



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 08, 2014

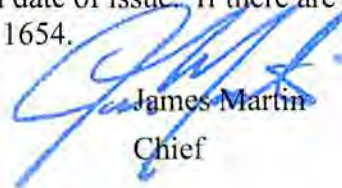
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-701238, 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: 1
Farm Name: ROSS, MIKE
API Well Number: 47-701238
Permit Type: Plugging
Date Issued: 08/08/2014

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

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 April 1, 2014
2) Operator's
Well No. Emerson, White #1
3) API Well No. 47-007 - 01238

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 946.04 Watershed Right Fork of Salt Lick
District Salt Lick County Braxton Quadrangle 7.5' Sutton

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:
4479 - TD

- Run 6% Gel between each plug
- 4350 - 4200 Set Cement Plug
- 2950 - ~~4800~~²⁸⁰⁰ Set Cement Plug
- 2600 - 2500 Set Cement Plug
- 2050 - 1950 Set Cement Plug
- 1700 - 1600 Set Cement Plug
- 100 - 0 Set Cement Plug

- FREEPOINT & PULL ALL CASING POSSIBLE.
- PLUG ACROSS ALL CASING CUTS.
- PLUG ACROSS 2 5/8" CASING SEAT IF POSSIBLE.

1000 - 900 Set Cement Plug
Set Monument with API Number

RECEIVED
Office of Oil and Gas

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

MAY 12 2014

WV Department of
Environmental Protection
Date 5-7-14

Work order approved by inspector

Bryan O'Hara



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NOV - 9 1978

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL & GAS DIVISION
Oil and Gas Division
WELL RECORD

Quadrangle 7.5' Sutton/15' Sutton

Permit No. BRAX-1238

Rotary Oil _____
Cable _____ Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Company Texas International Petroleum Corp.
Address Charleston, West Virginia
Farm Emerson White Acres 166
Location (waters) Right Fork of Salt Lick
Well No. 1 Elev. 946.04
District Salt Lick County Braxton
The surface of tract is owned in fee by _____
Emerson F. White
Address Flatwoods, West Virginia
Mineral rights are owned by Emerson F. White
Address Flatwoods, WV
Drilling Commenced 1-14-78
Drilling Completed 1-22-78
Initial open flow _____ cu. ft. _____ bbls.
Final production 18.3 HCFD cu. ft. per day _____ bbls.
Well open 8 hrs. before test 650 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond 16"	25'	25'	Conductor
13-10"			
9 5/8			
8 5/8	710'	710'	Cemented w/280 sacks.
7			
5 1/2			
4 1/2	4479'	4479'	Cemented w/448 sacks.
3			
2			
Liners Used			

Well treatment details: Perforated Benson 4279-4294'. Broke Benson down with 750 PSI. Fraced w/831 barrels gelled water 15,000# 80/100 sand, 45,000# 20/40 sand. AIP 1585 PSI, AIR 26.1 BPM, ISIP 900 PSI 10 min. SIP 890 PSI. Set CIBP @ 4194'. Perforated Blue Monday 1620-27'. Spotted 500 gal. 15% HCl. Loaded hole. Broke Blue Monday w/1000 PSI. Fraced w/654 barrels gelled water 10,000# 80/100 & 40,000# 20/40 sand. AIP 1800 PSI, AIR 25 BPM, ISIP 1300 PSI, 20 min. SIP 1150 PSI. Coal was encountered at 322-327'; 660-664' Feet 60"; 48" Inches
Fresh water N/R Feet _____ Salt Water _____ Feet _____
Producing Sand Blue Monday Depth 1620'

Attach copy of cementing record.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	6		
Sand Rock			6	15		
Creek Gravel			15	18		
Rock			18	25		
Red Rock			25	29		
Shale			29	70		
Sand			70	100		
Shale			100	195		
Sand Shale			195	264		
Shale			264	322		
Coal			322	327		
Sand			327	389		
Sand Shale			389	660		
Coal			660	664		
Shale			664	720		
Shale			720	840		
Sand			840	890		
Sand & Shale			890	980		
Shale			980	1236		
Upper Maxton			1236	1313		
Shale			1313	1360		
Salt Sand			1360	1470		
Sand Shale			1470	1540		
Red Rock			1540	1545		

* Indicates Electric Log tops in the remarks section.

(over)

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WV Department of
Environmental Protection

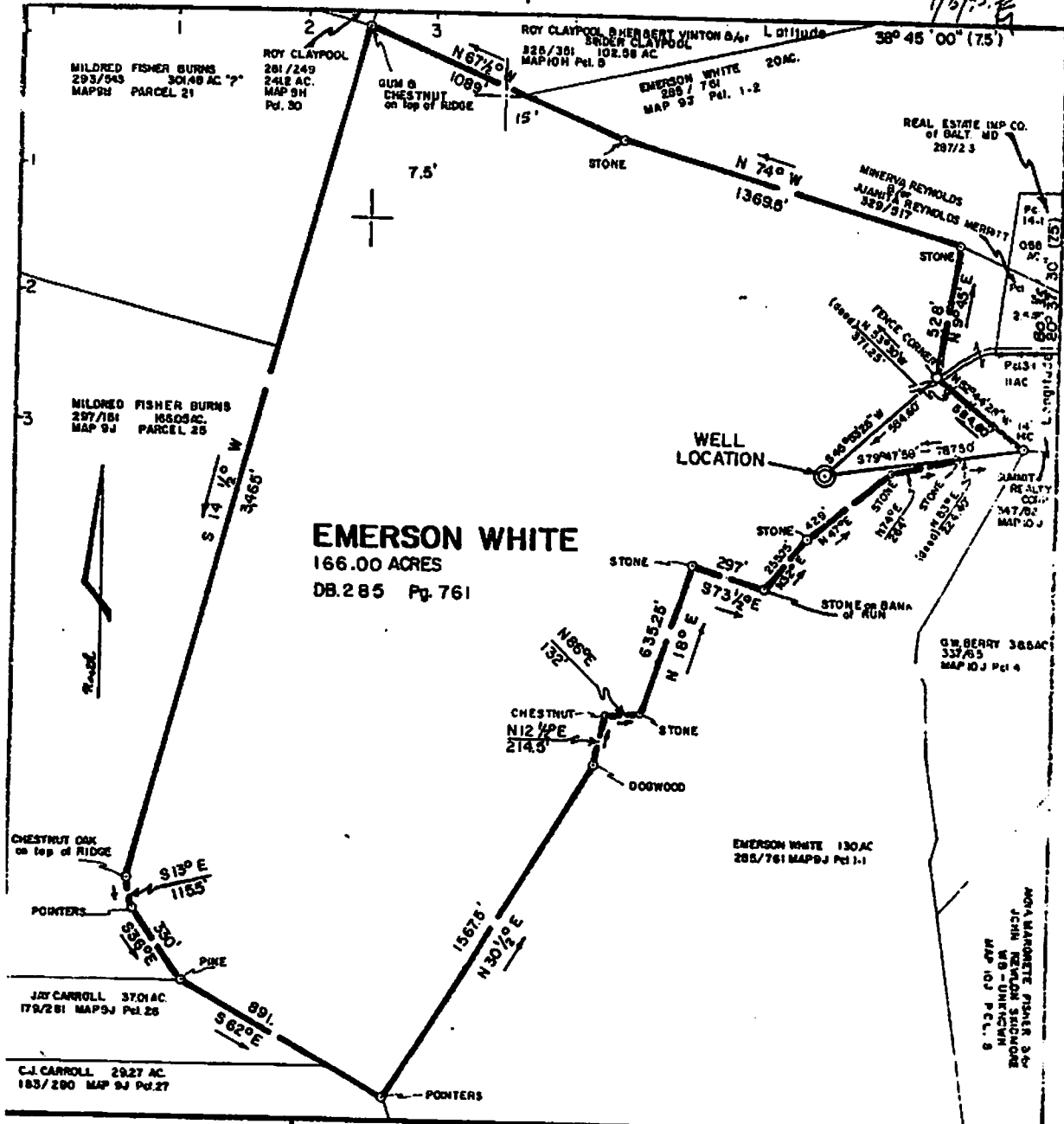
08/08/2014

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand & Shale			1545	1971		
Shale			1971	2270		
Fifth Sand			2270	2294		
Shale			2294	2560		
Speechley			2560	2563		
Sand & Shale			2563	2800		
Sand - Bailtown			2800	2930		
Sand & Shale			2930	4275		
Benson			4275	4300		
Shale			4300	4701	T. D.	

Date November 7th, 1978

APPROVED: Texas International (Owner)
Petroleum Corporation
 By James M. Blanton
 (Title)
 Division Manager

08/08/2014



EMERSON WHITE
166.00 ACRES
DB.285 Pg. 761

New Location...
Drill Deeper...
Abandonment...

Minimum Error of Closure 1" in 700'
Source of Elevation B.M. ELEV. 960, Brass Disc in Headwall East Side R.R. 11,000'
South of RR Crossing at Berry Sliding.
"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by provisions of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

COMPANY **TIPCO TEXAS INTERNATIONAL PETROLEUM CORPORATION**
ADDRESS **SUITE 1020 VALLEY SQUARE CHARLESTON, W. VA.**
FARM **EMERSON WHITE**
TRACT _____ ACRES **166.00** LEASE NO. _____
WELL (FARM) NO. **1** SERIAL NO. _____
ELEVATION (SPIRIT LEVEL) **946.04**
QUADRANGLE **SUTTON 7.5'**
COUNTY **BRAXTON** DISTRICT **SALT LICK**
ENGINEER **Brackenrich & Skidmore, Inc. - J.D. Brackenrich, R.P.E.**
ENGINEER'S REGISTRATION NO. **3994**
DATE **JAN. 4, 1977** SCALE **1" = 500'**

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

RECEIVED
Office of Oil and Gas
WELL LOCATION MAP
FILE NO. **BRAX-1238**
MAY 12 2014

Department of Environmental Protection

47-007

08/08/2014

WW-4A
Revised 6-07

1) Date: April 1, 2014
2) Operator's Well Number
Emerson, White #1
3) API Well No.: 47 - 007 - 01238

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>Mike Ross</u>	Name <u>N/A</u>
Address <u>PO Box 219</u>	Address _____
<u>Coalton, WV 26257</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>Mike Ross</u>
	Its <u>President</u>
	Address <u>PO Box 219</u>
	<u>Coalton, WV 26257</u>
Telephone <u>304-472-4289</u>	

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

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Office of Oil and Gas
MAY 12 2014

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, in order to perform 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.

08/08/2014

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 Right Fork of Salt Lick Quadrangle 7.5' Sutton/

Elevation 946.04 County Braxton District Salt Lick

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*

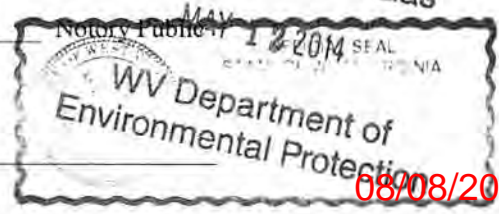
Company Official (Typed Name) Mike Ross

Company Official Title President

Subscribed and sworn before me this 22nd day of April

Brenda K Bush

My commission expires September 27, 2020



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.

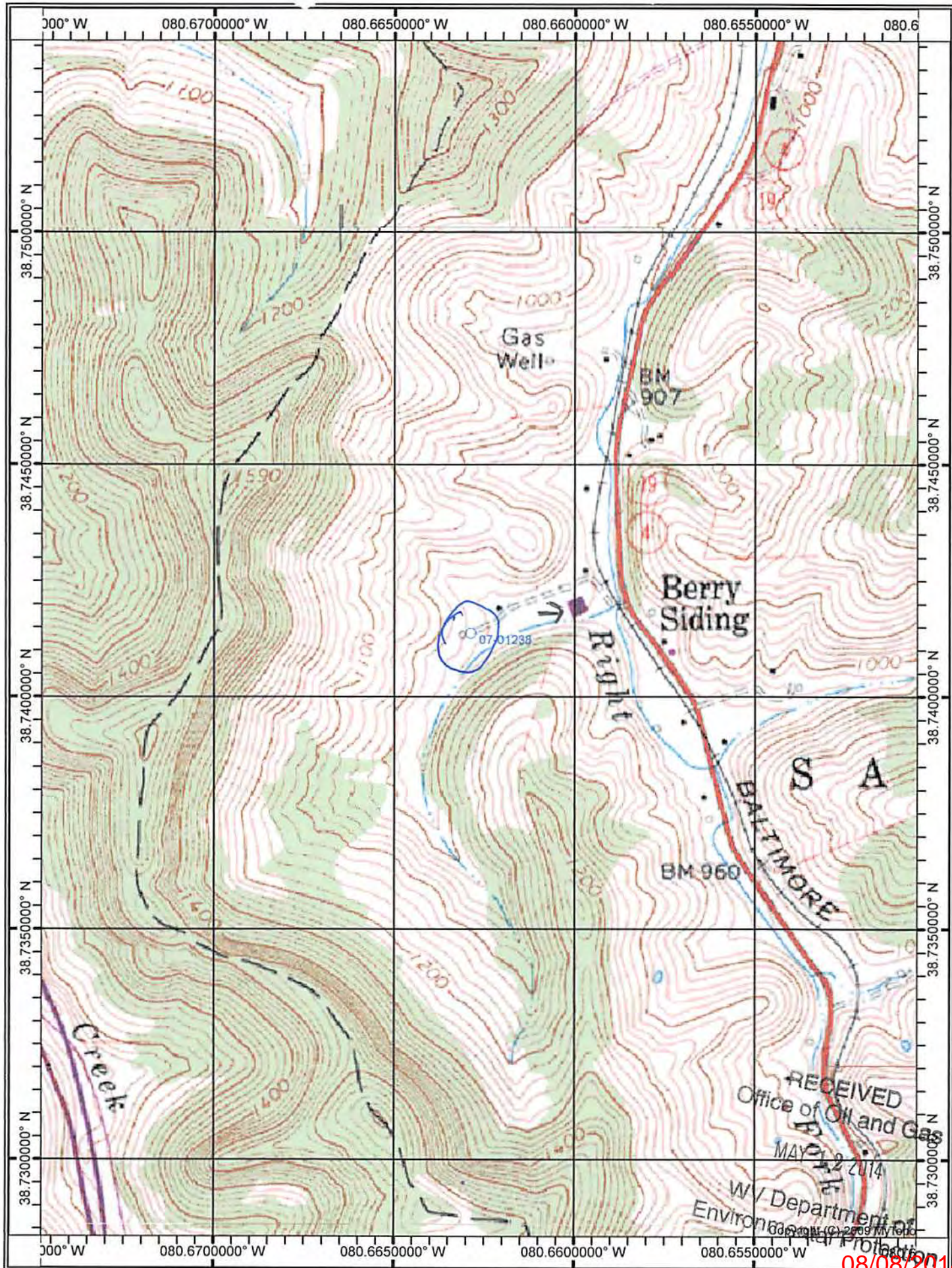
Plan Approved by: *Raymond O'Hara* 5-7-14
 Comments: _____

Title: President Date: April 1, 2014

Field Reviewed? Yes No

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 Office of Oil and Gas
 MAY 12 2014
 WV Department of
 Environmental Protection
 08/08/2014

701238P



08/08/2014

701238 P

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-007-01238 WELL NO.: 1

FARM NAME: Emerson, White

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Braxton DISTRICT: Salt Lick

QUADRANGLE: 7.5' Sutton *628*

SURFACE OWNER: Mike Ross

ROYALTY OWNER: Emerson F. White

UTM GPS NORTHING: 4288123.1

UTM GPS EASTING: 529302.7 GPS ELEVATION: 946.04

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 ____

- 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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Office of Oil and Gas
MAY 12 2014
WV Department of Environmental Protection
April 1 2014
Date

08/08/2014