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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)

Wednesday, August 5, 2020  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

EQT PRODUCTION COMPANY  
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for 5201  
47-049-00449-00-00

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: 5201  
Farm Name: RICHARD L. AND LINDA K.   
U.S. WELL NUMBER: 47-049-00449-00-00  
Vertical Plugging  
Date Issued: 8/5/2020

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.
4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

- 1) Date May 4, 2020  
 2) Operator's  
     Well No. 605201 Charles King #5201  
 3) API Well No. 47-049 - 00449 P

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 1268' Watershed Johnson Run  
 District Fairmont County Marion Quadrangle Fairmont West 7.5'
- 6) Well Operator EQT Production Company 7) Designated Agent Joseph C. Mallow  
 Address 400 Woodcliff Drive Address 115 Professional Place  
Canonsburg PA 15317 Bridgeport WV 26330
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
 Name Sam Ward Name HydroCarbon Well Service  
 Address PO Box 2327 Address PO Box 995  
Buckhannon, WV 26201 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

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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

*Samuel Reynolds*

Date

5-6-20

## PLUGGING PROGNOSIS

602886  
 C.King #1  
 Marion Co. WV  
 District, Fairmont  
 API # 47-049-00449

BY: R. Green  
 DATE: 1/2/20

**CURRENT STATUS:**

**TD @ 2919'**  
**Elevation @ well not yet surveyed.**

16" casing @ 16'  
 10" casing @ 580'  
 8 1/4" casing @ 1554' (Pulled)  
 6 5/8" casing @ 1870'  
 5 3/16" casing @ 2790' (set on packer @ 2790')

Fresh Water @ None Reported  
 Coal @ 410'-415', 525'-532'  
 Saltwater @ 1470'  
 Oil Show @ None Reported  
 Gas shows @ 1230', 2892', & 2915'

SHOT @ 2899'

1930

KEN GRAYNElds 304-206-6613

1. Notify State Inspector, **Sam Ward 304-389-7583**, 48 hrs. prior to commencing operations.
2. TIH wireline, check TD and locate 6 5/8" packer.
3. TIH to 2900', spot 40 bbl. of 6% gelled water followed by a 200' CIA cement plug, 2900'-2700', (gas show and 5 3/16" packer & casing seat). WOC 8 hrs. Tag TOC, add additional CIA cement if necessary.
4. Free point 5 3/16" casing, cut casing @ free point. TOOH 5 3/16" casing.
5. TIH set a 100' CIA 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. TOOH to 1920', set a 100' CIA cement plug 1920' to 1820' (6 5/8" casing seat).
7. Free point 6 5/8" casing, cut casing @ free point. TOOH 6 5/8" casing.
8. TIH set a 100' CIA cement plug 50' in/out of casing cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
9. TOOH to 1600', set a 100' CIA cement plug 1600' to 1500' (8 1/4" casing seat).
10. \*Note elevation plug to be determined after well is surveyed.
11. TOOH to 650', set a 150' CIA cement plug 650' to 500' (10" casing seat).

1268' ELEVATION 100' PLUS COVERING

12. Free point 10" casing, cut casing @ free point. TOOH 10" casing.
13. TIH set a C1A cement plug 50' in casing cut to surface. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
14. \*Note if unable to cut and pull 10" casing, TIH wireline and perforate 10" casing with 3 holes each @ 400', 300', 200', and 150'. TIH and set a 500' C1A cement plug 500' to surface.
15. Erect monument with API#, company name , & date plugged
16. Reclaim location and road to WV-DEP specifications.

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WV Department of  
Environmental Protection



47-049-00449 P

WW-4A  
Revised 6-07

1) Date: April 30, 2020  
2) Operator's Well Number  
605201 Charles King #5201  
3) API Well No.: 47 - 049 - 00449

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 Richard L & Linda K Richardson	Name _____
Address 217 Main St	Address _____
Worthington, WV 26591	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name F Rex Heirs, c/o Marion Co. 4-H Camp
	Address 314 Monroe St
	Fairmont, WV 26554
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector Sam Ward	(c) Coal Lessee with Declaration
Address PO Box 2327	Name _____
Buckhannon, WV 26201	Address _____
Telephone 304-389-7583	

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 <i>[Signature]</i>
Its:	Supervisor - Subsurface Permitting
Address	400 Woodcliff Drive
	Canonsburg PA 15317
Telephone	(724) 271-7380

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MAY 11 2020

WV Department of Environmental Protection

Subscribed and sworn before me this 30th day of April, 2020  
*Rebecca Shrum*  
My Commission Expires March 9, 2024

Notary Public

Commonwealth of Pennsylvania - Notary Seal  
**Rebecca Shrum, Notary Public**  
 Beaver County  
 My commission expires March 9, 2024  
 Commission number 1267706  
 Member, Pennsylvania Association of Notaries

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).

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) Johnson Run Quadrangle Fairmont West 7.5'

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  **ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS AND DISPOSED OFF SITE. JMM**

If so, please describe anticipated pit waste: Formation Fluids

Will a synthetic liner be used in the pit? Yes  No  If so, what 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 \_\_\_\_\_)

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.

Company Official Signature [Signature]  
Company Official (Typed Name) Erin Spine  
Company Official Title Supervisor - Subsurface Permitting

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WV Department of  
Environmental Protection

Subscribed and sworn before me this 30th day of April, 2020

Rebecca Shrum Notary Public

My commission expires March 9, 2024

Commonwealth of Pennsylvania - Notary Seal  
Rebecca Shrum, Notary Public  
Beaver County  
My commission expires March 9, 2024  
Commission number 1267706  
Member, Pennsylvania Association of Notaries

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: *Ernest Reynolds*

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

Title: *OIL + GAS INSPECTOR* Date: *5-6-20*

Field Reviewed? ( ) Yes (  ) No

**EQT Production Water plan**  
**Offsite disposals**

**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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Topo Quad: Fairmont West 7.5'

Scale: 1" = 2000'

County: Marion

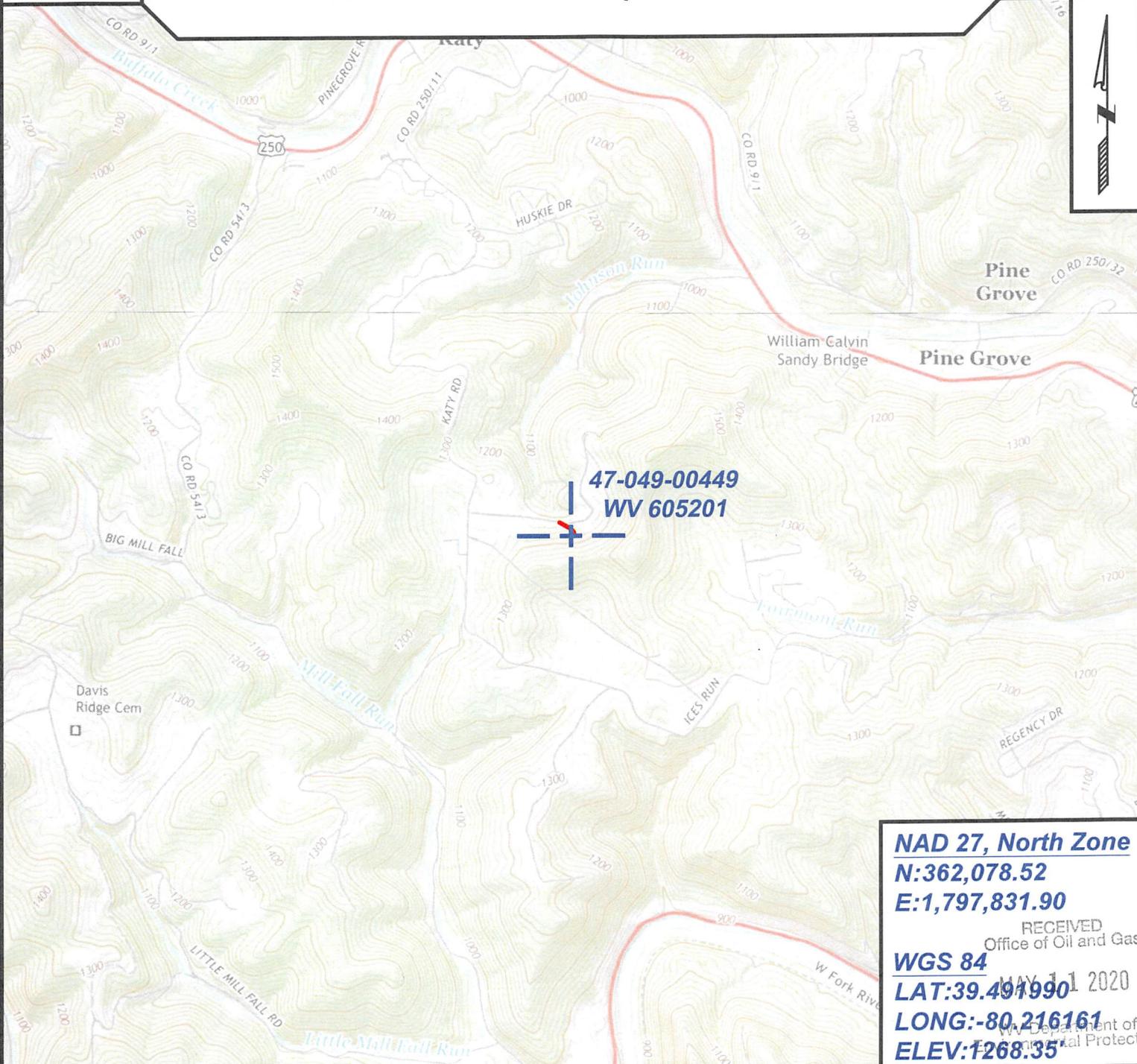
Date: April 29, 2020

District: Fairmont

Project No: 74-18-00-08

# 47-049-00449 WV 605201 (Charles King #5201)

Topo



**47-049-00449  
WV 605201**

**NAD 27, North Zone**  
**N:362,078.52**  
**E:1,797,831.90**

**WGS 84**  
**LAT:39.491990**  
**LONG:-80.216161**  
**ELEV:1268.35'**

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WV Department of Environmental Protection

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

400 Woodcliff Drive  
Canonsburg, PA 15317



WW-7  
8-30-06



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

API: 47-049-00449 WELL NO.: WV 605201 (Charles King #5201)

FARM NAME: Charles King

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Marion DISTRICT: Fairmont

QUADRANGLE: Fairmont West 7.5'

SURFACE OWNER: Richard L. and Linda K. Richardson

ROYALTY OWNER: Paul M. and Doris B. McCoy

UTM GPS NORTHING: 4371669

UTM GPS EASTING: 567402 GPS ELEVATION: 386 m (1268 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

4/29/2020  
Date