-gas/pages/default.aspx.

Well Operator: Stone Energy Corporation
Telephone: (304) 225-1600
Email: CutrightRL@StoneEnergy.com

Address: 300 Fort Pierpont Drive - Suite 201
Morgantown, WV 26508
Facsimile: (337) 521-9911

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.

Received
Office of Oil & Gas

AUG 26 2015

10/02/2015

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

WW-6RW
(1-12)

API NO. 47- 051 -
OPERATOR WELL NO# 4H, 5H, 6H, 7H, 8H,
Well Pad Name: Hunter-Pethel 9H, 10H

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL LOCATION RESTRICTION WAIVER

The well operator, Stone Energy Corporation is applying for a permit from the State of West Virginia to conduct oil or gas well work. Please be advised that well work permits are valid for twenty-four (24) months.

Well Location Restrictions

Pursuant to West Virginia Code § 22-6A-12(a), Wells may not be drilled within two hundred (200) 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

I, Frank Pethel, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

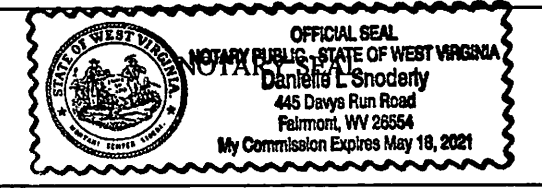
State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>523,417</u>
County:	<u>Marshall</u>	UTM NAD 83 Northing:	<u>4,403,568</u>
District:	<u>Meade</u>	Public Road Access:	<u>Marshall County Route 74</u>
Quadrangle:	<u>Glen Easton</u>	Generally used farm name:	<u>Hunter, Dennis W.</u>
Watershed:	<u>Fish Creek</u>		

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

<p>WELL SITE RESTRICTIONS BEING WAIVED</p> <p>*Please check all that apply</p> <p><input checked="" type="checkbox"/> EXISTING WATER WELLS</p> <p><input type="checkbox"/> DEVELOPED SPRINGS</p> <p><input checked="" type="checkbox"/> DWELLINGS</p> <p><input checked="" type="checkbox"/> AGRICULTURAL BUILDINGS</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: <u>Frank E. Pethel</u></p> <p>Print Name: <u>FRANK E. PETHTEL</u></p> <p>Date: <u>5/28/2015</u></p> <p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: <u>STONE Energy Corporation</u></p> <p>By: <u>Timothy P. McGregor</u></p> <p>Its: <u>LAND Coordinator</u></p> <p>Signature: <u>[Signature]</u></p> <p>Date: <u>7/14/2015</u></p>
--	---

Received
Office of Oil & Gas
AUG 26 2015

Well Operator: <u>Stone Energy Corporation</u>	Signature: <u>[Signature]</u>
By: <u>Timothy P. McGregor</u>	Telephone: <u>(304) 225-1600</u>
Its: <u>Land Coordinator</u>	



Subscribed and sworn before me this 14th day of July 2015
Danielle L. Snodery Notary Public
My Commission Expires 5/18/2021

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

STATE OF WEST VIRGINIA, MARSHALL COUNTY, SCT.:

I, JAN PEST, Clerk of the County Commission of said County, do hereby certify that the annexed writing, bearing date on the 14th day of July, 2015, was presented for and by me, admitted to record in my office upon the above certificate as to the parties therein named this 15th day of July, 2015 at 1:41 o'clock P.M.

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

WW-6RW
(1-12)

API NO. 47- 051 -
OPERATOR WELL NO: #24H, 5H, 6H, 7H, 8H,
Well Pad Name: Hunter-Pethel 9H, 10H

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL LOCATION RESTRICTION WAIVER

The well operator, Stone Energy Corporation is applying for a permit from the State of West Virginia to conduct oil or gas well work. Please be advised that well work permits are valid for twenty-four (24) months.

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.

WAIVER

I, Dennis Hunter, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 523,417
County: Marshall UTM NAD 83 Northing: 4,403,568
District: Meade Public Road Access: Marshall County Route 74
Quadrangle: Glen Easton Generally used farm name: Hunter, Dennis W.
Watershed: Fish Creek

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

WELL SITE RESTRICTIONS BEING WAIVED

*Please check all that apply

- EXISTING WATER WELLS
- DEVELOPED SPRINGS
- DWELLINGS
- AGRICULTURAL BUILDINGS

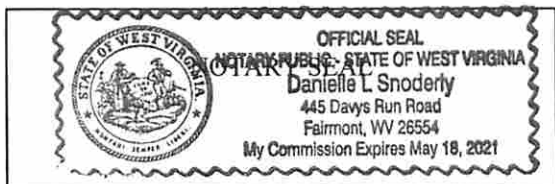
Received
Office of Oil & Gas
AUG 26 2015

FOR EXECUTION BY A NATURAL PERSON

Signature: Dennis W. Hunter ✓
Print Name: Dennis W. Hunter
Date: 5/28/15
FOR EXECUTION BY A CORPORATION, ETC.
Company: Stone Energy Corporation
By: Timothy P. McGregor
Its: Land Coordinator
Signature: [Signature]
Date: 7/14/2015

Well Operator: Stone Energy Corporation
By: Timothy P. McGregor
Its: Land Coordinator

Signature: [Signature]
Telephone: (304) 225-1600



Subscribed and sworn before me this 14th day of July 2015
[Signature] Notary Public
My Commission Expires 5/18/2021

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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 depprivacy@dep.gov 10/02/2015

STATE OF WEST VIRGINIA, MARSHALL COUNTY, SCT.:

I, JAN PEST, Clerk of the County Commission of said County, do hereby certify that the annexed writing, bearing date on the 14th day of July, 2015, was presented for and by me, admitted to record in my office upon the above certificate as to the parties therein named this 15th day of July, 2015 1:38 o'clock P.

[Signature]



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

470510186

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

Hunter-Pethtel 2H Hunter-Pethtel 4H Hunter-Pethtel 5H Hunter-Pethtel 6H
Hunter-Pethtel 8H Hunter-Pethtel 9H Hunter-Pethtel 10H Hunter-Pethtel 12H
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.

Very Truly Yours,

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

Cc: Tim McGregor
Stone Energy Corporation
CH, OM, D-6
File

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STONE ENERGY CORPORATION

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, & Proprietary) 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)

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STONE ENERGY CORPORATION WELL PAD CONSTRUCTION PLANS HUNTER-PETHTEL WELL PAD EXTENSION MEADE DISTRICT, MARSHALL COUNTY, WEST VIRGINIA

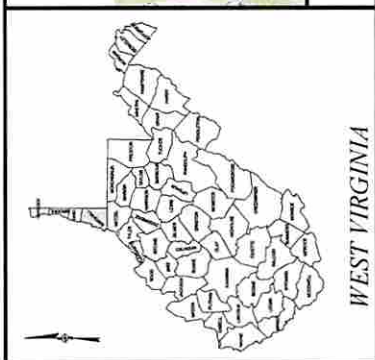
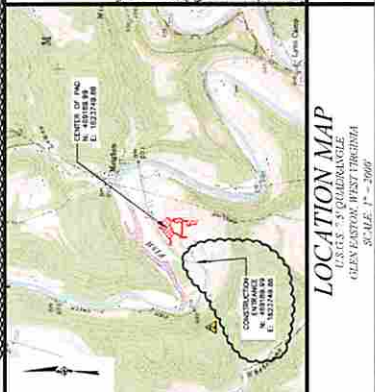
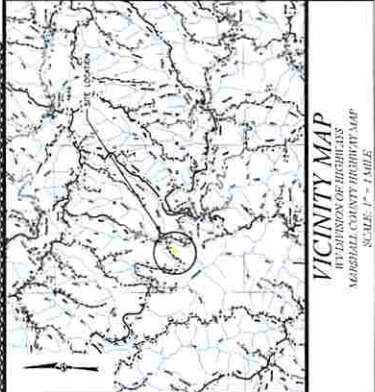
SYMBOL	DESCRIPTION	SCALE
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**WVDEP OOG
ACCEPTED AS-BUILT**
7/10/2016

ISSUE DATE 7/2/15

REGULATORY REVIEW

DRAWING NO.	TITLE
1	INDEX AND COVER SHEET
2	GENERAL NOTES/SEQUENCE OF CONSTRUCTION
3	EXISTING CONDITIONS
3A	PROPOSED SITE PLAN
4	WELLS AND CROSS SECTIONS
4A	MISCELLANEOUS DETAILS
5	RECLAMATION PLAN



POTESTA & ASSOCIATES, INC.
ENGINEERS AND ENVIRONMENTAL CONSULTANTS
122 Lakewood Drive, Martinsburg, WV 26408
TEL: (304) 252-2246 FAX: (304) 252-2548
E-Mail Address: potestapoints.com

INDEX AND COVER SHEET
HUNTER-PETHTEL WELL PAD EXTENSION
MARSHALL COUNTY, WEST VIRGINIA

1

Drawing No.

POTESTA & ASSOCIATES, INC.
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E-Mail Address: potestapoints.com

POTESTA

STONE ENERGY CORPORATION
1300 FORT PERCOTT DR., SUITE 201
MORGANTOWN, WV 26508

No.	Date	Revision
1	7-2-15	ISSUE FOR REGULATORY REVIEW
2	7-2-15	ISSUE FOR REGULATORY REVIEW
3	7-2-15	ISSUE FOR REGULATORY REVIEW

REV.	DATE	DESCRIPTION
1	7-2-15	ISSUE FOR REGULATORY REVIEW
2	7-2-15	ISSUE FOR REGULATORY REVIEW
3	7-2-15	ISSUE FOR REGULATORY REVIEW



Office of Oil and Gas

West Virginia Department of
Environmental Protection
Office of Oil & Gas
601 57th Street SE
Charleston, WV 25304-2345

DEP Office Use only	
Date Received by Oil & Gas:	9/30/15
Assigned Impoundment ID #:	051-FWA-00009

Permit Associated Impoundment / Pit Registration

Instruction: This form is to be used to register impoundments or waste pits, greater than 5,000 bbls, that are associated with a WVDEP, Office of Oil and Gas, well drilling permit. An **associated impoundment or pit** means it has been designed and included in the well drilling permit application, will follow the reclamation time frame of well work permit, and will be approved in conjunction with the well work permit. An impoundment ID number will be assigned by WVDEP, Office of Oil and Gas, to all impoundments and pits. This impoundment ID number will be sent to the applicant following receipt of this form by WVDEP. Please reference this impoundment ID number with all future correspondence and reference to this impoundment. Conditions as described in W.Va. State Rule §35-4-21 will be followed as it relates to impoundments and pits.

Section 1 – Operator and Facility Information

Operator Name:	Stone Energy Corporation		
Operator ID:	494490923		
Name of Structure *	Hunter-Pethtel FWI		
Address: Street	1300 Fort Pierpont Drive - Suite 201		
City:	Morgantown	State:	WV Zip: 26508
Contact Name:	Rich Kovar II	Contact Title:	Construction Foreman
Contact Phone:	(304) 225-1646	Contact Email:	KovarRG@StoneEnergy.com

Section 2 – Engineering / Design Contractor Information

Design will be contracted <input type="checkbox"/> Designed in-house <input type="checkbox"/>	This FWI was built prior to the enactment of HB-401		
Company Name:	MSES		
Address: Street	609 West Main Street, Build 2		
City:	Clarksburg	State:	WV Zip: 26302
Contact Name:		Contact Title:	
Contact Phone:	(304) 624-9700	Contact Email:	
Certifying Professional Engineer:			
Professional Engineer Registration Number:			

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Section 3 - Impoundment / Pit Information

Type of Structure. Check one of two choices below:		
<input checked="" type="checkbox"/> Freshwater Impoundment	<input type="checkbox"/> Waste Pit	
Note: <u>Any</u> waste in a pit will make it a waste pit.		
Name of Structure* <u>Hunter-Pethtel FWI</u>		
County: <u>Marshall</u>	District: <u>Meade</u>	
USGS 7.5' Quad Map Name: <u>Glen Easton</u>		
Farm Name: <u>Hunter, Dennis W.</u>		
Pad Name: <u>Hunter-Pethtel</u>		
Surface Owner Name: <u>Dennis W. Hunter</u>		
Physical Description of Location: <u>Site is located ~9.2 miles from WV Route 2 on the right side of County Route 74.</u>		
(Note: Give general location, example: 2 miles south of Smalltown, WV on Rt. 22, left on Buffalo Creek)		
Watershed (nearest perennial): <u>Fish Creek</u>		
Distance (Drainage Distance) to nearest perennial stream: <u>~475'</u>		
Location Coordinates (NAD83, Decimal Degrees (xx.xxxx, -xx.xxxx))		
Latitude: <u>39.781025</u>	Longitude (Use negative sign): <u>-80.727728</u>	
UTM Coordinates : <u>523,315.12</u>	<u>E</u>	<u>4,403,489.02</u> <u>N</u>
Access Road Coordinates (junction of state highway access)		
Latitude: <u>39.7790545</u>	Longitude (Use negative sign): <u>-80.730707</u>	
UTM Coordinates : <u>523,060.73</u>	<u>E</u>	<u>4,403269.57</u> <u>N</u>
Approximate Dimensions		
Length: <u>140'</u>	Width: <u>140'</u>	Height: <u>10'</u>
Note: If irregularly shaped, give approximate dimensions of long axis.		
Total Capacity – Provide all units of measure below:		
Barrels: <u>32,414</u>	Gallons: <u>1,361,396</u>	Acre-Feet: <u>4.18</u>
Capacity with 2' Freeboard – Provide all units of measure below:		
Barrels: <u>25,931</u>	Gallons: <u>1,089,102</u>	Acre-Feet: <u>3.34</u>
Incised volume:		
Barrels: <u>0</u>	Gallons: <u>0</u>	Acre-Feet: <u>0</u>
Net impounded volume: (Total volume less incised volume.)		
Barrels: <u>25,931</u>	Gallons: <u>1,089,102</u>	Acre-Feet: <u>3.34</u>
Anticipated Construction Start Date (estimation, non-binding): <u>Built in 2010 prior to HB-201</u>		
Note: No construction may begin on Associated impoundment until WVDEP issues the drilling permit. At least 7 calendar days prior to confirmed construction start date, notify the Office of Oil & Gas, and the local Oil and Gas inspector of construction start date. Use form IMP-2, "Notification of Impoundment / Pit Construction."		

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Section 4 - Associated Well Numbers and API Numbers. List associated well numbers and API number. API numbers may not be assigned at time of registering this impoundment, if so list as pending.

Well Number(s):	API Number(s) – If issued:
Hunter #1	47-051-01284
Hunter-Pethtel #1H	47-051-01330
Hunter-Pethtel #4H	47-051-01847
Hunter-Pethtel #5H	Pending
Hunter-Pethtel #8H	Pending
Hunter-Pethtel #9H	47-051-01846
Hunter-Pethtel #10H	Pending

Section 5 - Required Information Checklist To Register Permit Associated Impoundments or Pits. Include the following information and plans with application.

- Engineered Construction Plans, certified by WV Registered P.E.
- Erosion and Sediment Control Plan, certified by WV Registered P.E.
- Reclamation Plan, certified by WV Registered P.E.

Section 6 – Dam Standard Qualifying Evaluation

- The design of this structure has been evaluated by the applicant to determine it does NOT qualify to be defined as a dam, under W.Va Rule §47-34. If the design of this structure qualifies it to be defined as a dam, all permits regulating dams will be required prior to registering the structure with the Office of Oil and Gas. The dam standard, from the WVDEP, Div. Of Water and Waste, is available for review at: <http://www.dep.wv.gov/WWE/ee/ds/Pages/default.aspx>

Section 7 –Comments – Provide any additional comments concerning this project

The Hunter-Pethtel FWI was constructed prior to the passage of HB-401. As a result a signed engineering plan was not provided by the engineering firm.

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Section 8 - Application Certification

I hereby certify that the information listed above is true and accurate. I understand that this pit/impoundment is to be constructed only in a location appropriate for the storage of water, including wastewater, and will be constructed in accordance with plans designed and certified by a West Virginia registered professional engineer. I further recognize that all required plans have been submitted to the Office of Oil and Gas. I understand that after construction, and prior to any fluid being placed in the pit/impoundment, it shall be inspected by a West Virginia registered professional engineer to ensure compliance with the certified design and construction plan, and that the professional engineer shall certify that this structure was constructed in accordance with design and construction plans. I understand that such certification shall be in writing to the Chief and that no fluids may be placed in the pit/impoundment until the certification has been filed with the chief. I agree that this pit/impoundment shall be constructed, maintained, operated and closed in accordance with all applicable laws and rules, including the requirements of W. Va. Code R § 35-4-2 .

Name: W. Lee HornsbyTitle: Drilling Engineer, Appalachia

Signature: _____

Taken, subscribed and sworn to before me this, _____ Day of _____ 20 _____

Notary Public: _____

My commission expires: _____

Notary Seal:

Section 9. Submittal Instructions

Submit original paper copy of application to:

West Virginia Department of Environmental Protection
Office of Oil and Gas
Impoundment Registration
601 57th Street, SE
Charleston WV 25304

Email PDF file format of this application and all related engineering Plans to :
Depimpoundments@wv.gov

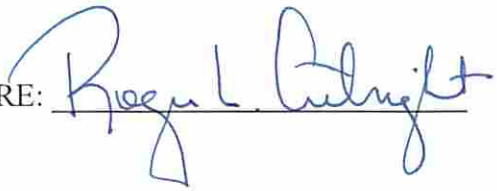
* Name of Structure: Please give the pit or impoundment a unique name, and use the name consistently when referring to this structure. They are often given the same name as the pad, with a modifier to identify freshwater or flowback water. If more than one pit or impoundment is associated with this pad, use modifier to identify these as well, such as #1, #2, etc. Examples: ABC Pad Freshwater Impoundment, ABC Pad Flowback Pit #1, ABC Pad Flowback Pit #2.

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OPERATOR: Stone Energy Corporation WELL NO: #5H

PAD NAME: Hunter-Pethtel

REVIEWED BY: Roger L. Cutright

SIGNATURE: 

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

470510186-

Well Restrictions

NA At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR

NA DEP Waiver and Permit Conditions

NA At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR

NA DEP Waiver and Permit Conditions

NA At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR

NA DEP Waiver and Permit Conditions

NA At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR

NA Surface Owner Waiver and Recorded with County Clerk, OR

NA DEP Variance and Permit Conditions

NA At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR

NA Surface Owner Waiver and Recorded with County Clerk, OR

NA DEP Variance and Permit Conditions

NA At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR

NA Surface Owner Waiver and Recorded with County Clerk, OR

NA DEP Variance and Permit Conditions

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