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 west virginia department of environmental protection
 

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Office of Oil and Gas  
 601 57<sup>th</sup> Street, S.E.  
 Charleston, WV 25304  
 (304) 926-0450  
 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Friday, April 19, 2019

WELL WORK PLUGGING PERMIT  
 Vertical Plugging

EQT PRODUCTION COMPANY  
 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for LANTZ 9  
 47-103-02433-00-00

This well work permit 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 any additional specific 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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of 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.

Per 35 CSR 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- 0450.

James A. Martin  
 Chief

Operator's Well Number: LANTZ 9  
 Farm Name: WV CONSERVATION COMM.  
 U.S. WELL NUMBER: 47-103-02433-00-00  
 Vertical Plugging  
 Date Issued: 4/19/2019

## 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.

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### 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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

1) Date December 17, 2018 **04/19/2019**  
2) Operator's  
Well No. 519051 Lantz #9  
3) API Well No. 47-103 - 02433

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 \_\_\_ or Underground storage \_\_\_) Deep \_\_\_ / Shallow X

5) Location: Elevation 1198 Watershed Buffalo Run  
District Grant County Wetzel Quadrangle Pine Grove

6) Well Operator EQT Production Company 7) Designated Agent Jason Ranson  
Address 2400 Ansys Drive- Suite 200 Address 120 Professional Place  
Canonsburg PA 15317 Bridgeport WV 26330

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Derek Haught Name HydroCarbon Well Service  
Address PO Box 85 Address PO Box 995  
Smithville WV 26178 Buckhannon WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:  
**See Attachment for details and procedures.**

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Office of Oil and Gas  
**MAR 4 2019**  
WV Department of  
Environmental Protection

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

Work order approved by inspector [Signature] Date 1-9-19

PLUGGING PROGNOS

519510  
Lantz #9  
API# 47-103-02433  
District, Grant  
Wetzel County, WV

BY: R Green  
DATE: 01/19/18

**CURRENT STATUS:**

**TD @ 6892'**  
**Elevation @ 791'**

20" casing @ 20'  
13 3/8" casing @ 473' (CTS)  
9 5/8" casing @ 1403' (CTS)  
7" casing @ 2224' (cemented with 250 sks)  
4 1/2" casing @ 6890' (cemented with 100 sks)

**Fresh Water @ 88'**  
**Saltwater @ 908'**  
**Oil Show @ None reported**  
**Gas shows @ None reported**  
**Coal @ 88', 96', 420'**

**\* MUST HAVE GEL SPACERS BETWEEN CLASS A CEMENT PLUGS. gvm**

1. Notify inspector Derek Haught @ 304-206-7613, 24 hrs. prior to commencing operations.
2. TIH check TD @ or below 6800'.
3. TIH to 6800', spot 40 bbl. of 6% gelled water followed by a 300' C1A cement plug 6800' to 6500'. WOC 8 hrs. Tag TOC, add additional C1A cement if necessary.
4. Free point 4 1/2" casing, cut casing @ free point (EST @ 5900'). TOO H 4 1/2" casing.
5. Set a 100' C1A cement plug 50' in/out of casing cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
6. TOO H to 5000' set a 200' C1A cement plug 5000' to 4800' (Benson & Riley sand).
7. TOO H to 2700' set a 200' C1A cement plug 2700' to 2500' (Gordon sand).
8. TOO H to 2300' set a 200' C1A cement plug 2300' to 2100' (7" casing seat).
9. Free point 7" casing, cut casing @ free point (EST @ 1690'). TOO H 7" casing.
10. Set a 100' C1A cement plug 50' in/out of casing cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
11. TOO H to 1450' set a 100' C1A cement plug, 1450' to 1350' (9 5/8" casing seat).
12. TOO H to 950' set a 100' C1A cement plug 950' to 850' (Saltwater).
13. TOO H to 500' set a 500' C1A cement plug 500' to surface. (13 3/8" casing seat, coal, & freshwater.)
14. Erect monument with API#, date plugged, & company name.
15. Reclaim location and road to WV-DEP specifications.

DAH  
1-7-19

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Office of Oil and Gas

MAR 4 2019

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

Well Operator's Report of Well-Work

Farm name: MILLS/WETZEL WACOVS COMM Operator Well No.: LAUTZ #9

LOCATION: Elevation: 788' Quadrangle: PINE GROVE 75

District: GRANT County: WETZEL Latitude: 8890 Feet South of 31 Deg. 31 Min. 02.5 Sec. Longitude: 5110 Feet West of 80 Deg. 38 Min. 34.6 Sec.

Table with columns: Company, Address, Agent, Inspector, Date Permit Issued, Date Well Work Commenced, Date Well Work Completed, Verbal Plugging, Date Permission granted on, Rotary Cable Rig, Total Depth (feet), Fresh Water Depth (ft.), Salt Water Depth (ft.), Is coal being mined in area (N/A)?, Coal Depths (ft.).

RECEIVED Office of Oil & Gas AUG 13 2009

OPEN FLOW DATA

Producing formation MARCELLUS Pay zone depth (ft) 6874-6872 Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d Final open flow MCF/d Final open flow Bbl/d Time of open flow between initial and final tests Hours Static rock Pressure 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.

Signed: [Signature] By: [Signature] Date: 8/10/09

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WV Department of Environmental Protection

Pine Grove 9

WR-35 pg2  
Lantz #9  
03-01-09  
47-103-02433

<u>Stage #1</u>	perfs	sand/water	avg rate	isip
Marcellus	un-stimulated			

Stage #2

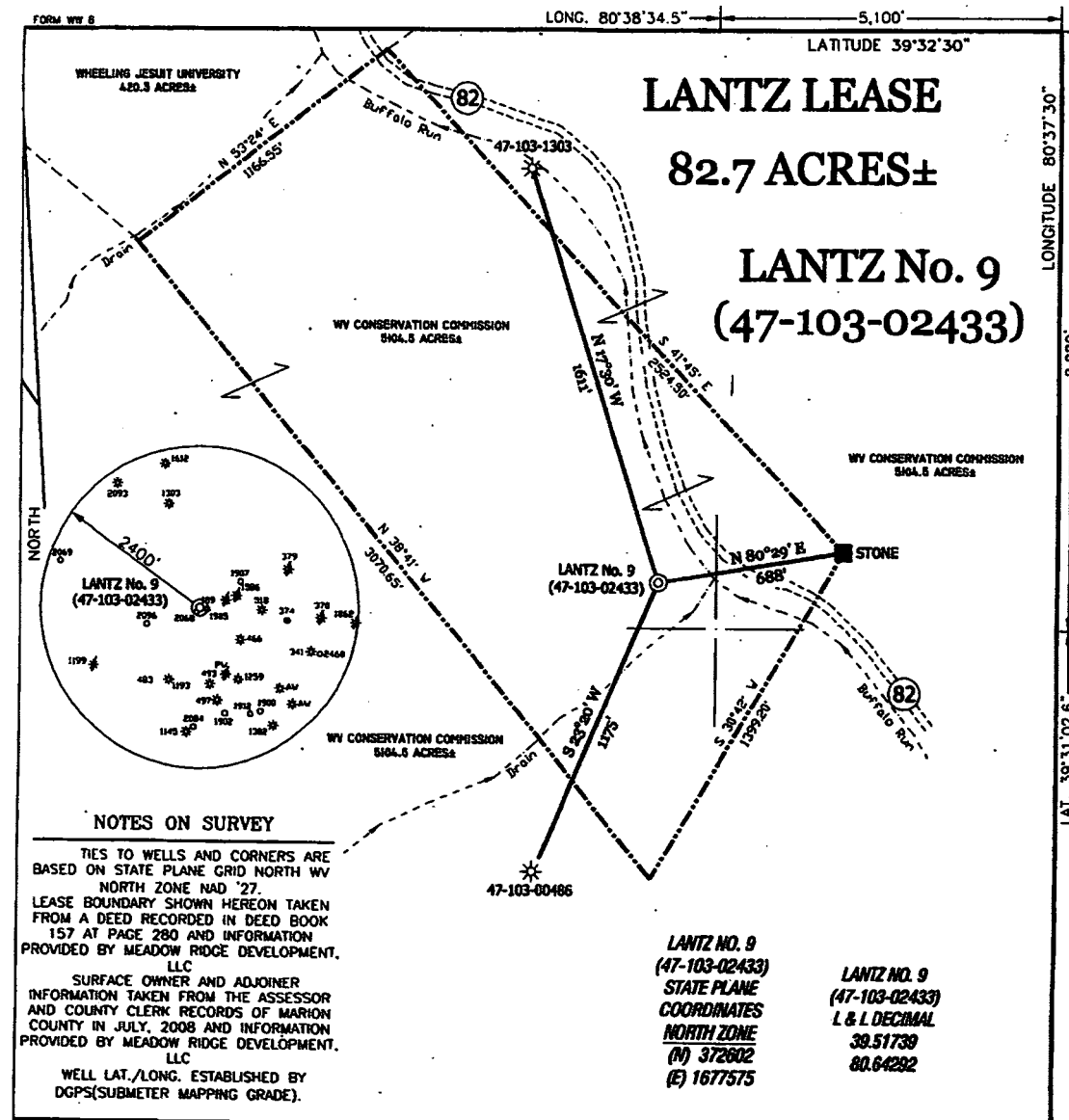
Drillers Log

Fill	0	25
Sd/Sh	25	88
Coal	88	92
Sd/Sh	92	96
Coal	96	104
Sd/Sh	104	420
Coal	420	425
Sd/Sh	425	698
Red Rk	698	730
Sd/Sh	730	1371
Sh	1371	1390
W/Sd	1390	1481
Sd	1481	1524
G/Sd/Sh	1524	1570
Red Rk	1570	1595
Sd/Sh	1595	1699
Sd	1699	1773
G/Sd	1773	1980
Sh	1980	2108
Inj Sd	2108	2135
Sd/Sh	2135	2542
Sh/Sd	2542	2580
Gor/Sd	2580	2600
Sd/Sh	2600	4850
Ril/Sd	4850	4860
Sd/Sh	4860	4970
Ben/Sd	4970	4990
Sd/Sh	4990	5255
Alz/Sd	5255	5345
Sd/Sh	5345	6703
Gen/Sh	6703	6728
Tul/Sd	6728	6824
Mar/Sh	6824	6872
Ond/Sd	6872	6880
TD	6892	

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**NOTES ON SURVEY**

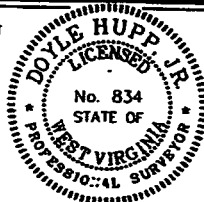
TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A DEED RECORDED IN DEED BOOK 157 AT PAGE 280 AND INFORMATION PROVIDED BY MEADOW RIDGE DEVELOPMENT, LLC. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MARION COUNTY IN JULY, 2008 AND INFORMATION PROVIDED BY MEADOW RIDGE DEVELOPMENT, LLC. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

**LANTZ NO. 9 (47-103-02433)**  
**STATE PLANE COORDINATES NORTH ZONE**  
 (N) 372602 (E) 1677575

**LANTZ NO. 9 (47-103-02433)**  
**L & L DECIMAL**  
 39.51739 80.64282

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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 834 *Doyle Hupp Jr.*  
 HUPP Surveying & Mapping  
 P.O. Box 647 Greensville, WV 26147  
 (304) 354-1033 Email: hupp@doylehupp.com



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE AUGUST 11, 2009  
 OPERATORS WELL NO. LANTZ NO. 9  
 API WELL NO. 47-103-02433 F  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. W1719 (BK38-3)  
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER GRADE) SCALE 1" = 500'

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

WELL TYPE : OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ IF "GAS" PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION : ELEVATION 791' WATERSHED BUFFALO RUN  
 DISTRICT GRANT COUNTY WETZEL QUADRANGLE PINE GROVE 7.5'  
 SURFACE OWNER WV CONSERVATION COMMISSION ACREAGE 5104.5±  
 ROYALTY OWNER LEWIS E. LANTZ III, et al LEASE ACREAGE 82.7±  
 PROPOSED WORK : LEASE NO. \_\_\_\_\_  
 DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_ OTHER \_\_\_  
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7200'

WELL OPERATOR MEADOW RIDGE DEVELOPMENT, LLC DESIGNATED AGENT ROGER L. CUTRIGHT  
 ADDRESS P.O. BOX 1549 WASHINGTON, PA 15301 ADDRESS 256 HIGH STREET MORCANTOWN, WV 26507

LONGITUDE 80°37'30" LAT. 39°31'02.6"

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DEC 26 2018

WV Department of Environmental Protection

Pine Grove 9

WW-4A  
Revised 6-07

1) Date: December 17, 2018  
2) Operator's Well Number  
519051 Lantz #9  
3) API Well No.: 47 - 103 - 02433

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>See Attached</u>	Name _____
Address _____	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>See Attached</u>
(c) Name _____	Address _____
Address _____	Name _____
6) Inspector <u>Derek Haught</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 85</u>	Name _____
<u>Smithville WV 26178</u>	Address _____
Telephone <u>(304) 206-7613</u>	_____

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Office of Oil and Gas

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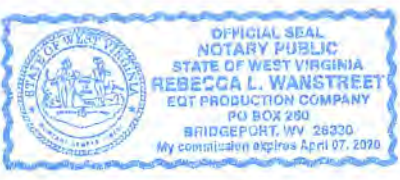
WV Department of  
Environmental Protection

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 EQT Production Company  
 By: Erin Spine  
 Its: Regional Land Supervisor  
 Address 2400 Ansys Drive, Suite 200  
Canonsburg PA 15317  
 Telephone (304) 848-0035

Subscribed and sworn before me this 18 day of December, 2018  
Rebecca L. Wanstreet Notary Public  
 My Commission Expires 4-7-2020

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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).



47-103-02433

519051 Lantz #9

**Owner(s) (Surface and Access)**

West Virginia Conservation Commission  
PO Box 99  
Farmington WV 26571

**Coal Owner(s)**

Mills Wetzel Land Inc.  
Suite 240  
222 N. LaSalle St.  
Chicago IL 60601

Reserve Coal Properties Inc.  
CNX Center  
1000 Consol Energy Drive  
Canonsburg PA 15317

CNX Gas Company LLC  
1000 Consol Energy Drive  
Canonsburg PA 15317

**Potential Water Owner(s):**

N/A

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WV Department of  
Environmental Protection

WW-9  
(5/16)

API Number 47 - 103 - 02433  
Operator's Well No. 519051 Lantz #9

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) Buffalo Run Quadrangle Pine Grove

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: Formation Fluids

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? 20 ml

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_ )

DH  
1-7-19

Will closed loop system be used? If so, describe: \_\_\_\_\_

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. \_\_\_\_\_

-If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? \_\_\_\_\_

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. \_\_\_\_\_

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

-Landfill or offsite name/permit number? \_\_\_\_\_

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 April 1, 2016, 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.

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Office of Oil and Gas

Company Official Signature [Signature]

Company Official (Typed Name) Erin Spine

Company Official Title Regional Land Supervisor

MAR 4 2019

WV Department of  
Environmental Protection

Subscribed and sworn before me this 18 day of December, 20 18

Rebecca L. Wanstreet

Notary Public

My commission expires 4-7-2020



Proposed Revegetation Treatment: Acres Disturbed 1± Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type (10-20-20) or equivalent

Fertilizer amount 1/3 ton lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Aslike Clover	5	Aslike Clover	5
Annual Rye	15		

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

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

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WV Department of  
Environmental Protection

Title: Oil & Gas Inspector Date: 1-7-19

Field Reviewed?  Yes  No

<b>EQT Production Water plan</b> <b>Offsite disposals</b>
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**Waste Management - Meadowfill Landfill**

Rt. 2, Box 68 Dawson Drive  
Bridgeport, WV 26330  
304-326-6027  
Permit #SWF-1032-98  
Approval #100785WV

**Waste Management - Northwestern Landfill**

512 E. Dry Road  
Parkersburg, WV 26104  
304-428-0602  
Permit #SWF-1025 WV-0109400  
Approval #100833WV

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47-103-02433P

04/19/2019

Topo Quad: Pine Grove 7.5'

Scale: 1" = 200'

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County: Wetzel

Date: November 6, 2018

DEC 26 2018

District: Grant

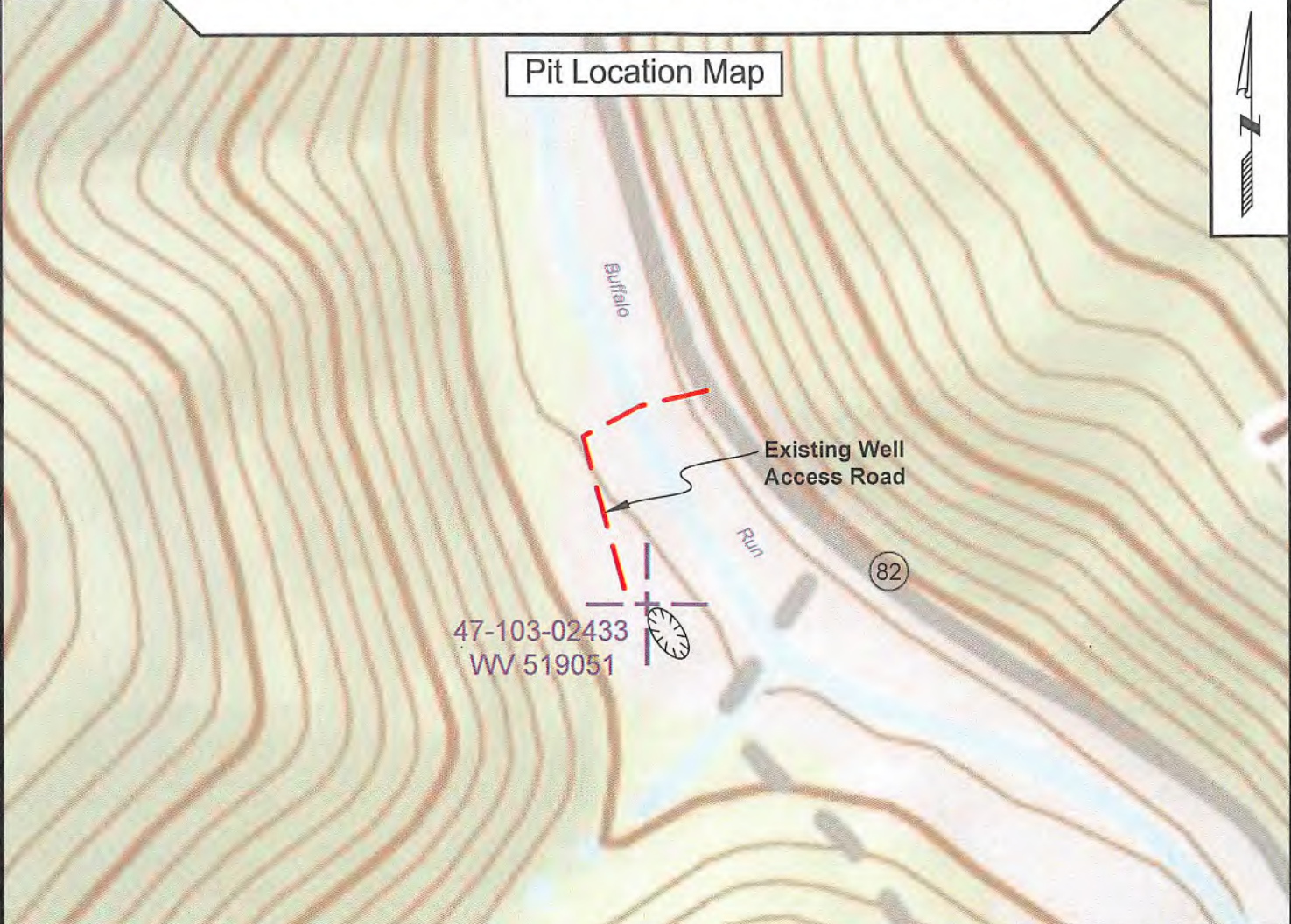
Project No: 40-34-00-09

WV Department of  
Environmental Protection

**47-103-02433 WV 519051 (Lantz #9)**

Topo

Pit Location Map



47-103-02433  
WV 519051

Existing Well  
Access Road

82

**NAD 27, North Zone**  
**N:372588.87**  
**E:1677550.75**

**WGS 84**  
**LAT:39.517425**  
**LONG:-80.642814**  
**ELEV:782.57**

**LEGEND**



Proposed Pit Location



SURVEYING AND MAPPING SERVICES PERFORMED BY:

**ALLEGHENY SURVEYS, INC.**

1-800-482-8606  
237 Birch River Road  
Birch River, WV 26610  
PH: (304) 649-8606  
FAX: (304) 649-8608

PREPARED FOR:

**EQT Production Company**

2400 Ansys Drive  
Canonsburg, PA 15317

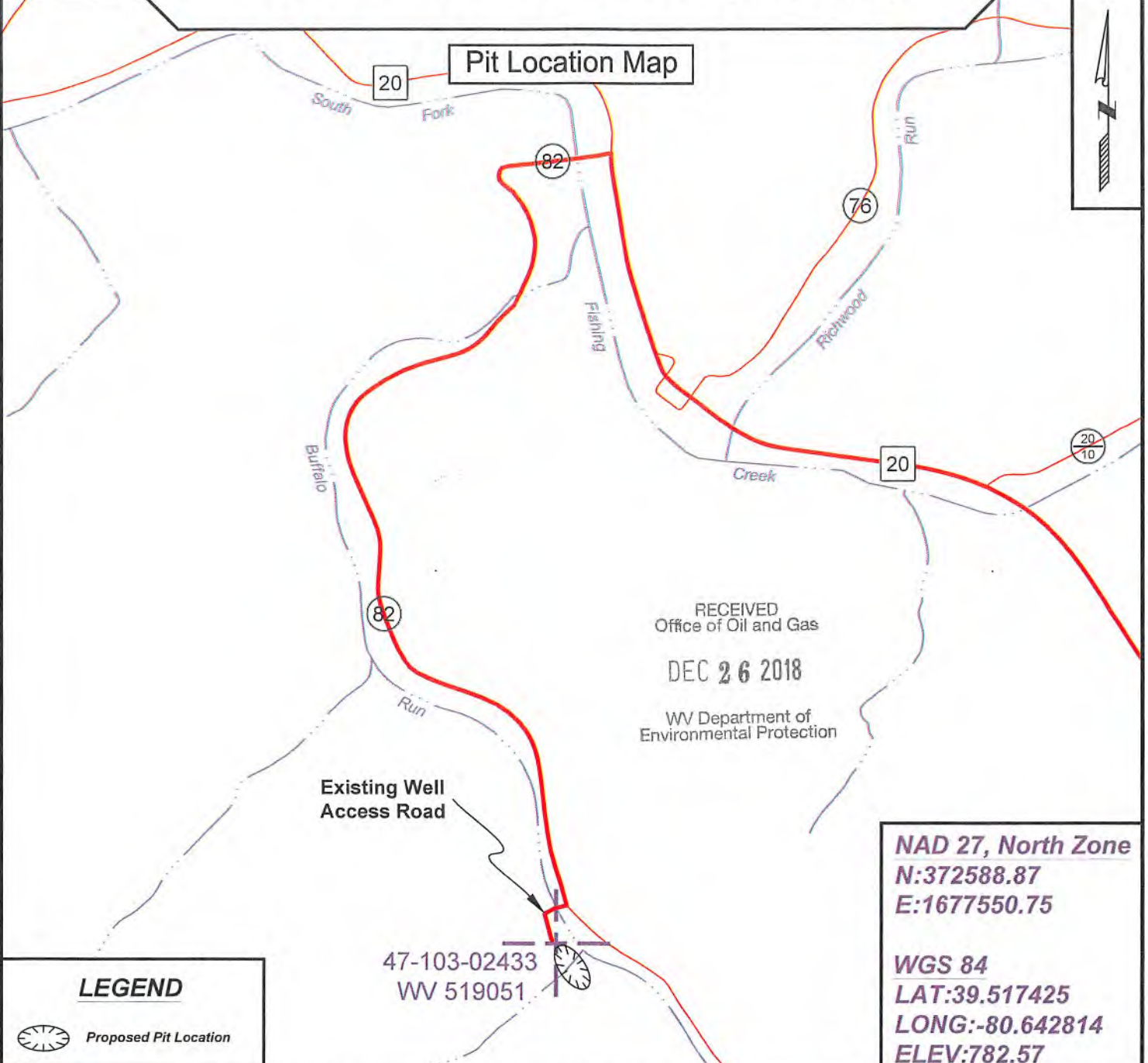


Topo Quad: Pine Grove 7.5'	Scale: 1" = 500'
County: Wetzel	Date: November 6, 2018
District: Grant	Project No: 40-34-00-09

Highway

# 47-103-02433 WV 519051 (Lantz #9)

## Pit Location Map




Existing Well  
Access Road

47-103-02433  
WV 519051

**NAD 27, North Zone**  
**N:372588.87**  
**E:1677550.75**

**WGS 84**  
**LAT:39.517425**  
**LONG:-80.642814**  
**ELEV:782.57**

### LEGEND

 Proposed Pit Location



SURVEYING AND MAPPING SERVICES PERFORMED BY:

### ALLEGHENY SURVEYS, INC.

1-800-482-8606  
237 Birch River Road  
Birch River, WV 26610  
PH: (304) 649-8606  
FAX: (304) 649-8608

PREPARED FOR:

### EQT Production Company

2400 Ansys Drive  
Canonsburg, PA 15317



47-103-02433P

04/19/2019

Office of Oil and Gas

Topo Quad: Pine Grove 7.5'

Scale: 1" = 2000'

County: Wetzel

Date: November 6, 2018

DEC 26 2018

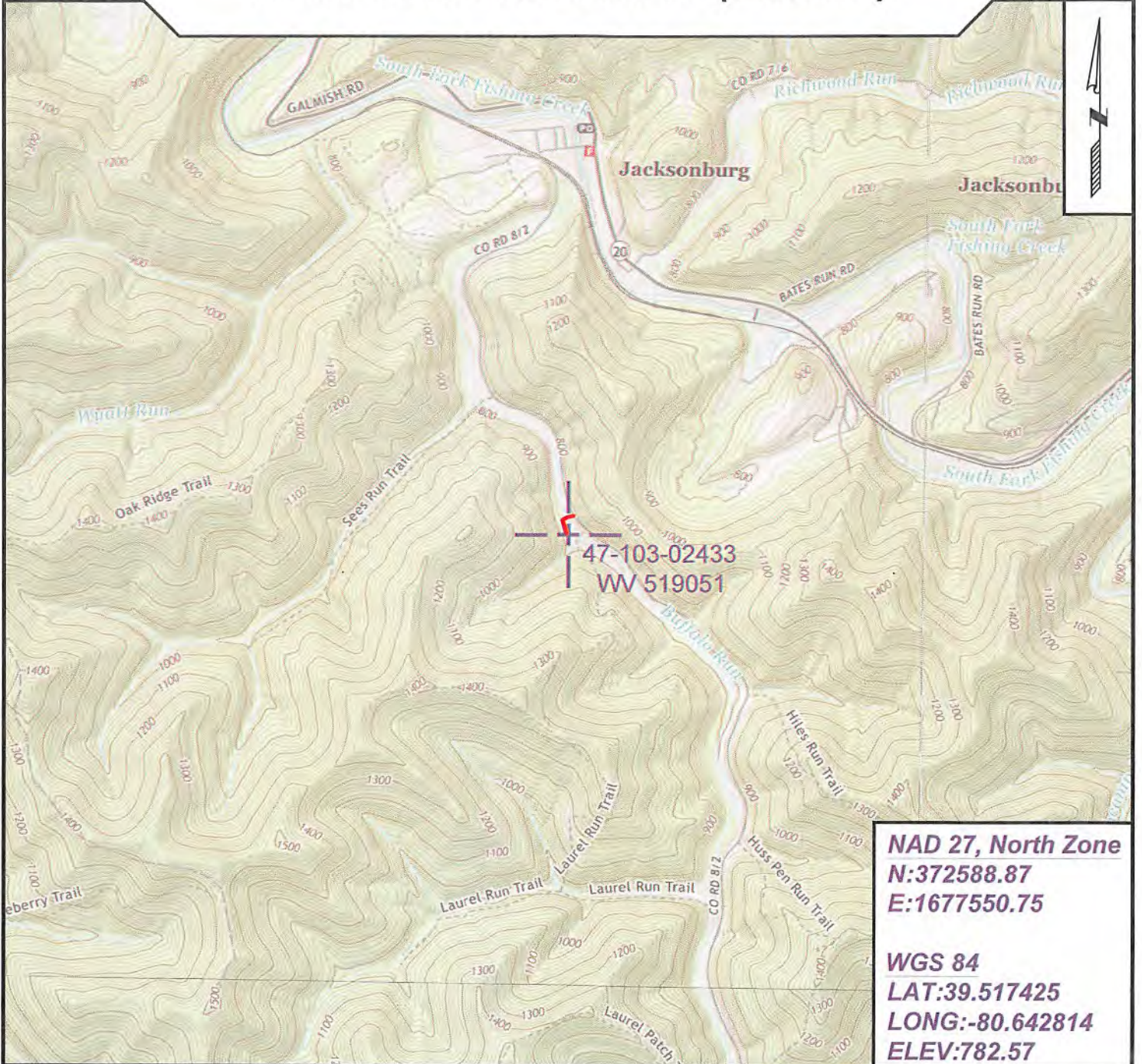
District: Grant

Project No: 40-34-00-09

WV Department of Environmental Protection

# 47-103-02433 WV 519051 (Lantz #9)

Topo



**NAD 27, North Zone**  
**N:372588.87**  
**E:1677550.75**

**WGS 84**  
**LAT:39.517425**  
**LONG:-80.642814**  
**ELEV:782.57**



SURVEYING AND MAPPING SERVICES PERFORMED BY:

**ALLEGHENY SURVEYS, INC.**

1-800-482-8606  
 237 Birch River Road  
 Birch River, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

PREPARED FOR:

**EQT Production Company**

2400 Ansys Drive  
 Canonsburg, PA 15317



WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas  
**WELL LOCATION FORM: GPS**

RECEIVED  
Office of Oil and Gas

DEC 26 2018

WV Department of  
Environmental Protection

API: 47-103-02433 WELL NO.: WV 519051 (Lantz #9)

FARM NAME: Lantz

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Wetzel DISTRICT: Grant

QUADRANGLE: Pine Grove 7.5'

SURFACE OWNER: West Virginia Conservation Commission

ROYALTY OWNER: Robert Lantz Miller, et al.

UTM GPS NORTHING: 4374259

UTM GPS EASTING: 530703 GPS ELEVATION: 238 m (783 ft)

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  X  : Post Processed Differential  X   
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

PS# 2180  
Title

11/6/18  
Date