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**west virginia** department of environmental protection

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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: 47-701732, 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: 2-S-244  
Farm Name: WHITE, ROGER & CHERYL  
**API Well Number: 47-701732**  
**Permit Type: Plugging**  
Date Issued: 08/11/2014

## 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.

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  
Bryan Harris  
PO Box 157  
Volga, WV 26238

9) Plugging Contractor  
Name Unknown  
Address \_\_\_\_\_

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

-2606- TD 2636'

- Run 6% Gel between each plug
- 2450 - 2300 Set Cement Plug
- 1950 - 1850 Set Cement Plug
- 1470 - 1370 Set Cement Plug
- 240' - 0 Set Cement Plug
- Set Monument with API Number

FREEPOINT 4 1/2" CASING  
AND REMOVE ALL FREE CASING  
SET 100' MINIMUM CLASS A PLUG  
ACROSS 4 1/2" CASING CUT.

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

Work order approved by inspector Bryan O'Hara

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Office of Oil and Gas  
MAY 12 2014  
Date 5-7-14  
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Environmental Protection  
08/15/2014





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. 2-S-244  
Farm Lovey Duffield  
API No. 47 - 007 - 1732

C.O. & GAS 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: 1420 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 2-22-82  
DRILLING COMPLETED 2-27-82

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cowl.			
13-10"			
9 5/8			
8 5/8	190	190	60 sks
7			
5 1/2			
4 1/2		2606	70 sks r/c
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

GEOLOGICAL TARGET FORMATION Big Injun Depth 2556 feet  
Depth of completed well 2636 feet Rotary X / Cable Tools  
Water strata depth: Fresh 95 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 2372 feet  
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d  
Final open flow 370 Mcf/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 6 hours  
Static rock pressure 410 psig (surface measurement) after 48 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 370 Mcf/d Oil: Final open flow \_\_\_ Bbl/d  
Time of open flow between initial and final tests 6 hours  
Static rock pressure 410 psig (surface measurement) after 48 hours shut in

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08/15/2014

(Continue on reverse)

FORM IV-35  
(REVERSE)

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 BBls. Water A-200 Inhibitor 4 gals.

WELL LOG

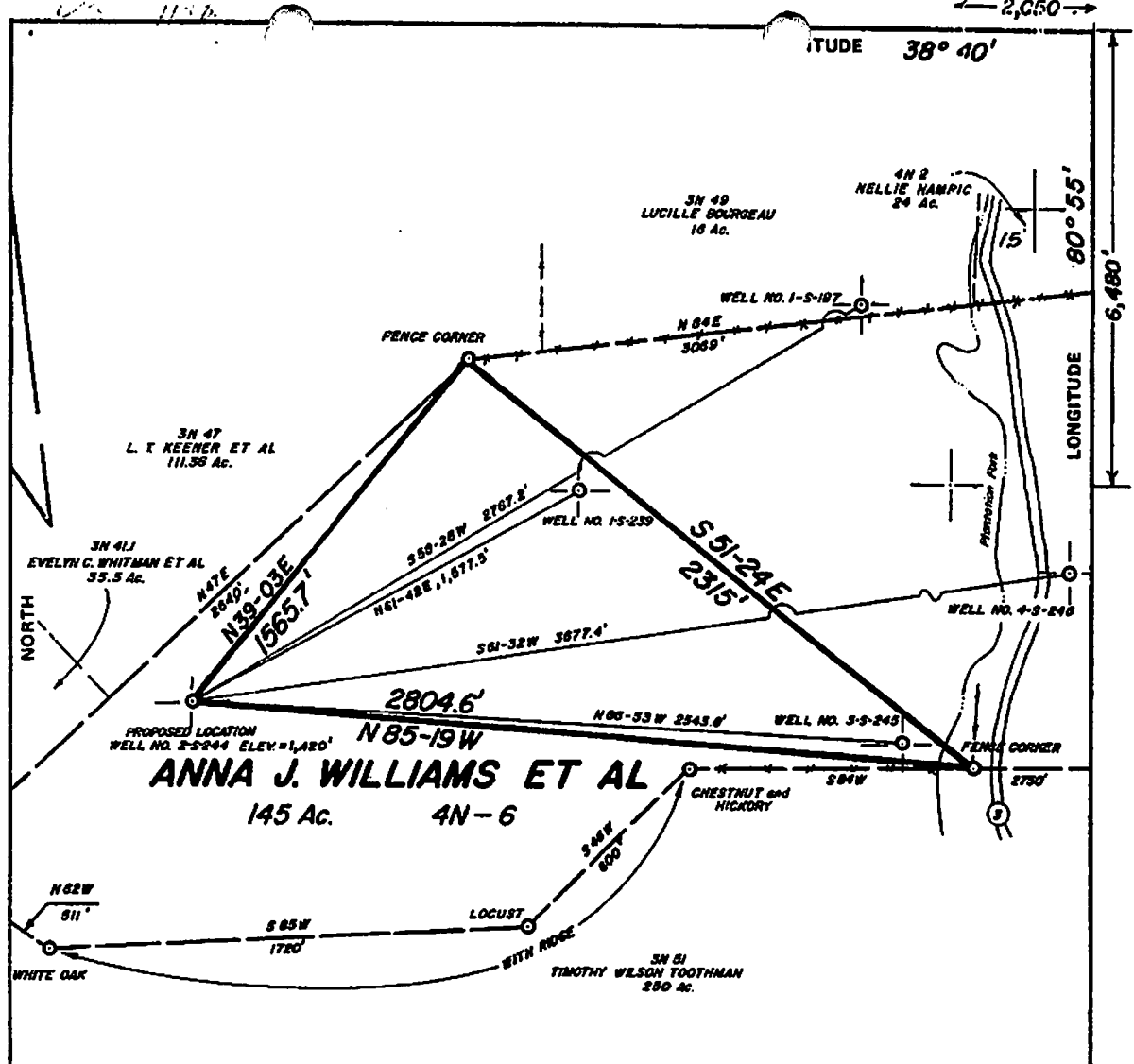
FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Clay			0	30	
Sand			30	95	
Sand & Shale			95	155	
Red Rock			155	300	
Sand & Shale			300	425	
Red Rock			425	610	
Sand & Shale			610	830	
Shale			830	945	
Sand & Shale			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: *Arthur J. Hoffman* 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."

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05/15/2014



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. = 985'

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, 1981  
 OPERATOR'S WELL NO. 2-3-244  
 API WELL NO. 47-007-1732  
 STATE WEST VIRGINIA COUNTY BRAXTON PERMIT 1732

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 1,480' WATER SHED PLANTATION FORK OF STEER CREEK  
 DISTRICT BIRCH COUNTY BRAXTON  
 QUADRANGLE ROSEDALE T.5'  
 SURFACE OWNER ANNA J. WILLIAMS ET AL ACREAGE 145 AC.  
 OIL & GAS ROYALTY OWNER ANNA J. WILLIAMS ET AL LEASE ACREAGE 145  
 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 2,497'  
 WELL OPERATOR STONE STREET LANDS CO. DESIGNATED AGENT O. V. STONESTREET  
 ADDRESS SPENCER WV. ADDRESS SPENCER WV.

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 Office of Oil and Gas

MAY 12 2014

WV Department of Environmental Protection

08/15/2014



701732P

WW-4A  
Revised 6-07

1) Date: April 1, 2014  
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 Roger White &/or Cheryl	Name N/A
Address HC 84 Box 18	Address
Frametown, WV 26623	
(b) Name	(b) Coal Owner(s) with Declaration
Address	Name N/A
	Address
(c) Name	Name
Address	Address
6) Inspector Bryan Harris	(c) Coal Lessee with Declaration
Address PO Box 157	Name N/A
Volga, WV 26238	Address
Telephone 304-553-6087	

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 By: Mike Ross  
Its: President  
Address PO Box 219  
Telephone Coalton, WV 26257  
304-472-4289

Ross & Shannon (Mike Ross Inc.)  
Mike Ross  
President  
PO Box 219  
Coalton, WV 26257  
304-472-4289

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

Brenda K Bush  
My Commission Expires September 27, 2020

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Office of Oil and Gas

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](mailto:depprivacyofficer@wv.gov).

MAY 12 2014

08/15/2014

7017321A

# 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

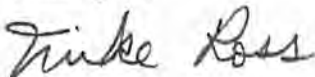
Dear Roger &/or Cheryl:

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.

2014 2000 0001 2588 0272

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<b>Total Postage &amp; Fees</b>	<b>\$ 8.45</b>

5/9/14

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Office of Oil and Gas  
MAY 12 2014

Sent To  
Street, Apt. No., or PO Box No. Roger & Cheryl White  
City, State, ZIP+4 HC 84 Box 18, WV  
Frametown, WV 26623

PS Form 3800, August 2006 See Reverse for Instructions

Environmental Protection

08/15/2014



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? ~~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*

My commission expires September 27, 2020



08/15/2014

**LEGEND**

- Property Boundary
- Road
- Existing Fence
- Planned Fence
- Stream
- Open Ditch
- Rock
- North
- Buildings
- Water wells
- Drill site

- Diversion
- Spring
- Wet Spot
- Drain Pipe with size in inches
- Waterway
- Cross Drain
- Artificial Filter Strip
- Pit: cut walls
- Pit: compacted fill walls
- Area for Land Application of Pit Waste

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	Seed Type	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'Hara 5-7-14  
 Comments: \_\_\_\_\_

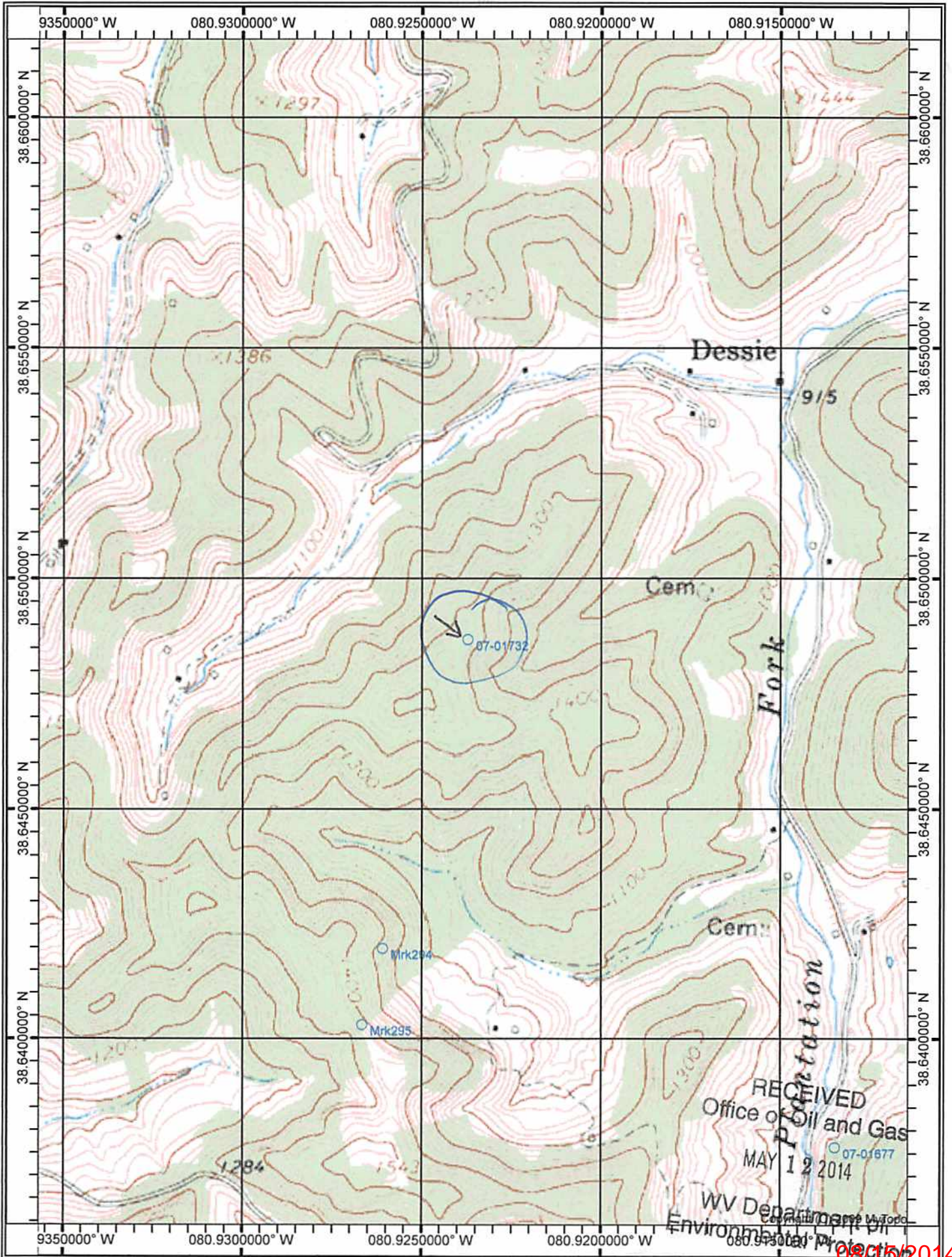
Title: President Date: April 1, 2014

Field Reviewed? ( ) Yes (  ) No

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 WV Department of Environmental Protection  
 08/15/2014



701732P





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 1

QUADRANGLE: Rosedale 587

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

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April 1, 2014  
WV Department of Environmental Protection  
Date 08/15/2014