



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

Earl Ray Tomblin , Governor
Randy C. Huffman , Cabinet Secretary
www.dep.wv.gov

Wednesday, December 07, 2016
WELL WORK PERMIT
Vertical / Plugging

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

BUCKHANNON, WV 262010000

Re: Permit approval for
47-021-02090-00-00

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:
Farm Name: REBECCA 1
U.S. WELL NUMBER: 47-021-02090-00-00
Vertical / Plugging
Date Issued: 12/6/2016

Promoting a healthy environment.

12/09/2016

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 9/12/16

2102090P

2) Operator's
Well No. Rebecca #1
API Well No. 47-021 02090

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 993 Watershed Lower Big Run
District Troy County Gilmer Quadrangle Holbrook

6) Well Operator Ross and Wharton Gas 7) Designated Agent Mike Ross Po Box 219
Company, INC. Address Coalton WV 26257
Address Rt. 5, Box 29,
Buckhannon WV 26201

Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Danny Mullins Name R & R WELL SERVICE
Address ~~124 Bid Trace Fork Rd~~ 220 Jack Acres Rd Address 42 LYNCH RIDGE
Harts WV 25524 Buckhannon WV 26201 WALTON, WV 25286
PHONE 304 932 6844

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

Remove all equipment used to produce well

Gel hole TD

Remove 2051' of 1" tubing

Cement +/-2051 to 1436 over perfs

Freepoint, cut and pull 4 1/2 csg

100 ft cement across cut

100' of cement across elevation 943 to 843 1050 to 850

Cement 250' to surface

8 5/8" APPEARS TO
BE CEMENTED TO
SURFACE, IF NOT
FREE POINT, CUT &
PULL 8 5/8" ,
J.M.M.

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Set proper monument with API

Reclaim

WV Department of
Environmental Protection

Signature Mike Ross Date 10/14/16

notification must be given to the district oil and gas inspector 24 hours before permitted work is to begin.

Work order approved by
inspector Danny Mullins

Date 10-14-16

12/09/2016

2102090P

Form OG-10



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

Rotary
Spudder
Cable Tools
Storage E. NO. 1 & HOLE
Oil or Gas Well Gas
(KIND)

Quadrangle Holbrook
Permit No. Gil - 2090

WELL RECORD

Company White Shield Oil & Gas Corp.
Address P. O. Box 2139, Tulsa, Okla. 74101
Farm ~~XXXXXX~~ Adam Hurst Acres 66
Location (waters) _____
Well No. 1 (Rebecca) Elev. GL 993'
District Troy County Gilmer
The surface of tract is owned in fee by Wade Osborne
Address 114 Clifton St.
Mineral rights are owned by New London, Ohio
Address same
Drilling commenced 6-28-70
Drilling completed 7-1-70
Date Shot 7-10-70 From 1486' To 2102'
With 40 holes

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10			Size of
8 5/8	<u>191' KB</u>		
6 3/4			Depth set
5 3/16			
4 1/2	<u>2138' KB</u>		
3			Perf. top <u>1486'</u>
<u>x1" tbg. @ 2051'</u>			Perf. bottom <u>2102'</u>
Liners Used			Perf. top
			Perf. bottom

Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) Weir 1000 gals reg acid,
Injun 5000 gals reg acid, salt sd w/500 gals MCA.
WELL FRACTURED (DETAILS) Fraced Weir Formation w/800 bbls KCL wtr. & 40,000# 20/40 sd.
Fraced Injun w/600 bbls wtr, 30,000# 20/40 sd.
RESULT AFTER TREATMENT (Initial open Flow or bbls.) 1650 MCF/GPD (1,650,000)
ROCK PRESSURE AFTER TREATMENT SIP 520 HOURS 60
Fresh Water _____ Feet Salt Water _____ Feet
*Producing Sand Weir, Injun & Salt sd Depth 2033-1829-1486 (Tops)

Attach copy of cementing record.
CASING CEMENTED 4 1/2 SIZE 2138 No. Ft. 7-3-70 Date
Amount of cement used (bags) 200 sx
Name of Service Co. Howco
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand			0	40'			
Shale			40'	199'			
Sand & Shale			199'	249'			
Sand			249'	429'			
Sd, Sh, & Red Rock			429'	870'			
Shale			870'	1188'			
Shale & Sand			1188'	1600'			
Sd, Sh, & Red Rock			1600'	1730'			
Lime			1730'	1757'			
Pecil Cave			1757'	1770'			
Lime & Sand			1770'	1851'			
Sand			1851'	2056			
				TD.			

*Perforations as follows:
Weir 2033-2102 24 holes
Injun 1829-1917 15 holes
Salt 1486-1546 10 holes

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JUL 24 1970
OIL & GAS DIVISION
DEPT. OF MINES

(over)

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21 02090P

7015 1520 0000 0958 9183

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
 \$ _____

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<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
 \$ _____

Total Postage and Fees
 \$ _____

Sent To
 Lance Woodford USPS

Street and Apt. No., or PO Box No.
 102 Lynn Park

City, State, ZIP+4®
 Coalmill, WV 26342

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

WALTON, WV 25286
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 Pastmark Here

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SURFACE OWNER WAIVER

Operator's well
Rebecca #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 grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

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Signature _____

Date _____

Name _____

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By _____

Its _____ Date _____

WV Department of
Environmental Protection

Signature _____

Date _____

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Ross and Wharton Gas Company, INC. OP Code 305680

Watershed (HUC 10) Little cove Creek Quadrangle Holbrook

Elevation 993 County Gilmer District Troy

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

Will a pit be used for drill cuttings? Yes _____ No x

If so, please describe anticipated pit waste: _____

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

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 no fluids are expected in return, All fluids captured if returned into tank _____)

ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS & DISPOSED OF PROPERLY OFF SITE.

Will closed loop system be used? _____

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Brine water

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

Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. _____

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

-Landfill or offsite name/permit number? No Pit brine Water if any in tank

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.

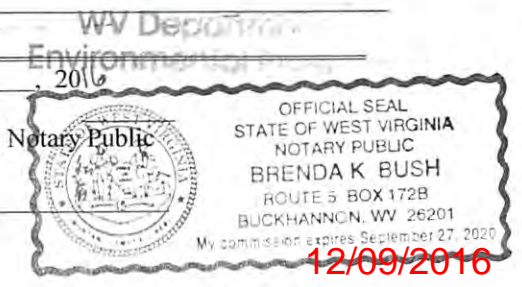
Company Official Signature [Signature]
Company Official (Typed Name) Mike Ross
Company Official Title C.O.B.

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Subscribed and sworn before me this 14 day of October

Brenda K Bush

My commission expires September 27, 2020



Operator's Well Rebecca #1 _____

Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation Ph 6.0
0.5 _____

Lime _____ 2Tons/acre or to correct to pH _____

Fertilizer type _____ 10-20-20 _____

Fertilizer amount _____ 500 lbs/acre

Mulch _____ 2 Tons/acre

R/M

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
KENTUCKY FESCUE	40	SAME	
ALSIKE CLOVER	5		
ANNUAL RYE	16		

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: _____

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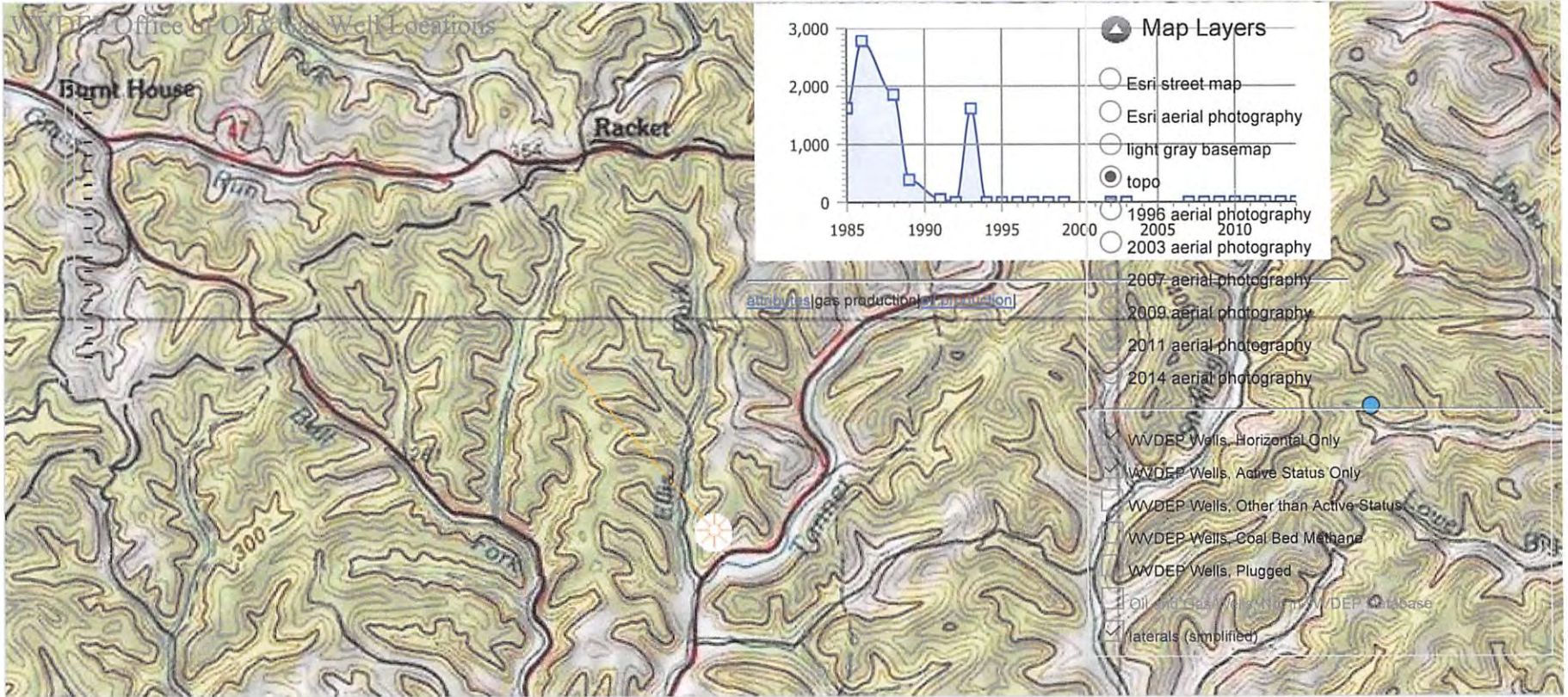
Title: _____

Date: _____

WV Department of
Environmental Protection

Field Reviewed? () Yes () No

2102090P



Attribute Search Result Table Location Search Legend About

#	API	Permit Type	Issued	Operator	Well Status	Well Type	Well Use	Well Num
1	021-02090	Other Well	1970-6-30	ROSS AND WHARTON GAS COMPANY, INC.	Abandoned Well	Vertical	Gas Production	782

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WW-7
8-30-06



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

API: 47 021 02090 WELL NO.: Rebecca #1

FARM NAME: Adam Hurst

RESPONSIBLE PARTY NAME: Ross and Whorton Gas Company, INC.

COUNTY: Gilmer DISTRICT: Troy

QUADRANGLE: Holbrook

SURFACE OWNER: Lance Woodford

ROYALTY OWNER: Adam Hurst

UTM GPS NORTHING: 4319394

UTM GPS EASTING: 512208 GPS ELEVATION: 993

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 X: Post Processed Differential _____
Real-Time Differential _____

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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.

Tim Ross C.O.B. 10/14/16
Signature Title Date