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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

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

Friday, April 21, 2017  
WELL WORK PERMIT  
Vertical / Plugging

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

BUCKHANNON, WV 262010000

Re: Permit approval for 2-S-244  
47-007-01732-00-00

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: 2-S-244  
Farm Name: WHITE, ROGER & CHERYL  
U.S. WELL NUMBER: 47-007-01732-00-00  
Vertical / Plugging  
Date Issued: 4/21/2017

Promoting a healthy environment.

04/21/2017

## 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

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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.

1) Date February 16, 2017  
2) Operator's  
Well No. Duffield, Lovey 2-S-244  
3) API Well No. 47-007 - 01732

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 1420 Watershed Plantation Fork of Steer Creek  
District Birch County Braxton Quadrangle Rosedale

6) Well Operator Ross & Wharton 7) Designated Agent Mike Ross  
Address Route 5 Box 29 Address PO Box 219  
Buckhannon, WV 26201 Coalton, WV 26257

8) Oil and Gas Inspector to be notified Name Danny Mullins  
Address 220 Jack Acres Road  
Buckhannon, WV 26201  
9) Plugging Contractor Name Unknown  
Address \_\_\_\_\_

10) Work Order: The work order for the manner of plugging this well is as follows:  
2606 - TD *check TD set 100 feet Bottom Plug*  
Run 6% Gel between each plug  
2450 - 2300 Set Cement Plug *→ FREE POINT 4 1/2, CUT AND POOH. SET 100' CLASS A CEMENT PLUG ACROSS CUT.*  
1950 - 1850 Set Cement Plug  
1470 - 1370 Set Cement Plug  
~~100~~<sup>240</sup> - 0 Set Cement Plug *240 to surface cover & set casing seat*  
~~240-0~~  
Set Monument with API Number

*Free Point and pull all casing*

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

Work order approved by inspector *Danny Mullins* Date 3-1-17



DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforation Intervals 2356-2372

Well Treatment

J-266 350 lbs. 20/40 sand 30,000 lbs. W-22 Anti sludging 36 gals.  
L-53 clay control agent 20 gals. F-78 ezeflo surfactant 8 gals.  
15% Acid HCL 2000 gals. 500 BBIs. Water A-200 Inhibitor 4 gals.

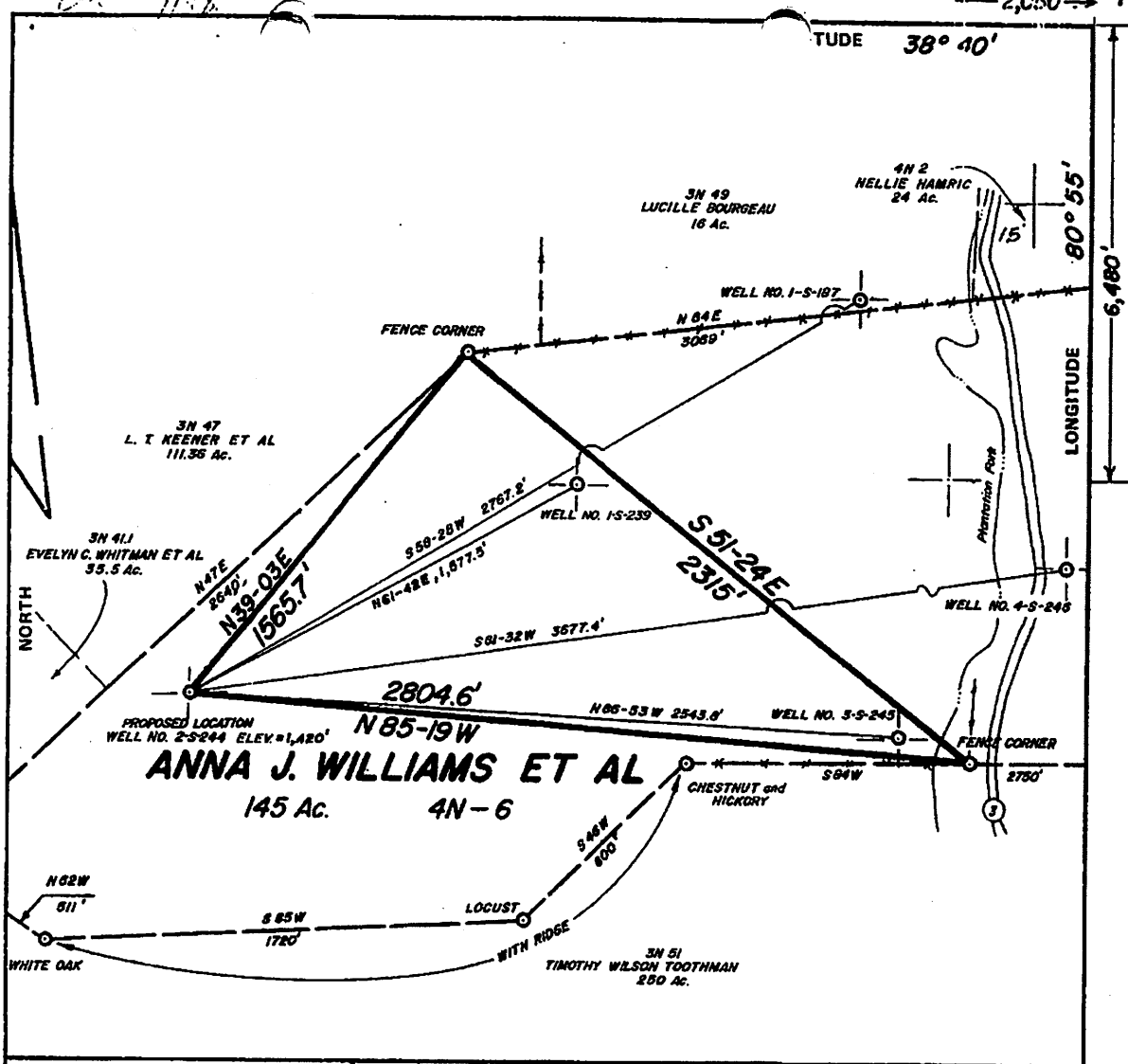
WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Clay			0	30	
Sand			30	95	
Sand & Shale			95	155	
Red Rock			155	300	
Sand & Shale			300	425	
Red Rock			425	610	
Sand & Shale			610	830	
Shale			830	945	
Sand & Shale			945	1000	
Shale			1000	1056	
Sand & Shale			1056	1096	
Shale			1096	1112	
Sand & Shale			1112	1244	
Shale			1244	1374	
Sand & Shale			1374	1412	
Shale			1412	1470	
Sand & Shale			1470	1516	
Shale			1516	1610	
Sand & Shale			1610	1684	
Shale			1684	1724	
Sand & Shale			1724	1748	
Shale			1748	1760	
Sand & Shale			1760	1810	
Shale			1810	1896	
Sand & Shale			1896	1916	
Shale			1916	1950	
Salt sand			1950	2000	
Shale			2000	2034	
Salt sand			2034	2076	
Shale			2076	2164	
Salt sand			2164	2286	
Little Lime			2284	2326	
Blue Monday			2326	2360	
Big Lime			2360	2450	
Big Injun			2450	2556	
Shale			2556	2636	TD

(Attach separate sheets as necessary)

Stonestreet Lands Company  
Well Operator  
By: [Signature] General Manager  
Date: December 19, 1982

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including ..., encountered in the drilling of a well."



FILE NO. DUFFIELD No. 2  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION AT DESSE  
ELEV. = 915'

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 DEPARTMENT OF MINES  
 (SIGNED) Anna J. Williams  
 R.P.E. \_\_\_\_\_ L.L.S. 717

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE JUNE 1, 19 91  
 OPERATOR'S WELL NO. 2-S-244  
 API WELL NO. \_\_\_\_\_  
47 - 007 - 1732  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS.") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 1,420' WATER SHED PLANTATION FORK OF STEER CREEK  
 DISTRICT BIRCH COUNTY BRAXTON  
 QUADRANGLE ROSDALE 7.5'  
 SURFACE OWNER ANNA J. WILLIAMS ET AL ACREAGE 145 Ac.  
 OIL & GAS ROYALTY OWNER ANNA J. WILLIAMS ET AL LEASE ACREAGE 145 Ac.  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION BIG INJUN ESTIMATED DEPTH 2,487'  
 WELL OPERATOR STONESTREET LANDS CO. DESIGNATED AGENT O. V. STONESTREET  
 ADDRESS SPENCER WV. ADDRESS SPENCER WV.

701732 P

WW-4A  
Revised 6-07

1) Date: February 16, 2017  
2) Operator's Well Number  
Duffield, Lovey 2-S-244  
3) API Well No.: 47 - 007 - 01732

**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>Roger White &amp;/or Cheryl</u>	Name <u>N/A</u>
Address <u>HC 84 Box 18</u>	Address _____
<u>Frametown, WV 26623</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Danny Mullins</u>	(c) Coal Lessee with Declaration
Address <u>220 Jack Acres Road</u>	Name <u>N/A</u>
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>304-932-6844</u>	_____

**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.

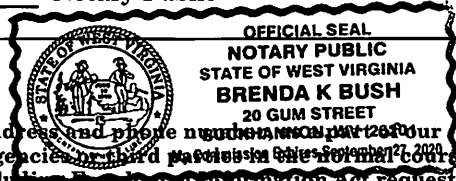
Well Operator Ross & Wharton (Mike Ross Inc.)  
 By: *Mike Ross*  
 Its: President  
 Address PO Box 219  
Coalton, WV 26257  
 Telephone 304-472-4289

Subscribed and sworn before me this 16th day of February, 2017

My Commission Expires September 27, 2020

Brenda K Bush

Notary Public



**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and phone numbers, for our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the 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).

04/21/2017

701732P

# Mike Ross Inc.

(304) 472-4289 (Office) Box 219 Coalton, WV 26257 (304) 472-7405 (Fax)

February 15, 2017

Roger &/ or Cheryl White  
HC 84 Box 18  
Frametown, WV 26623

Re: Duffield, Lovey 1-S-239; Duffield, Lovey 2-S-244; Duffield, Lovey 3-S-245;  
Duffield, Lovey 4-S-246 Plugging Permits

Dear Roger &/or Cheryl:

Mike Ross Inc. is in the process of applying for a permit to plug the above referenced well. Enclosed are copies of the Notice and Application for well plugging permits and the location plats.

Please note the instructions on the surface owner waiver. If you have no objection to the plugging being done, please sign the waiver and return it to our office.

If you have any questions, please do not hesitate to contact this office.

Thank you,

Mike Ross Inc.

RECEIVED  
Office of Oil and Gas  
MAR 06 2017  
WV Department of  
Environmental Protection

7016 2140 0001 1545 5512

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a> ®.	
<b>OFFICIAL USE</b>	
Certified Mail Fee \$ 3.35	RECEIVED Office of Oil and Gas MAR 06 2017 Department of Environmental Protection Roger &/or Cheryl White HC 84 Box 18 Frametown, WV 26623
Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy) \$ 2.75	
<input type="checkbox"/> Return Receipt (electronic) \$	
<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$ 3.57	Postmark Here \$ 9.67 3/2/17
Total Postage and Fees \$ 9.67	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

04/21/2017



701732A

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Ross & Wharton (Mike Ross Inc.) OP Code 305680

Watershed Plantation Fork of Steer Creek Quadrangle Rosedale

Elevation 1420 County Braxton District Birch

Description of anticipated Pit Waste: Plugging Fluid

Will a synthetic liner be used in the pit? Yes

*NO PIT. STEEL TANK WILL BE USED TO CONTAIN WELL EFFLUENT. ANY EFFLUENT WILL BE DISPOSED OF PROPERLY OFFSITE.*

Proposed Disposal Method For Treated Pit Wastes:

- NO Land Application
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain \_\_\_\_\_)
- Swabbing
- Plugging

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*

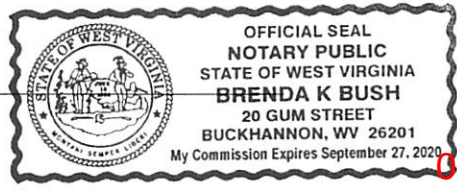
Company Official (Typed Name) Mike Ross

Company Official Title President

Subscribed and sworn before me this 16th day of February, 2017

*Brenda K Bush* Notary Public

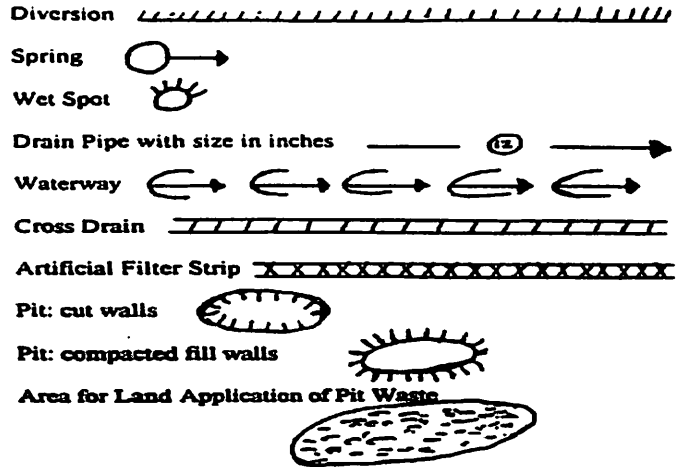
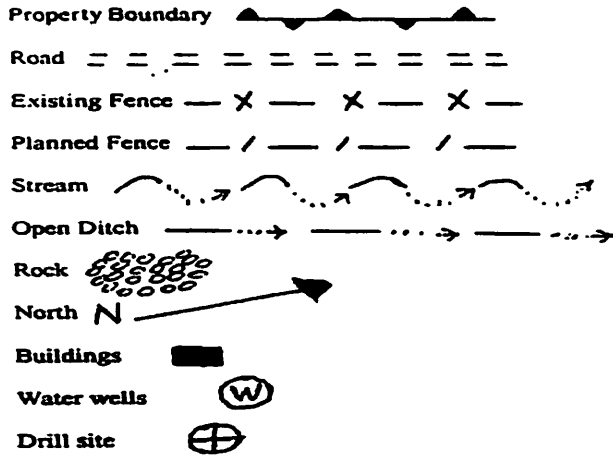
My commission expires September 27, 2020



RECEIVED  
Office of Oil and Gas  
MAR 06 2017  
WV Department of Environmental Protection

04/21/2017

**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed 1 Acre Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 50% lbs/acre (500 lbs minimum)

Mulch \_\_\_\_\_ Tons/acre

Seed Mixtures

Seed Type	Area I	Area II
	lbs/acre	lbs/acre
Fescue		
Contractors Mix		

Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

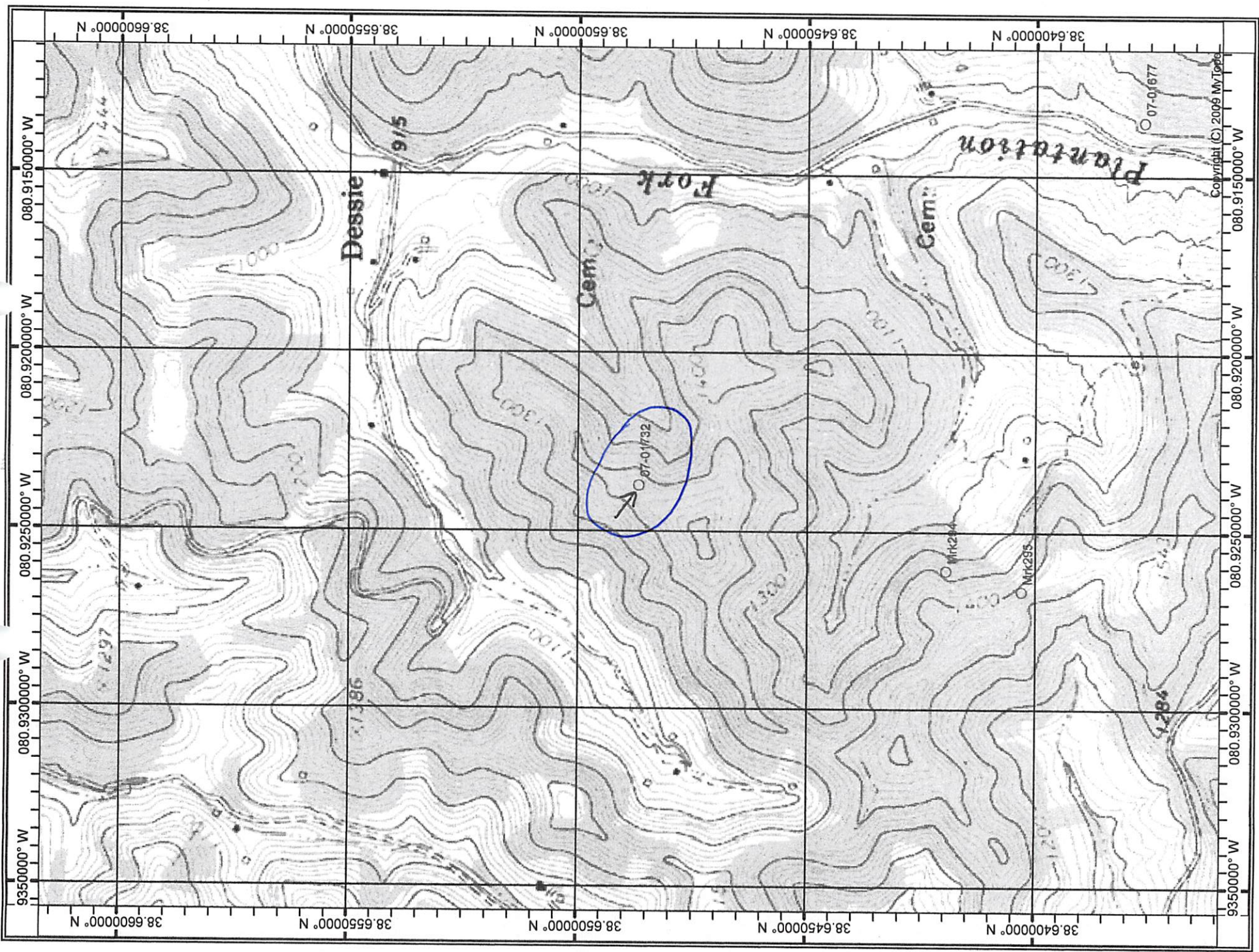
Plan Approved by: \_\_\_\_\_

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

Title: President Date: February 16, 2017

Field Reviewed? ( ) Yes ( ) No

701732P



WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-007-01732 WELL NO.: 2-S-244

FARM NAME: Duffield, Lovey

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Braxton DISTRICT: Birch

QUADRANGLE: Rosedale

SURFACE OWNER: Roger White &/or Cheryl

ROYALTY OWNER: Anna J. Williams Et. Al.

UTM GPS NORTHING: 4277798.4

UTM GPS EASTING: 506635.8 GPS ELEVATION: 1420

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  
Signature

President  
Title

April 1, 2014  
Date