



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

Monday, May 15, 2017
WELL WORK PERMIT
Vertical / Plugging

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

BUCKHANNON, WV 262010000

Re: Permit approval for 4-S-246
47-007-01734-00-00

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: 4-S-246
Farm Name: WHITE, ROGER & CHERYL
U.S. WELL NUMBER: 47-007-01734-00-00
Vertical / Plugging
Date Issued: 5/15/2017

Promoting a healthy environment.

05/19/2017

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.

70734P

WW-4B
Rev. 2/01

1) Date February 16, 2017
2) Operator's
Well No. Duffield, Lovey 4-S-246
3) API Well No. 47-007 - 01734

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 1064 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 _____

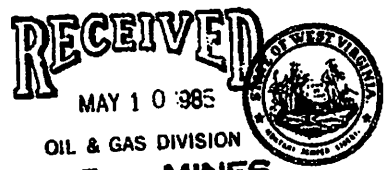
- 10) Work Order: The work order for the manner of plugging this well is as follows:
2201 - TD • check TD 2220 Put Plug From 2220 to 1850
Run 6% Gel between each plug • FREEPOINT, CUT & PULL 4 1/2" CASING.
1450 - 1350 Set Cement Plug • SET 100' CLASS A CEMENT PLUG ACROSS CASING CUT.
1110 - 1010 Set Cement Plug
250' - 0 Set Cement Plug cover 8 3/4 casing seat 250-0
250
Set Monument with API Number

Free point and pull all casing RECEIVED
Office of Oil and Gas

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 3-7-17

05/19/2017



IV-35
(Rev 8-81)

OIL & GAS DIVISION
DEPT. OF MINES
State of West Virginia
Department of Mines
Oil and Gas Division

Date December 7, 1982
Operator's
Well No. 4-S-246
Farm Lovey Duffield
API No. 47 - 007 - 1734

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 X /)
LOCATION: Elevation: 1064 Watershed Plantation Fork of Steer Creek
District: Birch County Braxton Quadrangle Rosedale

COMPANY Stonestreet Lands Company
ADDRESS P.O. Box 68, Spencer, WV 25276
DESIGNATED AGENT O. V. Stonestreet
ADDRESS P.O. Box 68, Spencer, WV 25276
SURFACE OWNER Anna J. Williams etal
ADDRESS Sutton, WV
MINERAL RIGHTS OWNER Anna J. Williams etal
ADDRESS Sutton, WV
OIL AND GAS INSPECTOR FOR THIS WORK Robert Bates
ADDRESS Weston, WV
PERMIT ISSUED Sept. 28, 1981
DRILLING COMMENCED 10-28-81
DRILLING COMPLETED 11-1-81
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

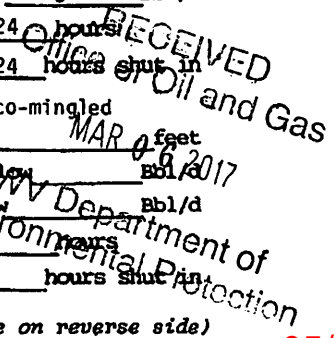
Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	200	200	60 sks
7			
5 1/2			
4 1/2		2201	70 sks rft
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 2221 feet
Depth of completed well 2221 feet Rotary X / Cable Tools
Water strata depth: Fresh 65 feet; Salt feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Blue Monday Pay zone depth 2010 feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 190 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 320 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Production test co-mingled
Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

B2AX
1734



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

Well Treatment:

- 500 gal 15% HCL
- 5 gal A200
- 10 gal F-52
- 4 gal W-52-1
- 168,200 SFC N₂
- 2000 gal 7.5% HCL

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	125	
Shale			125	205	
Sand & Shale			205	315	
Red Rock			315	405	
Sand & Shale			405	545	
Red Rock			545	735	
Sand & Shale			735	800	
Shale			800	860	
Sand & Shale			860	1000	
Shale			1000	1020	
Sand & Shale			1020	1068	
Shale			1068	1112	
Sand & Shale			1112	1174	
Shale			1174	1260	
Sand & Shale			1260	1320	
Shale			1320	1398	
Salt Sand			1398	1452	
Shale			1452	1536	
Salt Sand			1536	1572	
Shale			1572	1596	
Salt Sand			1596	1656	
Shale			1656	1674	
Salt Sand			1674	1818	
Shale			1818	1954	
Little Lime			1954	1990	
Blue Monday			1990	2040	
Big Lime			2040	2110	
Big Injun			2110	2221	TD

(Attach separate sheets as necessary)

Stonestreet Lands Company
Well Operator

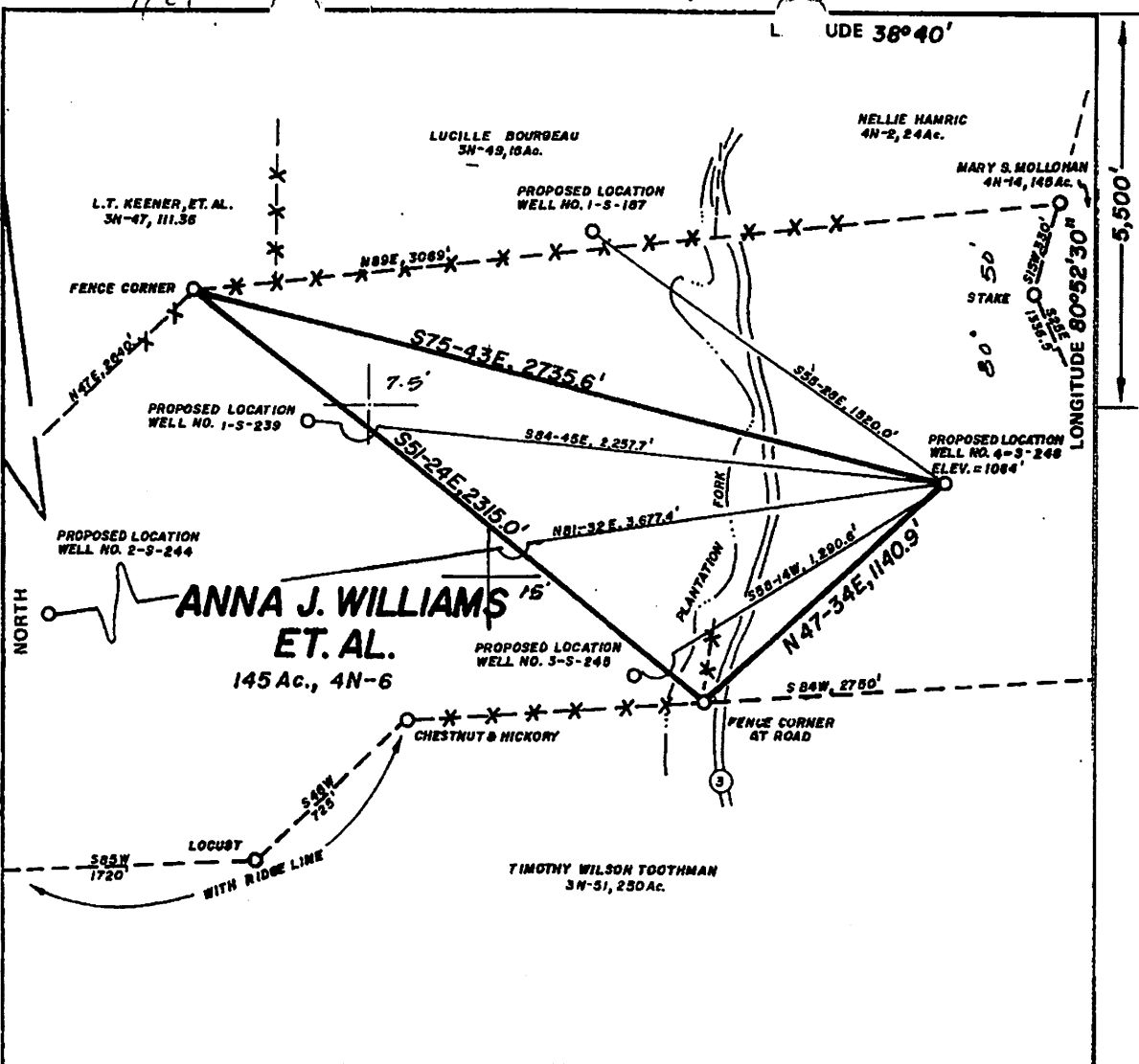
By: *[Signature]*
Date: December 26, 1982

General Manager

RECEIVED
Office of Oil and Gas
MAR 06 2017

WV Department of
Environmental Protection

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. 4
 DRAWING NO. _____
 SCALE 1"=200'
 MINIMUM DEGREE OF ACCURACY 1:200
 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) Chf. Wilkie
 R.P.E. _____ L.L.S. 717

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)
 WELL TYPE: OIL _____ GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 1084' WATER SHED PLANTATION FORK OF STEER CREEK
 DISTRICT BIRCH COUNTY BRAXTON
 QUADRANGLE ROSEDALE 7.8'
 SURFACE OWNER ANNA J. WILLIAMS, ET AL. ACREAGE 145.6
 OIL & GAS ROYALTY OWNER ANNA J. WILLIAMS, ET AL. LEASE ACREAGE 145.6
 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 2,111'
 WELL OPERATOR STONE STREET LANDS CO. DESIGNATED AGENT O.V. STONESTREET
 ADDRESS SPENCER, WV. ADDRESS SPENCER, WV.

DATE MAY 29 19 81
 OPERATOR'S WELL NO. 4-S-248
 API WELL NO. _____
47 - 007 - 1734
 STATE COUNTY PERMIT

 STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 RECEIVED
 Office of Oil and Gas
 MAR 06 2017
 WV Department of Environmental Protection
 05/19/2017

WW-4A
Revised 6-07

1) Date: February 16, 2017
2) Operator's Well Number
Duffield, Lovey 4-S-246

3) API Well No.: 47 - 007 - 01734

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 &/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:

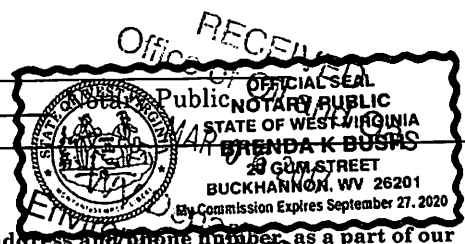
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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
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 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.

701734P

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

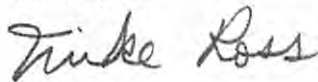
Dear Roger &/or Cheryl:

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.

7016 2140 0001 1545 5512

U.S. Postal Service™	
CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee \$ 3.35	RECEIVED U.S. Department of Environmental Protection MAR 06 2017 Postmark Here \$9.67 3/2/17
Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy) \$ 4.45	
<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	
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	

05/19/2017

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 1064 County Braxton District Birch

Description of anticipated Pit Waste: Plugging Fluid

Will a synthetic liner be used in the pit? ~~Yes~~ NO

*NO PIT, ANY WELL EFFLUENT
MUST BE CONTAINED IN TANKS
AND DISPOSED OF OFF-SITE, PROPERLY.
JMM*

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

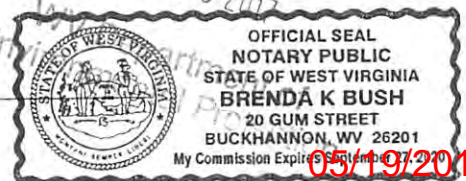
Company Official Title President

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

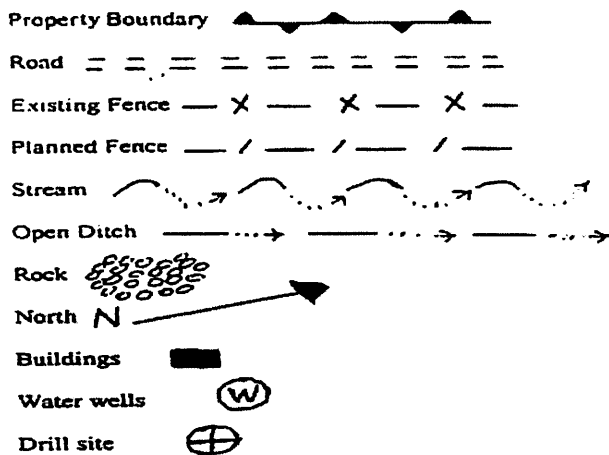
Brenda K Bush Notary Public

My commission expires September 27, 2020

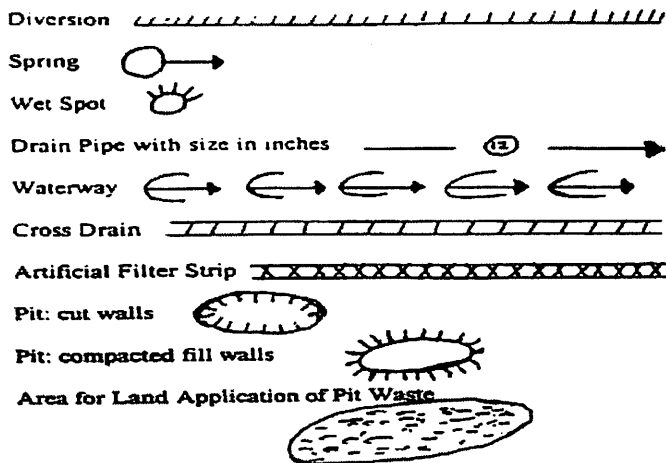
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Office of Oil and Gas
MAR 06 2017



05/19/2017



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	
	Seed Type	lbs/acre	Seed Type	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

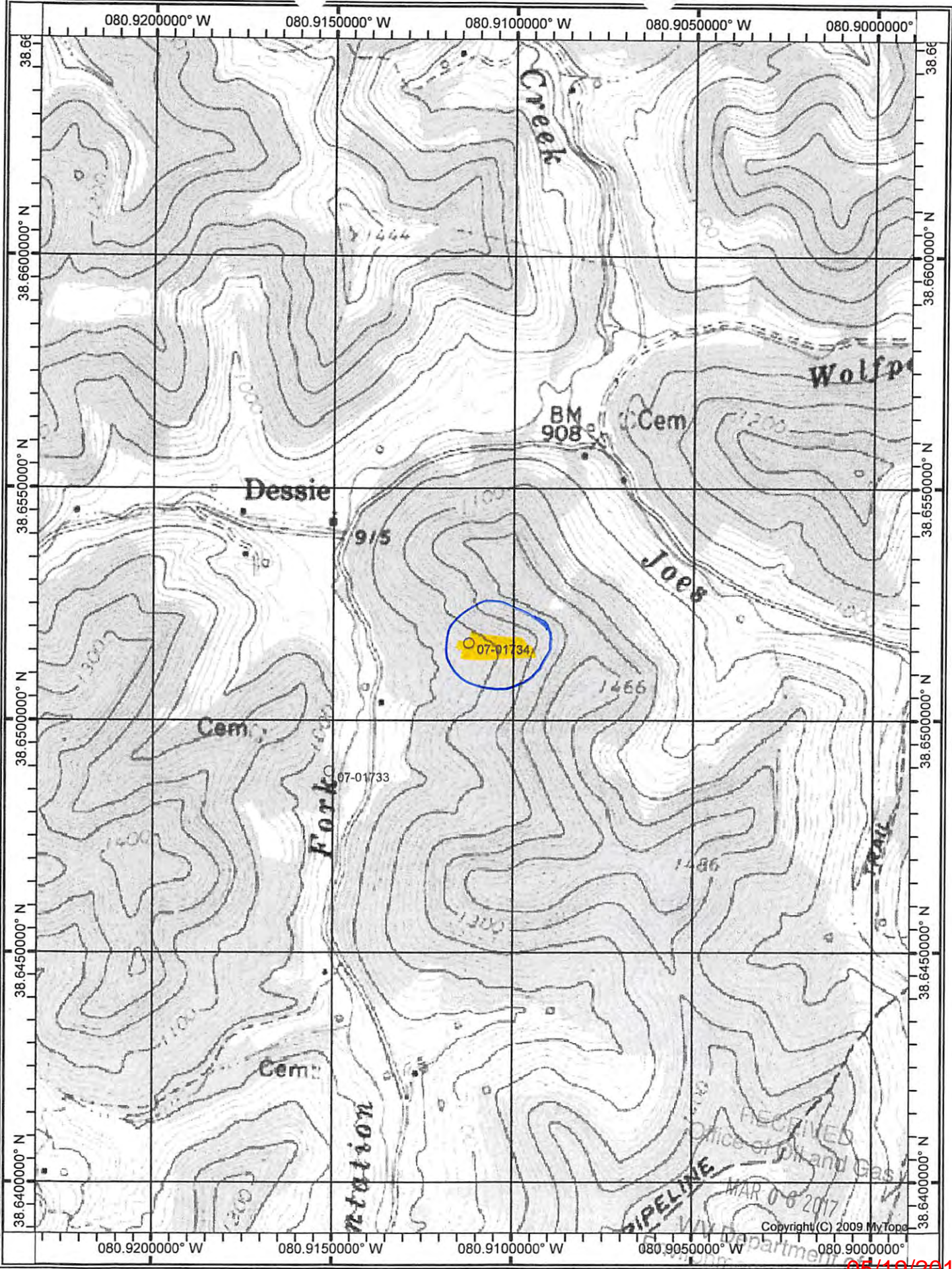
Date: February 16, 2017

Field Reviewed? () Yes () No

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MAR 7 2017
WV Department of
Environmental Protection
05/19/2017

701734P



05/19/2017

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MAR 08 2017
Department of Environmental Protection

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-007-01734 WELL NO.: 3-S-246

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: 4278128

UTM GPS EASTING: 507721.6 GPS ELEVATION: 1064

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