



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
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 WV 651731 (NAY HEIRS 598)
47-103-00812-00-00

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: WV 651731 (NAY HEIRS 598)
Farm Name: SHIMP, LARRY & MARY
U.S. WELL NUMBER: 47-103-00812-00-00
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

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.

WW-4B
Rev. 2/01

1) Date May 19, 2020
2) Operator's
Well No. 651731 Ney Heirs #598
3) API Well No. 47-103 - 00812 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 1346' Watershed North Fork
District Grant County Wetzel Quadrangle Big Run 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 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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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 5/19/20

PLUGGING PROGNOSIS

651731
 Nay Heirs 598
 API# 47-103-00812
 Big Run Quad
 Wetzel County, WV

BY: J. Horvath
 DATE: 4/29/2020

CURRENT STATUS:

TD @ UNK
Elevation @ Not yet surveyed

10" casing @ UNK
 8 1/4" casing @ UNK
 6 5/8" casing @ UNK
 2" tubing @ 3176' (Set on 2" X 5 3/16" packer @ 3126')
 Perf'd @ 3145.5'

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Fresh Water @ No record
Saltwater @ No record
Oil Show @ No record
Gas shows @ No record
Coal @ No record

DWH 5/19/20

1. Notify inspector, Derek Haught @ 304-206-7613, 24 hrs. prior to commencing operations.
 2. TIH check TD @ or below 3176'.
 3. If TD is good, RIH with wireline and shoot off 2" above packer at 3126'.
 4. TOOH with tubing and RIH with wireline and run CCL to determine next casing information.
 5. Notify EQT rep and DEP inspector of casing information. Determine next steps.
 6. TIH with tubing and set a plug from top of packer to determined depth with DEP inspector, WOC 8 hrs., Tag TOC, add additional C1A cement if necessary. Use gel spacers and cement as necessary to get to 100' below next casing seat (6 5/8" casing).
 7. Free point 6 5/8" casing, cut casing @ free point. TOOH 6 5/8".
 8. RIH with wireline and run CCL on 8 1/4" casing and determine next casing information.
 9. Set a C1A cement plug 50' in/out of casing cut. Set plugs as necessary up to 100' below 8 1/4" casing seat.
 10. Free point 8 1/4" casing, cut casing @ free point. TOOH 8 1/4". Set a C1A cement plug 50' in/out of casing cut.
 11. **NOTE * Elevation plug to be determined after well is surveyed.**
 12. Free point 10" casing, cut casing @ free point. TOOH 10". Set a C1A cement plug 50' in/out of casing cut. **Note* If unable to cut and pull 10" casing. TIH wireline and perforate 10" casing every 100' with 5 holes each from determined bottom depth to 150'.**
 13. TIH set a C1A cement plug to surface.
 14. Erect monument with API#, date plugged, company name, and company 6-digit ID#.
 15. Reclaim location and road to WV-DEP specifications.
- 6% gel spacers will be used between plugs.**

11-2-9-1921
CARNEGIE NATURAL GAS COMPANY *11-2-9-1921* **LEASE No. 3715-711**

TUBING RECORD of Kilson way No. 598

Well Tubed Aug 15 1921 With 3 1/2 Ft. of 2" Tubing

Kind of Packer Anchor Size 5 3/16 x 9 Set at 3126 Ft.

No. Jts Above Packer 150 Size 2" No. Jts Below 3 Size 2"

TUBING TRANSFERRED FROM _____ Perforation at 3145-60'

	Feet	PRESSURE IN <u>2"</u>
<u>Phillips #783</u>	<u>1630-10"</u>	1 Min <u>10</u> Lbs.
<u>Mary #2</u>	<u>1619</u>	2 Min <u>15</u> Lbs.
_____	_____	3 Min <u>17</u> Lbs.
_____	_____	4 Min <u>20</u> Lbs.
_____	_____	5 Min <u>23</u> Lbs.
_____	_____	Rock <u>178</u> Lbs.

Chgd. to Well 3248-10 Feet Vol. by Water 7/10 in 2"

Put in Well 3176 Feet Vol. by Mercury _____ in _____

Left at Well 42-12 Feet AMyahu Foreman.

WW-4A
Revised 6-07

1) Date: May 7, 2020
2) Operator's Well Number
651731 Nay Heirs #598

3) API Well No.: 47 - 103 - 00812

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>Larry & Mary Shimp</u>	Name _____
Address <u>13871 North Fork Rd</u>	Address _____
<u>Smithfield, WV 26437</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Murray Energy Corp - Attn Mason Smith</u>
_____	Address <u>46226 National Rd</u>
_____	<u>St Clairsville, OH 43950</u>
(c) Name _____	Name <u>Lou D & W B Charlton</u>
Address _____	Address <u>1550 KM Ranch Rd</u>
_____	<u>Whitefish, MT 59937</u>
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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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: John Zavatchan
 Its: Project Specialist IV
 Address 400 Woodcliff Drive
Canonsburg PA 15317
 Telephone (724) 746-9073

Commonwealth of Pennsylvania - Notary Seal
 Olivia Pishioneri, Notary Public
 Allegheny County
 My commission expires October 25, 2023
 Commission number 1359968
 Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 7th day of May, 2020 _____ Notary Public

My Commission Expires October 25, 2023

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.

WW-9
(5/16)

API Number 47 - 103 - 00812
Operator's Well No. 651731 Nay Heirs #598

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) North Fork Quadrangle Big Run 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 WILL BE CONTAINED IN TANKS & DISPOSED OFF SITE, PROPERLY. *JMM*

If so, please describe anticipated pit waste: _____

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: DMAH 5/19/20

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

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

MAY 22 2020

Additives to be used in drilling medium? _____

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

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-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) John Zavatchan

Company Official Title Project Specialist IV

Subscribed and sworn before me this 7th day of May, 2020

[Signature] Notary Public

My commission expires October 25, 2023

Commonwealth of Pennsylvania - Notary Seal
Olivia Pishoneri, Notary Public
Allegheny County
My commission expires October 25, 2023
Commission number 1359968
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

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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: Derek M. Haught

Comments:

Title: Oil & Gas Inspector Date: 5/19/20

Field Reviewed? (X) 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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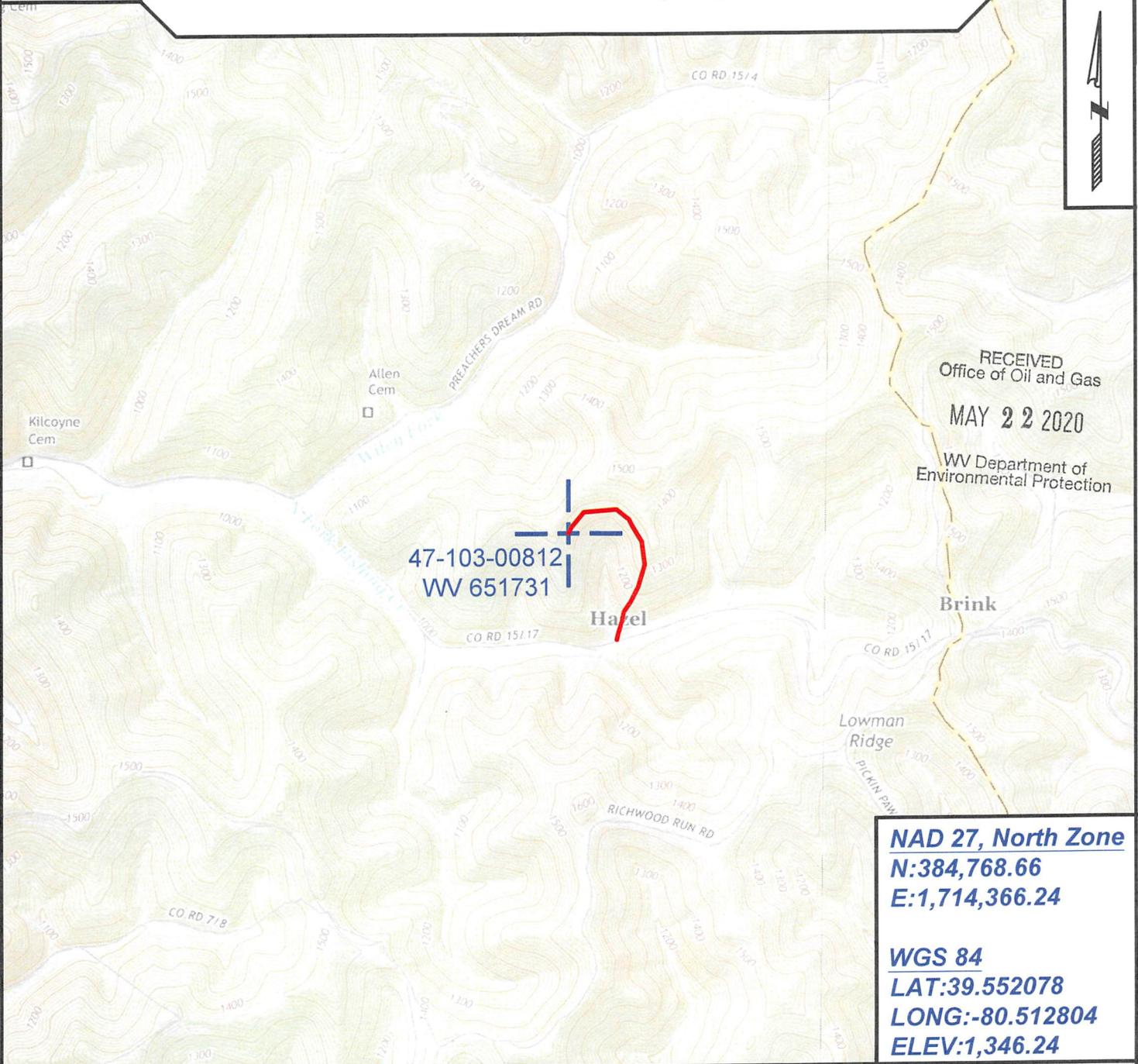
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Environmental Protection

Topo Quad: Big Run 7.5' Scale: 1" = 2000'
 County: Wetzel Date: May 08, 2020
 District: Grant Project No: 40-34-00-09

47-103-00812 WV 651731 (Ney Heirs #598)

Topo



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 MAY 22 2020
 WV Department of
 Environmental Protection

47-103-00812
 WV 651731

NAD 27, North Zone
N:384,768.66
E:1,714,366.24

WGS 84
LAT:39.552078
LONG:-80.512804
ELEV:1,346.24



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
DWAH 5/19/20

WW-7
8-30-06



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

API: 47-103-00812 WELL NO.: WV 651731 (Ney Heirs #598)

FARM NAME: Wilson Ney Heirs

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Wetzel DISTRICT: Grant

QUADRANGLE: Big Run 7.5'

SURFACE OWNER: Larry and Mary Shimp

ROYALTY OWNER: Tara D. Reid, et al.

UTM GPS NORTHING: 4378157

UTM GPS EASTING: 541857 GPS ELEVATION: 410 m (1346 ft)

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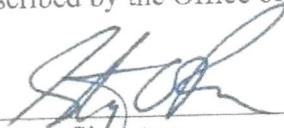
The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

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

5/14/2020
Date