



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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Friday, February 10, 2017
WELL WORK PERMIT
Vertical / Plugging

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

BUCKHANNON, WV 262010000

Re: Permit approval for
47-021-01230-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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:
Farm Name: WOODFORD, H. G.
U.S. WELL NUMBER: 47-021-01230-00-00
Vertical / Plugging
Date Issued: 2/10/2017

Promoting a healthy environment.

02/10/2017

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.

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 ___ / Shallow x

5) Location: Elevation 770 Watershed Upper Big Run
District DeKalb County Gilmer Quadrangle Glenville

6) Well Operator Ross and Wharton Gas 7) Designated Agent Mike Ross Po Box 219
Company, INC. Address Coalton WV 26257
Address Rt. 5, Box 29,
Buckhannon WV 26201

Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Danny Mullins Name R & R WELL SERVICE
Address ~~124 Bid Trace Fork Rd~~ 220 Jack Acres Rd Address 42 LYNCH RIDGE
~~Harts WV 25524~~ Buckhannon WV 26201 WALTON, WV 25286
PHONE 304 932 6844

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

- Remove all equipment used to produce well
- Gel hole TD 1920
- Cement 1920 to 1400
- Gel 1400 TO 1190
- FREEPOINT CUT AND PULL 4 1/2 @ +/- 1190'
- CEMENT 1190 TO 1090 OR OVER CUT
- GEL 1090 TO 820
- CEMENT 820 TO 720 OVER ELEVATION
- GEL 720 TO 150
- CEMENT 150 TO SURFACE

SET MONUMENT WITH PROPER API

GEL BETWEEN ALL plugs

Signature Mike Ross Date 10/14/16

notification must be given to the district oil and gas inspector 24 hours before permitted work is to begin.

Work order approved by inspector Danny Mullins

Date 10-14-02/10/2017



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 6

Quadrangle Glenville

Permit No. GIL-1230

WELL RECORD

Oil or Gas Well Both
(KIND)

Company Stonestreet Lands Company
 Address Box 350, Spencer, West Virginia
 Farm H. G. Woodford Acres 94
 Location (waters) Sinking Creek
 Well No. 2 Elev. 770.00
 District DeKalb County Gilmer
 The surface of tract is owned in fee by Mrs. D. B. Huff
 Address Coxs Mills, W. Va.
 Mineral rights are owned by H. G. Woodford
 Address Glenville, W. Va.
 Drilling commenced Dec. 31, 1960
 Drilling completed Jan 26, 1961
 Date Shot _____ From _____ To _____
 With _____
 Open Flow 30 /10ths Water in 1 Inch
 _____ /10ths Merc. in _____ Inch
 Volume 57M Cu. Ft.
 Rock Pressure 250 lbs. 10 hrs.
 Oil Show bbls., 1st 24 hrs.
 WELL ACIDIZED No

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10	245'		Size of
8 1/2	744'		
6 1/2			Depth set
XXXX 4	1920	1920	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

DM

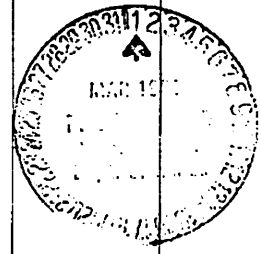
WELL FRACTURED 40,000# Sand; 700 bbl. of Water

RESULT AFTER TREATMENT 350M

ROCK PRESSURE AFTER TREATMENT 250# in 10 hrs.

Fresh Water 60' Feet Hole Full Salt Water None Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	5			
Slate			5	45			
Lime			45	60			
Slate			60	70			
Red Rock			70	173			
Slate			173	182			
Red Rock			182	234			
Slate			234	250			
Red Rock			250	258			
Lime			258	270			
Red Rock			270	294			
Slate			294	319			
Red Rock			319	329			
Slate			329	335			
Red Rock			335	346			
Lime			346	356			
Red Rock			356	365			
Slate			365	439			
Sand			439	485			
Slate			485	570			
Sand			570	580			
Slate			580	623			
Sand			623	638			
Slate			638	740			
Sand			740	777			
Slate			777	785			
Sand			785	866			
Slate			866	960			
Sand			960	987			
Slate			987	1090			



(over)

Formation	Color	Hard or Soft	Top 6	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			1090	1172			
Slate			1172	1186			
Sand			1186	1209			
Slate			1209	1221			
Sand			1221	1245	Gas Show	1134	
Slate			1245	1253			
Sand			1253	1265			
Slate			1265	1270			
Red Rock			1270	1330			
Slate			1330	1345			
Red Rock			1345	1366			
Slate			1366	1405			
Line (Little)			1405	1432			
Sand			1432	1438			
Slate			1438	1454			
Line (Big)			1454	1560	Oil Show -	1569-1577	
Sand			1560	1604	Gas	1577-1595	
Slate			1604	1745			
Sand			1745	1863			
Slate			1863				
Total Depth				1899			

Date February 27, 19 61

APPROVED Stonestreet Lands Company, Owner

By R. Michael [Signature]

02/10/2017

WW-4A
Revised 6-07

1) Date: 9/12/16
2) Operator's Well Number
H.G. Woodford # 2
3) API Well No.: 47 - 021-01230 -

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 Denzil D. & Rita F. Huff (life estate) Name None
Address %Denzil L. & Janice J. Huff, 2343 Sinking Cr. RD. Coss Mill WV 26342
Address _____
(b) Name _____ (b) Coal Owner(s) with Declaration
Address _____ Name _____
P.O. _____
(c) Name _____ Address _____
Address _____
6) Inspector Danny Mullins (c) Coal Lessee with Declaration
Address 124 Bid Trace Fork Rd. 220 Jack Acres Rd
Harts WV 25524 Buckhannon WV 26201
Telephone 304 932 6844

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 Ross and Wharton Gas Company, INC.
By: Mike Ross
Its: Owner
Address RT 5, Box 29, Buckhannon, WV 26201
Telephone 304 472 4289

Subscribed and sworn before me this 14 day of October 2016
Sept 27, 2020 Brenda K Bush
My Commission Expires _____



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.

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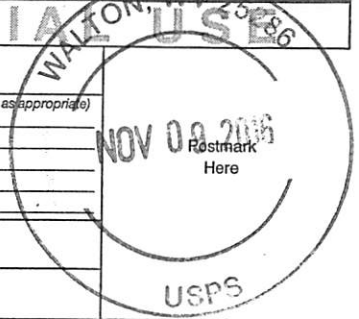
U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

7015 1520 0000 0958 9244

OFFICIAL USE

Certified Mail Fee
\$
Extra Services & Fees (check box, add fee as appropriate)
 Return Receipt (hardcopy) \$
 Return Receipt (electronic) \$
 Certified Mail Restricted Delivery \$
 Adult Signature Required \$
 Adult Signature Restricted Delivery \$



Postage
\$
Total Postage and Fees
\$

Sent To DENZIL O & RITA F. HUFF % DENZIL L. HUFF
Street and Apt. No., or PO Box No. 9343 Sinking Creek Rd
City, State, ZIP+4® Cox Mill W 26342

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SURFACE OWNER WAIVER

Operator's well
H.G, Woodford
#1

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

	Date _____	Name _____	
Signature		By _____	
		Its _____	Date _____

Signature _____ Date **02/10/2017**

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Ross and Wharton Gas Company, INC. OP Code 305680

Watershed (HUC 10) Little cove Creek Quadrangle Holbrook

Elevation 770 County Gilmer District DeKalb

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes _____ No X

Will a pit be used for drill cuttings? Yes _____ No X

If so, please describe anticipated pit waste: _____

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

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 no fluids are expected in return, All fluids captured if returned into tank _____)

ANY WELL EFFLUENT MUST BE
DISPOSED OF PROPERLY OFFSITE.
JWA

Will closed loop system be used? _____

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Brine water

-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? No Pit brine Water if any in tank

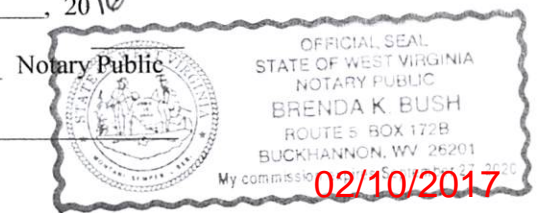
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 Mike Ross
Company Official (Typed Name) Mike Ross
Company Official Title C. O. B.

Subscribed and sworn before me this 14 day of October, 2016

Brenda K Bush
My commission expires September 27, 2020



Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation Ph 6.0
0.5 _____

Lime _____ 2Tons/acre or to correct to pH _____

Fertilizer type _____ 10-20-20 _____

Fertilizer amount _____ 500 lbs/acre

DM

Mulch _____ 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
KENTUCKY FESCUE	40	SAME	
ALSIKE CLOVER	5		
ANNUAL RYE	16		

Attach:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

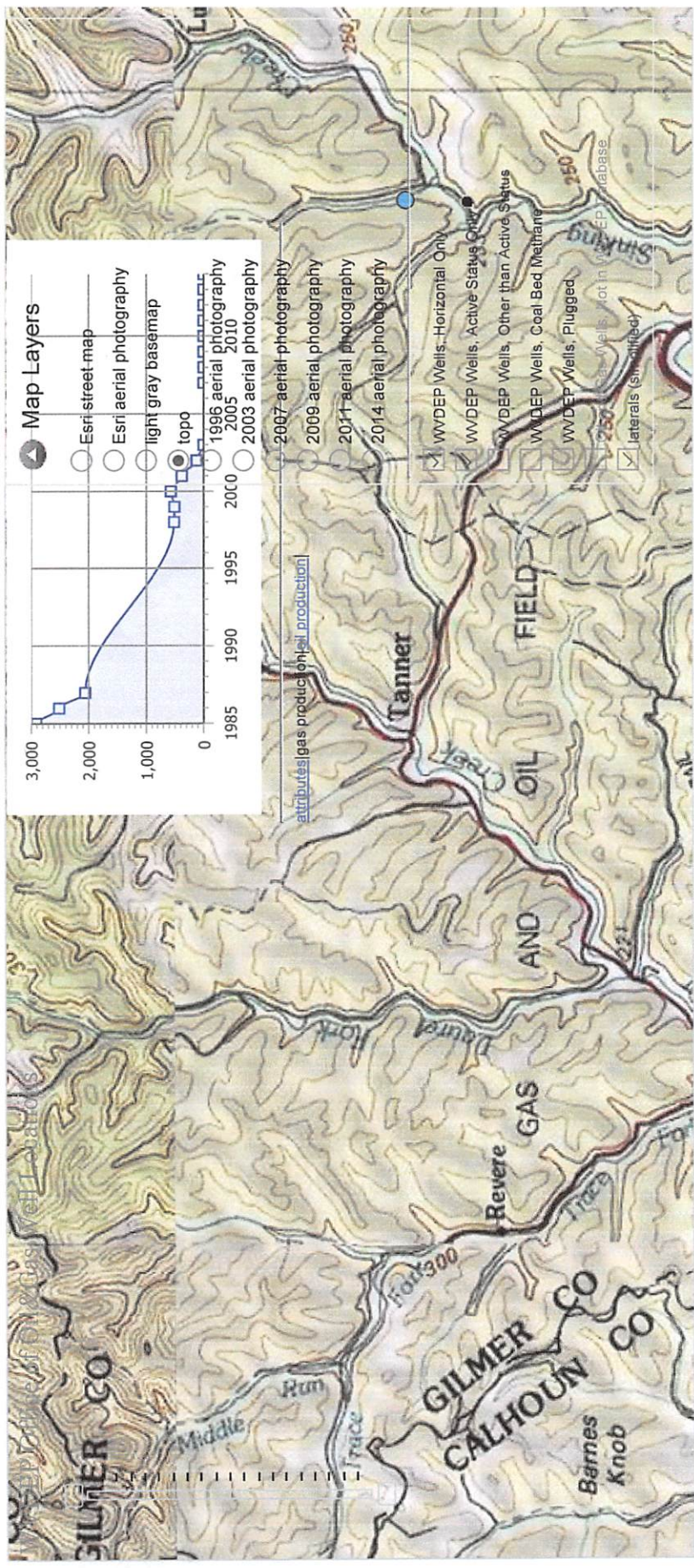
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: _____

Title: _____ Date: _____

Field Reviewed? () Yes () No



Attribute Search		Result Table	Location Search	Legend	About			
#	API	Permit Type	Issued	Operator	Well Status	Well Type	Well Use	Well Nun
1	021-01230	Other Well	1961-1-25	ROSS AND WHARTON GAS COMPANY, INC.	Abandoned Well	Vertical	Gas Production	2



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47 021 01230 WELL NO.: H.G.Woodard #1 2

FARM NAME: H.G.Woodard

RESPONSIBLE PARTY NAME: Ross and Wharton Gas Company, INC.

COUNTY: Gilmer DISTRICT: DeKalb

QUADRANGLE: Glenville

SURFACE OWNER: David D. and Rita J. Huff(Life Estate)

ROYALTY OWNER: H.G.Woodard

UTM GPS NORTHING: 4314754

UTM GPS EASTING: 509073 GPS ELEVATION: 770

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 C.O.B.
Signature Title

10/14/16
Date