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: 47-701674, 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 penalities 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-S-219
Farm Name: TUCK FAMILY LIMITED PARTNE
API Well Number: 47-701674
Permit Type: Plugging
Date Issued: 08/08/2014

Promoting a healthy environment.

701674P

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.

WW-4B
Rev. 2/01

1) Date April 1, 2014
2) Operator's Well No. Tuck, Richard 1-S-219
3) API Well No. 47- 007 - 01674

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 1044 Watershed Wolf Pen Run of Steer Creek
District Birch County Braxton Quadrangle Rosedale

6) Well Operator Ross & Wharton
Address Route 5 Box 29
Buckhannon, WV 26201

7) Designated Agent Mike Ross
Address PO Box 219
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:

~~2253~~ - TD 2378'

Run 6% Gel between each plug

2253 - ~~1980~~ 1930 Set Cement Plug

1550 - 1450 Set Cement Plug

1100 - 1000 Set Cement Plug

~~100~~ 260 - 0 Set Cement Plug

Set Monument with API Number

FREEPOINT & CUT 4½ (EST. 1900')
CEMENT AT LEAST 100' PLUG ACROSS CUT.

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

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

Work order approved by inspector Bryan O'Harris Date 5-7-14

701674P

OG-10
Rev - 9-71

RECEIVED
SEP 16 1982
OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

WELL RECORD

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

Quadrangle Rosedale
Permit No 47-007-1674

Company Stonestreet Lands Company
Address P. O. Box 150 Spencer, W.Va.
Farm Richards Acres 46
Location (waters) Wolf Pen Run of Steer Creek
Well No. PS 219 Elev. 1044
District Birch County Braxton
The surface of tract is owned in fee by Richard Tuck
Address Washington, D C
Mineral rights are owned by Richard Tuck etals
Address Washington, D.C.
Drilling Commenced 7-18-81
Drilling Completed 7-22-81
Initial open flow 25,000 cu. ft. 0 bbls.
Final production 625,000 cu. ft. per day Show bbls.
Well open 6 hrs. before test 610 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	204	204	60 sks
7			
5 1/2			
4 1/2		2253	70 sks neat
3			
2			
Liners Used			

Attach copy of cementing record.

Well treatment details
J-266 Gell 350 lbs. 20/40 sand 30,000
W 22 Anti sludging 36 gals. L-53 clay control agent 15 gals.
I 18 I/eflo surfacland 8 gals. Acid 15% HCL 2000 gals. 500 bbls. water
A 200 Inhibitor 4 gals

Coal was encountered at None Feet ____ Inches ____
Fresh water 65 Feet ____ Salt Water ____ Feet ____
Producing Sand Blue Monday, Big Injun Depth 1990-2224

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Not recorded			0	1000	0 to 1000 not recorded is continued on the back	
Shale & Sand			1000	1030		
Shale			1030	1100		
Sand & Shale			1100	1152		
Shale			1152	1218		
Sand & Shale			1218	1234		
Shale			1234	1242		
Sand & Shale			1242	1272		
Shale			1272	1368		
Sand & Shale			1368	1390		
Shale			1390	1496		
Sand & Shale			1496	1530		
Shale			1530	1564		
Salt Sand			1564	1604		
Shale			1604	1676		
Salt sand			1676	1698		
Shale			1698	1716		
Salt sand			1716	1782		
Shale			1782	1930		
Little Lime			1930	1960		
Shale			1960	1978		
Salt Sand			1978	1990		
Blue Monday			1990	2010		

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

701674P

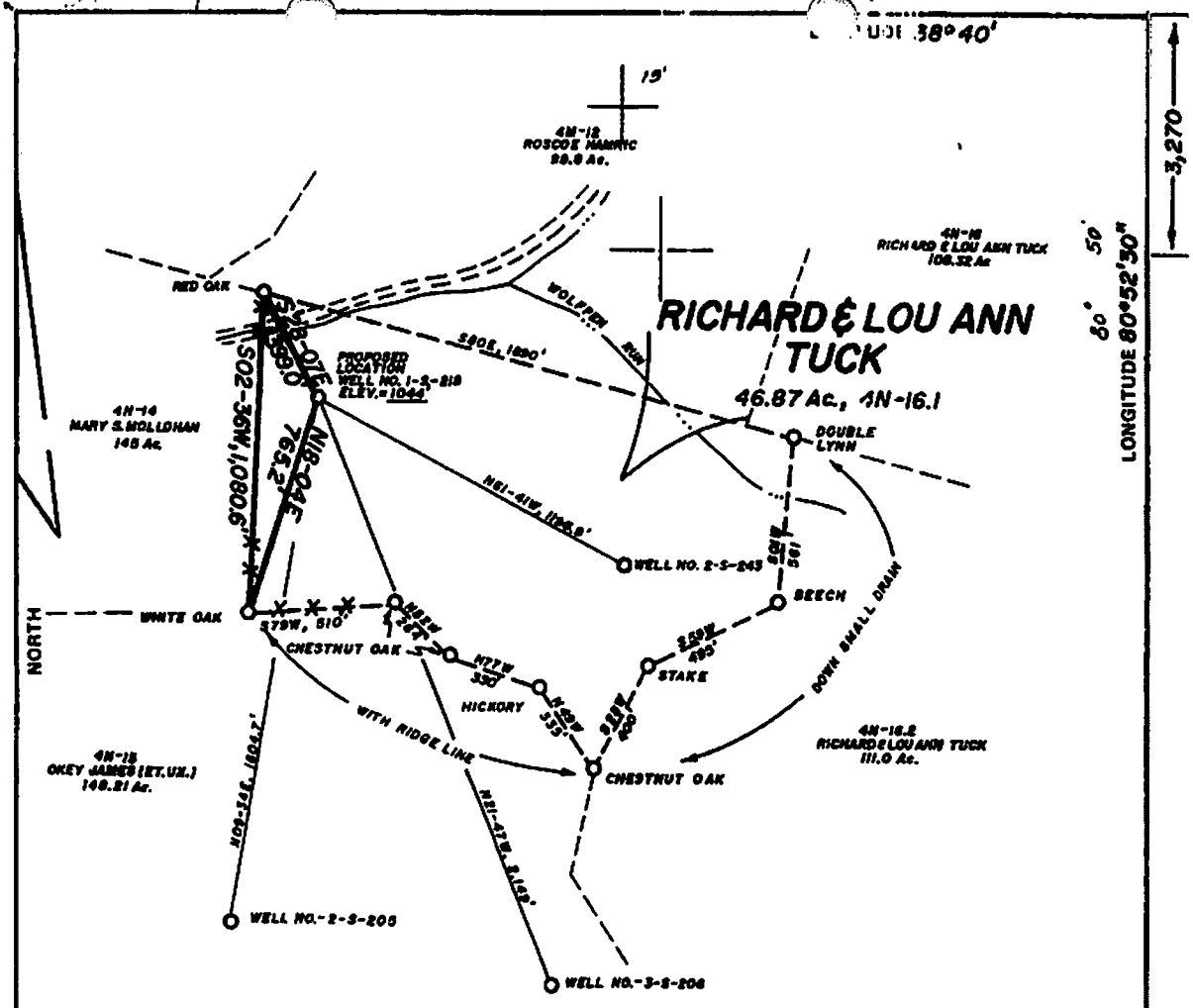
Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Big Lime			2010	2100		
Big Injun			2100	2224		
Shale			2224	2378	TD	
Clay			0	25		
Sand & Shale			25	50		
Red Rock			50	65		
Sand & Shale			65	105		
Red Rock			105	150		
Sand & Shale			150	180		
Red Rock			180	196		
Sand & Shale			196	230		
Red Rock			230	270		
Sand & Shale			270	290		
Red Rock			290	320		
Sand & Shale			320	360		
Red Rock			360	380		
Sand & Shale			380	410		
Red Rock			410	460		
Sand & Shale			460	490		
Red Rock			490	530		
Sand & Shale			530	560		
Red Rock			560	610		
Sand & Shale			610	650		
Red Rock			650	695		
Sand & Shale			695	730		
Shale			730	760		
Sand & Shale			760	790		
Shale			790	840		
Sand & Shale			840	870		
Shale			870	910		
Sand & Shale			910	940		
Shale			940	1000		

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

Date September 81

APPROVED [signature]
General Manager

701674P



FILE NO. RICHARD S
DRAWING NO.
SCALE 1"=800
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION B.M. AT ROAD INTERSECTION, ELEV.=908'

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) Cliff Wilkie

R.P.E. _____ L.L.S. 717

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6
(8/81)

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE MAY 27, 19 81
OPERATOR'S WELL NO. 1-S-218
API WELL NO.
47 - 007 - 1674-P
STATE COUNTY PERMIT

Plugging Permit Cancelled

WELL TYPE: OIL ___ GAS ● LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ●
LOCATION ELEVATION 1044' WATER SHED WOLFPEN RUN OF STEER CREEK
DISTRICT BIRCH COUNTY BRAXTON
QUADRANGLE ROSEDALE 7.5'
SURFACE OWNER RICHARD & LOU ANN TUCK ACREAGE 46.87 Ac.
OIL & GAS ROYALTY OWNER RICHARD & LOU ANN TUCK, ET. AL. LEASE ACREAGE 46 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 2000'
WELL OPERATOR STONESTREET LANDS CO. DESIGNATED AGENT O.K. STONESTREET
ADDRESS SPENCER, W.V. ADDRESS SPENCER, W.V.

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

BRAND 674-P

701674P

WW-4A
Revised 6-07

1) Date: April 1, 2014
2) Operator's Well Number
Tuck, Richard 1-S-219

3) API Well No.: 47 - 007 - 01674

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name: Tuck Family Limited Partnership
Address: 908 Place Louie
De Soto, TX 75115

(b) Name
Address

(c) Name
Address

6) Inspector: Bryan Harris
Address: PO Box 157
Volga, WV 26238
Telephone: 304-553-6087

5) (a) Coal Operator
Name: N/A
Address

(b) Coal Owner(s) with Declaration
Name: N/A
Address

Name
Address

(c) Coal Lessee with Declaration
Name: N/A
Address

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

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
BRENDA K. BUSH
ROUTE 5 BOX 172B
BUCKHANNON, WV 26201
My commission expires September 27, 2020

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

RECEIVED
Office of Oil and Gas
MAY 12 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.

701674P

Mike Ross Inc.

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

May 7, 2014

Tuck Family Limited Patnership
908 Place Louie
De Soto, TX 75115

Re: Tuck 1-S-219 Plugging Permit

Dear Sir or Madam:

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

Mike Ross Inc.

7011 2000 0001 2588 0210

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com®

OFFICIAL USE

Postage	$ 0.90	5/9/14
Certified Fee	3.30	
Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	$ 6.90	

Sent To
Street, Apt. No.; or PO Box No.
City, State, ZIP+4
Tuck Family Limited Partnership
908 Place Louie
De Soto, TX 75115

PS Form 3800, August 2006 See Reverse for Instructions

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

WW-9
Rev. 5/08

701674P

Page _____ of _____
API Number 47 - 007 - 01674
Operator's Well No. Tuck, Richard 1-S-219

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 Wolf Pen Run of Steer Creek Quadrangle Rosedale

Elevation 1044 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:

- X Land Application
- _____ Underground Injection (UIC Permit Number _____)
- _____ Reuse (at API Number _____)
- _____ Off Site Dispposal (Supply form WW-9 for disposal location)
- _____ Other (Explain _____

Proposed Work For Which Pit Will Be Used:

- _____ Drilling
- _____ Workover
- _____ Other (Explain _____
- _____ Swabbing
- X 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, 20 14

Brenda L Bush

Notary Public

My commission expires September 27, 2020

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
BRENDA L. BUSH
ROUTE 5 BOX 1729
BUCKHANNON, WV 26201
My commission expires September 27, 2020

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

701674P

Form WW-9

Operator's Well No. Tuck, Richard 1-S-219

LEGEND

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

Diversion
Spring
Wet Spot
Drain Pipe with size in inches (12)
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

Area I Seed Type	lbs/acre	Area II 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: Bryan O'Hern 5-7-14

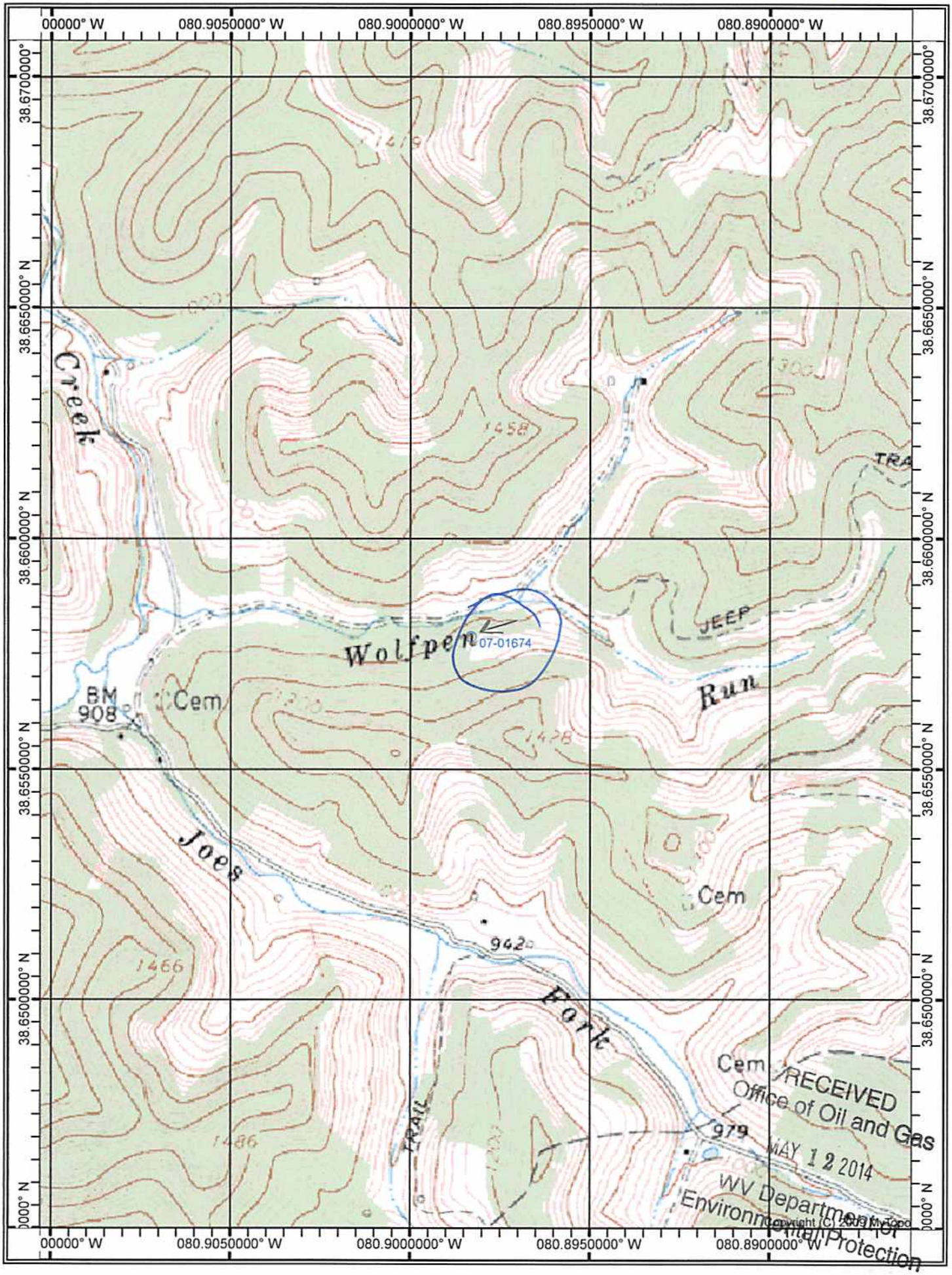
Comments: _____

Title: President Date: April 1, 2014

Field Reviewed? (_____) Yes (X) No

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

701674P



RECEIVED
Office of Oil and Gas
MAY 12 2014
WV Department of
Environmental Protection
Copyright (C) 2009 MyTopo

701674P

WW-7
8-30-06

West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-007-01674 **WELL NO.:** 1-S-219

FARM NAME: Tuck, Richard

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Braxton **DISTRICT:** Birch 1

QUADRANGLE: Rosedale 587

SURFACE OWNER: Tuck Family Limited Partnership

ROYALTY OWNER: Richard Tuck Et Al.

UTM GPS NORTHING: 4278806.9

UTM GPS EASTING: 508843.8 **GPS ELEVATION:** 1044

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.

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

Mike Ross — President — April 1, 2014

Signature — Title — Date