



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

August 11, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-701734, issued to ROSS & WHARTON GAS CO INC, 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 all 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. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 4-S-246
Farm Name: WHITE, ROGER & CHERYL
API Well Number: 47-701734
Permit Type: Plugging
Date Issued: 08/11/2014

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.

701734P



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: PLOGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

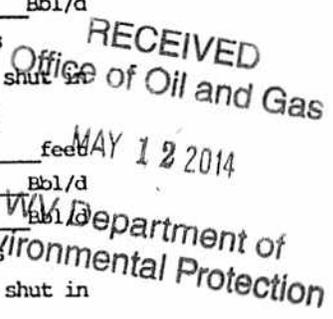
Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"			
9 5/8			
8 5/8	200	200	60 sks
7			
5 1/2			
4 1/2		2201	70 sks rft
3			
2			
Liners used			

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)

BRAX
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], General Manager
 Date: December 28, 1982

RECEIVED
 Office of Oil and Gas
 MAY 12 2014

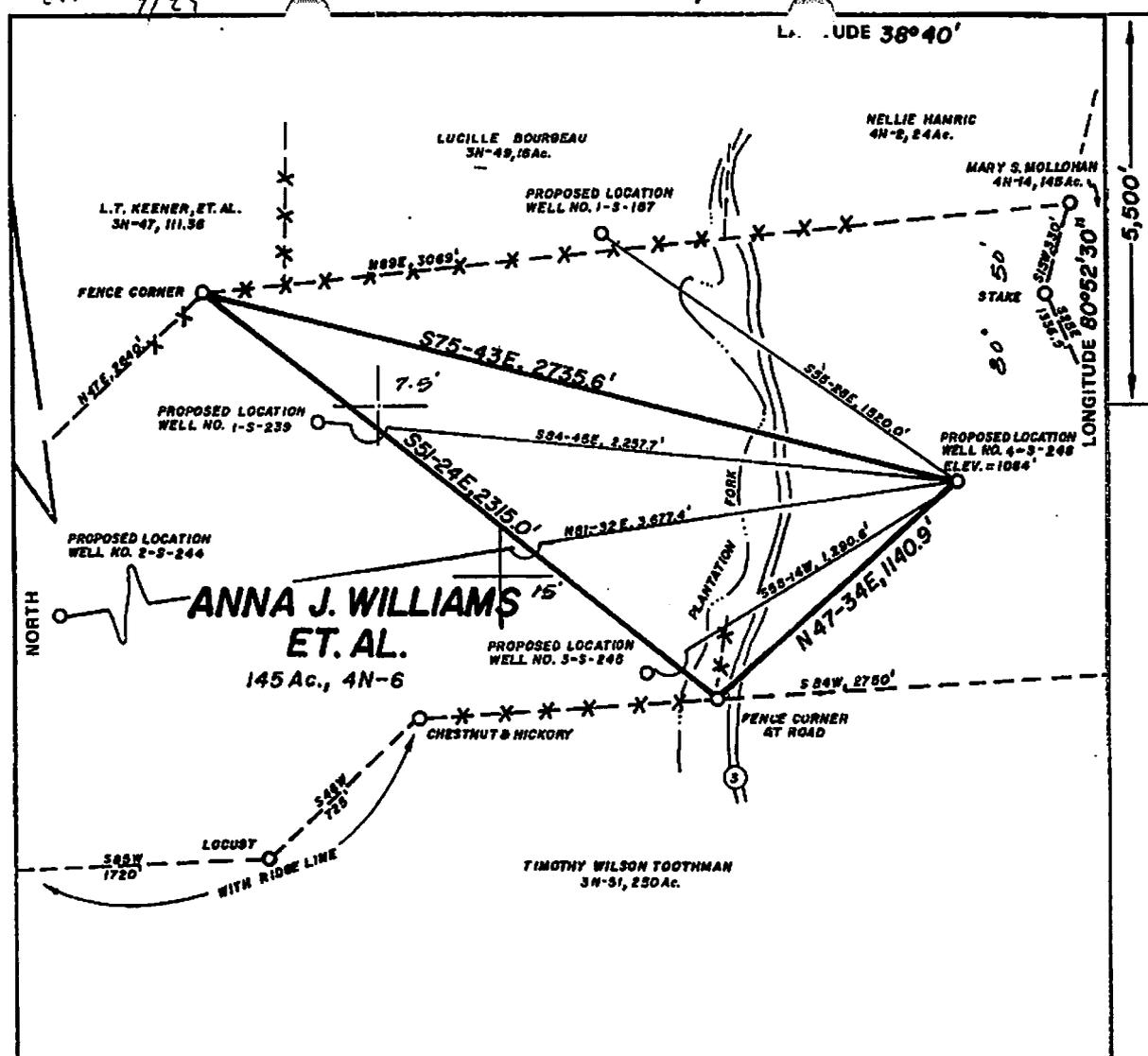
Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including, but not limited to, encountered in the drilling of a well."

WV Department of
 Environmental Protection

66 9/29

10,390

LA. DEGREE 36°40'



FILE NO. DUFFIELD NO. 4
 DRAWING NO. _____
 SCALE 1"=800'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION AT DEBBIE. 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) W. J. 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)



DATE MAY 29 19 81
 OPERATOR'S WELL NO. 4-S-246
 API WELL NO. _____
47 - 007 - 1734
 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 1084' WATER SHED PLANTATION FORK OF STEER 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 8.5 INJUN ESTIMATED DEPTH 2,111'
 WELL OPERATOR STONESTREET LANDS CO. DESIGNATED AGENT O.V. STONESTREET
 ADDRESS SPENCER, WV. ADDRESS SPENCER, WV.

RECEIVED
 Office of Oil and Gas

MAY 12 2014

WV Department of Environmental Protection

701734F

WW-4A
Revised 6-07

1) Date: April 1, 2014
2) Operator's Well Number
Duffield, Lovey 3-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>Bryan Harris</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 157</u>	Name <u>N/A</u>
<u>Volga, WV 26238</u>	Address _____
Telephone <u>304-553-6087</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	<u>Ross & Wharton (Mike Ross Inc.)</u>
	By	<u><i>Mike Ross</i></u>
	Its	<u>President</u>
	Address	<u>PO Box 219</u>
	Telephone	<u>Coalton, WV 26257</u> <u>304-472-4289</u>

RECEIVED
Office of Oil and Gas

Subscribed and sworn before me this 22nd day of April, 2014
Brenda K Bush Notary Public
My Commission Expires September 27, 2020

MAY 1 2 2014
WV Department of
Environmental Protection

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 depprivacyoffier@wv.gov.

Mike Ross Inc.

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

May 7, 2014

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

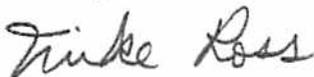
Dear Roger &/or Cheryl:

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.

U.S. Postal Service™		CERTIFIED MAIL™ RECEIPT	
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>			
For delivery information visit our website at www.usps.com ®			
OFFICIAL USE			
Postage	\$ 2.45	RECEIVED Office of Oil and Gas Postmark Here MAY 12 2014 WV Department of Environmental Protection	<input checked="" type="checkbox"/>
Certified Fee	3.30		
Return Receipt Fee (Endorsement Required)	2.70		
Restricted Delivery Fee (Endorsement Required)			
Total Postage & Fees	\$ 8.45		
Sent To		Roger & Cheryl White	
Street, Apt. No.; or PO Box No.		HC 84 Box 18	
City, State, ZIP+4		Frametown, WV 26623	
PS Form 3800, August 2006 See Reverse for Instructions			

701734P

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? NO YES 20 MIL.

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*

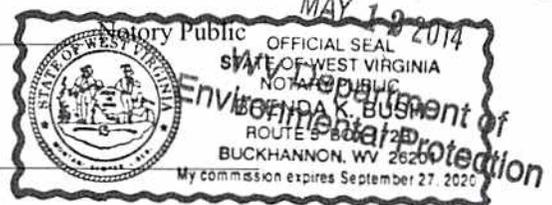
Company Official (Typed Name) Mike Ross

Company Official Title President

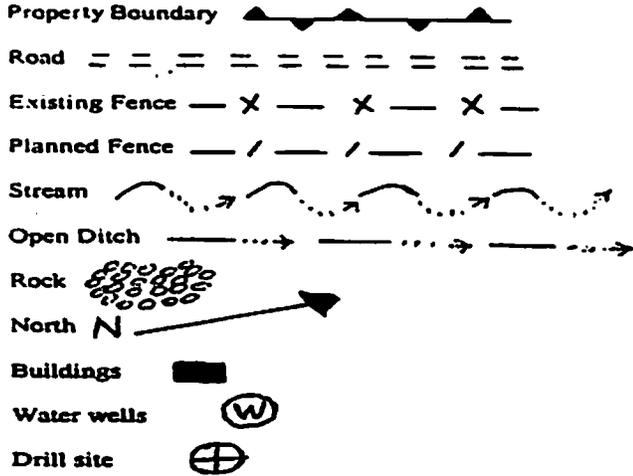
Subscribed and sworn before me this 22nd day of April, 2014

Brenda K Bush

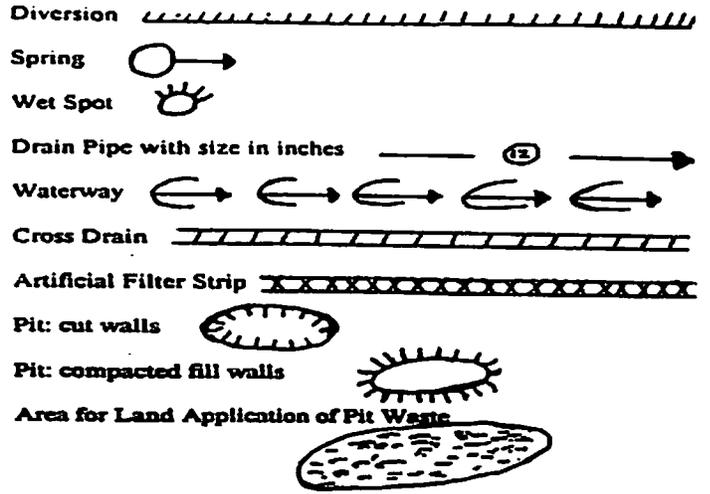
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Office of Oil and Gas



My commission expires September 27, 2020



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

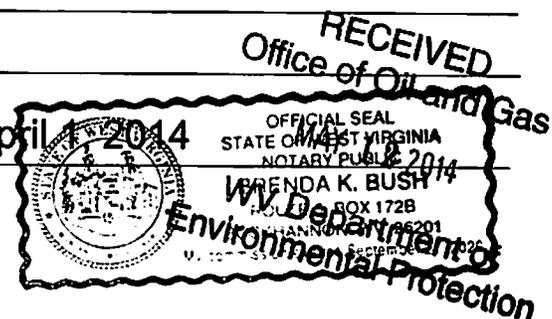
Seed Type	Area I lbs/acre	Area II lbs/acre
Fescue		
Contractors Mix		

Attach:
 Drawing(s) of road, location, pit and proposed area for land application.
 Photocopied section of involved 7.5' topographic sheet.

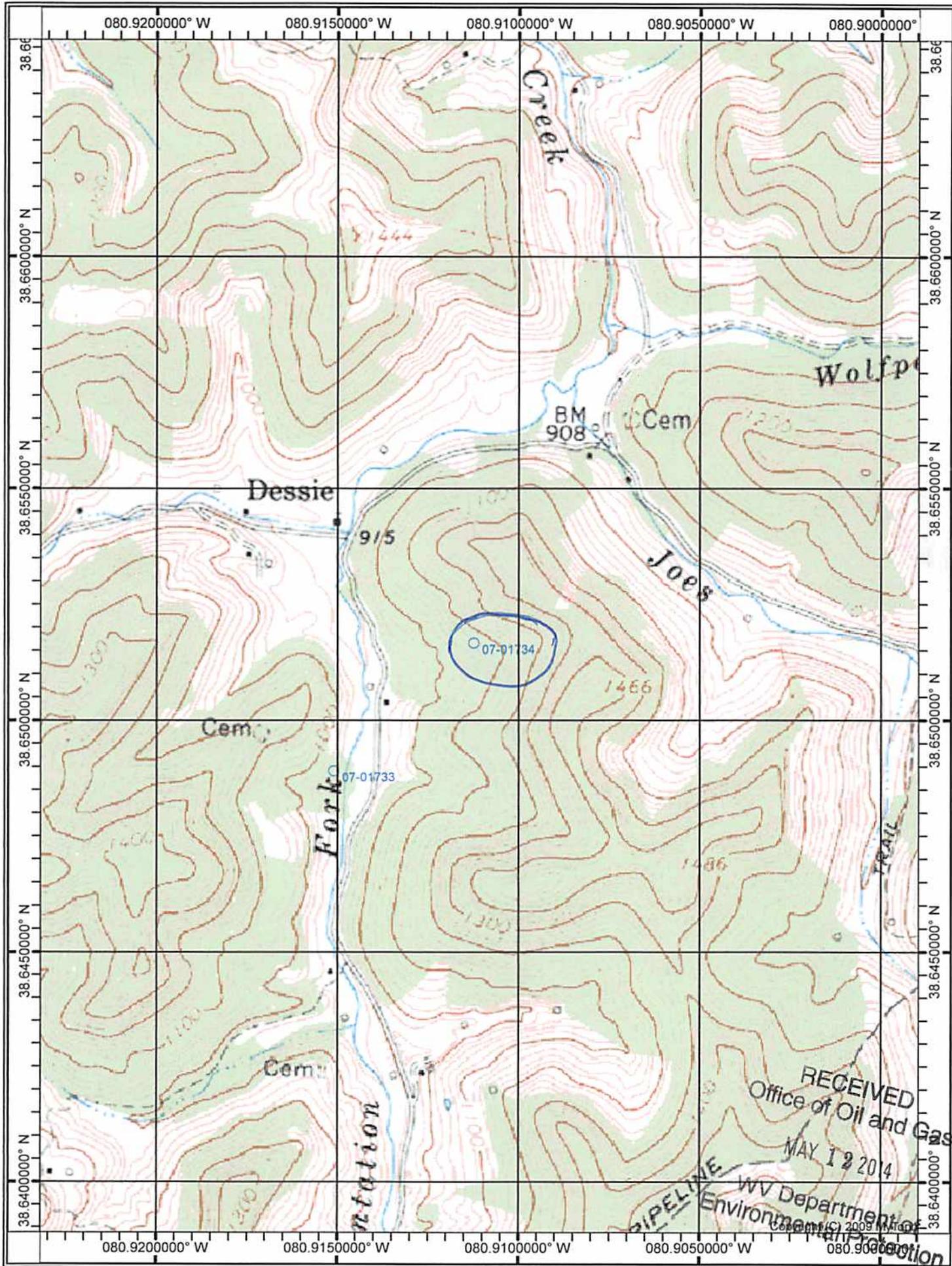
Plan Approved by: Bryan O'Hain 5-7-14
 Comments: _____

Title: President
 Field Reviewed? Yes No

Date: April 1, 2014



701734P



701734P

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 ⁵⁸⁷

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- 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

RECEIVED
Office of Oil and Gas
MAY 12 2014
WV Department of
Environmental Protection
Date