



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

Monday, April 13, 2020
WELL WORK PLUGGING PERMIT
Vertical Plugging

ROSS AND WHARTON GAS COMPANY, INC.
RT. 5, BOX 29

BUCKHANNON, WV 262010000

Re: Permit approval for 1
47-017-01878-00-00

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: 1
Farm Name: GRAY, S. L.
U.S. WELL NUMBER: 47-017-01878-00-00
Vertical Plugging
Date Issued: 4/13/2020

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.

1) Date February 18, 2020
2) Operator's
Well No. S.L. Gray #1
3) API Well No. 47-017 - 01878 **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 1054' Watershed Branch of Sycamore Fork
District Cove County Doddridge Quadrangle Vadis

6) Well Operator Ross & Wharton Gas Co. Inc. 7) Designated Agent Mike Ross
Address 354 Morton Ave. Address P.O. Box 219
Buckhannon, WV 26201 Coalton, WV 26257

8) Oil and Gas Inspector to be notified Name Daniel Flack
Address 58 River Ave.
Buckhannon, WV 26201
9) Plugging Contractor Name N/A
Address _____

10) Work Order: The work order for the manner of plugging this well is as follows:

- Free point and recover casing's & tubular's
- 6% Gel between plug's
- Set cement plug 2000' to TD (2504') Plug 100' above top perf
- Set 100' cement plug across casing cut
- Set 100' cement plug 1000' to 1100' (elevation plug) (salt bearing strata)
- Set cement plug 200' to 300' (8" casing plug, freshwater protection plug)
- Set cement plug 100' to surface (surface plug) Tag plug's as necessary,
- Set Monument with API number

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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  Date 2/24/2020



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

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OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD

Quadrangle Vadis 7 1/2
Permit No. Dodd-1878

Rotary X Oil _____
Cable _____ Gas _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Company Rockwell Petroleum
Address Sand Fork, W. Va.
Farm S. L. Gray Acres 148.5
Location (waters) Br. of Sycamore Fk.
Well No. One Elev. 106KB
District Cove County Doddridge
The surface of tract is owned in fee by Howard Hinterer
Address New Milton, W. Va.
Mineral rights are owned by Howard Hinterer
et. al. Address New Milton, W. Va.
Drilling Commenced 11/1/77
Drilling Completed 11/9/77
Initial open flow show cu. ft. show bbls.
Final production 1,310 cu. ft. per day 2 bbls.
Well open 6 hrs. before test 758 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			to surface 160 sks.
Cond. 13-10"			
9 5/8			
8 5/8	253	253	
7			
5 1/2			
4 1/2	2496	2496	
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Well Fracked March 16, 1978 Perforations Big Injun
47 thousand lb of 20/40 sand 2100 to 2150 - 10 Holes
810 Bls of water
500 gal of Acid
1300 HHP
Avg. rate 28 bpm at 2000 lb
Coal was encountered at None Feet _____ Inches
Fresh water 90 Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Depth 2100 to 2150 feet

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	3		Drilled With Rotary Air
Shale			3	30		
Sand			30	50		
Shale			50	95		
Red Rock			95	105		
Shale			105	130		
Sand			130	180	water	
Shale			180	200		
Sand			200	220		
Red Rock			220	235		
Shale			235	243		
Sand			243	288		
Red Rock			288	290		
Sand			290	313		
Red Rock			313	322		
Sand			322	331		
Red Rock			331	341		
Sand			341	446		
Shale			446	464		
Sand			464	468		
Shale			468	476		
Sand			476	488		
Sandy Shale			488	516		
Shale			516	581		

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(over)

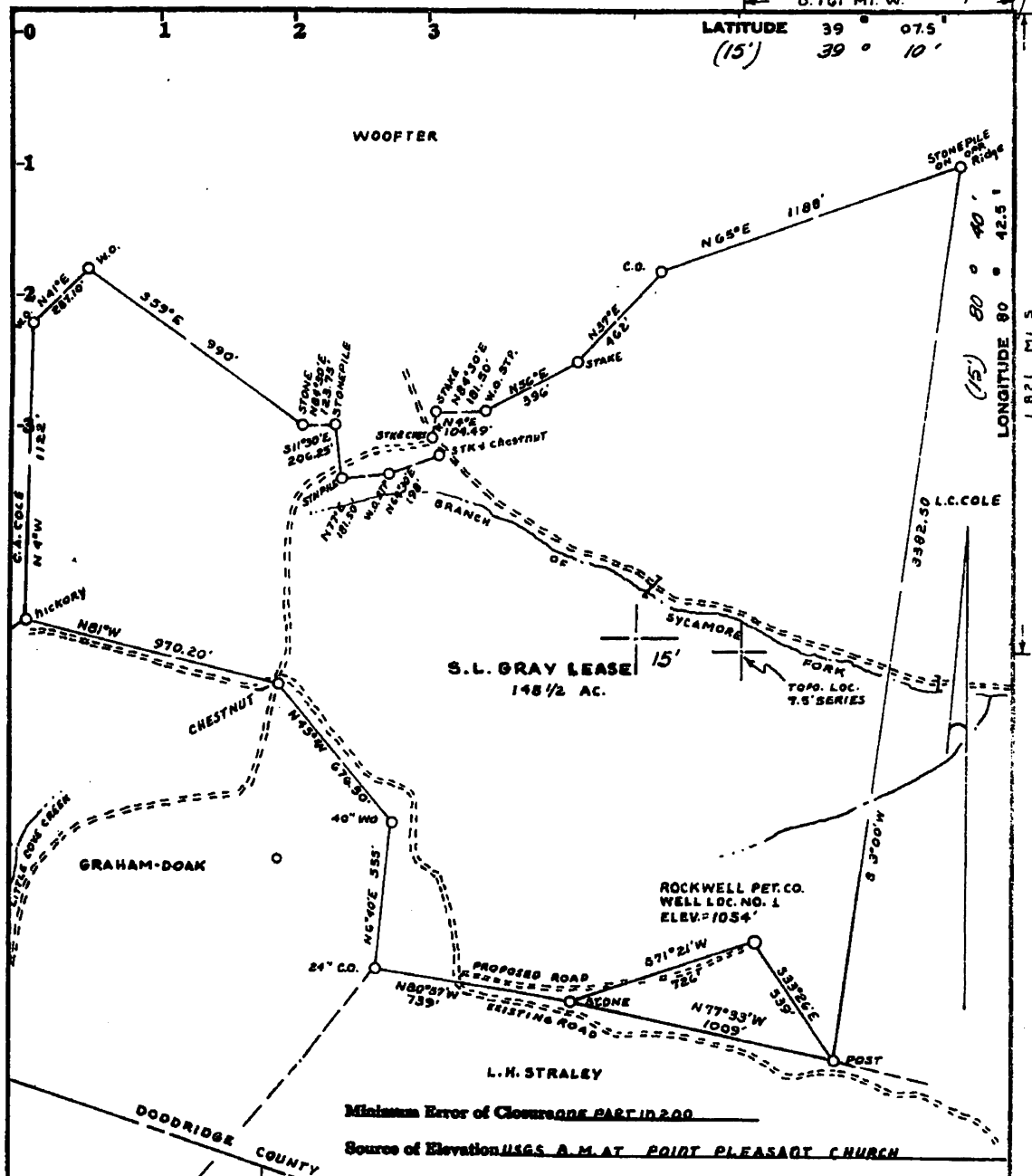
* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet 2	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			581	650		
Sandy Shale			650	704		
Sand			704	776		
Red Rock			776	778		
Sand			778	836		
Red Rock			836	864		
Shale			864	909		
Sand			909	930		
Shale			930	984		
Sand			984	997		
Shale			997	1026		
Sandy Shale			1026	1030		
Sand			1030	1080		
Shale			1080	1125		
Red Rock			1125	1127		
Sand			1127	1160		
Shale			1160	1210		
Sand			1210	1250		
Shale			1250	1340		
Sand			1340	1378		
Shale			1378	1428		
Sand			1428	1460		
Shale			1460	1540		
Sand			1540	1584		
Shale			1584	1754		
Sand			1754	1870		
Shale			1870	1954		
Limestone			1954	1996		
Blue Monday			1996	2006		
Big Lime			2006	2120		
Big Injun			2120	2160		
Shale			2160	2212		
Siltstone			2212	2350		
Shale			2350	2418		
Gantz			2418	2426		
Shale			2426	2504		
				2504	Total Depth	

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MAY 15 1978
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Date March 22 1978
APPROVED [Signature] Owner
By [Signature]
(Title)

1/31/77



Fracture
 New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure 0.02200
 Source of Elevation USGS A.M. AT POINT PLEASANT CHURCH
 ELEVATION = 1030'

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: *Mark C. Echard*
 Squares: N S E W

Map No. _____

Company ROCKWELL PETROLEUM COMPANY
aka Ro-jo Inc
 Address P.O. BOX 86, SAND FORK, W.VA. 26430

Farm S.L. GRAY LEASE Howard Hinfeler

Tract _____ Acres 148 1/2 Lease No. _____

Well (Farm) No. 001 Serial No. _____

Elevation (Spirit Level) 1054'

Quadrangle VARIS _____ 7.5', 15'

County DODDRIDGE District COVE

SURVEYOR
 Engineer MARK C. ECHARD
 SURVEYOR'S
 Engineer's Registration No. 490

File No. _____ Drawing No. _____

Date OCTOBER 25, 1977 Scale 1" = 500'

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

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WELL LOCATION MAP

FILE No. DODD-1878

WV Department of Environmental Protection

+ Denotes location of well on United States Topographic Maps, scale 1 to 25,000, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-017

2550' Big Injun & Gantz

47-017-01878P

WW-4A
Revised 6-07

1) Date: February 18, 2020
2) Operator's Well Number
S.L. Gray #1
3) API Well No.: 47 - 017 - 01878

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

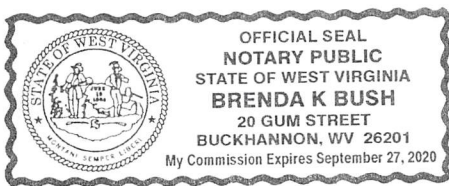
4) Surface Owner(s) to be served: (a) Name Yvonne Foster, Address 2395 Tallmansville Rd. Buckhannon, WV 26201. (b) Name, Address. (c) Name, Address. 5) (a) Coal Operator Name N/A, Address. (b) Coal Owner(s) with Declaration Name N/A, Address. (c) Coal Lessee with Declaration Name N/A, Address. 6) Inspector Daniel Flack, Address 58 River Ave. Buckhannon, WV 26201, Telephone 1-304-545-0109.

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 reverse 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 Ross & Wharton Gas Co. Inc.
By: [Signature] President
Address 354 Morton Ave. Buckhannon, WV 26201
Telephone 1-304-472-4289

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Office of Oil and Gas
MAR 09 2020
WV Department of Environmental Protection

Subscribed and sworn before me this 20th day of February, 2020
[Signature] Notary Public
My Commission Expires September 27, 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 depprivacyofficer@wv.gov.

47-017-01878P

WW-9
(5/16)

API Number 47 - 017 - 01878
Operator's Well No. _____

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

Operator Name Ross & Wharton Gas Co. Inc. OP Code 306580

Watershed (HUC 10) Branch of Sycamore Fork Quadrangle Vadis

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: _____

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.

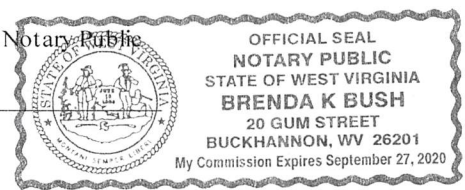
Company Official Signature Mike Ross
Company Official (Typed Name) Mike Ross
Company Official Title President

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WV Department of
Environmental Protection

Subscribed and sworn before me this 20th day of February, 2020

Brenda K Bush
Notary Public

My commission expires September 27, 2020



Operator's Well No. _____

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Fescue 30

Fescue 30

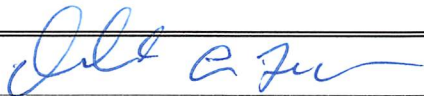
Contractor's Mix

Contractor's Mix

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: 

Comments: _____

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Title: Oil & Gas Inspector

Date: 2/24/2020

Field Reviewed? () Yes () No

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

Operator Name: Ross & Wharton Gas Co. Inc.

Watershed (HUC 10): Branch of Sycamore Fork Quad: Vadis

Farm Name: _____

- 1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

N/A

- 2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

N/A

- 3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Branch of Sycamore Fork

- 4. Summarize all activities at your facility that are already regulated for groundwater protection.

N/A

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- 5. Discuss any existing groundwater quality data for your facility or an adjacent property.

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No material will be used

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

N/A

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

N/A

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WV Department of
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Signature: Mike Ross

Date: February 20, 2020

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-017-01878 WELL NO.: 1

FARM NAME: S.L. Gray

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Doddridge DISTRICT: Cove

QUADRANGLE: Vadis

SURFACE OWNER: Yvonne Foster

ROYALTY OWNER: S.L. Gray Heirs

UTM GPS NORTHING: 4327750.7

UTM GPS EASTING: 523996.7 GPS ELEVATION: 1054'

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.

Mike Ross

President

Signature

Title

Feb. 20, 2020

Date

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