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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> 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 08, 2017  
WELL WORK PERMIT  
Vertical / Plugging

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

BUCKHANNON, WV 262010000

Re: Permit approval for 1-S-48  
47-007-01557-00-00

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: 1-S-48  
Farm Name: MOLLOHAN, DON C. & PAMELA  
U.S. WELL NUMBER: 47-007-01557-00-00  
Vertical / Plugging  
Date Issued: 5/8/2017

Promoting a healthy environment.

05/12/2017

## 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

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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.

1) Date February 16, 2017  
2) Operator's  
Well No. Mollohan 1-S-48  
3) API Well No. 47-007 - 01557

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 1280 Watershed West Fork  
District Birch County Braxton Quadrangle Gassaway

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:

2240 - TD

Run 6% Gel between each plug

2240 - 2000 Set Cement Plug

1550 - 1450 Set Cement Plug

1330 - 1230 Set Cement Plug

~~100~~ - 0 Set Cement Plug  
250 - 0

Set Monument with API Number

WAIT 4 HOURS & TAG PLUG. ADD CEMENT IF NEEDED.  
FREE POINT 4 1/2" CUT & PULL CASING.  
SET 100' CLASS A PLUG ACROSS CUT.

COVER & SET 250 - 0

JMM

Free Point and Pull ALL CASING

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Office of Oil and Gas

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

MAR 06 2017

Work order approved by inspector

Danny Mullins

WV Department of  
Environmental Protection  
Date 3-1-17



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Gassaway  
Permit No. 47-007-1557

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

Company Stonestreet Lands Company  
Address P.O. BOX 350  
Farm Mollohan Acres 30  
Location (waters) West Fork  
Well No. 1-S-48 Elev. 1280  
District Birch County Braxton  
The surface of tract is owned in fee by Don C. Mollohan  
Address Sutton WV  
Mineral rights are owned by Don Mollohan and Pamela Mollohan Address Sutton WV  
Drilling commenced 12-8-80  
Drilling completed 12-12-80  
Initial production 200,000 cu. ft. 0 bbls.  
Final production 550,000 cu. ft. per day 0 bbls.  
Well open 5 hrs. before test 540 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill depth Cu. ft. (Sks.)
Size 20-16			60 Sks
Cund. 13-10"			
9 5/8			
8 5/8	221	221	
7			
5 1/2			
4 1/2		2240	70 Sks Rfc
3			
2			
Lines Used			

Well treatment details:  
J-266 300 lbs. W-22 20 Gal. F-78 Surfactant  
15,000 lbs. 80/100 Sand 15,000 lbs. 20/40 Sand

Attach copy of cementing record.

Coal was encountered at None Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water 60 Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Blue Monday, Big Injun Depth 2036-2190

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Not Recorded			0	1200		0 to 1200 not recorded is continued on the back
Shale			1200	1252		
Shale & Sand			1252	1290		
Shale			1290	1310		
Shale & Sand			1310	1366		
Shale			1366	1380		
Salt Sand			1380	1422		
Shale			1422	1622		
Salt Sand			1622	1680		
Shale			1680	1690		
Salt Sand			1690	1704		
Shale			1704	1726		
Salt Sand			1726	1756		
Shale			1756	1766		
Salt Sand			1766	1814		
Shale			1814	1840		
Salt Sand			1840	1932		
Shale			1932	2000		
Salt Sand			2000	2010		
Shale			2010	2024		
Little Lime			2024	2036		

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WV Department of  
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70.1557P

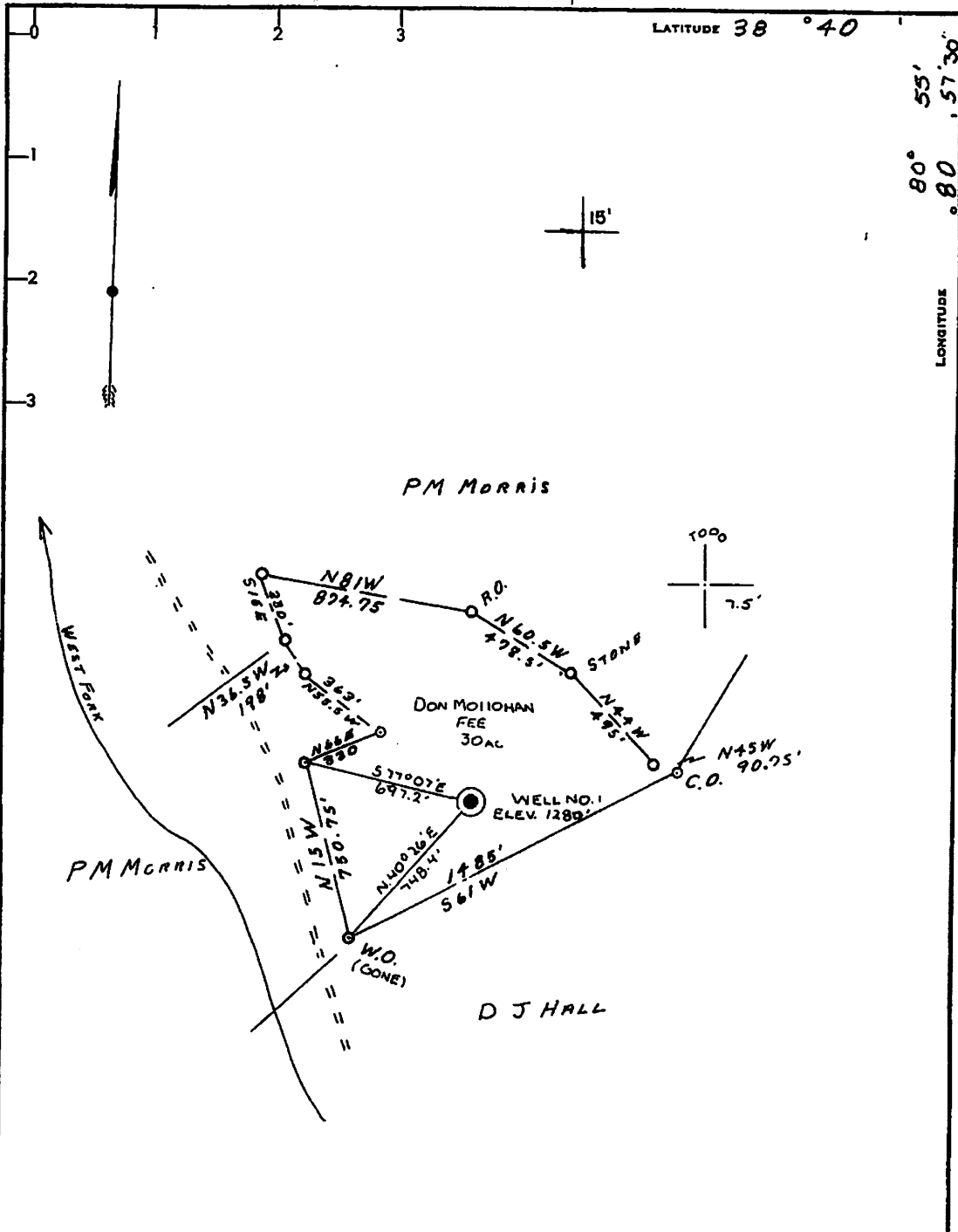
Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Blue Monday			2036	2044		
Pencil Cave			2044	2060		
Salt Sand			2060	2086		
Shale			2086	2132		
Big Lime			2132	2182		
Big Injun			2182	2190		
Shale			2190	2240	TD	
Clay			0	65		
Sand & Shale			65	105		
Red Rock			105	165		
Sand & Shale			165	210		
Red Rock			210	240		
Sand & Shale			240	290		
Red Rock			290	320		
Sand & Shale			320	360		
Red Rock			360	420		
Sand & Shale			420	515		
Red Rock			515	625		
Sand & Shale			625	703		
Shale			703	750		
Sand & Shale			750	790		
Shale			790	820		
Sand & Shale			820	875		
Shale			875	923		
Sand & Shale			923	1000		
Shale			1000	1050		
Sand & Shale			1050	1100		
Shale			1100	1150		
Sand & Shale			1150	1200		

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Date January 9, 19 81  
 APPROVED [Signature] [Signature]  
 Director

05/12/2017

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- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

**CERTIFICATE**

"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 paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Minimum degree of accuracy is one part in 200  
 Signed, [Signature] P.E. 4596

COMPANY STONE STREET LANDS CO  
 ADDRESS SPENCER W VA  
 FARM DON. C. MULLOHAN - FEE  
 MAP \_\_\_\_\_ ACRES 30 LEASE NO. \_\_\_\_\_  
 WELL (FARM) NO. ONE SERIAL NO. 48  
 ELEVATION (SPIRIT LEVEL) 1280  
 QUADRANGLE GASSAWAY 15' ROSEDALE 7 1/2'  
 COUNTY BRAXTON DISTRICT BIRCH  
 POINT OF PROVEN ELEVATION ELMIRA - 1025  
 FILE NO. DON MULLOHAN DRAWING NO. \_\_\_\_\_  
 DATE 10-15-29 SCALE 1" = 500' = 0

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
**WELL LOCATION MAP**  
 FILE NO. 007-1557

+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. SCALE 1 TO 24,000 LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.  
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

2327 BIG INCH

05/12/2017



701557P

WW-4A  
Revised 6-07

1) Date: February 16, 2017  
2) Operator's Well Number  
Mollohan 1-S-48  
3) API Well No.: 47 - 007 - 01557

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: (a) Name Don C. Mollohan &/or Pamela, Address HC 71 Box 590, Duck, WV 25063. (b) Name, Address. (c) Name, Address. 5) (a) Coal Operator Name N/A, Address. (b) Coal Owner(s) with Declaration Name N/A, Address. (c) Coal Lessee with Declaration Name N/A, Address. 6) Inspector Danny Mullins, Address 220 Jack Acres Road, Buckhannon, WV 26201, Telephone 304-932-6844.

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.

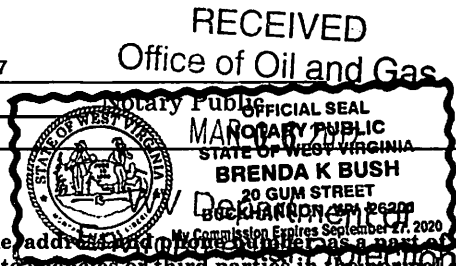
Well Operator Ross & Wharton (Mike Ross Inc.)  
By: Mike Ross  
Its: President  
Address PO Box 219, Coalton, WV 26257  
Telephone 304-472-4289

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

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 deprivacyoffier@wv.gov.



05/12/2017

701557A

# Mike Ross Inc.

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

February 16, 2017

Don &/or Pam Mollohan  
HC 71 Box 590  
Duck, WV 25063

Re: Mollohan 1-S-48 Plugging Permit

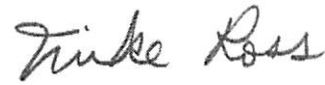
Dear Don &/or Pamela:

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 5529

**U.S. Postal Service™**  
**CERTIFIED MAIL® RECEIPT**  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

**OFFICIAL USE**

Certified Mail Fee	\$ 3.35
Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 2.75
<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	\$ 0.88
<b>Total Postage and Fees</b>	<b>\$ 6.98</b>

Sent To: Don Mollohan  
Street and Apt. No., or PO Box No.: HC 71 Box 590  
City, State, ZIP+4®: Duck, WV 25063

Postmark Here: **RECEIVED**  
Office of Oil and Gas  
3/21/17  
MAR 06 2017

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

05/12/2017



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WW-9  
Rev. 5/08

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 007 - 01557  
Operator's Well No. Mollohan 1-S-48

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 West Fork Quadrangle Gassaway

Elevation 1280 County Braxton District Birch

Description of anticipated Pit Waste: Plugging Fluid

Will a synthetic liner be used in the pit? ~~Yes~~ NO NO PIT STEEL TANK WILL BE USED

Proposed Disposal Method For Treated Pit Wastes:  
 NO 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  Swabbing  
 Workover  Plugging  
 Other (Explain \_\_\_\_\_ )

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.

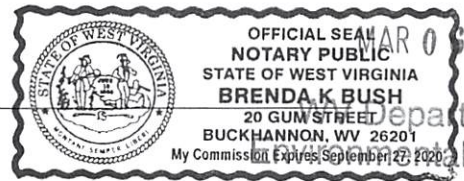
Company Official Signature *Mike Ross*  
Company Official (Typed Name) Mike Ross  
Company Official Title President

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

*Brenda K Bush*

RECEIVED  
Office of Oil and Gas  
Notary Public

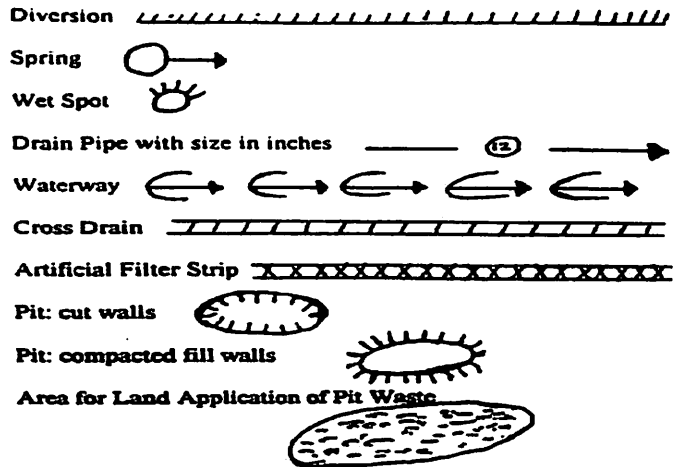
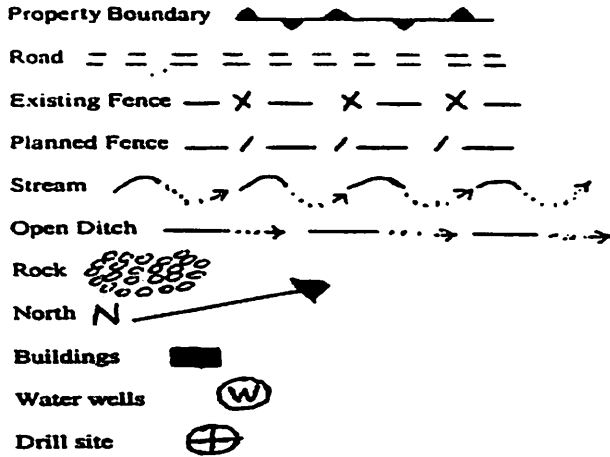
My commission expires September 27, 2020



MAR 08 2017

05/12/2017

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
	lbs/acre	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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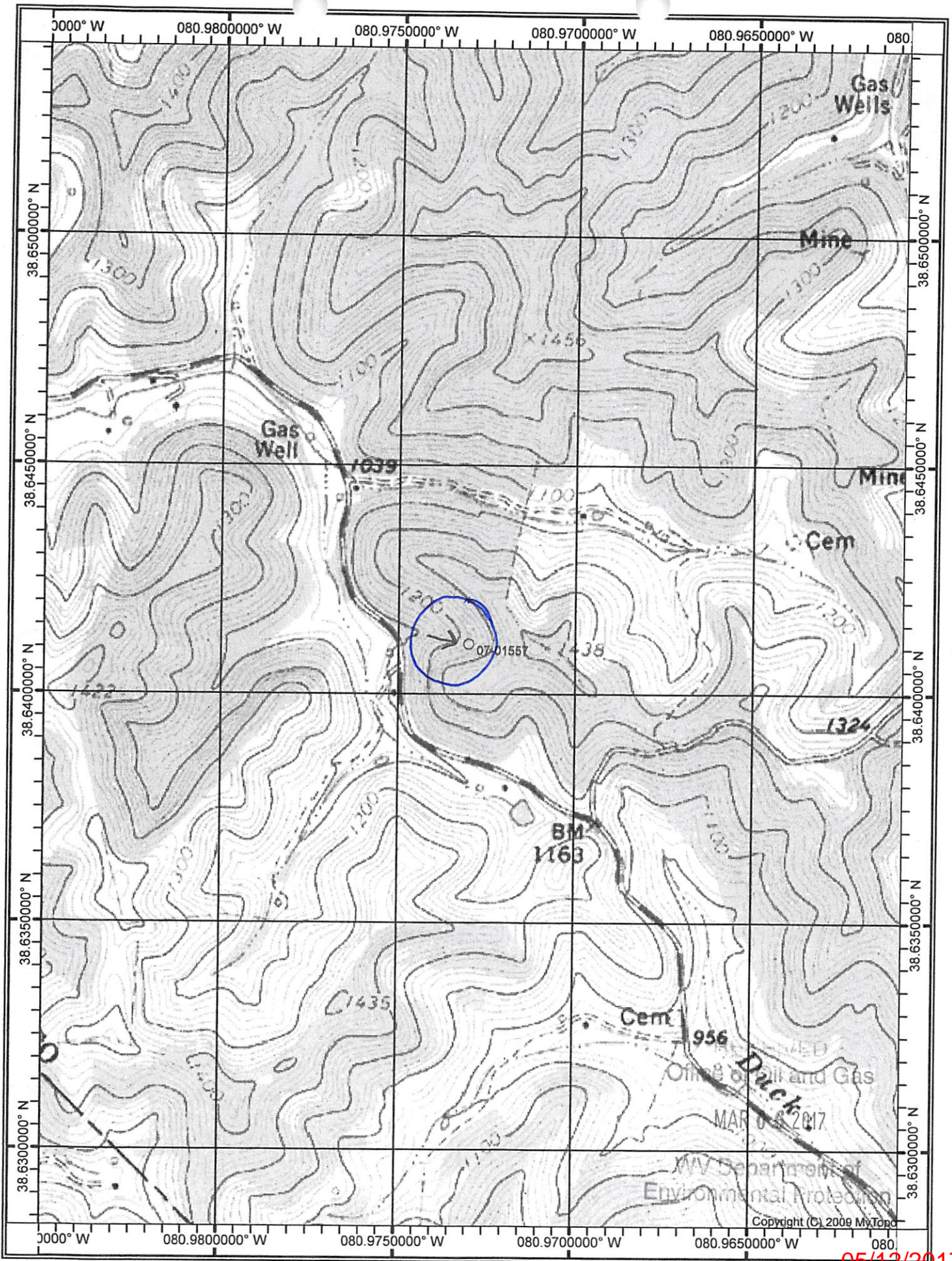
MAR 06 2017

WV Department of  
Environmental Protection

05/12/2017



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05/12/2017

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-007-01557 WELL NO.: 1-S-48

FARM NAME: Mollohan

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Braxton DISTRICT: Birch

QUADRANGLE: Gassaway

SURFACE OWNER: Don C. Mollohan &/or Pamela

ROYALTY OWNER: Don C. Mollohan &/or Pamela

UTM GPS NORTHING: 4276951.8

UTM GPS EASTING: 502344.4 GPS ELEVATION: 1280

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