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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

December 28, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-10302526, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

  
James Martin  
Chief

Operator's Well No: LEASURE 2  
Farm Name: LEASURE, DELBERT & RUTH  
**API Well Number: 47-10302526**  
**Permit Type: Plugging**  
Date Issued: 12/28/2015

**Promoting a healthy environment.**

## PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B  
Rev. 2/01

1) Date November 20, 2015  
2) Operator's  
Well No. Leasure #2  
3) API Well No. 47-103 - 02526

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_\_/ Gas X/ Liquid injection \_\_\_\_/ Waste disposal \_\_\_\_/  
(If "Gas, Production X or Underground storage \_\_\_\_ ) Deep \_\_\_\_/ ShallowX

5) Location: Elevation 940' Watershed Little Fishing Creek of Ohio River  
District Green County Wetzel Quadrangle Porters Falls

6) Well Operator Stone Energy Corporation 7) Designated Agent Roger L. Cutright  
Address 1300 Fort Pierpont Dr - Suite 201 Address 1300 Fort Pierpont Dr - Suite 201  
Morgantown, WV 26508 Morgantown, WV 26508

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Derek Haught Name Halliburton (contractor subject to change)  
Address P.O. Box 85 Address 121 Champion Way - Suite 200  
Smithville, WV 26178 Canonsburg, PA 15317

10) Work Order: The work order for the manner of plugging this well is as follows:  
Notify Inspector as required and MIRU on well. All plugs are Class A cement with 6% gel in between.  
Set Plug 1 (bottom plug above perforations): 200' plug from 6532' to 6332'. See attached wellbore diagrams.  
Cut & pull 4-1/2" production casing from 4450' (or as deep as possible).  
Set Plug 2 (plug across casing cut): 200' plug from 4550' to 4350'.  
Set Plug 3 (plug across casing shoe): 100' plug from 2382' to 2282'.  
Set Plug 4 (plug across elevation): 100' plug from 990' to 890'.  
Set Plug 5 (surface plug): 250' plug from 250' to surface.  
RDMO and install monument (6" OD x 30" tall with API#). Reclaim site & road.

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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Derek M. Haught Date 11/20/15

# STONE ENERGY

## Proposed Wellbore Diagram - Plug & Abandon

Well: **Leasure #2**  
 State: **West Virginia**  
 County: **Wetzel**  
 District: **Green**  
 Prospect: **Mary**  
 Location: Surface: **(N)405,325' (E)1,638,822' WV North NAD 27**  
 TD: **6690' MD / 6690' TVD**

Permit Number: **47-103-02526**  
 Permit Issued: **9/11/2009**  
 Ground Elevation: **940'**  
 Kelly Bushing: **10'**  
 Drilling Rig: **Warren #3**  
 Spud Date: **10/6/2009**  
 TD Date: **10/16/2009**  
 Rig Release Date: **10/17/2009**

HOLE SIZE	FORMATION EVALUATION	FORMATION TOPS	WELLBORE DIAGRAM	CASING & CEMENTING DATA	MW & TYPE	HOLE DEV.
17" Hole Hammer		53' MD/TVD		CONDUCTOR PIPE <span style="color: red;">Air</span>		Vert
15" Hole Hammer		940' MD/TVD		16" @ 40' (set in bedrock & sanded in - no cmt)		
11" Hole Rock Bit	Little Lime 1915' MD/TVD Big Lime 1985' MD/TVD Big Injun 2025' MD/TVD Base of Big Injun 2190' MD/TVD	2350' MD/TVD		CONDUCTOR CASING <span style="color: red;">Air / Mist</span>		Vert
				11-3/4" 42.0# H-40 STC @ 919' MD/TVD Cemented to surface		
				SURFACE CASING <span style="color: red;">Air / Mist</span>		Vert
	Berea 2560' MD/TVD Gordon 2758' MD/TVD		8-5/8" 24.0# J-55 STC @ 2332' MD/TVD Cemented to surface			
			<p style="text-align: center;"><i>DMH 11/20/15</i></p> <p>Cut &amp; Recover 4-1/2" casing from 4450' (or as deep as possible)                      TOC @ 4550' MD/TVD (as per CBL)</p> <p>Cement Plug Summary (Class A cement plugs with 6% gel in between):                      Plug 1 (Bottom Plug Above Perfs)                      200' Plug: 6332' - 6532'                      Plug 2 (Plug Across Casing Cut)                      200' Plug: 4350' - 4550'                      Plug 3 (Plug Across Shoe)                      100' Plug: 2282' - 2382'                      Plug 4 (Plug Across Elevation)                      100' Plug: 890' - 990'                      Plug 5 (Surface Plug)                      250' Plug: 0 - 250'</p>			
7-7/8" Hole Hammer	Lower Alexander 5330' MD/TVD Rhinstreet 5924' MD/TVD Cashaqua 6330' MD/TVD Middlesex 6441' MD/TVD West River 6458' MD/TVD Geneseo 6530' MD/TVD Tully 6550' MD/TVD Marcellus 6630' MD/TVD Onondaga 6674' MD/TVD	6690' MD/TVD	6% Gel	Geneseo Perfs: 6532' - 6548' Marcellus Perfs: 6630' - 6642' & 6648' - 6662'		
			PRODUCTION CASING <span style="color: red;">Air</span>		Vert	
			4-1/2" 11.6# P-110 LTC @ 6689' MD/TVD TOC @ 4550'			

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# STONE ENERGY

## Current Wellbore Diagram

Well: **Leasure #2**  
 State: **West Virginia**  
 County: **Wetzel**  
 District: **Green**  
 Prospect: **Mary**  
 Location: Surface: **(N)405,325' (E)1,638,822' WV North NAD 27**  
 TD: **6690' MD / 6690' TVD**

Permit Number: **47-103-02526**  
 Permit Issued: **9/11/2009**  
 Ground Elevation: **940'**  
 Kelly Bushing: **10'**  
 Drilling Rig: **Warren #3**  
 Spud Date: **10/6/2009**  
 TD Date: **10/16/2009**  
 Rig Release Date: **10/17/2009**

HOLE SIZE	FORMATION EVALUATION	FORMATION TOPS	WELLBORE DIAGRAM	CASING & CEMENTING DATA	MW & TYPE	HOLE DEV.
17" Hole Hammer		53' MD/TVD		CONDUCTOR PIPE <span style="color: red;">Air</span>		Vert
				16" @ 40' (set in bedrock & sanded in - no cmt)		
15" Hole Hammer		940' MD/TVD		CONDUCTOR CASING <span style="color: red;">Air / Mist</span>		Vert
			11-3/4" 42.0# H-40 STC @ 919' MD/TVD	Cemented to surface		
11" Hole Rock Bit	Little Lime	1915' MD/TVD				Vert
	Big Lime	1985' MD/TVD				
	Big Injun	2025' MD/TVD				
	Base of Big Injun	2190' MD/TVD				
		2350' MD/TVD				
	Berea	2560' MD/TVD				
	Gordon	2758' MD/TVD				
	Riley	4894' MD/TVD				
	Benson	5096' MD/TVD				
7-7/8" Hole Hammer	Lower Alexander	5330' MD/TVD				
	Rhinestreet	5924' MD/TVD	TOC @ 4550' MD/TVD (as per CBL)			
	Cashaqua	6330' MD/TVD	<p style="font-size: 1.2em; font-weight: bold; margin: 0;">DMH 11/20/15</p> <p style="text-align: right; font-weight: bold; margin: 0;">Received Office of Oil &amp; Gas NOV 30 2015</p>			
	Middlesex	6441' MD/TVD				
	West River	6458' MD/TVD				
	Geneseo	6530' MD/TVD				
	Tully	6550' MD/TVD				
	Marcellus	6630' MD/TVD				
	Onondaga	6674' MD/TVD				
		6690' MD/TVD				
				PRODUCTION TUBING		
				2-3/8" 4.7# J-55 EUE		
			XN Nipple @ 6499' KB			
			Ceramic Disk @ 6532' KB			
			End of Tubing @ 6532' KB			
			Geneseo Perfs: 6532' - 6548'			
			Marcellus Perfs: 6630' - 6642' & 6648' - 6662'			
			PRODUCTION CASING <span style="color: red;">Air</span>			
			4-1/2" 11.6# P-110 LTC @ 6689' MD/TVD			
			TOC @ 4550'			

WR-35  
Rev (5-01)

DATE: January 14, 2020  
API #: 47-10302526

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Leasure Operator Well No.: 2

LOCATION: Elevation: 940' Quadrangle: Porters Falls 7.5"

District: Green County: Wetzel  
Latitude: 0 Feet South of 39 Deg. 38 Min. 37.74 Sec.  
Longitude 0 Feet West of 80 Deg. 46 Min. 50.50 Sec.

Company: Stone Energy Corporation

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 6000 Hampton Center, Suite B				
Morgantown, WV 26505	16"	40'	40'	sanded in
Agent: Kevin Stiles				
Inspector: David Scranage	11 3/4"	919'	919'	550 SKS
Date Permit Issued: 11-Sep-2009				
Date Well Work Commenced: 5-Oct-2009	8 5/8"	2332'	2332'	560 SKS
Date Well Work Completed: 10-Dec-2009				
Verbal Plugging:	4 1/2"	6689'	6689'	335 SKS
Date Permission granted on: N/A				
Rotary X Cable Rig				
Total Depth (feet): 6690				
Fresh Water Depth (ft.): N/A				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): N/A				

OPEN FLOW DATA

Producing formation Marcellus Pay zone depth (ft) 6630  
Gas: Initial open flow 100 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 870 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 98 Hours  
Static rock Pressure 1290 psig (surface pressure) after 1 Hours

Second producing formation Geneseo Pay zone depth (ft) 6530  
Gas: Initial open flow comingled MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow comingled MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests comingled Hours  
Static rock Pressure comingled psig (surface pressure) after \_\_\_\_\_ Hours

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NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

  
Signature

1/20/16  
Date

## Leasure Well No. 2 (API # 47-10302526)

1<sup>st</sup> Stage: Marcellus (6,630' - 6,642' & 6,648' - 6,662') (104 holes)

Slickwater frac with 10,933 bbls, 150 sks 100 mesh, 2600 sks 40/70 sand

2<sup>nd</sup> Stage: Geneseo (6,532' - 6,548') (96 holes)

Slickwater frac with 6,063 bbls, 410 sks 100 mesh, 2840 sks 40/70 sand

	Top Depth	Bottom Depth	
Fill	0	10'	
Sand & Shale	10'	1915'	
Little Lime	1915'	1985'	
Big Lime	1985'	2025'	
Big Injun	2025'	2190'	
Sand & Shale	2190'	2560'	
Berea	2560'	2584'	
Sand & Shale	2584'	2758'	
Gordon	2758'	2774'	
Sand & Shale	2774'	4894'	
Riley	4894'	4960'	
Sand & Shale	4960'	5096'	
Benson	5096'	5114'	
Sand & Shale	5114'	5330'	
Lower Alexander	5330'	5358'	
Shale	5358'	5924'	
Rhinestreet	5924'	6330'	
Cashaqua	6330'	6441'	
Middlesex	6441'	6458'	
West River	6458'	6530'	
Geneseo	6530'	6550'	
Tully	6550'	6630'	
Marcellus	6630'	6674'	
Onondaga	6674'	6690'	TD

WW-4A  
Revised 6-07

1) Date: November 20, 2015  
2) Operator's Well Number  
Leasure #2 \_\_\_\_\_  
3) API Well No.: 47 - 103 - 02526

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Delbert L. &amp; Ruth Leasure</u>	Name <u>Consolidation Coal Company</u>
Address <u>HC 61, Box 54</u>	Address <u>1000 Consol Energy Drive</u>
<u>New Martinsville, WV 26155</u>	<u>Canonsburg, PA 15317</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Derek Haught</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 85</u>	Name _____
<u>Smithville, WV 26178</u>	Address _____
Telephone <u>304-206-7613</u>	_____

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator: Stone Energy Corporation  
 By: Roger L. Cutright *Roger L. Cutright*  
 Its: Land Manager / Special Counsel  
 Address: 1300 Fort Pierpont Drive - Suite 201  
Morgantown, WV 26508  
 Telephone: 304-225-1600

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Office of Oil & Gas  
NOV 30 2015

Subscribed and sworn before me this 25<sup>th</sup> day of November 2015  
*Danielle L. Snoderly*  
My Commission Expires 5/18/2021 Notary



**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a 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).

WW-9  
(2/15)

API Number 47 - 103 - 02526  
Operator's Well No. Leasure #2

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Stone Energy Corporation OP Code 494490923

Watershed (HUC 10) Little Fishing Creek of Ohio River Quadrangle Porters Falls

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 \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain N/A - none anticipated for plugging operations)

Will closed loop system be used? If so, describe: N/A to plugging operations DMH 11/20/15

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A to plugging operations

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

Additives to be used in drilling medium? N/A to plugging operations

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A to plugging operations

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

-Landfill or offsite name/permit number? N/A to plugging operations

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

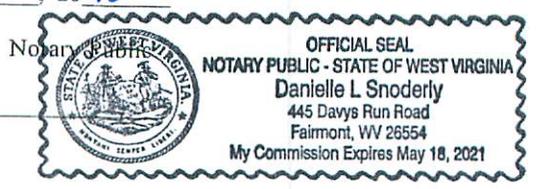
Company Official (Typed Name) Roger L. Cutright

Company Official Title Land Manager / Special Counsel

Subscribed and sworn before me this 25<sup>th</sup> day of November, 20 15

Danielle L. Snoderly

My commission expires 5/18/2021



Form WW-9

Operator's Well No. Leasure #2

Stone Energy Corporation

Proposed Revegetation Treatment: Acres Disturbed 6.7 (during previous drilling) Prevegetation pH \_\_\_\_\_

Lime 2 to 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 to 750 lbs/acre

Mulch 0.5 to 0.75 + Straw Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Marcellus Mix	100	Marcellus Mix	100
White or Ladino Clover	10	White or Ladino Clover	10
Orchard Grass	40	Orchard Grass	40
Winter Rye	50	Winter Rye	50

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: Derek M. Haught

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: Oil & Gas Inspector

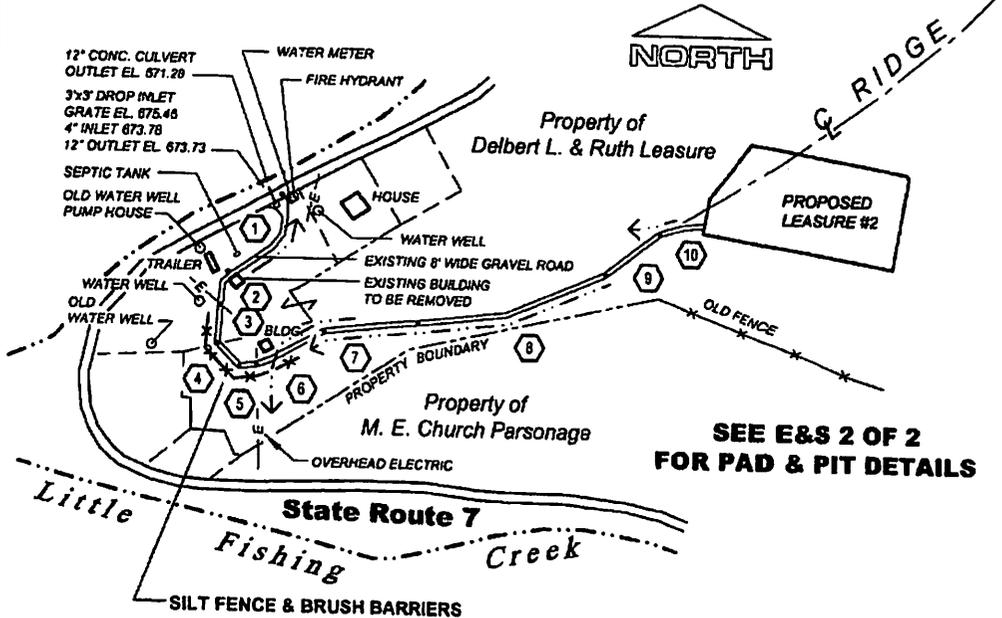
Date: 11/20/15

Field Reviewed? (  ) Yes (  ) No

103-02526

ACCESS TO THE WELL SITE WILL BE GAINED FROM WV ST. RT. 7 USING 1420' EXISTING FARM ROAD WITH AN ADDITIONAL 115' OF NEW ACCESS ROAD TO BE CONSTRUCTED. EXISTING ROAD ENTRANCE IS TO BE UPGRADED TO WVDOT SPECIFICATIONS. DRAINAGE IS TO BE MAINTAINED. TOPSOIL IS TO BE STOCKPILED FOR USE IN RECLAMATION. WELL SITE IS TO BE RECLAIMED AFTER WELL WORK.

DMAH 11/20/15



SEE E&S 2 OF 2 FOR PAD & PIT DETAILS

DISTURBED AREA	
WELL SITE	231,930 Sq. Ft.
ACCESS ROAD	60,828 Sq. Ft.
TOTAL AREA (Sq. Ft.)	292,558 Sq. Ft.
TOTAL AREA (Acres)	6.7 Acres

**\* NOTE**

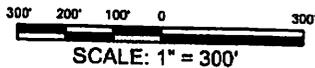
ALL SLOPES LISTED GREATER THAN 20% WILL BE CONSTRUCTED TO HAVE A SLOPE LESS THAN OR EQUAL TO 20%.

**ACCESS ROAD**

Hexagon	DIST.	SLOPE	CROSS DRAINS
1	225'	+2%	AS NEEDED
2	70'	+1%	AS NEEDED
3	80'	+20%	45'
* 4	70'	+25%	30'
5	40'	+10%	AS NEEDED
6	180'	+20%	45'
* 7	200'	+25%	35'
8	415'	+15%	60'
* 9	160'	+25%	30'
10	115'	+5%	AS NEEDED

1835' TOTAL

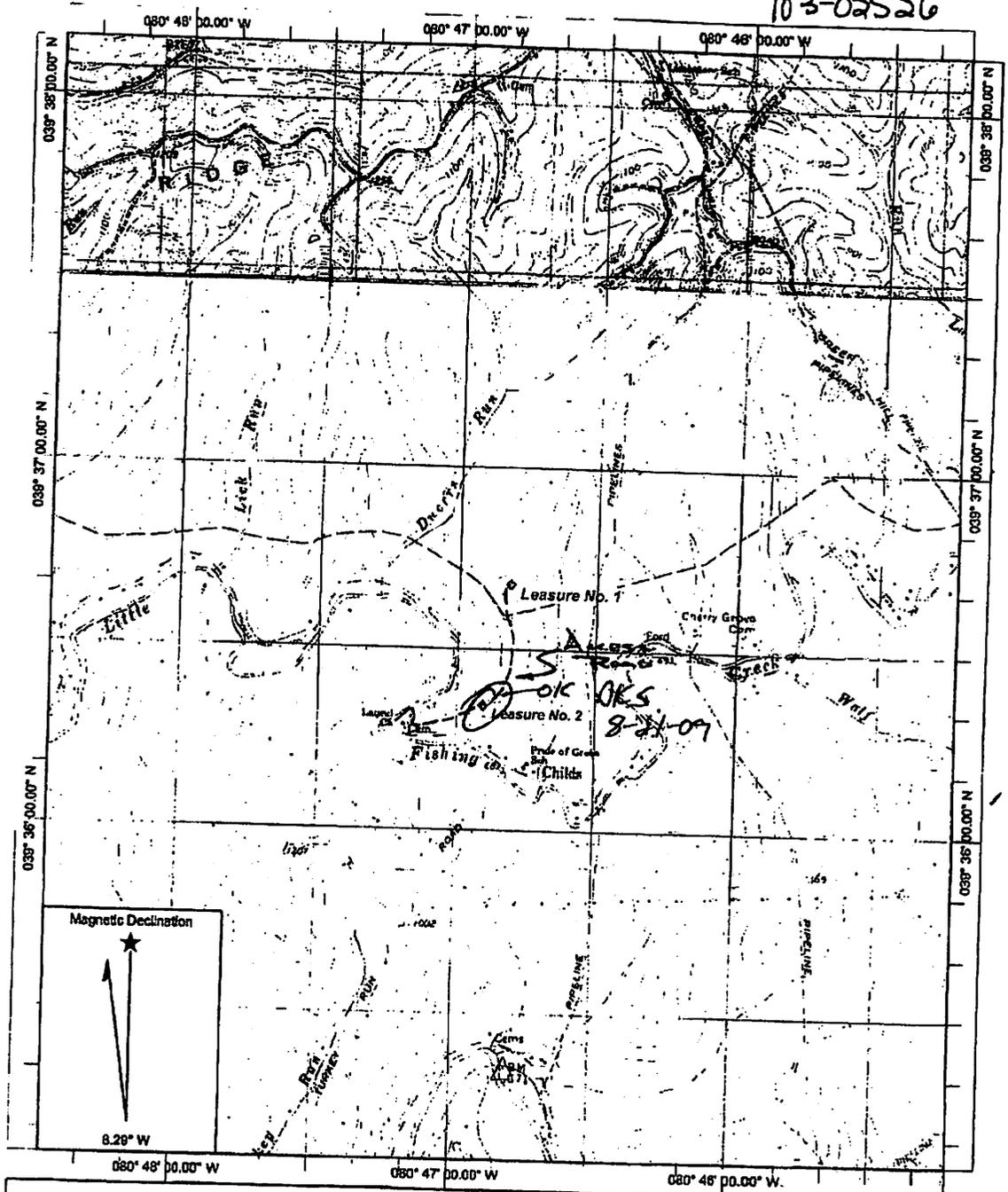
EXISTING  
PROPOSED



CAD FILE NO 09-201-Leasure1-E&S  
REV. 8/20/09

MSES consultants, inc.

103-02526

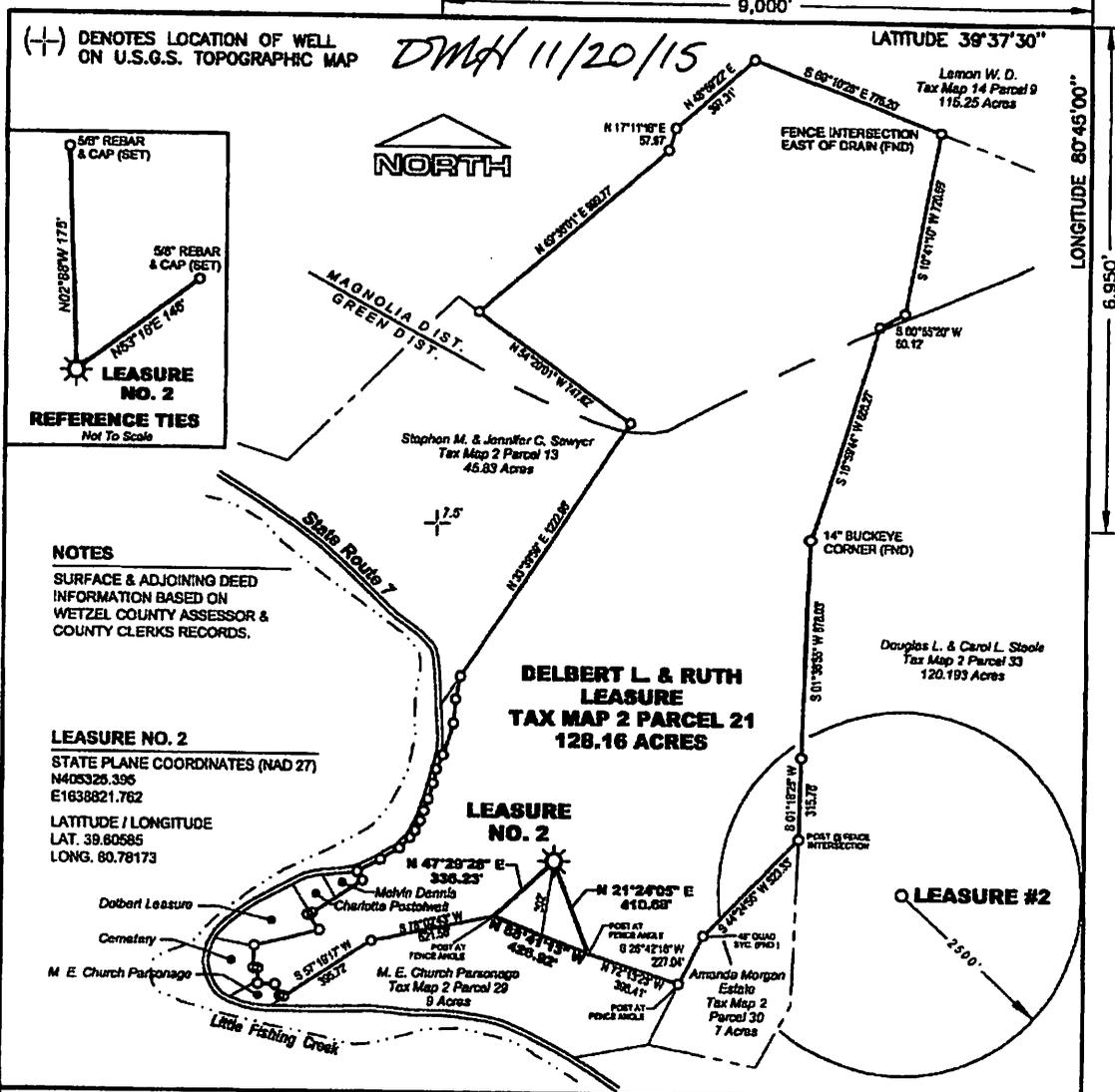


Name: PORTERS FALLS  
 Date: 8/14/2009  
 Scale: 1 inch equals 2000 feet

Location: 039° 36' 37.74" N 080° 48' 50.50" W NAD83  
 Caption: Stone Energy Corporation  
 Leisure No. 2

DMAH 11/20/15

Datum: NAD83  
 Copyright (C) 2008, MyTopo

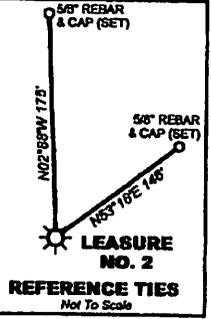


(+ ) DENOTES LOCATION OF WELL ON U.S.G.S. TOPOGRAPHIC MAP

*DMA 11/20/15*

LATITUDE 39°37'30"

LONGITUDE 80°45'00"



**LEASURE NO. 2**  
REFERENCE TIES  
Not To Scale

**NOTES**  
SURFACE & ADJOINING DEED INFORMATION BASED ON WETZEL COUNTY ASSESSOR & COUNTY CLERKS RECORDS.

**LEASURE NO. 2**  
STATE PLANE COORDINATES (NAD 27)  
N405325.395  
E1638821.762  
LATITUDE / LONGITUDE  
LAT. 39.60585  
LONG. 80.78173

Doberl Leasure  
Cemetery  
M. E. Church Parsonage

**DELBERT L. & RUTH LEASURE**  
TAX MAP 2 PARCEL 21  
128.16 ACRES

**LEASURE NO. 2**

Douglas L. & Carol L. Steele  
Tax Map 2 Parcel 33  
120.193 Acres

**LEASURE #2**

**MSES consultants, inc.**  
FILE NO. 09-201-Leasure2Well  
DRAWN BY HDW / LFL  
SCALE 1" = 600'  
MIN. DEGREE OF ACCURACY 1 IN 2500  
PROVEN SOURCE OF ELEVATION:  
DGPS (SUBMETER MAPPING GRADE)

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

(SIGNED) *Harold W. Davis*  
R.P.E. \_\_\_\_\_ L.L.S. 085 \_\_\_\_\_



**STATE OF WEST VIRGINIA**  
DEPARTMENT OF MINES  
**OIL AND GAS DIVISION**



DATE AUGUST 11, 2009  
OPERATOR'S WELL NO. LEASURE NO. 2  
API WELL NO. \_\_\_\_\_  
47 103 02526  
STATE COUNTY PERMIT NO.

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
IF "GAS", PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 940.10' WATERSHED LITTLE FISHING CREEK OF OHIO RIVER  
DISTRICT GREEN COUNTY WETZEL  
QUADRANGLE PORTER FALLS 7.5' NEAREST TOWN CHILDS

SURFACE OWNER DELBERT L. & RUTH LEASURE ACREAGE 128.16  
OIL & GAS ROYALTY OWNER DELBERT L. & RUTH LEASURE LEASE ACREAGE 128.16  
LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION   
OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
PLUG AND ABANDON  CLEAN OUT AND REPLUG

TARGET FORMATION MARCELLUS SHALE ESTIMATED DEPTH 6790'  
WELL OPERATOR STONE ENERGY CORPORATION DESIGNATED AGENT KEVIN STILES  
ADDRESS 8000 HAMPTON CENTER SUITE B ADDRESS 8000 HAMPTON CENTER SUITE B  
MORGANTOWN, WV 26505 MORGANTOWN, WV 26505

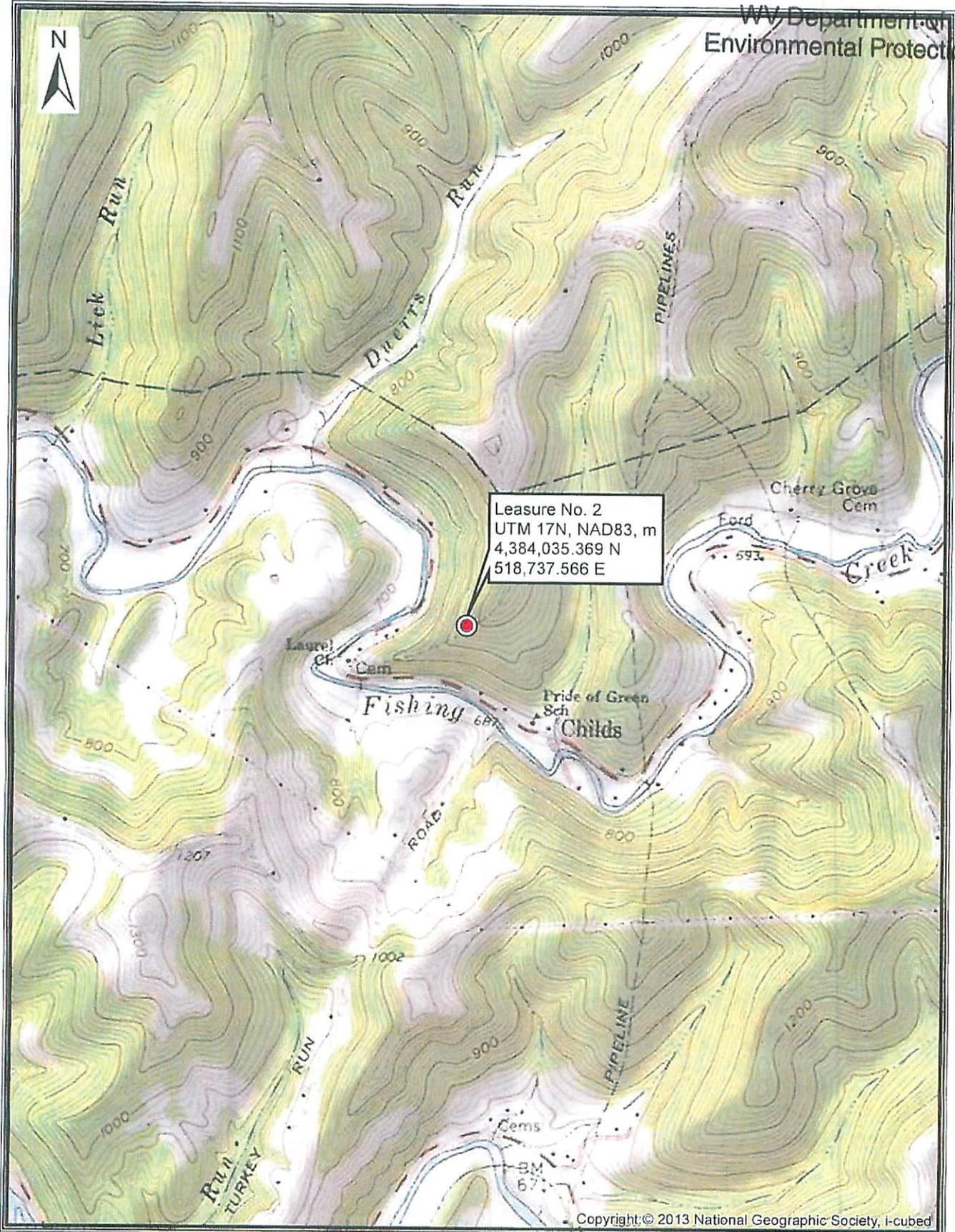
FORM IV-6

COUNTY **103**  
PERMIT NO.

Leasure No. 2, API # 47-103-02526  
Green District, Wetzel County, West Virginia

DEC 03 2015

WV Department of  
Environmental Protection



**STONE ENERGY** Stone Energy Corporation  
1300 Fort Pierpont Drive, Suite 201  
Morgantown, WV 26508  
(304) 225-1600



Date: 12/2/2015

RECEIVED  
Office of Oil and Gas

DEC 03 2015

WV Department of  
Environmental Protection

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-103-02526 WELL NO.: Leasure #2

FARM NAME: Leasure, Delbert L. & Ruth

RESPONSIBLE PARTY NAME: Stone Energy Corporation

COUNTY: Wetzel DISTRICT: Green

QUADRANGLE: Porters Falls

SURFACE OWNER: Leasure, Delbert L.

ROYALTY OWNER: Leasure, Delbert L.

UTM GPS NORTHING: 4,384,035 meters

UTM GPS EASTING: 518,738 meters GPS ELEVATION: 940 feet

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS  : Post Processed Differential

Real-Time Differential

Mapping Grade GPS  : Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Signature

Drilling Engineer  
Title

12/1/2015  
Date