



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

December 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.

01/01/2016

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

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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Office of Oil & Gas
NOV 30 2015

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 Air | | Vert | |
| 15" Hole Hammer | | 940' MD/TVD | | CONDUCTOR CASING Air / Mist | | Vert | |
| 11" Hole Rock Bit | Little Lime | 1915' MD/TVD | | 6% Gel | SURFACE CASING Air / Mist | | Vert |
| | Big Lime | 1985' MD/TVD | | | | | |
| | Big Injun | 2025' MD/TVD | | | | | |
| | Base of Big Injun | 2190' MD/TVD | | | | | |
| | | 2350' MD/TVD | Plug 3 | 8-5/8" 24.0# J-55 STC @ 2332' MD/TVD Cemented to surface | | | |
| | Berea | 2560' MD/TVD | 6% Gel | | | | |
| | Gordon | 2758' MD/TVD | | | | | |
| | | | Plug 2 | | | | |
| | Riley | 4894' MD/TVD | | | | | |
| | Benson | 5096' MD/TVD | | | | | |
| 7-7/8" Hole Hammer | Lower Alexander | 5330' MD/TVD | 6% Gel | | | | |
| | Rhonestreet | 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 | Plug 1 | | | | |
| | | | | PRODUCTION CASING Air | | Vert | |
| | | | | 4-1/2" 11.6# P-110 LTC @ 6689' MD/TVD TOC @ 4550' | | | |

Cut & Recover 4-1/2" casing from 4450' (or as deep as possible)
 TOC @ 4550' MD/TVD (as per CBL)

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'

Geneseo Perfs: 6532' - 6548'
 Marcellus Perfs: 6630' - 6642' & 6648' - 6662'

DMH 11/20/15

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 NOV 30 2015

01/01/2016

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**
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| HOLE SIZE | FORMATION EVALUATION | FORMATION TOPS | WELLBORE DIAGRAM | CASING & CEMENTING DATA | MW & TYPE | HOLE DEV. |
|--------------------|---|--|------------------|--|-----------|-----------|
| 17" Hole Hammer | | 53' MD/TVD | | CONDUCTOR PIPE Air | | Vert |
| 15" Hole Hammer | | 940' MD/TVD | | CONDUCTOR CASING Air / Mist | | Vert |
| 11" Hole Rock Bit | Little Lime Big Lime Big Injun Base of Big Injun | 1915' MD/TVD 1985' MD/TVD 2025' MD/TVD 2190' MD/TVD | | SURFACE CASING Air / Mist | | Vert |
| | | 2350' MD/TVD | | 8-5/8" 24.0# J-55 STC @ 2332' MD/TVD Cemented to surface | | |
| | Berea | 2560' MD/TVD | | | | |
| | Gordon | 2758' MD/TVD | | | | |
| | | | | TOC @ 4550' MD/TVD (as per CBL) | | |
| | Riley | 4894' MD/TVD | | | | |
| | Benson | 5096' MD/TVD | | | | |
| 7-7/8" Hole Hammer | Lower Alexander | 5330' MD/TVD | | | | |
| | Rhinestreet | 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 | | | | |
| | | | | 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 Air | | Vert |
| | | | | 4-1/2" 11.6# P-110 LTC @ 6689' MD/TVD TOC @ 4550' | | |

DMH 11/20/15

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NOV 30 2015

01/01/2016

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

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

1/20/10
Date

Received
Office of Oil & Gas

NOV 30 2015

01/01/2016

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

1st 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

2nd 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. & 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.

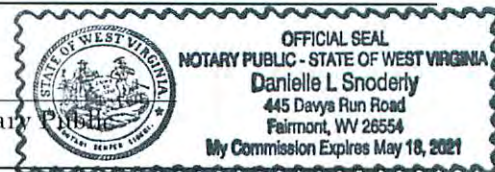
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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. Cuthright *Roger L. Cuthright*
 Its: Land Manager / Special Counsel
 Address: 1300 Fort Pierpont Drive - Suite 201
Morgantown, WV 26508
 Telephone: 304-225-1600

Received
Office of Oil & Gas
NOV 30 2015

Subscribed and sworn before me this 25th 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.

01/01/2016

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 25th 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

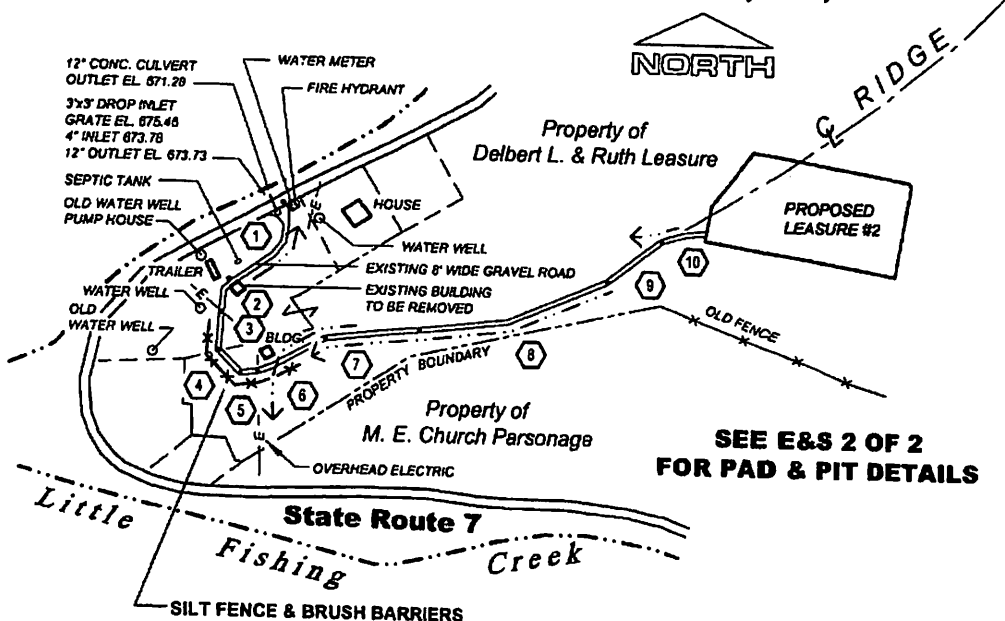
Date: 11/20/15

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**

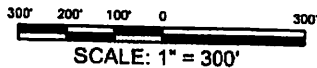
ALL SLOPES LISTED GREATER THAN 20% WILL BE CONSTRUCTED TO HAVE A SLOPE LESS THAN OR EQUAL TO 20%.

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

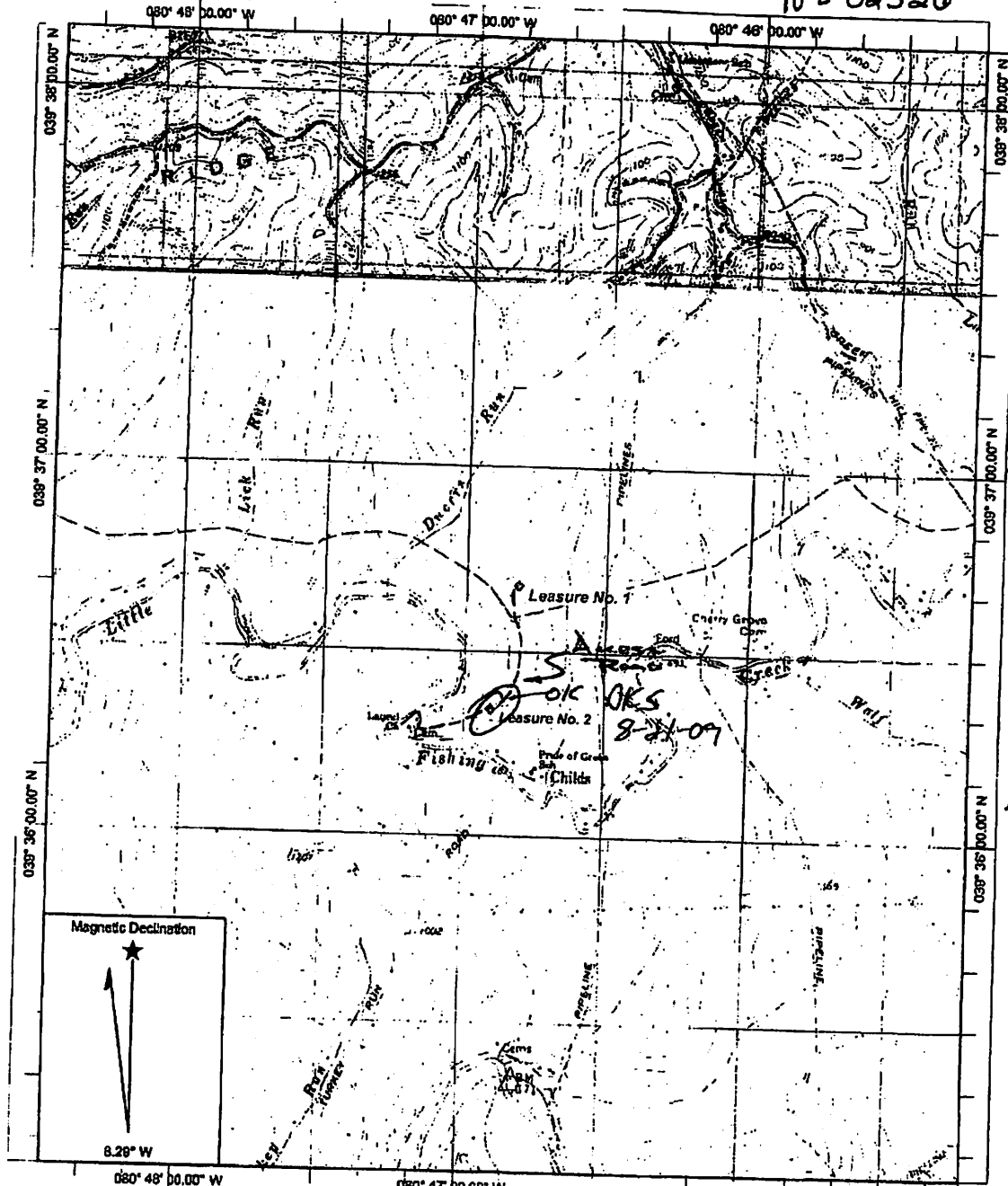


CAD FILE NO 09-201-Leasure1-E&S
REV. 9/20/09

MSES consultants, inc.

E&S 1 OF 2

103-02526

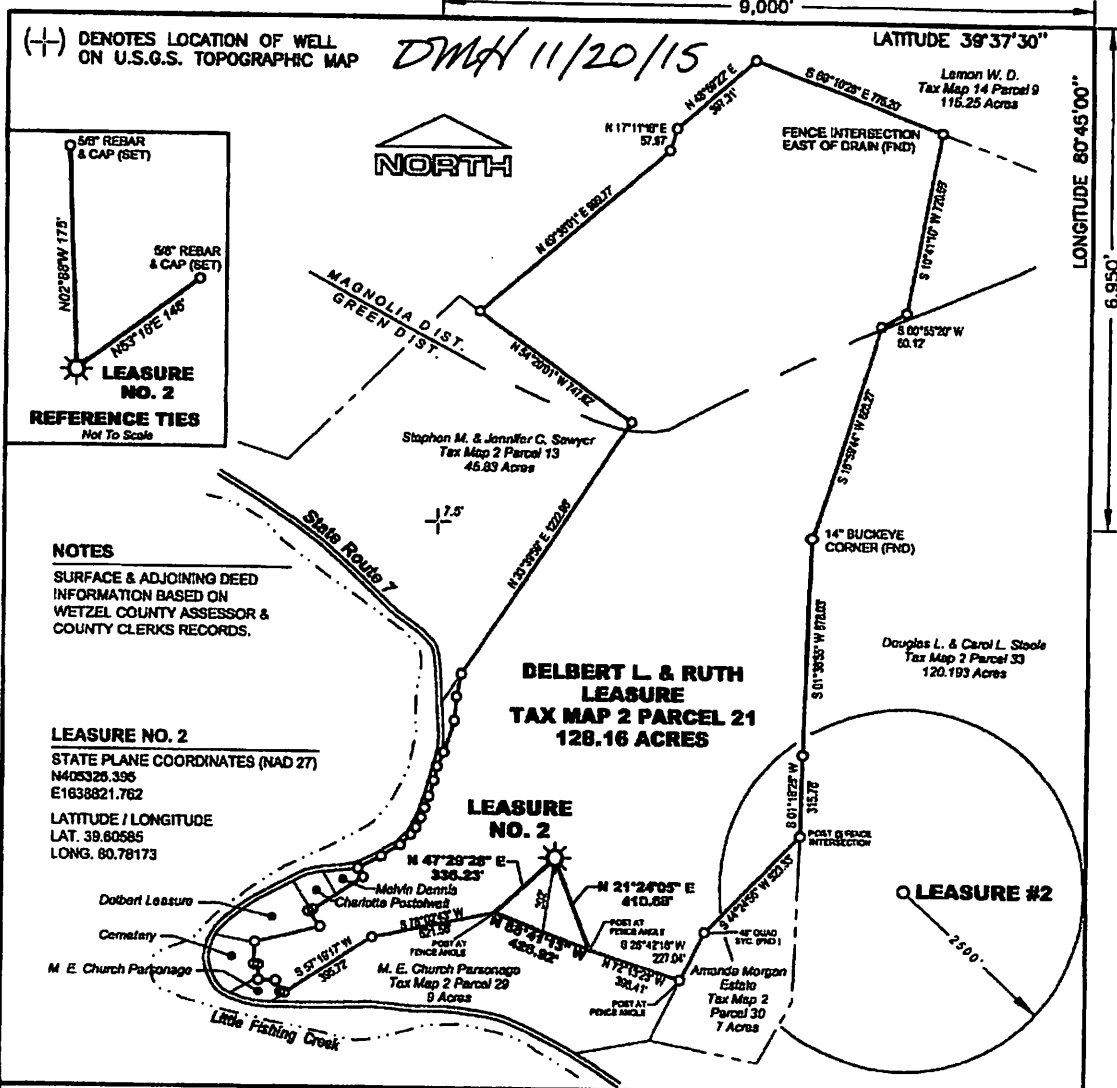


Name: PORTERS FALLS
 Date: 8/14/2009
 Scale: 1 inch equals 2000 feet

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

DMAH 11/20/15

Datum: NAD83
 Copyright (C) 2009, MyTopo

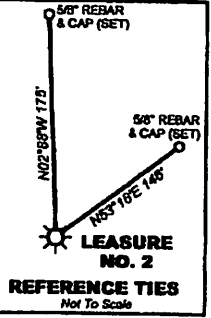


(+) DENOTES LOCATION OF WELL ON U.S.G.S. TOPOGRAPHIC MAP

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)
N405326.396
E1638821.762
LATITUDE / LONGITUDE
LAT. 39.60585
LONG. 80.78173

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. _____
STATE 47 COUNTY 103 PERMIT NO. 02526

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

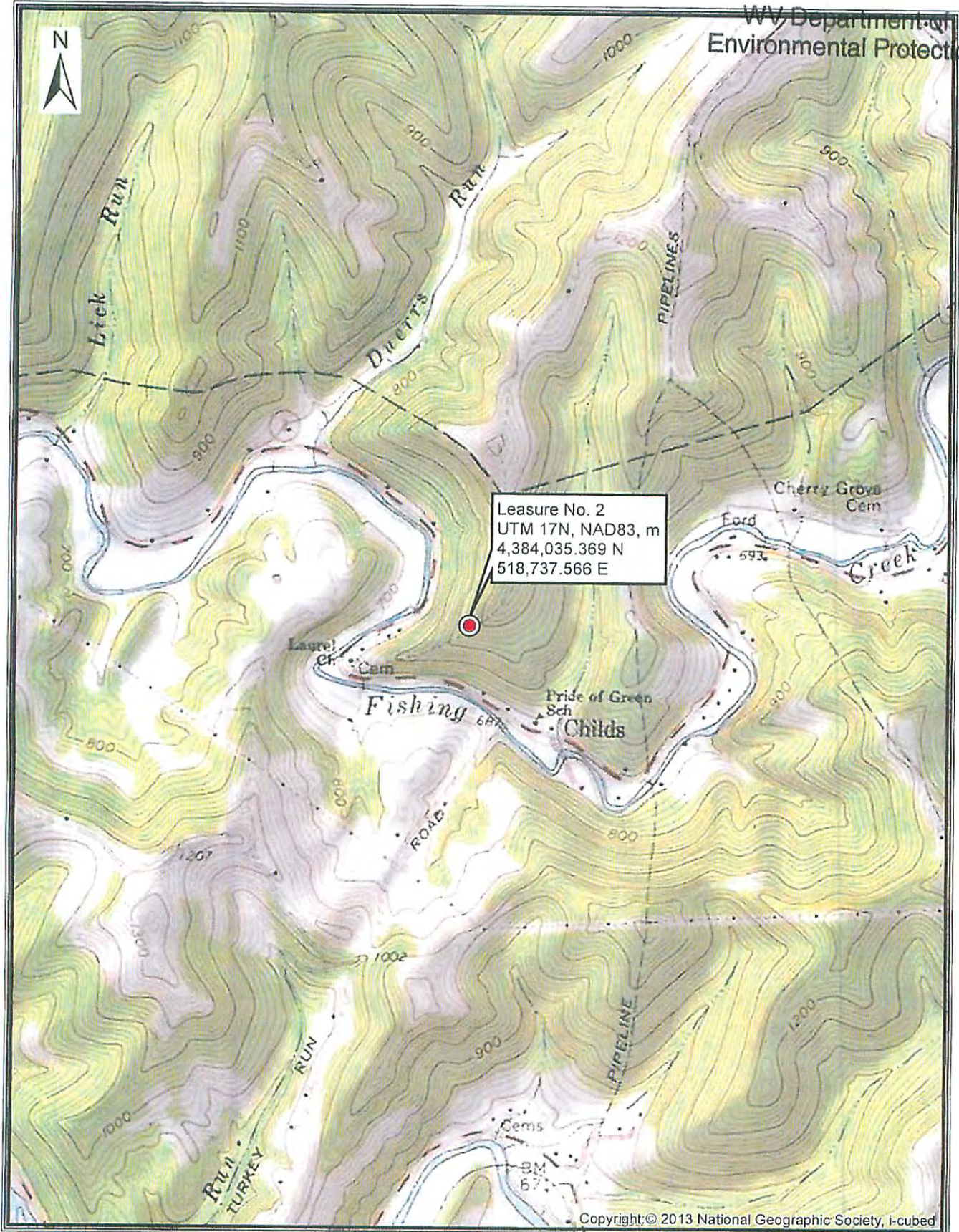
COUNTY **103**
PERMIT NO. **103**

01/01/2016

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

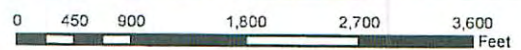
DEC 03 2015

WV Department of
Environmental Protection



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



Date: 12/2/2015

01/01/2016

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DEC 03 2015

WW-7
8-30-06

WV Department of
Environmental Protection



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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS : Post Processed Differential
Real-Time Differential
Mapping Grade GPS : Post Processed Differential
Real-Time Differential
- 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.

Drilling Engineer 12/1/2015
Signature Title Date