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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

Wednesday, April 19, 2017  
WELL WORK PERMIT  
Vertical / Plugging

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

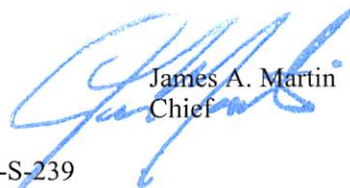
BUCKHANNON, WV 262010000

Re: Permit approval for 1-S-239  
47-007-01731-00-00

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: 1-S-239  
Farm Name: WHITE, ROGER & CHERYL  
U.S. WELL NUMBER: 47-007-01731-00-00  
Vertical / Plugging  
Date Issued: 4/19/2017

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 1-S-239  
3) API Well No. 47-007 - 01731

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 1140 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 9) Plugging Contractor  
Name Danny Mullins Name Unknown  
Address 220 Jack Acres Road Address \_\_\_\_\_  
Buckhannon, WV 26201

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

- 2338 - TD *100 Foot cement plug at Bottom*
  - 2300 - 2200 *CLASS A CEMENT PLUG*
  - Run 6% Gel between each plug
  - 2130 - 1980 Set Cement Plug • *TO COVER PERFORATIONS FROM 2085 - 2108*
  - *CUT & REMOVE 4 1/2" CASING FROM FREEPOINT ≈ 1500'*
  - 1550 - 1450 Set Cement Plug • *ACROSS 4 1/2" CASING CUT*
  - 1200 - 1100 Set Cement Plug • *ELEVATION PLUG*
  - *SET 100' CLASS A CEMENT PLUG ACROSS 8 5/8" CASING SEAT FOR 250' - 150'*
  - 100 - 0 Set Cement Plug *COVER 8 5/8" CASING SEAT*
- Set Monument with API Number

*Freepoint All casing and pull*

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

701731A



IV-35  
(Rev 8-81)

RECEIVED  
JUN - 6 1983

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date December 6, 1982  
Operator's  
Well No. 1-S-239  
Farm Lovey Duffield  
API No. 47 - 007 - 1731

C. & G. DIVISION  
DEPT. OF MINES WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas x / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas," Production x / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow \_\_\_ /)

LOCATION: Elevation: 1140 Watershed Plantation Fork of Steer Creek  
District: Birch County Braxton Quadrangle Rosedale

COMPANY Stonestreet Lands Company  
ADDRESS P.O. Box 350 Spencer, W.Va. 25276  
DESIGNATED AGENT O.V. Stonestreet  
ADDRESS P.O. Box 350 Spencer, W.Va. 25276  
SURFACE OWNER Anna J. Williams etal  
ADDRESS Sutton, W.Va.  
MINERAL RIGHTS OWNER Anna J. Williams etal  
ADDRESS Sutton, W.Va.  
OIL AND GAS INSPECTOR FOR THIS WORK Robert  
Bates ADDRESS 109 Minnich St. Weston, WV  
PERMIT ISSUED Sept. 28, 1981  
DRILLING COMMENCED 2-15-82  
DRILLING COMPLETED 2-19-82  
IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	200	200	60 sks
7			
5 1/2			
4 1/2		2338	70 sks rfd
3			
2			
Liners used			

CTS

GEOLOGICAL TARGET FORMATION Big Injun Depth 2288 feet  
Depth of completed well 2358 feet Rotary x / Cable Tools  
Water strata depth: Fresh 75 feet; Salt \_\_\_ feet  
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA  
Producing formation Big Injun Pay zone depth 2108 feet  
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d  
Final open flow 430 Mcf/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 7 hours  
Static rock pressure 490 psig (surface measurement) after 24 hours shut in  
(If applicable due to multiple completion--)  
Production test co-mingled  
Second producing formation Blue Monday Pay zone depth \_\_\_ feet  
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d  
Final open flow 430 Mcf/d Oil: Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 7 hours  
Static rock pressure 490 psig (surface measurement) after 24 hours shut in

BRAX - 1731

(Continue on reverse side)

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FORM IV-35  
(REVERSE)

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

Perforation Intervals 2085-2108

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 surfactnat 8 gals.  
15% Acid HCL 2000 gals. 500 bbls. 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	45	
Sand & Shale			45	105	
Shale			105	155	
Sand & Shale			155	225	
Red Rock			225	385	
Sand & Shale			385	505	
Red Rock			505	715	
Sand & Shale			715	850	
Sand			850	1000	
Shale			1000	1140	
Sand & Shale			1140	1160	
Shale			1160	1386	
Sand & shale			1386	1410	
Shale			1410	1476	
Sand & Shale			1476	1538	
Shale			1538	1580	
Sand & shale			1580	1596	
Shale			1596	1610	
Salt sand			1610	1638	
Shale			1638	1660	
Salt sand			1660	1708	
Shale			1708	1788	
Salt sand			1788	1804	
Shale			1804	1818	
Salt sand			1818	1884	
Shale			1884	2014	
Little Lime			2014	2040	
Blue Monday			2040	2098	
Big Lime			2098	2170	
Big Injun			2170	2288	
Shale			2288	2358	

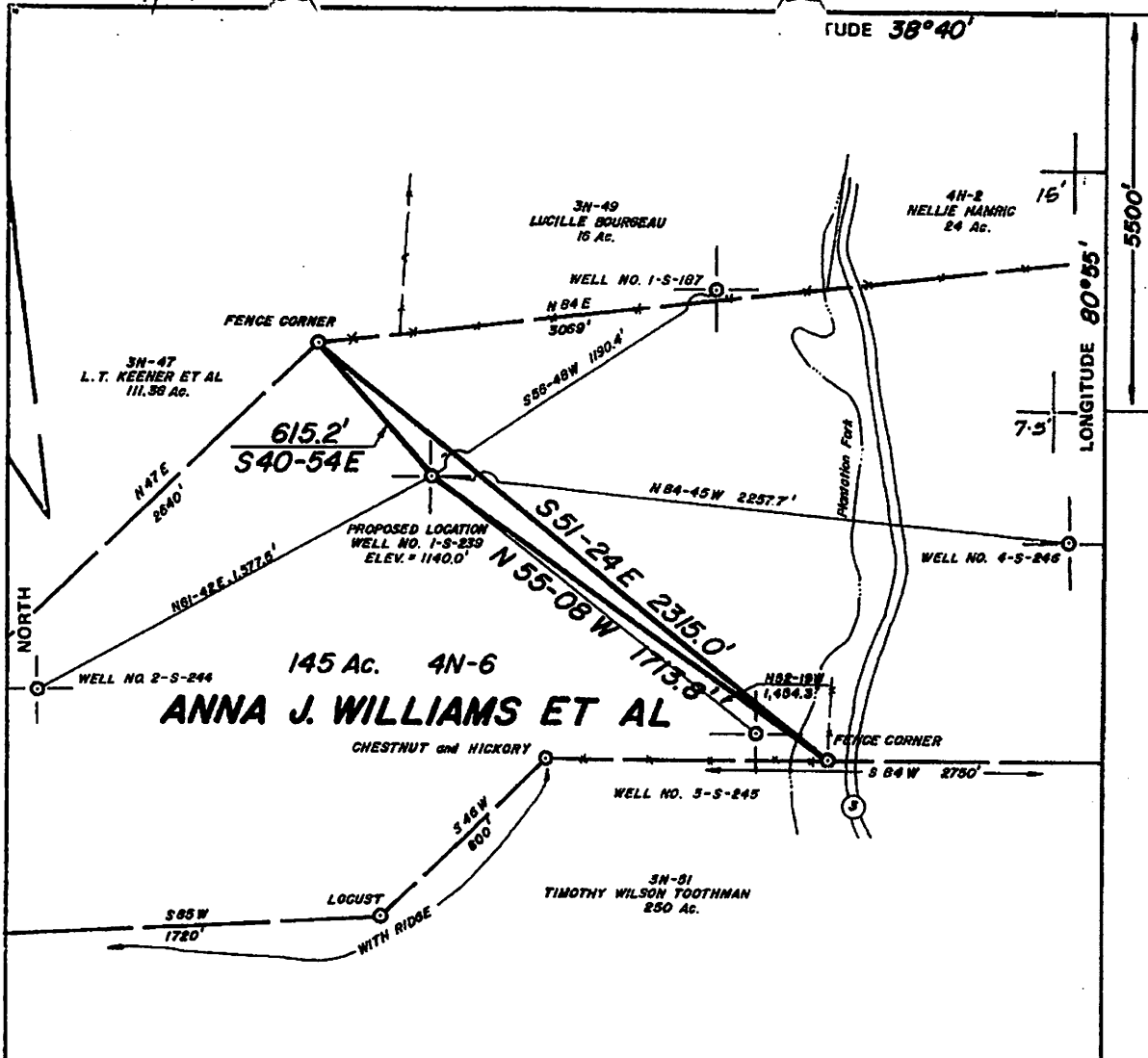
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Office of Oil and Gas  
MAR 06 2017  
WV Department of  
Environmental Protection

(Attach separate sheets as necessary)

Stonestreet Lands Company


Well Operator \_\_\_\_\_  
By Arthur J. Stuffer General Manager  
Date: December 19, 1992

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  
coal, encountered in the drilling of a well."



FILE NO. <u>DUFFIELD NO. 1</u> DRAWING NO. _____ SCALE <u>1" = 300'</u> MINIMUM DEGREE OF ACCURACY <u>1:200</u> PROVEN SOURCE OF ELEVATION _____ ROAD INTERSECTION AT DESSIE 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) <u>Cliff Wilkie</u> R.P.E. _____ L.L.S. <u>717</u>	PLACE SEAL HERE
--	--	-----------------

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



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

DATE JUNE 2, 19 81  
 OPERATOR'S WELL NO. 1-S-239  
 API WELL NO. \_\_\_\_\_  
47 - 007 - 1731  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 1140.0' WATER SHED PLANTATION FORK OF STEEN CREEK  
 DISTRICT BIRCH COUNTY BRAXTON  
 QUADRANGLE ROSEDALE 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 2187.0'  
 WELL OPERATOR STONESTREET LANDS CO. DESIGNATED AGENT O. V. STONESTREET  
 ADDRESS SPENCER WV. ADDRESS SPENCER WV.

701731A

WW-4A  
Revised 6-07

1) Date: February 16, 2017  
2) Operator's Well Number  
Duffield, Lovey  
3) API Well No.: 47 - 007 - 01731

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

<b>4) Surface Owner(s) to be served:</b>	<b>5) (a) Coal Operator</b>
(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>(b) Coal Owner(s) with Declaration</b>
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
<b>6) Inspector</b> <u>Danny Mullins</u>	<b>(c) Coal Lessee with Declaration</b>
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  
Coaltion, WV 26257  
 Telephone 304-472-4289

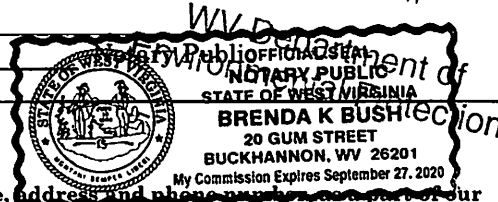
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MAR 06 2017

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

Brenda K Bush

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 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](mailto:depprivacyofficer@wv.gov).

04/21/2017

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# 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.

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

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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 Postmark Here \$ 9.67 3/2/17
<input checked="" type="checkbox"/> Return Receipt (hardcopy) <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 Total Postage and Fees \$ 9.67	
Environmental Protection Roger &/or Cheryl White HC 84 Box 18 Frametown, WV 26623	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

04/21/2017



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WW-9  
Rev. 5/08

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 007 - 01731  
Operator's Well No. Duffield, Lovey 1-S-239

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 1140 County Braxton District Birch

Description of anticipated Pit Waste: Plugging Fluid

Will a synthetic liner be used in the pit? Yes 20 mi. *ANY WELL EFFLUENT MUST BE DISPOSED OF PROPERLY OFF-SITE. gwm*

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 \_\_\_\_\_ )

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*

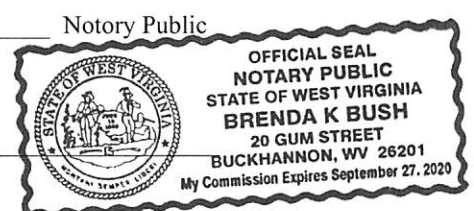
Company Official (Typed Name) Mike Ross

Company Official Title President

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

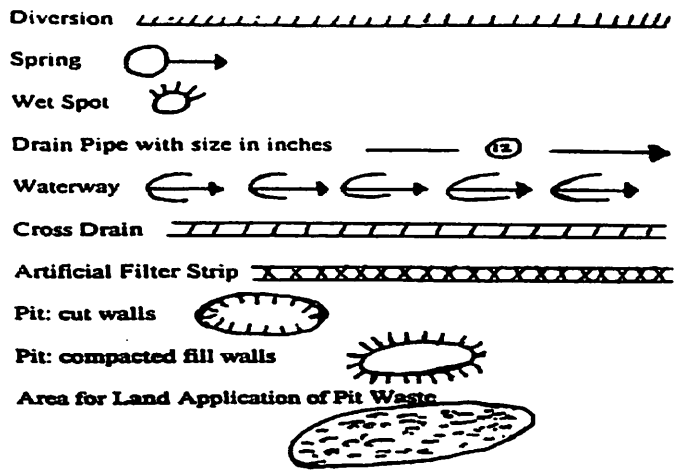
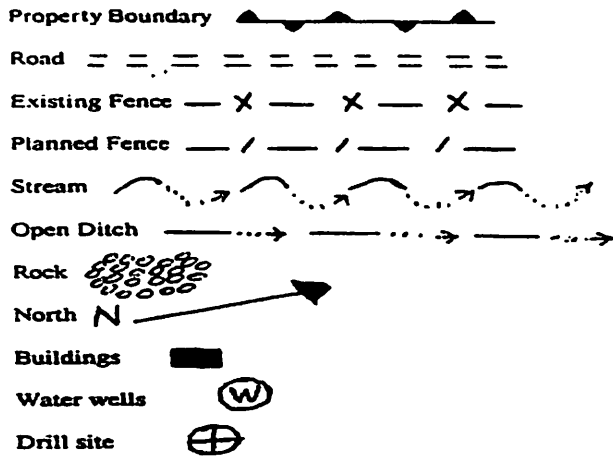
*Brenda K Bush*

My commission expires September 27, 2020



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: \_\_\_\_\_

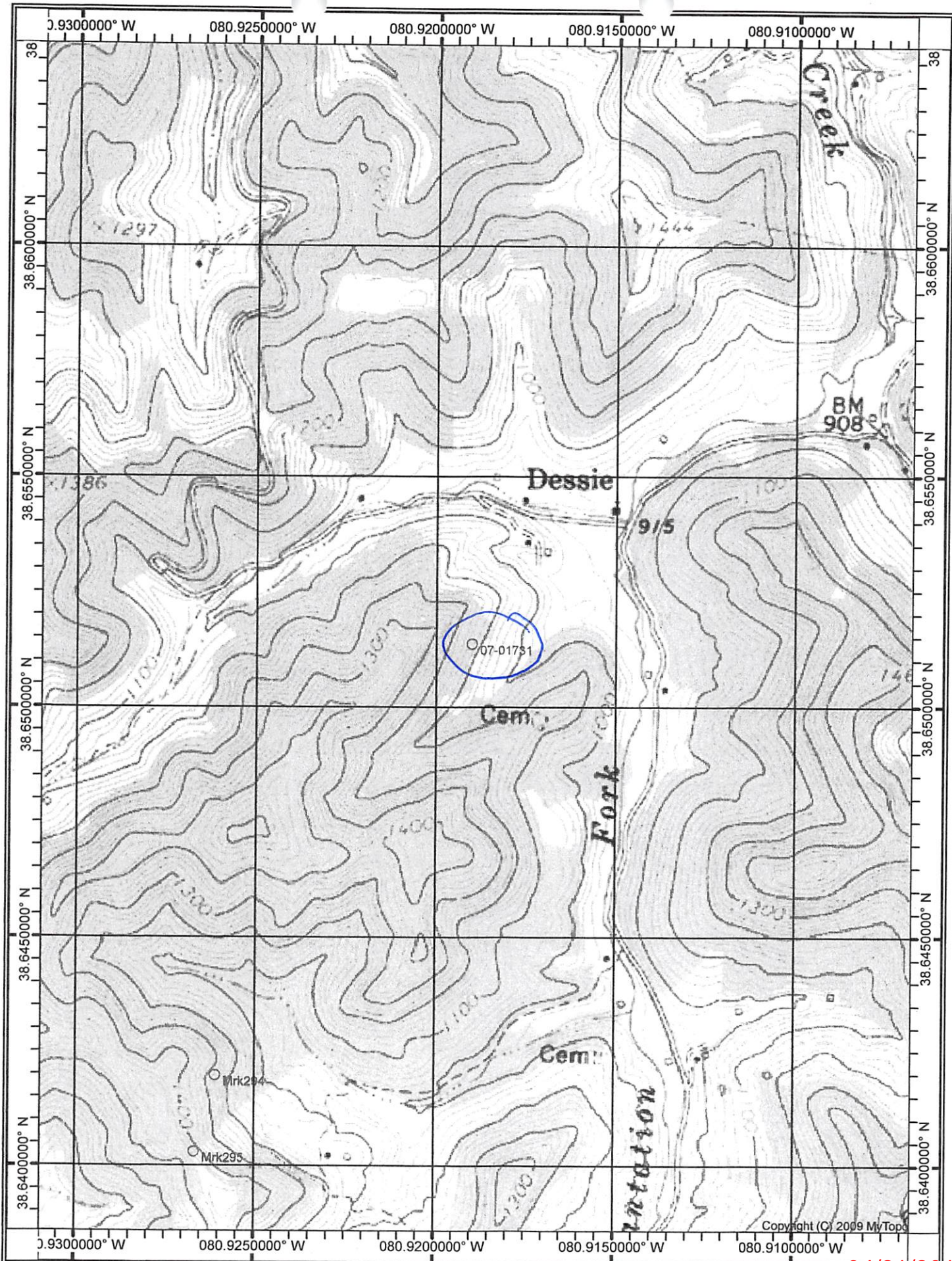
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Title: President

Date: February 16, 2017

Field Reviewed? ( ) Yes ( ) No

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04/21/2017



West Virginia Department of Environmental Protection  
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-007-001731 WELL NO.: 1-S-239

FARM NAME: Duffield, Lovey

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Braxton DISTRICT: Salt Lick

QUADRANGLE: Burnsville

SURFACE OWNER: Roger White &/or Cheryl

ROYALTY OWNER: Anna J. Williams Et. Al.

UTM GPS NORTHING: 4278092.2

UTM GPS EASTING: 507045.8 GPS ELEVATION: 1140

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