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**west virginia** department of environmental protection

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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](http://www.dep.wv.gov)

October 19, 2015

**WELL WORK PERMIT**

**Horizontal 6A Well**

This permit, API Well Number: 47-5101859, 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: HUNTER PETHTEL 8H  
Farm Name: HUNTER, DENNIS W.

**API Well Number: 47-5101859**

**Permit Type: Horizontal 6A Well**

Date Issued: 10/19/2015

**Promoting a healthy environment.**

**10/23/2015**

**PERMIT CONDITIONS 4705101359**

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.

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**CONDITIONS**

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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. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to [DEPOOGNotify@wv.gov](mailto:DEPOOGNotify@wv.gov).

WW-6B  
(04/15)

API NO. 47- 051 -  
OPERATOR WELL NO. #8H  
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 County District Quadrangle

2) Operator's Well Number: #8H Well Pad Name: Hunter-Pethtel

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

4) Elevation, current ground: 755' Elevation, proposed post-construction: 755'

5) Well Type (a) Gas X Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_

(b) If Gas Shallow X Deep \_\_\_\_\_  
Horizontal X

6) Existing Pad: Yes or No Yes but being expanded *JW 10/18/15*

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: 12,240' MD

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11) Proposed Horizontal Leg Length: From LP = 5,337' From KOP = 6,768'

**OCT 19 2015**

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

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Environmental Protection

13) Method to Determine Fresh Water Depths: When having to soap wellbore or show of fluid level or 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. #8H  
 Well Pad Name: Hunter-Pethtal

18)

**CASING AND TUBING PROGRAM**

| TYPE         | Size (in) | New or Used | Grade | Weight per ft. (lb/ft) | FOOTAGE: For Drilling (ft) | INTERVALS: Left in Well (ft) | CEMENT: Fill-up (Cu. Ft.)/CTS |
|--------------|-----------|-------------|-------|------------------------|----------------------------|------------------------------|-------------------------------|
| Conductor    | 20.0      | New         | LS    | 94.1 ppf               | 80'                        | 80'                          | 65 - CTS                      |
| Fresh Water  | 13.375    | New         | J55   | 54.5 ppf               | 750'                       | 750'                         | 732 - CTS                     |
| Coal         | 13.375    | New         | J55   | 54.5 ppf               | 750'                       | 750'                         | 732 - CTS                     |
| Intermediate | 9.625     | New         | J55   | 36.0 ppf               | 1,905'                     | 1,905'                       | Lead-484 Tail-315 - CTS       |
| Production   | 5.5       | New         | P110  | 20.0 ppf               |                            | 12,240'                      | 2,892 - CT 1,405'             |
| Tubing       | 2.375     | New         | J55   | 4.7                    |                            | 6,200'                       | N/A                           |
| 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.

*JN 10/18/15*

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

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**PACKERS**

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|             |  |  |  |  |
|-------------|--|--|--|--|
| Kind:       |  |  |  |  |
| Sizes:      |  |  |  |  |
| Depths Set: |  |  |  |  |

WW-6B  
(10/14)

API NO. 47- 051 -  
OPERATOR WELL NO. #8H  
Well Pad Name: Hunter-Pattel

JN 10/18/15

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): 4.89

23) Describe centralizer placement for each casing string:

The fresh water/coal string will incorporate the use of bow spring centralizers beginning on joint 2 to surface on every third joint. The intermediate string will incorporate bow spring centralizers beginning 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.

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

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

25) Proposed borehole conditioning procedures:

-The 17.5" section will be conditioned using air and/or until cuttings are removed from the well bore.  
-Intermediate 12.25" section will be conditioned using air and/or stiff foam until cutting have been removed fro the well bore.  
-The 8.75" section will be conditioned with a minimum of three bottoms up of drilling fluid (mud) and the shakers screens are clear of cuttings.

\*Note: Attach additional sheets as needed.



## WW-9 ADDENDUM

### Drilling Medium Anticipated for This well

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

### Additives to be Used While Drilling

- Common additives when air drilling: KCl (CAS No. 1302-78-9 & 14808-60-7), soda ash (CAS No. 497-19-8), shale stabilizer (CAS No. 67-48-1 & 7732-1835), drilling soap (CAS No. 111-76-2), air hammer/motor lubricant.
- Common water based additives for mud drilling: NaCl (CAS No. 7647-14-5), KCl (CAS No. 7447-40-7), barite (CAS No. 13462-86-7 & 14808-60-7), starch (CAS No. 9005-25-8), PAC (CAS No. 9004-32-4), xanthum gum (CAS No. 11138-66-2), PHPA (CAS No. 64742-47-8), polysaccharide (CAS No. 11138-66-2), sulfonated asphaltic material (CAS No. 269-212-0 & 238-878-4), aluminum silicate (CAS No. 37287-16-4), gilsonite (CAS No. 12002-43-6), graphite (CAS No. 14808-60-7 & 7782-42-5), shale stabilizer (CAS No. 67-48-1 & 7732-18-5), fluid loss control polymers (CAS No. 9004-34-6), viscosity control polymers (CAS No. 11138-66-2 & 107-22-2), soda ash (CAS No. 497-19-8), sodium bicarbonate (CAS No. 144-55-8), NaOH (CAS No. 1310-73-2, 7647-14-5, & 7732-18-5), lime (CAS No. 1305-62-0), gypsum (CAS No. 778-18-9), citric acid (CAS No. 77-92-9), biocide (CAS No. 52-51-7 or 7732-18-5 + 67-56-1 + 141-43-5), CaCO<sub>3</sub> (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.

4705101859

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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

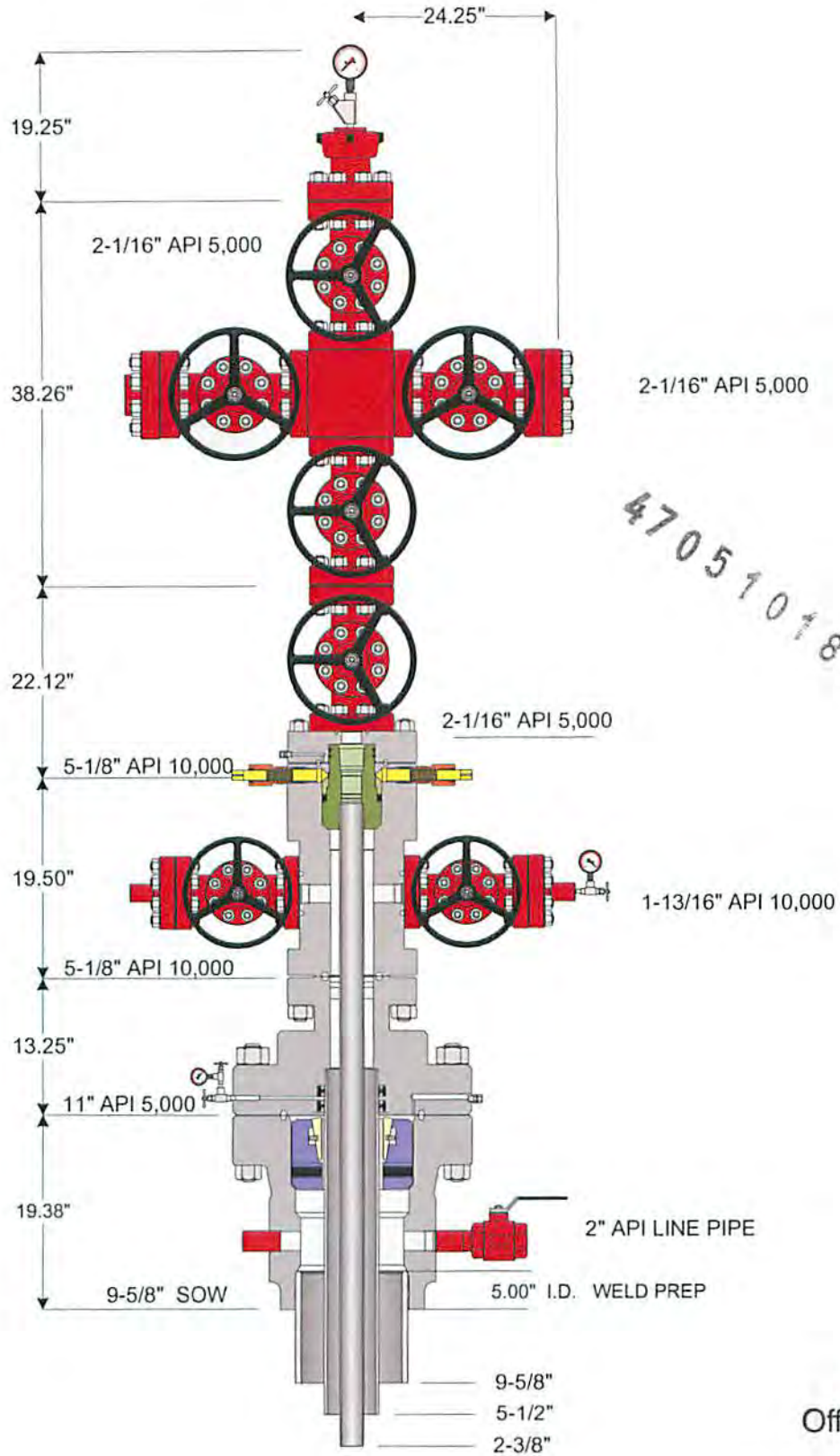
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NOTE: THIS DRAWING IS NOT TO SCALE. THE DIMENSIONS REFLECTED ON THE DRAWING ARE ESTIMATED MEASUREMENTS AND FOR REFERENCE ONLY.



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Customer: STONE ENERGY

Project: 46705

Quote: 99565 v 3  
10/23/2015

Tender, Project or Well: 2011- 2012 CONVENTIONAL MARCELLUS

Date: 07-17-2011

Drawn By: RF



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, 34-121-23995, 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 \_\_\_\_\_)

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

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JUL 06 2015

Subscribed and sworn before me this 2nd day of July, 2015

My commission expires 5/18/2021



WV Department of Environmental Protection

10/23/2015

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

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:                      *Jim Nicholas*

Comments:                     

Title:                      Oil & Gas Inspector                     

Date:                      7/6/2015                     

Field Reviewed?  Yes  No



# Well Site Safety Plan

4705101859 *ju 6/24/15*  
Hunter-Pethtel

Meade District, Marshall County

Hunter-Pethtel 8H

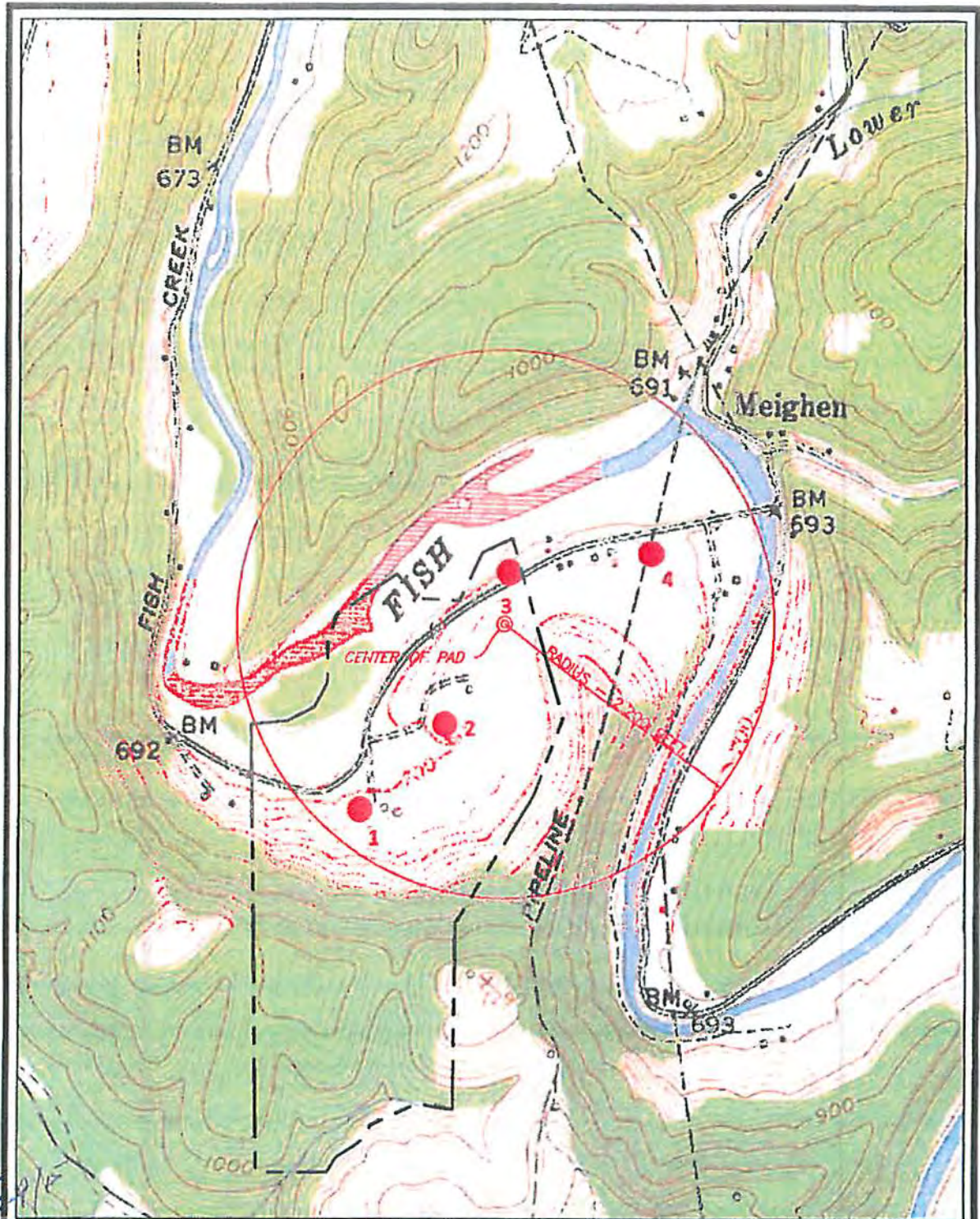
Stone Energy Corporation  
1300 Fort Pierpont Rd  
Suite 201  
Morgantown, West Virginia 26508  
(304)225-1600

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



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

FORM W-9

APRIL 2015

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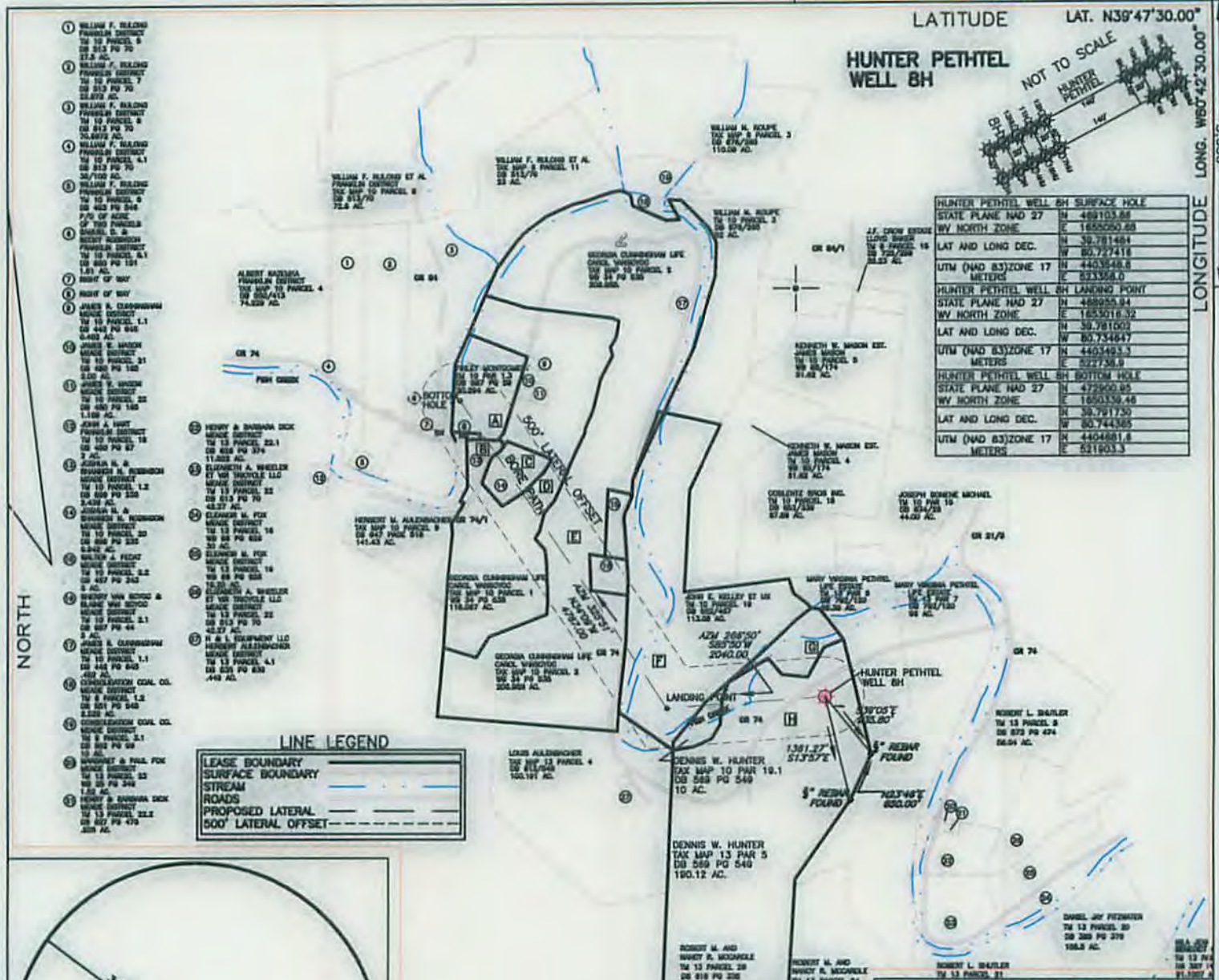
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10/23/2015

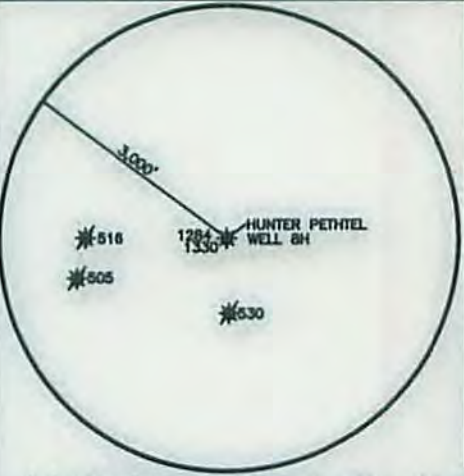
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 LONGITUDE LONG. W80°42'30.00"  
 HUNTER PETHTEL WELL 8H  
 NOT TO SCALE



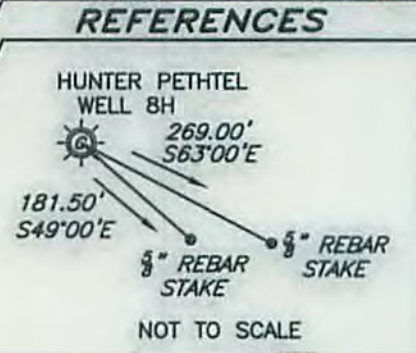
| HUNTER PETHTEL WELL 8H SURFACE HOLE  |              |
|--------------------------------------|--------------|
| STATE PLANE NAD 27                   | N 489103.86  |
| WY NORTH ZONE                        | E 185250.89  |
| LAT AND LONG DEC.                    | N 39.781484  |
|                                      | W 80.727418  |
| UTM (NAD 83) ZONE 17                 | N 4463548.8  |
| METERS                               | E 823558.0   |
| HUNTER PETHTEL WELL 8H LANDING POINT |              |
| STATE PLANE NAD 27                   | N 488958.84  |
| WY NORTH ZONE                        | E 1855016.32 |
| LAT AND LONG DEC.                    | N 39.781000  |
|                                      | W 80.734647  |
| UTM (NAD 83) ZONE 17                 | N 4463493.3  |
| METERS                               | E 822738.9   |
| HUNTER PETHTEL WELL 8H BOTTOM HOLE   |              |
| STATE PLANE NAD 27                   | N 472900.85  |
| WY NORTH ZONE                        | E 1850336.46 |
| LAT AND LONG DEC.                    | N 39.791730  |
|                                      | W 80.744305  |
| UTM (NAD 83) ZONE 17                 | N 4404881.8  |
| METERS                               | E 821803.3   |

LINE LEGEND

|  |                     |
|--|---------------------|
|  | LEASE BOUNDARY      |
|  | SURFACE BOUNDARY    |
|  | STREAM              |
|  | ROADS               |
|  | PROPOSED LATERAL    |
|  | 500' LATERAL OFFSET |



- 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 HEREON 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 SUBFOOT GPS UNIT.



FILE NO. 15-0040  
 DRAWING NO. HUNTER PETHTEL 8H  
 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. 2010 R.P.E.

**POTESTA & ASSOCIATES, INC.**  
 ENGINEERS AND ENVIRONMENTAL CONSULTANTS  
 7018 MacArthur Ave. SE, Charleston, WV 25304  
 TEL: (804) 840-1400 FAX: (804) 840-9001  
 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. 47-051-01859-46A  
 STATE 47 COUNTY 051 PERMIT 10/23/2015

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL  
 (IF "GAS,") PRODUCTION X STORAGE DEEP SHALLOW X  
 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 802±  
 LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X 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 12,240' MD/6,140' TVD  
 WELL OPERATOR 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    |                       |                       |         |           |

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**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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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.

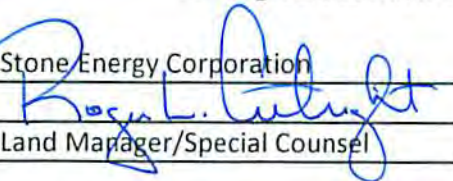
Well Operator: \_\_\_\_\_ Stone Energy Corporation  
 By: Rogel. Luttrell  
 Its: \_\_\_\_\_ Land Manager / Special Counsel

**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 |
|-----------------------------------|--------------------------|---------|-----------|------------|------|
| Chevron USA, Inc                  | Stone Energy Corporation | 1/8     | 33/325    | 9-10-1.3   | A    |
| Chevron USA, Inc                  | Stone Energy Corporation | 1/8     | 33/325    | 9-10-1.2   | B    |
| Chevron USA, Inc                  | Stone Energy Corporation | 1/8     | 33/325    | 9-10-20    | C    |
| Chevron USA, Inc                  | Stone Energy Corporation | 1/8     | 33/325    | 9-10-1     | D    |
| Chevron USA, Inc                  | Stone Energy Corporation | 1/8     | 33/325    | 9-10-2     | E    |
| John E. Kelley & Janet E. Kelley  | Stone Energy Corporation | 1/8     | 693/6     | 9-10-19    | F    |
| Central Michigan Exploration, LLC | Stone Energy Corporation | 1/8     | 21/497    | 9-10-19.1  | G    |
| Central Michigan Exploration, LLC | Stone Energy Corporation | 1/8     | 21/288    | 9-13-5     | H    |

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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   
 Title Land Manager/Special Counsel

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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

RE: Proposed Hunter/Pethtel #8H 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)

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Dear Laura and Wade:

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

The lessors for tracts 10 – 19.1 each own their proportionate share of the minerals under this highway; which are on the WW6A1 form.

The lessors for tract 10 – 19 & 10 - 2 own the minerals under this highway; which are on the WW6A1 form.

The lessors for tracts 10 – 1, 10 – 1.2 & 11– 1.3 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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**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE CERTIFICATION**

Date of Notice Certification: 07/02/2015

API No. 47- 051 -  
Operator's Well No. #8H  
Well Pad Name: Hunter-Pethel

**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>523,358</u>                  |
| County:     | <u>Marshall</u>      | UTM NAD 83 Northing:      | <u>4,403,549</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: 100px;"><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><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/<br/>NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/<br/>NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> |
|--|---|

**Required Attachments:**

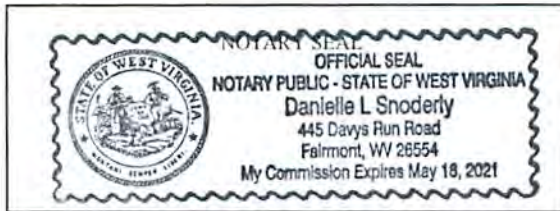
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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.

**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: Stone Energy Corporation  
By: [Signature]  
Its: Land Manager / Special Counsel  
Telephone: (304) 225-1600

Address: 1300 Fort Pierpont Drive - Suite 201  
Morgantown, WV 26508  
Facsimile: (337) 521-9911  
Email: CutrightRL@StoneEnergy.com



Subscribed and sworn before me this 2nd day of July 2015.  
[Signature] 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](mailto:depprivacyofficer@wv.gov).

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WW-6A  
(9-13)

API NO. 47- 051 -  
OPERATOR WELL NO. #8H  
Well Pad Name: Hunter-Pethtel

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

**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. Dennis Hunter  
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: \_\_\_\_\_

\*Please attach additional forms if necessary

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10/23/2015

**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.

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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://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, and 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 issue

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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 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

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.

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**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.

4705101859

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Office of Oil and Gas

JUL 08 2015

WV Department of  
Environmental Protection

10/23/2015

**Notice is hereby given by:**

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

Address: 1300 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](mailto:depprivacyofficer@wv.gov).



Subscribed and sworn before me this 2<sup>nd</sup> day of July, 2015.  
Danielle L Snoderly Notary Public  
My Commission Expires 5/18/2021

4705101859

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JUL 06 2015  
WV Department of  
Environmental Protection

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

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

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

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

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WV Department of  
Environmental Protection

10/23/2015



WW-6AW  
(1-12)

API NO. \_\_\_\_\_  
OPERATOR WELL NO. Hunter-Pethtel 8H  
Well Pad Name: Hunter Pethtel

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

**Instructions to Persons Named on Page WW-6A**

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

**Comment and Waiver Provisions**

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


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

**VOLUNTARY STATEMENT OF NO OBJECTION**

I, Ryan Arp, 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> | WVSPN NAD 27              | Easting:  | <u>1,655,050.847</u> |
| County:     | <u>Marshall</u>      |                           | Northing: | <u>469,104.580</u>   |
| District:   | <u>Meade</u>         | Public Road Access:       |           |                      |
| Quadrangle: | <u>GLEN EASTON</u>   | Generally used farm name: |           |                      |
| Watershed:  |                      |                           |           |                      |

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, **provided that Stone Energy Corporation drills the well on WV North NAD27 coordinates of North 469,104,580, East 1,655,050.847. This statement does not serve as notice that CONSOL Mining Company LLC has waived its rights to mine all the coal or accept any responsibility for any damage to the well or surface facilities associated with the well by CONSOL Mining Company LLC mining activity. This Voluntary Statement of No Objection does not waive CONSOL Mining Company LLC's Common Law Property Rights in the State of West Virginia.**

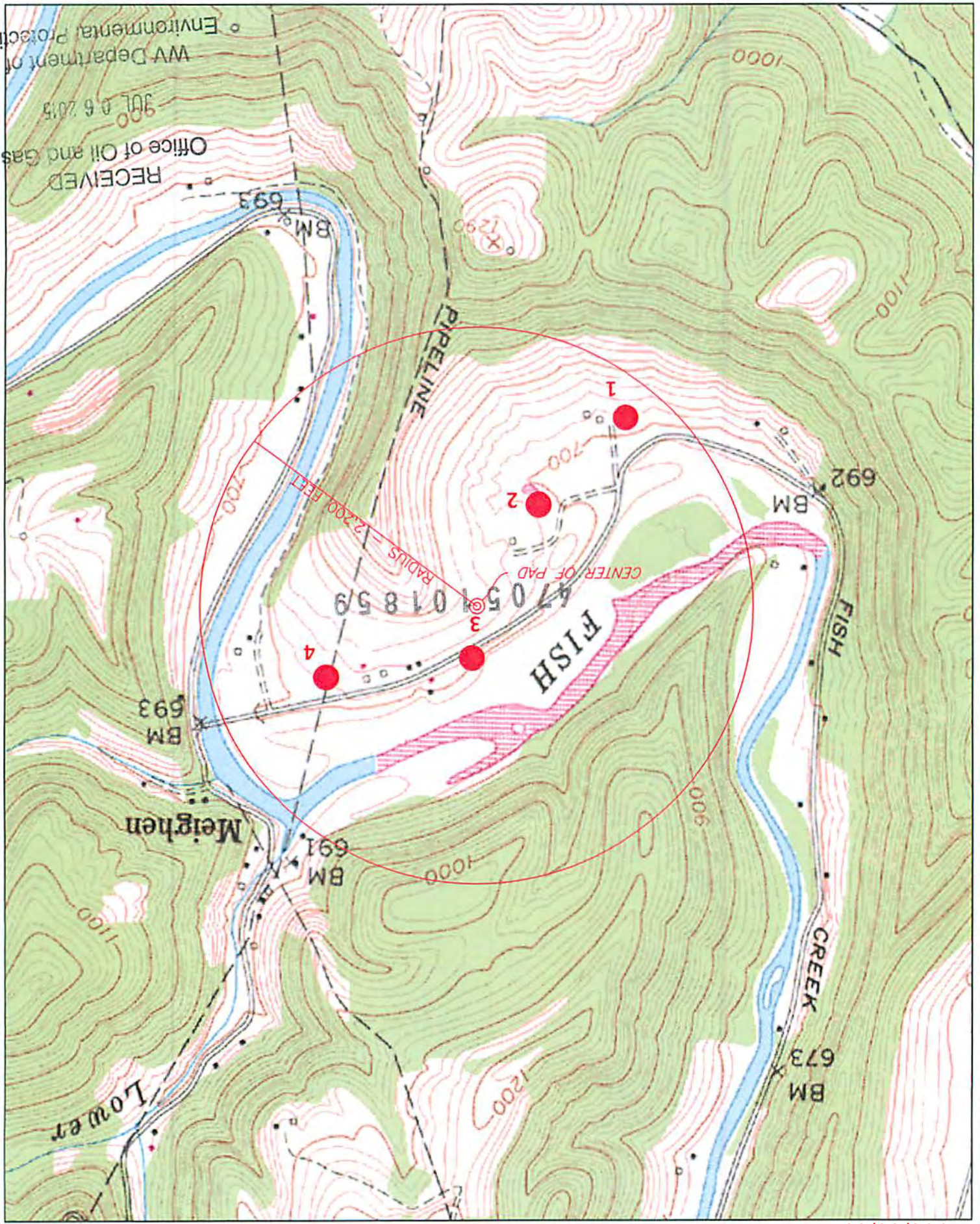
|   |   |
|---|---|
| <p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundment)</p> <p><input checked="" type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input checked="" type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p> | <p><b>FOR EXECUTION BY A NATURAL PERSON</b></p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p> <p><b>FOR EXECUTION BY A CORPORATION, ETC.</b></p> <p>Company: <u>CONSOL Mining Company LLC</u></p> <p>By: <u>Ryan Arp</u></p> <p>Its: <u>Project Engineer</u></p> <p>Signature: </p> <p>Date: <u>10/15/2015</u></p> |
|---|---|

**RECEIVED**  
Office of Oil and Gas  
**OCT 16 2015**  
WV Department of  
Environmental Protection

**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 of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

**10/23/2015**



## 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

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".

4705101859

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JUL 06 2015  
WV Department of  
Environmental Protection  
10/23/2015

**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.

4705101859

**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>4,403,549 / 523,358</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 57<sup>th</sup> 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](http://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: 1300 Fort Pierpont Drive - Suite 201  
Morgantown, WV 26508  
Facsimile: (337) 521-1111

**RECEIVED**  
**Office of Oil and 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](mailto:depprivacyofficer@wv.gov).

JUL 06 2015

10/23/2015



6000 Hampton Center  
Suite "B"  
Morgantown WV, 26505

December 22, 2014

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

4705101859

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,

A handwritten signature in blue ink that reads "Tim McGregor".

Tim McGregor

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

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JUL 06 2015

WV Department of  
Environmental Protection

10/23/2015



6000 Hampton Center  
Suite "B"  
Morgantown WV, 26505

January 29, 2015

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

4705101853

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](mailto:mgregortp@stoneenergy.com)

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Office of Oil and Gas

JUL 06 2015

WV Department of  
Environmental Protection

10/23/2015

April 30, 2015

We Dennis W. Hunter and Kathy A. Hunter  
received surface notification from Tim McGregor  
in December 22<sup>nd</sup> of 2014.

NAME: KATHY A. HUNTER

Kathy A. Hunter

NAME: DENNIS W. HUNTER

Dennis W. Hunter

Witness: Allen Selders

NAME: Allen Selders

4705101859

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Office of Oil and Gas

JUL 06 2015

WV Department of  
Environmental Protection

10/23/2015





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

API NO. 47- 051 -  
 OPERATOR WELL NO. 48, 51, 74, 81,  
 Well Pad Name: Hunter-Petrol 9M, 10H

WW-6R-W  
 (1-12)

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 Petzel, 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>Mcade</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><b>WELL SITE RESTRICTIONS BEING WAIVED</b><br/>                 *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><b>FOR EXECUTION BY A NATURAL PERSON</b></p> <p>Signature: <u>Frank E. Petzel</u></p> <p>Print Name: <u>FRANK E. PETZEL</u></p> <p>Date: <u>5/28/2015</u></p> <p><b>FOR EXECUTION BY A CORPORATION, ETC.</b></p> <p>Company: <u>STONE ENERGY CORPORATION</u></p> <p>By: <u>Timothy P. McGroger</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: Stone Energy Corporation  
 By: Timothy P. McGroger  
 Its: Land Coordinator

Signature: [Signature]  
 Telephone: (304) 225-1500



Subscribed and sworn before me this 14<sup>th</sup> day of July 2015  
Danbury L. Snoddy 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 of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto: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 14<sup>th</sup> 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 15<sup>th</sup> day of July, 2015 at 1:41 o'clock PM 10/23/2015

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

WW-6RW  
(1-12)

API NO. 47- 051 -  
OPERATOR WELL NO: #44 5367H, 8H,  
Well Pad Name: Hunter-Petrel 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**

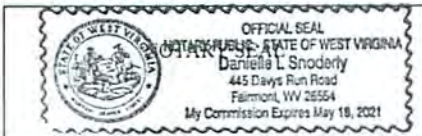
I, Dennis Hunter, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through                     , 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).

|  |   |  |
|--|---|--|
| <b>WELL SITE RESTRICTIONS BEING WAIVED</b><br>*Please check all that apply |   | <b>FOR EXECUTION BY A NATURAL PERSON</b><br>Signature: <u>Dennis W. Hunter</u> ✓<br>Print Name: <u>DENNIS W. HUNTER</u><br>Date: <u>5/28/15</u>  |
| <input checked="" type="checkbox"/> EXISTING WATER WELLS                   | <input type="checkbox"/> DEVELOPED SPRINGS      |  |
| <input checked="" type="checkbox"/> DWELLINGS                              | <input type="checkbox"/> AGRICULTURAL BUILDINGS | <b>FOR EXECUTION BY A CORPORATION, ETC.</b><br>Company: <u>STONE ENERGY CORPORATION</u><br>By: <u>TIMOTHY P. MCGREGOR</u><br>Its: <u>LAND COORDINATOR</u><br>Signature: <u>[Signature]</u><br>Date: <u>7/14/2015</u> |

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



Subscribed and sworn before me this 14<sup>th</sup> day of July 2015  
[Signature] 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 of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto: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 14<sup>th</sup> 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 15<sup>th</sup> day of July 2015 1:38 o'clock P.

[Signature]

10/23/2015



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 57<sup>th</sup> Street, SE  
Charleston, WV 25304

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

4705101850

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

RECEIVED  
Office of Oil and Gas

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

JUL 06 2015

WV Department of  
Environmental Protection  
10/23/2015



**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)

4705101856

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JUL 06 2015

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Environmental Protection  
10/23/2015

**WVDEP OOG  
ACCEPTED AS-BUILT**

*VBJ* 7/31/2015

**STONE ENERGY**



1300 Fort Pierpont Drive, Suite 201  
Morgantown, West Virginia 26508

**STONE PAD**

**PROCTOR & MAGNOLIA DISTRICTS  
WETZEL COUNTY, WEST VIRGINIA**

**MARCH 3, 2015**

REQUIRED INSPECTIONS/APPROVALS BY ENGINEER:

1. CONTRACTOR IS TO NOTIFY OWNER (STONE ENERGY / ENGINEER (HATCH MOTT MACDONALD)) 48 HOURS IN ADVANCE OF EACH STAGE LISTED TO ENSURE INSPECTIONS/APPROVALS ARE PERFORMED BEFORE PROCEEDING TO SUBSEQUENT OPERATIONS.
2. CLEAR AND GRUB FINAL INSPECTION.
3. TIE KEY PREPARATION AND PRIOR TO FILL PLACEMENT.
4. FILL EMBANKMENT PLACEMENT OPERATIONS AND COMPACTION TESTING AT REGULAR INTERVALS.
5. FINAL SLOPES/GRADES PRIOR TO SECTING AND MULCHING OF STONE PLACEMENT.
6. AS-BUILT INSPECTION AND APPROVAL.
7. RECLAMATION OF THE PAD SITE WILL BE COMPLETED UPON THE INSTALLATION OF ALL PRODUCTION FACILITIES. AT THAT TIME, THE LOCATION WILL BE MINIMIZED TO THE EXTENT POSSIBLE WHILE ALLOWING ACCESS TO BOTH PRODUCTION FACILITIES AND WELLS ON THE PAD FOR MAINTENANCE. BERMS WILL BE REMOVED, POSITIVE DRAINAGE WILL BE INSTALLED AND PERMANENT VEGETATION WILL BE ESTABLISHED. AS-BUILT INSPECTION AND APPROVAL.



SCALE: 1" = 2000'

SCALE: 1" = 1 MILE



| DRAWING LIST                        |          |
|-------------------------------------|----------|
| TITLE                               | SHEET NO |
| COVER SHEET                         | 1        |
| INDEX SHEET                         | 2        |
| PLAN SHEET                          | 3        |
| PLAN SHEET                          | 4        |
| PAD PROFILE & SECTIONS 0+00 - 4+50  | 5        |
| PAD SECTIONS 5+00 - 8+50            | 6        |
| ROAD PROFILE & SECTIONS 0+00 - 8+00 | 7        |
| ROAD SECTIONS 8+50 - 16+19          | 8        |
| DETAIL SHEET                        | 9        |
| DETAIL SHEET                        | 10       |
| DETAIL SHEET                        | 11       |
| DETAIL SHEET                        | 12       |
| DETAIL SHEET                        | 13       |
| DETAIL SHEET                        | 14       |
| DETAIL SHEET                        | 15       |
| DETAIL SHEET                        | 16       |
| DETAIL SHEET                        | 17       |
| RECLAMATION SHEET                   | 18       |

Accurate Road Coordinates  
 UTM North American Datum (NAD83) Zone 17N (Meters)  
 Northing: 4300143.5  
 Easting: 519110.0

ENGINEER



**Hatch Mott  
MacDonald**

2601 Cranberry Square  
Morgantown, WV 26508  
T: 304.212.4300 F: 304.594.2814  
www.hatchmott.com

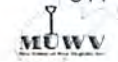
DESIGN CERTIFICATION  
 THE DESIGN (DRAWINGS, NOTES, AND DETAILS) HAVE BEEN PREPARED IN ACCORDANCE WITH THE  
 WEST VIRGINIA CODE OF STATE REGULATIONS, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF  
 DESIGN AND CONSTRUCTION

WILLIAM D. MACDONALD, P.E. *William D. MacDonald* 3/3/15  
 WV REG. DESIGNER



CALL BEFORE YOU DIG

811



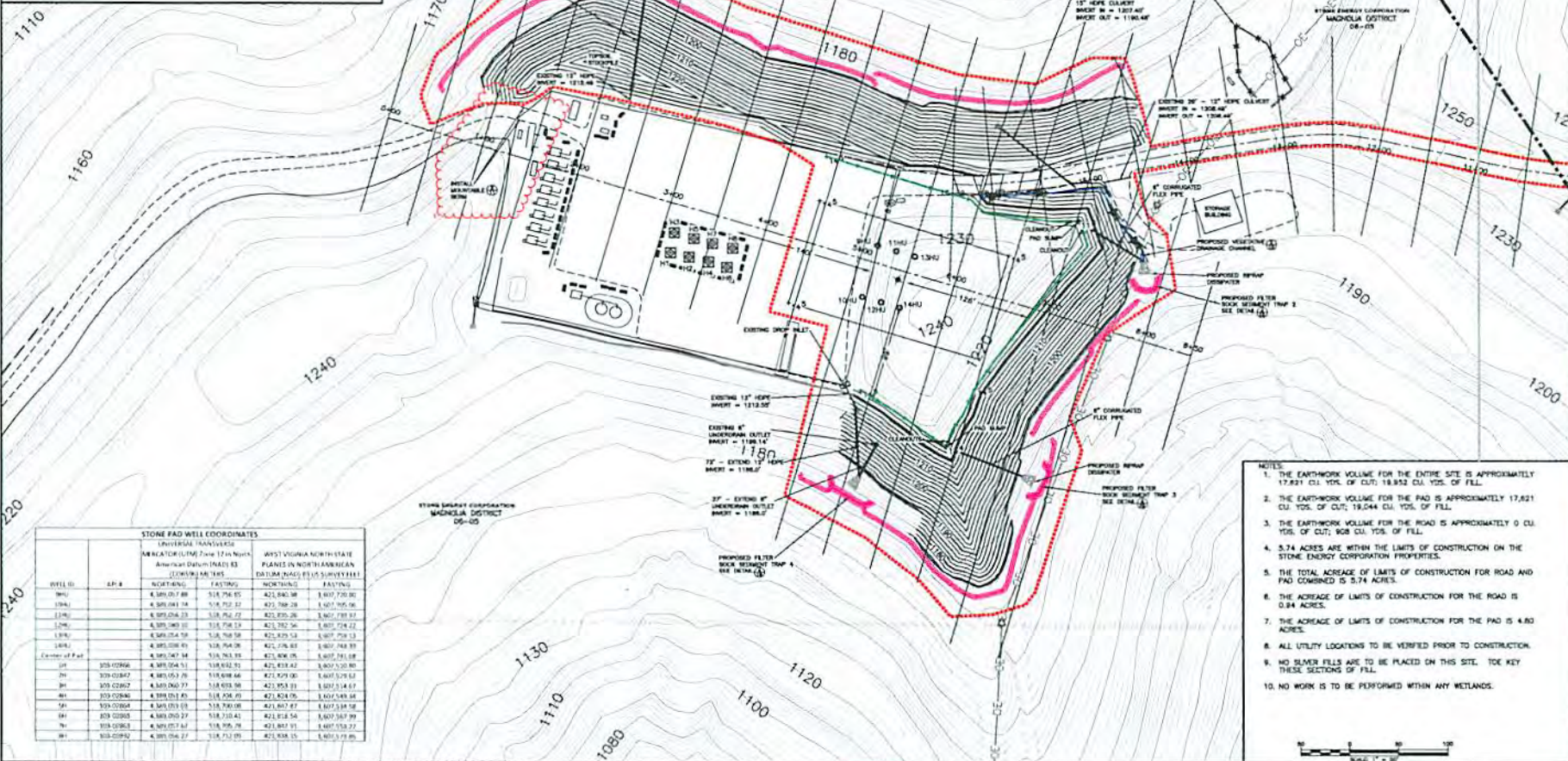
Miss Utility of West Virginia  
 1608 MacCorkle Ave. S.W.  
 So. Charleston, WV 25309

1.800.245.4848

**LEGEND**

- 1"=0' EXISTING 2' CONTOURS
- 1"=0' EXISTING 10' CONTOURS
- EXISTING UNPAVED TRAIL
- EXISTING TRICKLELINE
- PROPOSED 2' CONTOURS
- 1"=0' PROPOSED 10' CONTOURS
- LIMITS OF CONSTRUCTION
- PROPOSED 36" SILT SOCK OR SUPER SILT FENCE
- PROPOSED DITCH &
- PROPOSED BEAM
- PROPOSED CHECK DAM
- PROPOSED TOE KEY
- PROPERTY LINE
- PROPOSED PAD PERIMETER UNDERDRAN
- PROPOSED DRAINAGE CHANNEL
- EXISTING OVERHEAD ELECTRIC

**WVDEP OOG  
ACCEPTED AS-BUILT**  
 2/21 7/31/2015



**STONE PAD WELL COORDINATES**

| WELL ID | L.P.#     | UNIVERSAL TRANSVERSE MERCATOR (UTM) Zone 17 in North American Datum (NAD83) (Easting, Northing) |            | WEST VIRGINIA NORTH STATE PLAINS IN NORTH AMERICAN DATUM (NAD83) (Easting, Northing) |              |
|---------|-----------|---|------------|--|--------------|
|         |           | Easting   | Northing   | Easting  | Northing     |
| 194A    | 373-02866 | 4,389,051.88  | 518,756.85 | 423,840.98   | 1,807,720.90 |
| 194B    | 373-02867 | 4,389,041.78  | 518,752.32 | 423,789.28   | 1,807,705.96 |
| 194C    | 373-02868 | 4,389,034.23  | 518,752.22 | 423,820.26   | 1,807,700.33 |
| 194D    | 373-02869 | 4,389,040.02  | 518,758.13 | 423,792.56   | 1,807,724.22 |
| 194E    | 373-02870 | 4,389,034.78  | 518,768.58 | 423,829.53   | 1,807,729.13 |
| 194F    | 373-02871 | 4,389,028.45  | 518,764.08 | 423,776.83   | 1,807,743.89 |
| 194G    | 373-02872 | 4,389,047.14  | 518,763.89 | 423,806.08   | 1,807,741.88 |
| 194H    | 373-02873 | 4,389,034.51  | 518,832.91 | 423,818.42   | 1,809,520.80 |
| 194I    | 373-02874 | 4,389,053.76  | 518,818.44 | 423,829.00   | 1,807,529.63 |
| 194J    | 373-02875 | 4,389,060.77  | 518,803.98 | 423,853.31   | 1,807,514.67 |
| 194K    | 373-02876 | 4,389,053.89  | 518,758.97 | 423,828.09   | 1,807,548.54 |
| 194L    | 373-02877 | 4,389,053.03  | 518,790.08 | 423,867.87   | 1,807,538.58 |
| 194M    | 373-02878 | 4,389,050.27  | 518,710.41 | 423,818.54   | 1,807,547.99 |
| 194N    | 373-02879 | 4,389,057.17  | 518,805.78 | 423,887.91   | 1,807,553.27 |
| 194O    | 373-02880 | 4,389,056.27  | 518,751.09 | 423,838.33   | 1,807,578.86 |

- NOTES:**
1. THE EARTHWORK VOLUME FOR THE ENTIRE SITE IS APPROXIMATELY 17,821 CU. YDS. OF CUT; 18,852 CU. YDS. OF FILL.
  2. THE EARTHWORK VOLUME FOR THE PAD IS APPROXIMATELY 17,821 CU. YDS. OF CUT; 19,044 CU. YDS. OF FILL.
  3. THE EARTHWORK VOLUME FOR THE ROAD IS APPROXIMATELY 0 CU. YDS. OF CUT; 908 CU. YDS. OF FILL.
  4. 3.74 ACRES ARE WITHIN THE LIMITS OF CONSTRUCTION ON THE STONE ENERGY CORPORATION PROPERTIES.
  5. THE TOTAL ACREAGE OF LIMITS OF CONSTRUCTION FOR ROAD AND PAD COMBINED IS 3.74 ACRES.
  6. THE ACREAGE OF LIMITS OF CONSTRUCTION FOR THE ROAD IS 0.84 ACRES.
  7. THE ACREAGE OF LIMITS OF CONSTRUCTION FOR THE PAD IS 4.80 ACRES.
  8. ALL UTILITY LOCATIONS TO BE VERIFIED PRIOR TO CONSTRUCTION.
  9. NO SLIVER FILLS ARE TO BE PLACED ON THIS SITE. TOE KEY THESE SECTIONS OF FILL.
  10. NO WORK IS TO BE PERFORMED WITHIN ANY WETLANDS.



| NO. | DATE       | BY  | DESCRIPTION |
|-----|------------|-----|-------------|
| 1   | 02/21/2015 | JLL | AS-BUILT    |

**Hatch Mott MacDonald**  
 800 University Station  
 Morgantown, West Virginia 26508

**STONE ENERGY**  
 PROCTOR & MAGNOLIA DISTRICTS, WETZEL COUNTY, WEST VIRGINIA

**STONE PAD  
PLAN SHEET**



# STONE ENERGY CORPORATION CONSTRUCTION PLANS WELL PAD EXTENSION MARSHALL COUNTY, WEST VIRGINIA

| No. | Date    | Revision  |
|-----|---------|---|
| 1   | 6-23-15 | CHANGED WELL NUMBERS AND COORDINATES WITH REVISION CLOUDS |
|     |         |   |
|     |         |   |

| COVER DETAILS |           |
|---------------|-----------|
| CAD File No.  |           |
| RGL           |           |
| Drawn         |           |
| CAG           |           |
| Checked       |           |
| DLB           |           |
| Approved      |           |
| NOTED         |           |
| Scale:        |           |
| Date:         | JUNE 2015 |
| Project No.   | 15-0040   |

**POTESTA & ASSOCIATES, INC.**  
ENGINEERS AND ENVIRONMENTAL CONSULTANTS  
125 Lakeview Drive, Morgantown, WV 26508  
TEL: (304) 226-2246 FAX: (304) 226-2246  
E-Mail Address: potesta@potesta.com



4705101859

*6/24/15*

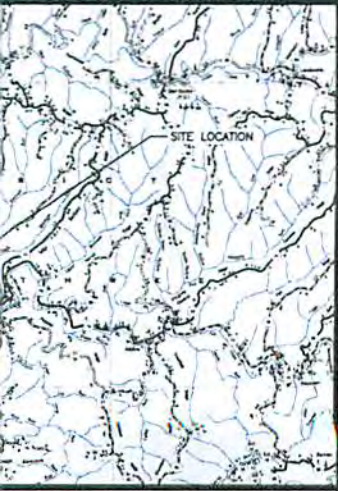
RECEIVED  
Office of Oil and Gas

JUL 06 2015

WV Department of  
Environmental Protection  
**REGULATORY REVIEW**

ISSUE DATE 6/23/15

| SURFACE HOLE 16HU |          |            |  |
|-------------------|----------|------------|--|
| UTM (ZONE 17)     | NORTHING | 4403543.90 |  |
|                   | EASTING  | 523374.60  |  |
| SURFACE HOLE 17HU |          |            |  |
| UTM (ZONE 17)     | NORTHING | 4403546.50 |  |
|                   | EASTING  | 523379.90  |  |
| SURFACE HOLE 18HU |          |            |  |
| UTM (ZONE 17)     | NORTHING | 4403576.30 |  |
|                   | EASTING  | 523433.20  |  |



## DRAWING INDEX

| DRAWING NO. | TITLE                                  |
|-------------|--|
| 1           | INDEX AND COVER SHEET                  |
| 2           | GENERAL NOTES/SEQUENCE OF CONSTRUCTION |
| 3           | EXISTING CONDITIONS                    |
| 3A          | EXISTING CONDITIONS                    |
| 4           | PROPOSED SITE PLAN                     |
| 4A          | PROPOSED SITE PLAN                     |
| 5           | WELL PAD PROFILE AND CROSS SECTIONS    |
| 6-8         | MISCELLANEOUS DETAILS                  |
| 9           | RECLAMATION PLAN                       |

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ENGINEERS AND ENVIRONMENTAL CONSULTANTS

125 Lakeview Drive, Morgantown, WV 26508  
TEL: (304) 226-2246 FAX: (304) 226-2246  
E-Mail Address: potesta@potesta.com



SEAL

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

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

**COUNTY MAP**  
MAP OF HIGHWAYS  
MARSHALL COUNTY HIGHWAY MAP  
SCALE: 1" = 1 MILE

10/23/2015  
Drawing No. 1