



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

Friday, April 07, 2017
WELL WORK PERMIT
Vertical / Plugging

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

BUCKHANNON, WV 262010000

Re: Permit approval for HALLANAN 1
47-007-01205-00-00

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: HALLANAN 1
Farm Name: HITE, BILLY FRANK JR.
U.S. WELL NUMBER: 47-007-01205-00-00
Vertical / Plugging
Date Issued: 4/7/2017

Promoting a healthy environment.

04/07/2017

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. Hallanan #1
- 3) API Well No. 47-007 - 01205

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 / Liquid injection / Waste disposal /
(If "Gas, Production or Underground storage) Deep / Shallow

5) Location: Elevation 980 Watershed Copen Creek - LK River
District Salt Lick County Braxton Quadrangle Burnsville

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 9) Plugging Contractor Name Unknown
Address 220 Jack Acres Road Address _____
Buckhannon, WV 26201

- 10) Work Order: The work order for the manner of plugging this well is as follows:
- | | |
|---|---|
| <p>2365 - TD
Run 6% Gel between each plug
2285 - 2050 Set Cement Plug
1650 - 1550 Set Cement Plug
1030 - 930 Set Cement Plug
100 - 0 Set Cement Plug
Set Monument with API Number</p> | <p><i>TD set 100 feet cement plug on bottom</i>
<i>8 5/8" WAS CTS</i>
<i>4 1/2" → TOC ≈ 1600'</i>
<i>MUST PLACE A 100' CLASS A CEMENT PLUG ACROSS 4 1/2" CASING CJT.</i>
<i>cover 8 5/8" casing seat w/ 100' class A cement plug.</i></p> |
|---|---|

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MAR 06 2017

• Frequent AN pull All casing

WV Department of
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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  Date 3-1-17

701205P

OG-10
Rev. - 9-71



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OCT 19 1990
DEPT. OF ENERGY

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

#1 Hallanan ✓

Quadrangle Burnsville
Permit No. Brax-1205
47-007-1205

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

Company <u>Braxton Oil & Gas Corp.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>2821 N.W. 50th St. Okla. City, Okla.</u>	Size			
Farm <u>Effie Hallanan</u> Acres <u>24.75</u>	20-16			
Location (waters) <u>Copen Creek-I. K. River</u>	Cond.			
Well No. <u>one</u> Elev. <u>980'</u>	13-10"			
District <u>Salt Lick</u> County <u>Braxton</u>	9 5/8	302'	302'	135 sks. Howco
The surface of tract is owned in fee by <u>W. P. Knight, Hairs</u>	8 5/8			
Address <u>Burnsville, W. Va.</u>	7			
Mineral rights are owned by <u>Effie Hallanan</u>	5 1/2		2360'	130 sks. Howco
Et als Address <u>Huntington, W. Va.</u>	4 1/2			
Drilling Commenced <u>7/8/77</u>	3			
Drilling Completed <u>7/12/77</u>	2 1" siphon		2200'	
Initial open flow <u>show</u> cu. ft. <u>0</u> bbls.	Liners Used			
Final production <u>500</u> cu. ft. per day <u>0</u> bbls.				
Well open <u>3</u> hrs. before test <u>520</u> RP.				
Well treatment details: <u>72 hrs.</u>				
<u>7/28/77</u> Howco				
<u>Acid - 2500 gal. Water - 970 bbls. Sand - 50,000 20/40</u>				

Attach copy of cementing record.

Coal was encountered at 255 Feet 48 Inches
Fresh water none Feet 1745 Salt Water 1745 Feet
Producing Sand Big Injun & Squaw Depth 2080-2196 2196-2282

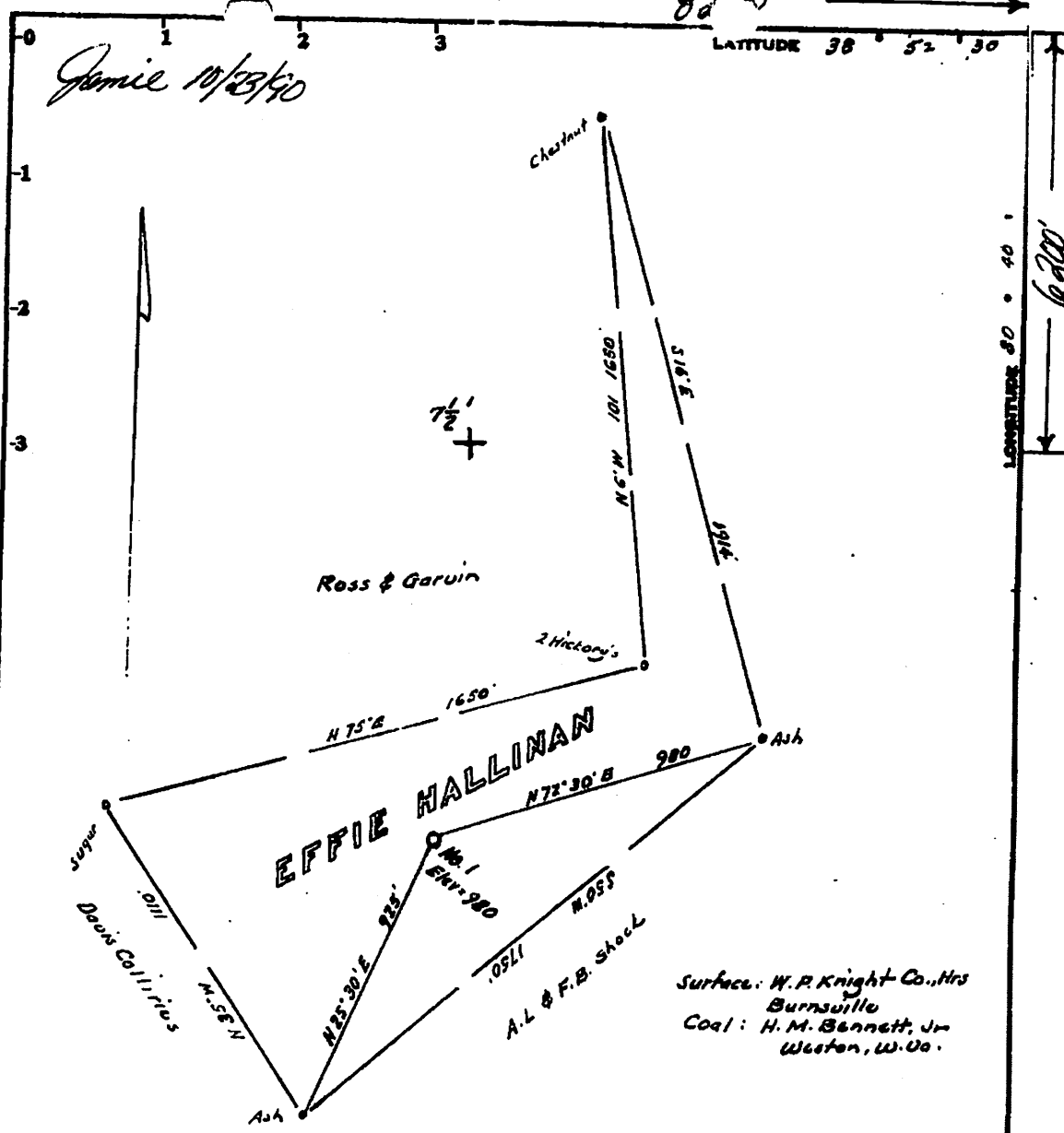
Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Rock & shale			0	160		
Sand			160	240		
Slate			240	255		
Coal			255	259		
Slate & shale			259	620		
Red Rock & shale			620	840		
Sandy shale			840	1230		
Slate & shale			1230	1600		
Sand			1600	1675		
Shale			1675	1690		
Sand			1690	1720		
Sandy shale			1720	1760		
Sand			1760	1855		
Sandy shale			1855	1990		
Sand			1990	2004		
Pencil Cave			2004	2080		
Big Lime			2080	2196		
Big Injun			2196	2282		
Squaw			2282	2365		
Siltstone						

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WV Department of
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show gas 2190-96
T. D.

(over)

* Indicates Electric Log tops in the remarks section.

04/07/2017



Minimum Error of Closure Lin 200

Source of Elevation B.M. at mouth of Carter Hollow = 806

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.

Fracture

New Location

Drill Deeper

Abandonment - 10/24/90

Signed: [Signature]

Squares: N S E W

Company Braxton Oil & Gas Corp

Address 1400 Baltimore Street, Suite 103, Charleston, WV

Farm Effie Hallinan W.P. Knight

Tract _____ Acres 24.75 Lease No. _____

Well (Farm) No. One Serial No. _____

Elevation (Spirit Level) 980

Quadrangle Burnsville 7 1/2'

County Braxton District Salt Lick

Engineer [Signature]

Engineer's Registration No. 1227 443 200

File No. _____ Drawing No. _____

Date June 21, 1977 Scale 1" = 400'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
CHARLESTON

73118

MAR 06 2017

WELL LOCATION MAP

FILE NO. BRA X 1205

Plugging Cancelled

+ Denotes location of well on United States Topographic Maps, scale 1 to 25,000, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-007

WW-4A
Revised 6-07

1) Date: February 16, 2017
2) Operator's Well Number
Hallanan #1
3) API Well No.: 47 - 007 - 01205

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>Billy Frank Hite Jr.</u>	Name <u>N/A</u>
Address <u>PO Box 798</u>	Address _____
<u>Jane Lew, WV 26378</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Danny Mullins</u>	(c) Coal Lessee with Declaration
Address <u>220 Jack Acres Road</u>	Name <u>N/A</u>
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>304-932-6844</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.

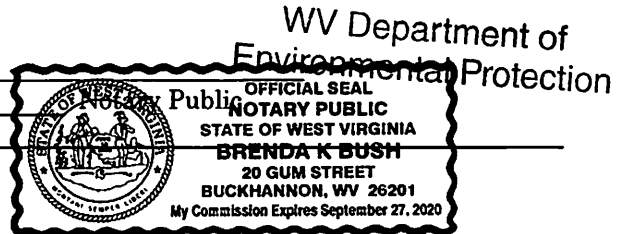
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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

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Office of Oil and Gas
MAR 06 2017

Subscribed and sworn before me this 16th day of February, 2017
Brenda K Bush
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 depprivacyoffier@wv.gov.

701205P

Mike Ross Inc.

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

February 16, 2017

Billy Frank Hite Jr.
PO Box 798
US Hwy 5267 19N.
Jane Lew, WV 26378

Re: Hallanan #1 Plugging Permit

Dear Billy:

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.

7016 2140 0001 1545 5611

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 Billy Frank Hite Jr. and Gas PO Box 798 US Hwy 5267 19N. Jane Lew, WV 26378 MAR 06 2017
Extra Services & Fees (check box, add fee as appropriate) <input checked="" type="checkbox"/> Return Receipt (hardcopy) \$ 2.15 <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	
Sent To Street and Apt. No., or City, State, ZIP+4®	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

Environmental Protection
04/07/2017

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 Copen Creek - LK River Quadrangle Burnsville

Elevation 980 County Braxton District Salt Lick

Description of anticipated Pit Waste: Plugging Fluid

Will a synthetic liner be used in the pit? Yes

ANY WELL EFFLUENT MUST
BE DISPOSED OF PROPERLY
OFF-SITE. JMM

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

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WV Department of
Environmental Protection

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

Brenda K Bush

Notary Public

My commission expires September 27, 2020



04/07/2017

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.

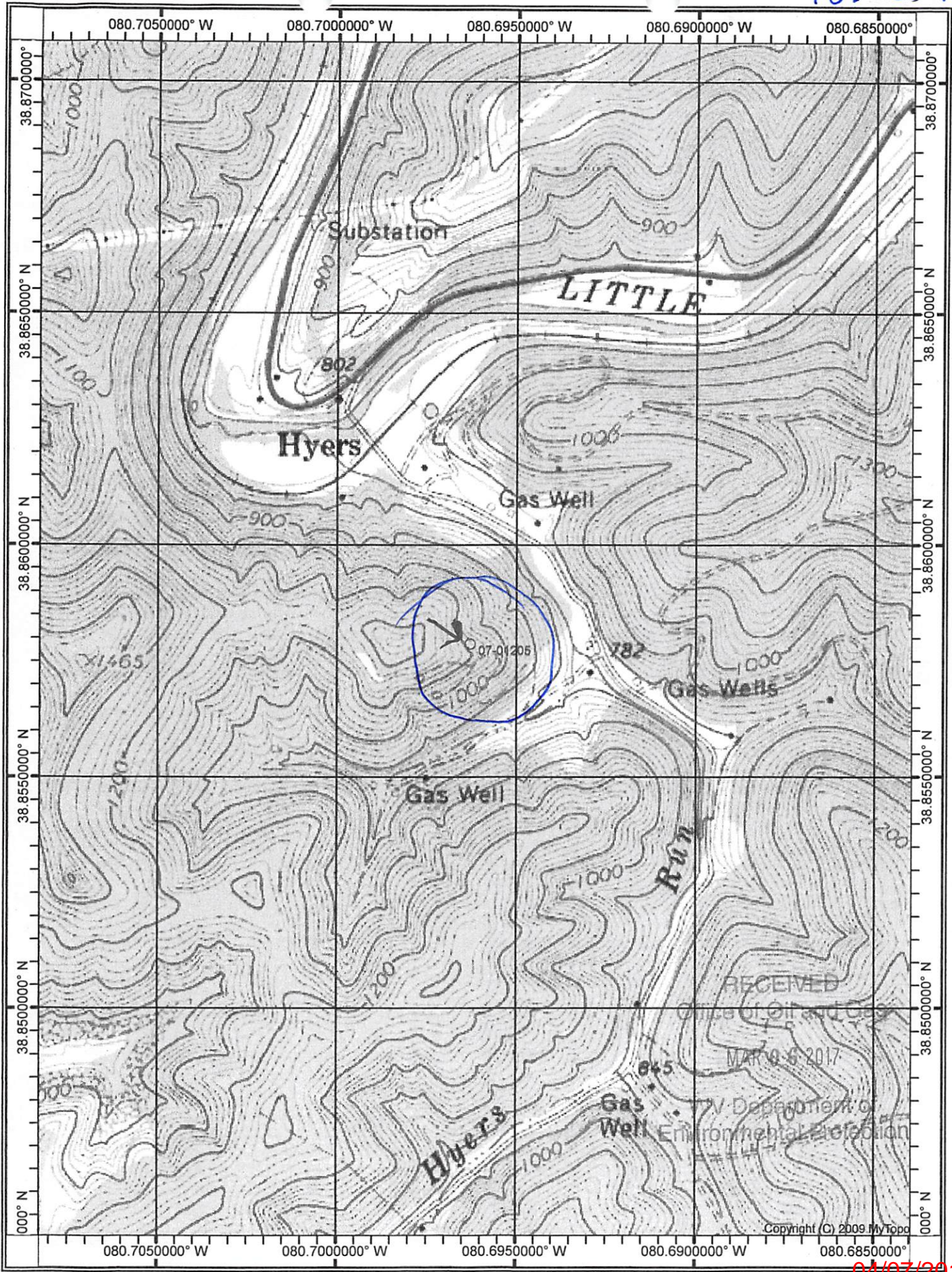
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Plan Approved by: _____
 Comments: _____

WV Department of
 Environmental Protection

Title: President Date: February 16, 2017
 Field Reviewed? () Yes () No

70/205 P



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

API: 47-007-01205 WELL NO.: 1

FARM NAME: Hallahan

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Braxton DISTRICT: Salt Lick

QUADRANGLE: Burnsville

SURFACE OWNER: Billy Frank Hite Jr.

ROYALTY OWNER: Effie Hallanan

UTM GPS NORTHING: 4301046.6

UTM GPS EASTING: 526351.1 GPS ELEVATION: 980

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