



 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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Wednesday, March 27, 2019
 WELL WORK PLUGGING PERMIT
 Vertical Plugging

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

BUCKHANNON, WV 262010000

Re: Permit approval for 1
 47-017-01073-00-00

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.

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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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
 Farm Name: DROPPLEMAN, HENRY & E_{LL}
 U.S. WELL NUMBER: 47-017-01073-00-00
 Vertical Plugging
 Date Issued: 3/27/2019

I

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 January 15, 2019 **03/29/2019**
2) Operator's
Well No. H. Droppleman #1
3) API Well No. 47-017-01073

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 ___ or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 923' Watershed Sand fork of Fink
District Cove County Doddridge Quadrangle Vadis

6) Well Operator Ross & Wharton Gas Co. Inc. 7) Designated Agent Mike Ross
Address 354 Morton Ave. Address P.O. Box 219
Buckhannon, WV 26201 Coalton, WV 26257

8) Oil and Gas Inspector to be notified Name Daniel Flack 9) Plugging Contractor Name N/A
Address 58 River Ave. Address _____
Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:

Free point and recover casing's & tubular's

6% Gel between plug's

Set cement plug 1900' to TD (2198') Plug 100' above top perf

Set 100' cement plug across casing cut

Set 100' cement plug 1400' to 1500'

Set 100' cement plug 850' to 950' (salt bearing strata & elevation plug)

Set cement plug 200' to surface, (10" casing plug, freshwater protection plug and
and surface plug) Tag plug's as necessary Set monument with API number

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Office of Oil and Gas

FEB 15 2019

WV Department of
Environmental Protection

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

Work order approved by inspector



Date

2/5/19



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 6

Rotary
Spudder
Cable Tools
Storage

Quadrangle Vadis

WELL RECORD

Permit No. DOD-1073

Oil or Gas Well Gas
(KIND)

Company ETHELRED P. HORN, Flint Michigan
Address 1161 North Ballenger Ave.
Farm Henry & Ella Droppleman Acres 210
Location (waters) Cove District
Well No. One Elev 923'
District Cove County Doddridge
The surface of tract is owned in fee by Dropplemans 10x3/4 152' 152'
Henry & Ella. Address New Milton 8x5/8 819' None
Mineral rights are owned by Droppleman heirs 6% 1981' None.
Address New Milton 5x3/4 2198' 2198'

Drilling commenced December 15th, 1963
Drilling completed Jan. 25th, 1964
Date Shot 2/5/64 From 2120' To 2122'
With Perforating Gun 17 bullets

Open Flow /10ths Water in _____ Inch
None /10ths Merc. in _____ Inch
Volume none natural Cu. Ft.
Rock Pressure none nat. lbs. _____ hrs.
Oil none bbls., 1st 24 hrs.
WELL ACIDIZED No

WELL FRACTURED Haliburton

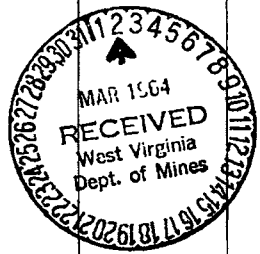
CASING CEMENTED yes SIZE 4 1/2 No. Ft. 2198' Date January 25th, 1964 Lawson Cement Co.
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
None FEET _____ INCHES FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT Approximately one hundred thousand gas
ROCK PRESSURE AFTER TREATMENT 450 pounds.
Fresh Water surface Feet _____ Salt Water at 2400' Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay	red	soft	0	20	fresh water		
Sand	blue	"	20	35			
rock	gray	"	35	82			
rock	red	hard	82	86			
sandy lime	blue	hard	86	100			
sand	blue	"	100	162			
shale	blk	soft	162	175			
shale	dark	hard	175	177			
shale&rock	red	soft	177	180			
Gr. lime&Rock	red	"	180	203			
sand	blue	hard	203	237			
shale&shells		"	237	257			
sand	blue	"	257	266			
shale			266	272			
RR&Lime shells	red		272	277			
RR & shale	red		277	350			
sand			350	387			
sandy slate&shells			387	442			
shells&slate	blue		442	448			
shale&shells			448	555			
sand	broken		555	625			
shale	sandy		625	660			
sand			660	665			
RR & shale			665	685			
sand	green		685	735			
R.rock&shale			735	819			
slate	black		819	836			
sand slate			836	852			
slate&shells			852	907			

(OVER)

(over)



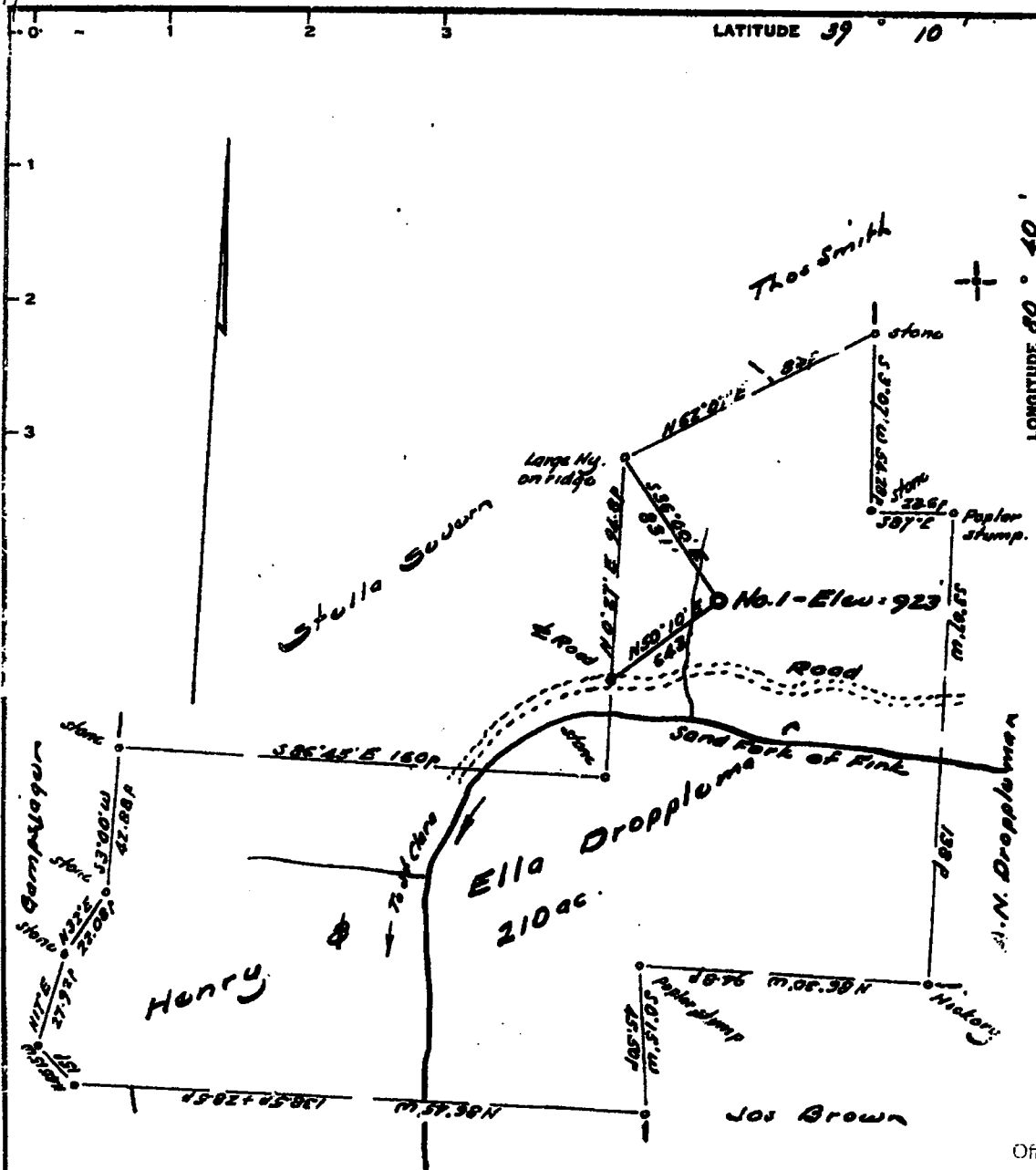
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WV Department of
Environmental Protection

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
sand	green	hard	907	942			
sand	gray	"	942	954			
R.R. & shells		"	954	970			
sand	blue	"	970	985			
slate&shells			985	1025			
sand	gray		1025	1078			
sandy-slate			1078	1083			
slate			1083	1106			
slate&shells			1106	1147			
sand			1147	1167			
sand-slate-shells			1167	1404			
sand			1404	1441			
slate			1441	1446			
sand			1446	1472			
slate&shells			1472	1740			
slate&sand			1740	1757			
sand			1757	1854			
R. Rock			1854	1892			
R.R.Shale			1892	1941			
R.R. Shale			1941	1948			
lime			1948	1962			Little lime
slate&shells			1962	1988			
lime			1988	2073			Big Lime
sand & lime			2073	2143			Big Injun
sand	blue		2143	2155			
sandy slate			2155	2171			
sand & slate			2171	2198			
sand	gray		2198	2223			
sandy slate			2223	2234			
sand	gray		2234	2282			
sand & slate			2282	2367			
slate			2367	2396			
sand			2396	2426			Gantz
slate & shells			2426	2583			
sand & slate			2583	2615			
slate & shells			2615	2895			

No natural shows of either gas or oil in commercial quantities, completed as a small gas well after frac. probably about a hundred thousand feet, no gas pipeline outlet at present, so well shut in.

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WV Department of Environmental Protection

Date February 27th, 19 64
APPROVED *Estelred P. Now* Owner
By _____ (Title)



New Location.....
 Drill Hooper.....
 Abandonment.....

Error in Closure: - less than 1' in 300'

Company Ethelred P. Horn
 Address Elint, Michigan
 Farm Henry & Ella Droppelman
 Tract _____ Acres 210 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 923
 Quadrangle Kadis WC
 County Waddelge District Cove
 Engineer W. D. ...
 Engineer's Registration No. 1727
 File No. _____ Drawing No. _____
 Date Dec 4, 1963 Scale 1" = 400' = 660'

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

WELL LOCATION MAP
 FILE NO. Doc - 1073 (Rev.)

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

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 W. Department of Environmental Protection

WW-4A
Revised 6-07

1) Date: January 15, 2019
2) Operator's Well Number
H. Droppleman #1
3) API Well No.: 47 - 017 - 01073

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>Jack D. Adams</u>	Name <u>N/A</u>
Address <u>172 Jack Adams Hollow</u>	Address _____
<u>New Milton, WV 26411</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Daniel Flack</u>	(c) Coal Lessee with Declaration
Address <u>58 River Ave.</u>	Name <u>N/A</u>
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>1-304-545-0109</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.

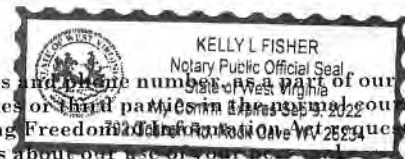
Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental 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 Gas Co. Inc.</u>	RECEIVED
By:	<u>Mike Ross</u>	Office of Oil and Gas
Its:	<u>President</u>	FEB 15 2019
Address	<u>354 Morton Ave.</u>	WV Department of
	<u>Buckhannon, WV 26201</u>	Environmental Protection
Telephone	<u>1-304-472-4289</u>	

Subscribed and sworn before me this 29th day of January, 2019
Kelly L. Fisher Notary Public
My Commission Expires September 9, 2022

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 usual 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.



SURFACE OWNER WAIVER

Operator's Well
Number

47-017-01073 H. Droppleman #1

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following

- the plan is not adequate or effective;
- the plan would damage lands or resources;
- the plan would affect fresh water sources or supplies;
- the plan is a substantial violation of a previous permit or a substantial violation of one under Chapter 22, and has failed to abate or seek review of the

it is issued or a copy of the order denying the permit, you

STATEMENT OF NO OBJECTION

to the surface owners and that I have received copies of a Notice on on Forms WW-4A and WW-4B, and a survey plat.

to the planned work described in these materials, and I have no

FOR EXECUTION BY A CORPORATION,

6699 6639
2527
0001 9527 6639
7018 0680 0001 9527 6639

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
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For delivery information, visit our website at www.usps.com

NEW MILTON, WV 26411

Certified Mail Fee	\$3.50	0099
Extra Services & Fees (check box, add fee as appropriate)	\$2.80	12
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	Postmark Here
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$0.55	01/29/2019
Total Postage and Fees	\$6.85	

Sent To: JACK D. ADAMS Dad -1073

Street and Apt. No., or PO Box No. 172 JACK ADAMS HOLLOW

City, State, ZIP+4® New Milton, WV 26411

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

Office of Oil and Gas
FEB 15 2019

WV Department of
Environmental Protection

Signature _____ Date _____ Name _____

By _____

Its _____ Date _____

Signature _____ Date _____

WW-9
(5/16)

API Number 47 - 017 - 01073
Operator's Well No. _____

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Ross & Wharton Gas Co. Inc. OP Code 306580

Watershed (HUC 10) Sand Fork of Fink Quadrangle Vadis

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: Tanks

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. freshwater

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? gel

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, 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.

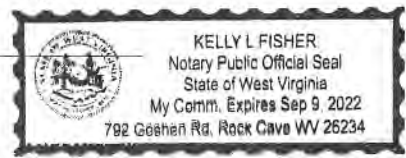
Company Official Signature Mike Ross
Company Official (Typed Name) Mike Ross
Company Official Title President

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Office of Oil and Gas
FEB 15 2019
WV Department of
Environmental Protection

Subscribed and sworn before me this 29TH day of January, 2019

Kelly L. Fisher Notary Public

My commission expires September 9, 2022



Operator's Well No. _____

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Fescue	30	Fescue	30
Contractors Mix		Contractors Mix	
_____		_____	
_____		_____	

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Julia*

Comments: _____

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WV Department of
Environmental Protection

Title: Oil & Gas Inspector Date: 2/5/19

Field Reviewed? () Yes () No

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
GROUNDWATER PROTECTION PLAN

Operator Name: Ross & Wharton Gas Co. Inc.
Watershed (HUC 10): Sand Fork of Fink Quad: Vadis
Farm Name: _____

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

N/A

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

N/A

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Sand Fork of Fink

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FEB 15 2019

4. Summarize all activities at your facility that are already regulated for groundwater protection.

WV Department of
Environmental Protection

N/A

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No material will be used

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

N/A

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

N/A

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FEB 15 2019
WV Department of
Environmental Protection

Signature: Mike Ross

Date: 1-28-19



WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-017-01073 WELL NO.: 1

FARM NAME: H. Droppleman

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Doddridge DISTRICT: Cove

QUADRANGLE: New Milton

SURFACE OWNER: Jack D. Adams

ROYALTY OWNER: Droppleman Heirs

UTM GPS NORTHING: 4331929.6

UTM GPS EASTING: 527975.4 GPS ELEVATION: 923'

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FEB 25 2019
WV Department of
Environmental Protection

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

2-22-19
Date

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-017-01073 WELL NO.: 1

FARM NAME: H. Droppleman

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Doddridge DISTRICT: Cove

QUADRANGLE: Vadis

SURFACE OWNER: Jack D. Adams

ROYALTY OWNER: Droppleman Heirs

UTM GPS NORTHING: 4331929.6

UTM GPS EASTING: 526975.4 GPS ELEVATION: 923'

VOID

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

1-29-19
Date

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Office of Oil and Gas

FEB 15 2019

WV Department of
Environmental Protection