



west virginia department of environmental protection

Office of Oil and Gas
601 57th 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-144
47-007-01565-00-00

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-144
Farm Name: LAKE, LEONARD S. & DEBRA L. ET AL
U.S. WELL NUMBER: 47-007-01565-00-00
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

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. Nicholas, NP 1-S-144
3) API Well No. 47-007 - 01565

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 1267 Watershed 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 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:
2428 - TD *FREE POINT, CUT & PULL 4 1/2" CASING.*
Run 6% Gel between each plug *SET 100' CLASS A CEMENT PLUG*
2428 - 2300 Set Cement Plug *ACROSS CUT.*
2200 - 2100 Set Cement Plug
1650 - 1550 Set Cement Plug
1320 - 1220 Set Cement Plug
~~100 - 0~~ Set Cement Plug *cover 8 1/4 casing seat*
271 - 0
Set Monument with API Number

Free Point and pull all casing

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

Work order approved by inspector *Danny Mullins* WV Department of 2-1-17
Environmental Protection

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IV-15
(REV 11-81)

JUL 13 1983

Date: January 5, 1983
Operator's Well No. I-S-144
Farm Nicholas
API NO. 47-007-1565

OIL & GAS DIVISION State of West Virginia
DEPT. OF MINES Department of Mines
Oil and Gas Division

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal
(If "Gas," Production / Underground Storage / Deep / Shallow)

LOCATION: Elevation: 1267 Watershed 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 N.P. Nicholas
ADDRESS Gassaway, W.Va.
MINERAL RIGHTS OWNER N.P. Nicholas
ADDRESS Gassaway, W.Va.
OIL AND GAS INSPECTOR FOR THIS WORK Robert Bates
ADDRESS 109 Minnich St. Weston, WV
PERMIT ISSUED September 10, 1980
DRILLING COMMENCED 9-25-81
DRILLING COMPLETED 5-29-81
IF APPLICABLE: PLUCKING OF DRY HOLES OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
5 1/2"			
4 1/2"			
4 1/8"			
3 1/8"	221	221	60 sks
3"			
2 1/2"		2428	70 sks rfc
2"			
1 1/2"			
1"			
7/8"			
3/4"			
5/8"			
1/2"			
3/8"			
1/4"			
1/8"			
Blank			

GEOLOGICAL TARGET FORMATION Big Injun Depth 2392 feet
Depth of completed well 2458 feet Rotary / Cable tools _____
Water strata depth: Fresh 80 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 2374 feet
Gas: Initial open flow 50 Mcf/d Oil: Initial open flow 0 bbl/d
Final open flow 300 Mcf/d Final open flow 9 bbl/d
Time of open flow between initial and final tests 9 hours
Static rock pressure: 510 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion) Production test completed _____
Second producing formation Blue Monday Pay zone depth 2112 feet
Gas: Initial open flow 50 Mcf/d Oil: Initial open flow 0 bbl/d
Final open flow 300 Mcf/d Oil: Final open flow 0 bbl/d
Time of open flow between initial and final tests 9 hours
Static rock pressure: 510 psig (surface measurement) after 24 hours shut in

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Brax-1535

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FORM W-43
(REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE.

Perforation Intervals 2162-2374

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	34	
Sand & Shale			34	85	
Shale			85	125	
Sand & Shale			125	310	
Red Rock			310	445	
Sand & Shale			445	495	
Red Rock			495	670	
Sand & Shale			670	720	
Red Rock			720	835	
Sand			835	1000	
Shale & Sand			1000	1034	
Shale			1034	1040	
Shale & Sand			1040	1090	
Shale			1090	1224	
Shale & Sand			1224	1246	
Shale			1246	1280	
Shale & Sand			1280	1348	
Shale			1348	1360	
Shale & Sand			1360	1386	
Shale			1386	1468	
Shale & Sand			1468	1506	
Shale			1506	1524	
Shale & Sand			1524	1562	
Shale			1562	1620	
Shale & Sand			1620	1650	
Shale			1650	1754	
Shale & Sand			1754	1766	
Shale			1766	1804	
Shale & Sand			1804	1830	
Shale			1830	1872	
Salt sand			1872	1920	
Shale			1920	1946	
Salt sand			1946	2058	
Shale			2058	2128	
Shale & Slate			2128	2136	
Little Lime			2136	2160	
Blue Monday			2160	2172	

Continued on attached sheet

(Attach separate sheets as necessary)

Stonestreet Lands Company

Well Operator _____
 By: *[Signature]* General Manager
 Date: July 11, 1981

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 Office of Oil and Gas

MAR 06 2017

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
 coal, encountered in the drilling of a well."

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 Environmental Protection

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FORM IV-35
(REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Shale			2172	2196	TD
Pencil cave			2196	2200	
Big Lime			2200	2288	
Big Injun			2288	2392	
Shale			2392	2458	

(Attach separate sheets as necessary)

Stonestreet Lands Company
Well Operator

By: *[Signature]* General Manager
Date: July 11, 1981

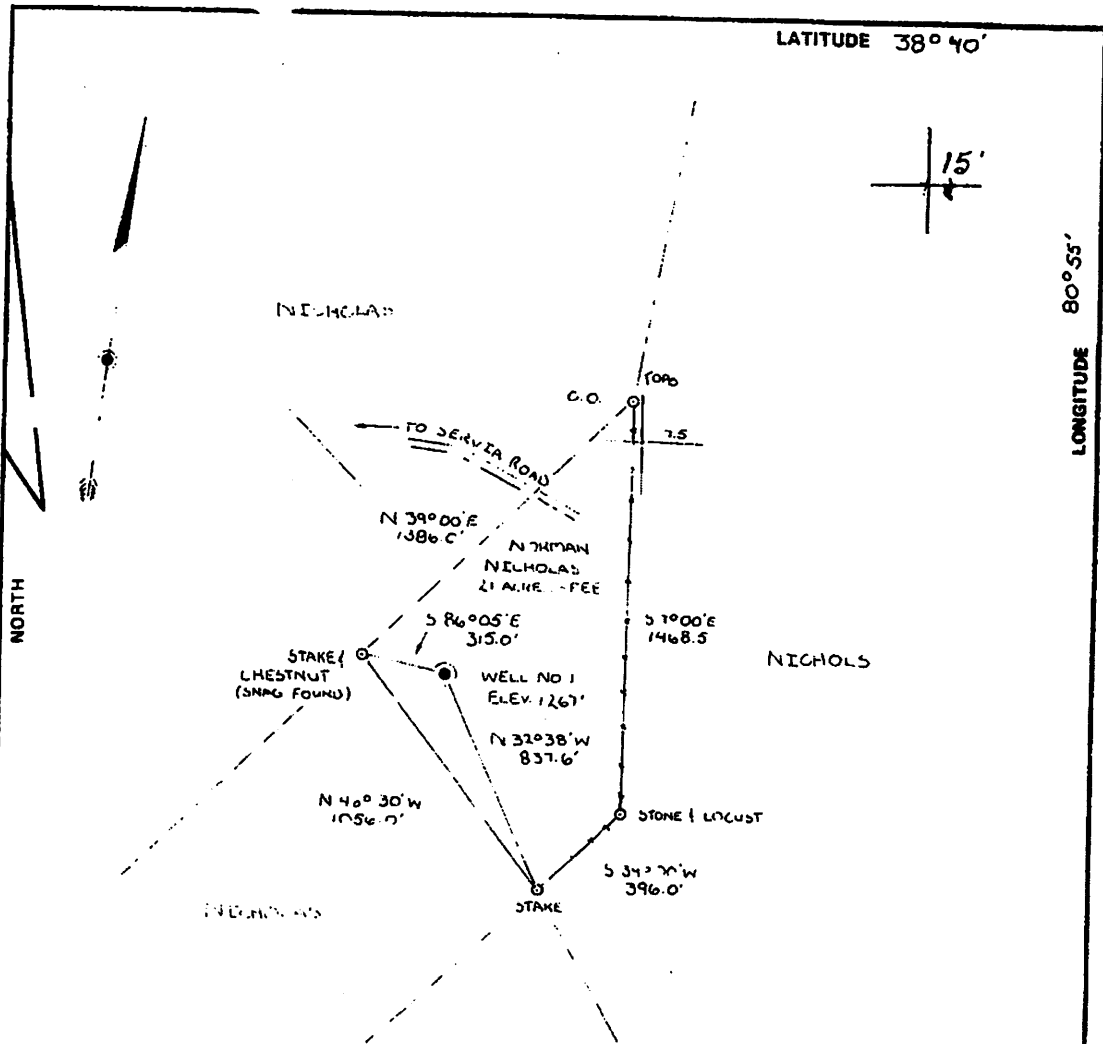
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STAT. 1585

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 coal, encountered in the drilling of a well."

WV Department of Environmental Protection

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FILE NO. NICHOLAS 21
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/1200
 PROVEN SOURCE OF ELEVATION 1 1/2" STAINLESS
ARTIFICIAL 901'

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) Z. B. Shuck
 R.P.E. 1599 L.L.S. _____

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE 8/18, 19 80
 OPERATOR'S WELL NO. 1-5-144
 API WELL NO. 47-007-1565
 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 1267' WATER SHED TRUCKER CUT RUN
 DISTRICT BIRCH COUNTY GREENUP
 QUADRANGLE ROSEDALE 7.5' GASSAWAY 15'
 SURFACE OWNER NORMAN NICHOLAS ACREAGE 21
 OIL & GAS ROYALTY OWNER NORMAN NICHOLAS LEASE ACREAGE 21
 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 2314
 WELL OPERATOR STONESTREET LANDS DESIGNATED AGENT O.V. STONESTREET
 ADDRESS SPENCER WVA ADDRESS SPENCER, W.VA.

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WW-4A
Revised 6-07

1) Date: February 16, 2017
2) Operator's Well Number
Nicholas, NP 1-S-144
3) API Well No.: 47 - 007 - 01565

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 Leonard Shawn &/or Debra Lynn Lake Et. Al. Address HC 69 Box 44 Frametown, WV 26623 (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

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.

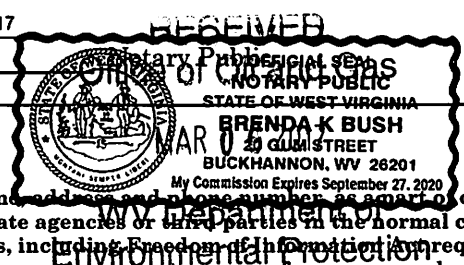
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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
Brenda K Bush



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.

05/12/2017

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Mike Ross Inc.

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

February 16, 2017

Leonard &/or Debra Lake
HC 69 Box 44
Frametown, WV 26623

Re: Nicholas 1-S-144 Plugging Permit

Dear Leonard &/or Debra:

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 5550

U.S. Postal Service™	
CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee \$ 3.35	Postmark Here Sent 3/21/17 RECEIVED Office of Oil and Gas MAR 06 2017 05112/2017
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	
Total Postage and Fees \$ 6.98	
Leonard &/or Debra Lake HC 69 Box 44 Frametown, WV 26623	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

Department of Environmental Protection

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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 Steer Creek Quadrangle Rosedale

Elevation 1267 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 TANKS WILL BE USED TO CONTAIN WELL EFFLUENT.*

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

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Office of Oil and Gas

Subscribed and sworn before me this 16th day of February, 2017 MAR 06 2017

Brenda K Bush Notary Public WV Department of Environmental Protection

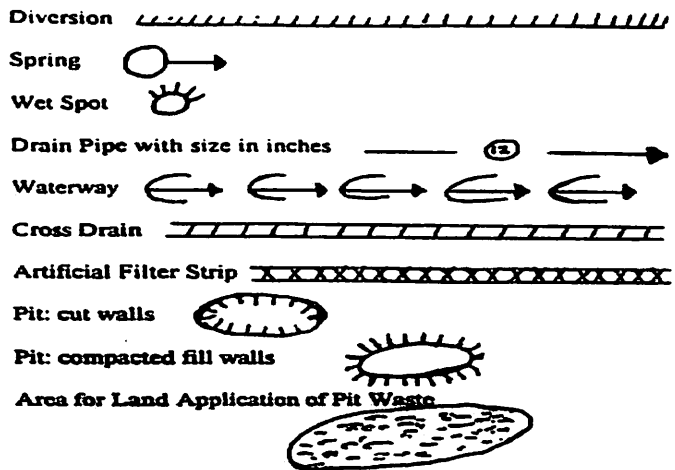
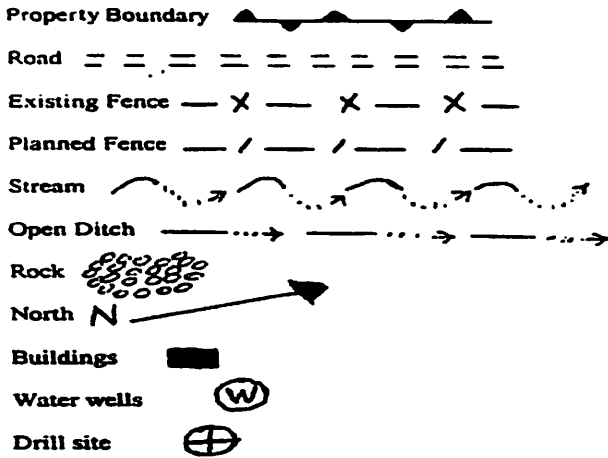
My commission expires September 27, 2020



05/12/2017

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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: _____

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Office of Oil and Gas

Title: President

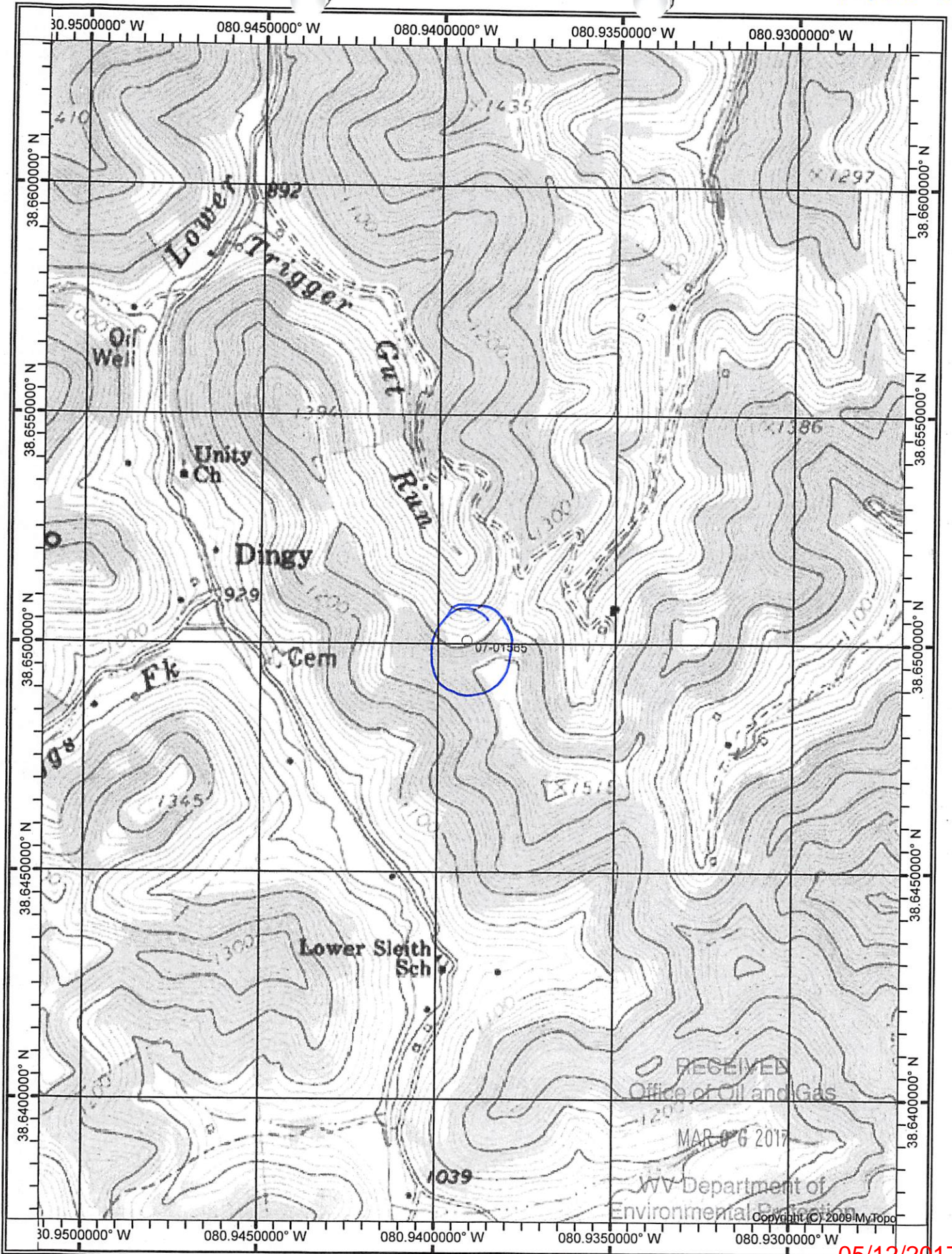
Date: February 16, 2017 MAR 06 2017

Field Reviewed? () Yes () No

WV Department of Environmental Protection

05/12/2017

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05/12/2017



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-007-01565 WELL NO.: 1-S-144

FARM NAME: Nicholas, NP

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Braxton DISTRICT: Birch

QUADRANGLE: Rosedale

SURFACE OWNER: Leonard S. Lake &/or Debra L. Et. Al.

ROYALTY OWNER: N.P. Nicholas

UTM GPS NORTHING: 4277948.4

UTM GPS EASTING: 505289.5 GPS ELEVATION: 1267

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