



**west virginia** department of environmental protection

Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

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

June 15, 2016

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-4101714, issued to EQT PRODUCTION COMPANY, 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 all 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. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: 8252  
Farm Name: GOULD, P. B.  
**API Well Number: 47-4101714**  
**Permit Type: Plugging**  
Date Issued: 06/15/2016

**Promoting a healthy environment.**

**06/17/2016**

## 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.

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### 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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

Form WW-4 (B)  
Permit Copy  
(Rev 2/01)

Date: May 10, 2016  
Operator's Well  
Well No. 608252 (P. B. Gould #2 8252)  
API Well No.: 47 041 - 01714

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

CK 20463  
100<sup>00</sup>

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) Elevation: 1191 ft. Watershed: Skin Creek  
Location: Skin Creek County: Lewis Quadrangle: Roanoke 7.5'  
District: \_\_\_\_\_

6) Well Operator EQT Production Company 7) Designated Agent: Rex C. Ray  
Address: 120 Professional Place Address: 120 Professional Place  
Bridgeport, WV 26330 Bridgeport, WV 26330

8) Oil & Gas Barry Stollings 9) Plugging Contractor:  
Name: 28 Conifer Drive Name: HydroCarbon Well Service  
Address: Bridgeport, WV 26330 Address: PO BOX 995  
Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:  
**See Attachment for details and procedures.**

RECEIVED  
OFFICE OF OIL AND GAS

JUN 07 2016

OFFICE USE ONLY

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

Work order approved by inspector [Signature] Date 6-1-16

PLUGGING PROGNOSIS - Weston

**Gould, P.B. #8252 (608252)**

Lewis Co., West Virginia  
API # 47-041-01714  
Quad: Skin Creek

BY: Craig Duckworth  
DATE: 11/03/14

**CURRENT STATUS:**

13" csg @ 19'  
8 5/8" csg @ 805'  
4 1/2" tbg @ 2206' (120 sks cem.)

**TD @ 4619'**

**Fresh Water @ 35' & 750'**  
**1<sup>st</sup> Salt Sand @ 1291'**  
**Gas Shows @ None reported**  
**Oil Shows @ None reported**  
**Stimulation: Perfs 2074'-2079'**  
**Elevation: 1189'**

**Salt Water @ None reported**  
**Coal @ None reported**

1. Notify State Inspector, **Barry Stollings 304-552-4194**, 24 hrs. Prior to commencing operations.
2. TIH w/ tbg @ 4619'; Set 200' C1A Cement Plug @ 4619' to 4419'
3. TOOH w/ tbg @ 4419'; gel hole @ 4419' to 2500'
4. TOOH w/ tbg @ 2500'; Set 100' C1A Cement Plug @ 2500' to 2400'
5. TOOH w/ tbg @ 2400'; gel hole @ 2400' to 2256'
6. TOOH w/ tbg @ 2256'; Set 100' C1A Cement Plug @ 2256' to 2156' (4 1/2" csg seat) *SPOT GEL TO 1600'*
- \* 7. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 4 1/2" cut. Do not omit any plugs
8. TOOH w/ tbg @ ~~1600'~~ gel hole @ ~~1600'~~ to 1291'
9. TOOH w/ tbg @ 1291'; Set 100' C1A Cement Plug @ 1291' to 1191' (Salt Sand @ 1291')
10. TOOH w/ tbg @ 1191'; gel hole @ 1191' to 855'
- \* 11. TOOH w/ tbg @ 855'; Set 155' C1A Cement Plug @ 855' to 700' (8 5/8" csg @ 805' & Fresh Water @ 750')
12. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 8 5/8" cut. Do not omit any plugs
13. TOOH w/ tbg @ 700'; gel hole @ 700' to 200'
14. TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to Surface ( 10" csg @ 146' & Coal @ 95' 100')
15. Top off as needed
16. Set Monument to WV-DEP Specifications
17. Reclaim Location & Road to WV-DEP Specifications

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Office of Oil and Gas

MAY 17 2016

WV Department of  
Environmental Protection

\* Ga *FREEPOINT CUT & PULL 4 1/2" CASING. (~1600')*

\* 11a *FREEPOINT, CUT & PULL 8 5/8". DOES NOT SHOW THAT IT IS CEMENTED. IF POSSIBLE PULL 8 5/8" BEFORE SETTING 8 5/8" CASING SEAT & FRESH WATER PLUG.*

*Q Army*

06/17/2016

4101714P

Form OG-10



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

Rotary   
Spudder   
Cable Tools   
Storage   
Oil or Gas Well  Gas  is Water

39°00'

Quadrangle Crawford NW 1.4 1-34

WELL RECORD

Permit No. LEW-1714

Company Union Drilling, Inc.  
Address P. O. Box 347, Buckhannon, W. Va., 26201  
Farm P. B. Gould Acres 920  
Location (waters) Skin Creek  
Well No. (2) 213-B Elev. 1189'  
District Skin Creek County Lewis  
The surface of tract is owned in fee by Wm. Jewell

Mineral rights are owned by Arthur B. Gould, Agent, et al  
Brushy Fork Road Address Buckhannon, W. Va.

Drilling commenced 10/29/69  
Drilling completed 11/3/69

Date Shot From To

Open Flow /10ths Water in Inch  
Volume 30,000 /10ths Merc. in Inch

Rock Pressure lbs hrs  
Oil bbls, 1st 24 hrs

WELL ACIDIZED (DETAILS)

WELL FRAC URED (DETAILS) 11/18/69 - Dowell - 37,080 Gal. Waterfrac  
55,000 Lbs. Sand

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 500,000

ROCK PRESSURE AFTER TREATMENT 640 HOURS 20

Fresh Water 35', 750' Feet Salt Water Feet  
Producing Sand Gantz Depth

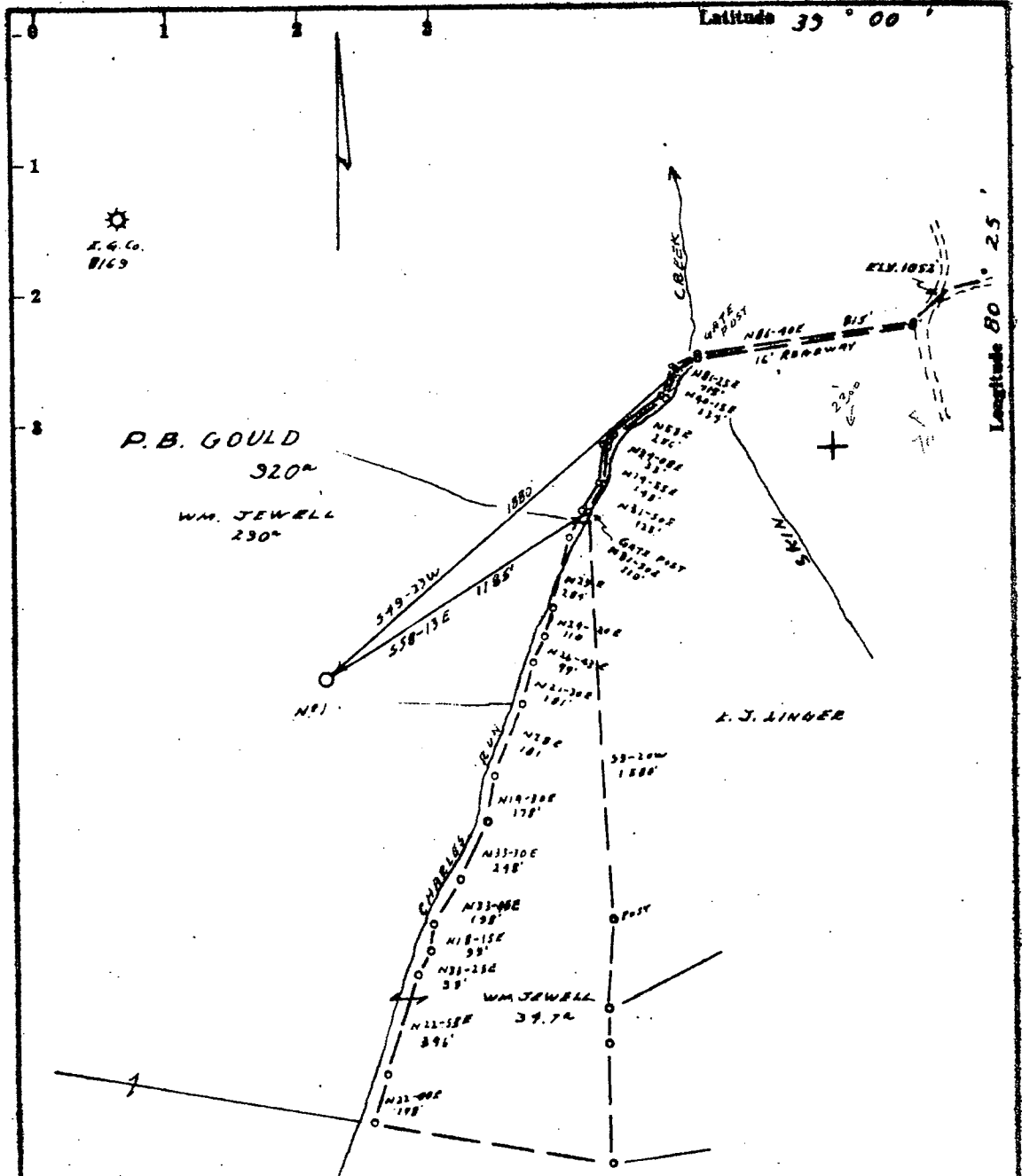
Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand & Shale			0	50	Water @	35'	
Sand			50	140			
Red Rock			140	196			
Sand & Shale			196	317			
Red Rock & Shale			317	750	Water @	750'	
Sand & Shale			750	813			
Shale			813	950			
Sand			950	990			
Sand & Shale			990	1215			
Shale			1215	1261			
Sand			1261	1291			
Sand & Shale			1291	1443			
Shale			1443	1624			
Red Rock			1624	1720			
Big Lime			1720	1835			
Injun Sand			1835	1892			
Shale			1892	2079			
Sand			2079	2090			
Shale			2090	2192			
Sand - Gantz			2192	2208			
Shale			2208	2258			
Sand & Shale			2258	2415			
Shale			2415	2540			
Sand & Shale			2540	2911			
Shale			2911	3410			
Sand & Shale			3410	3919			
Shale			3919	4450			
Penson Sand			4450	4460			
Shale			4460	4619	Total Depth		



(over)

06/17/2016

4101714P  
10113769CEM



- Fracture
- Redrill
- New Location
- Drill Deeper
- Abandonment

Source of Elevation ROAD MARK, ELEV. 1053' USGS  
 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 accuracy, one part in 200

Company	UNION DRILLING INC.	
Address	BUCKHANNON, W.VA. 26201	
Farm	P. B. GOULD	
Tract	Acres 920	Lease No.
Well (Farm) No.	2	Serial No. 1
Elevation (Spirit Level)	1189'	
Quadrangle	CRAWFORD NW 12	
County	LEWIS	District SKIN CREEK
Engineer	James S. Tilton	
Engineer's Registration No.	2886	
File No.	216/80	Drawing No.
Date	10-9-69	Scale 1" = 500'

RECEIVED  
 Office of Oil and Gas  
 STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
 MAY 17 2016

**WELL LOCATION MAP**  
 WV Department of  
 Environmental Protection

+ 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.

06/17/2016

WW-4-A  
Revised 6/07

1) Date: May 10, 2016  
2) Operator's Well Number  
608252 (P. B. Gould #2 8252)  
3) API Well No.: 47 041 - 01714  
State County Permit

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT**  
**DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS**  
**NOTICE AND APPLICATION TO PLUG AND ABANDON WELL**

4) Surface Owner(s) to be served:  
(a) Name Attention: Jeff Toler, Resource Manager  
Address U. S. Army Corps of Engineers  
1012 Skin Creek Road  
Weston, WV 26452  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Barry Stollings  
Address 28 Conifer Drive  
Bridgeport, WV 26330  
Telephone (304) 552-4194

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Attention: Jeff Toler, Resource Manager  
U. S. Army Corps of Engineers  
Address 1012 Skin Creek Road  
Weston, WV 26452  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name None  
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.

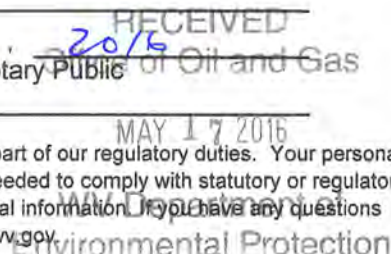
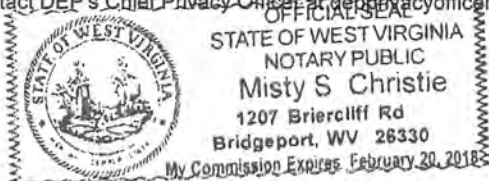
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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 Division 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: EQT Production Company  
By: Victoria J. Roark  
Its: Permitting Supervisor  
Address: PO Box 280  
Bridgeport, WV 26330  
Telephone: (304) 848-0076

Subscribed and sworn before me this 12th day of May, 2016  
Misty S. Christie Notary Public of Oil and Gas  
My Commission Expires: 2/20/18

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as 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 [dep@privacyofficer@wv.gov](mailto:dep@privacyofficer@wv.gov).



06/17/2016

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS**  
**CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM**  
**GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE**

Operator Name: EQT PRODUCTION COMPANY OP ID: \_\_\_\_\_  
Watershed: Skin Creek Quadrangle: Roanoke 7.5'  
Elevation: 1191 ft. County: Lewis District: Skin Creek

Description of anticipated Pit Waste: Formation Fluids

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes \_\_\_ No X  
Will synthetic liner be used in the pit? Yes Is so, what ml.? 10 ml 20 ml minimum

Proposed Disposal Method for Treated Pit Wastes:

- Land Application
- Underground Injection - UIC Permit Number \_\_\_\_\_
- Reuse (at API Number) - Various \_\_\_\_\_
- Offsite Disposal Permit #. see attached \_\_\_\_\_
- Other: Explain \_\_\_\_\_

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. \_\_\_\_\_  
If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used? \_\_\_\_\_

Will closed loop system be used? \_\_\_\_\_

Drill Cuttings disposal method? Leave in pit, landfill, remove offsite, etc. \_\_\_\_\_

If left in pit and plan to solidify what medium will be used? Cement, Lime, sawdust \_\_\_\_\_

Landfill or offsite name/permit number? \_\_\_\_\_

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 Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any terms 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 *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 12th day of May 2016

*Misty S. Christie* Notary Public MAY 17 2016  
My Commission Expires 2/20/18



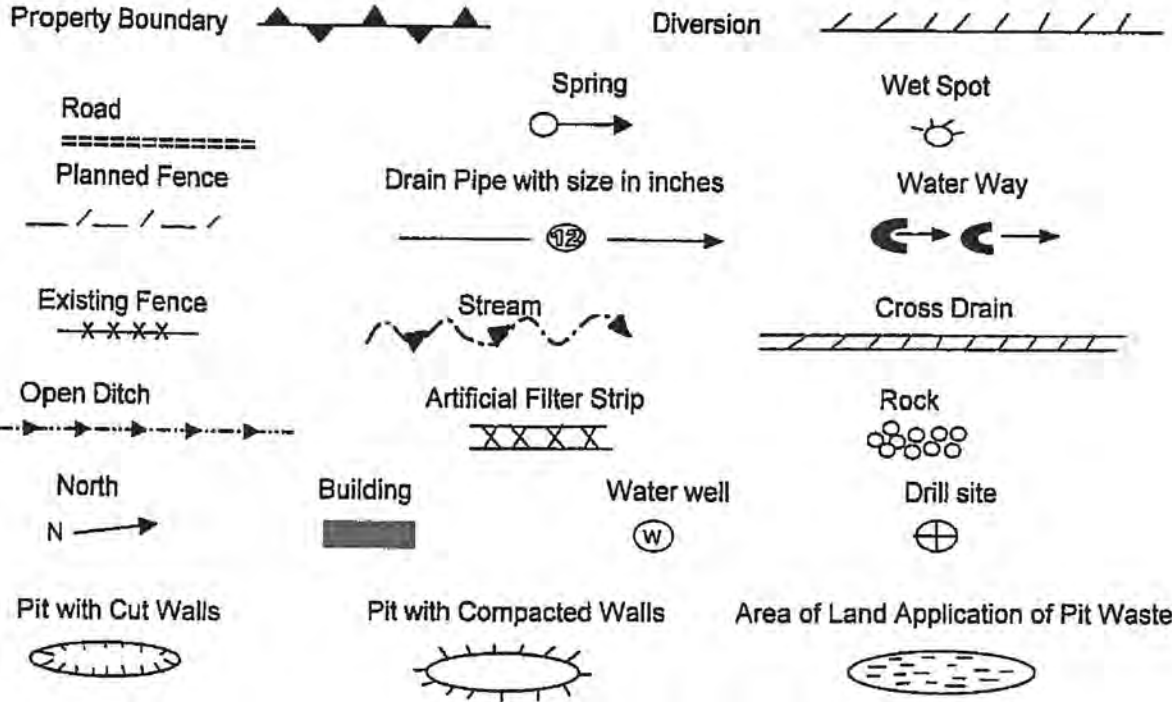
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WV Department of Environmental Protection

06/17/2016



**OPERATOR'S WELL NO.:**  
**608252 (P. B. Gould #2 8252)**

**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20) or equivalent 1/3 ton lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre or hydroseed.

**SEED MIXTURES**

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

**ATTACH:**

Drawing(s) of road, location, pit and proposed area for land application.  
Photocopies section of involved 7.5' topographic sheet.

Plan approved by: Bryan Hester

Comments: \_\_\_\_\_

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OFFICE OF OIL AND GAS**

JUN 07 2016

Title: Inspector Date: 6-1-16

Field Reviewed? X Yes \_\_\_\_\_ No \_\_\_\_\_

<b>EQT Production Water plan</b> <b>Offsite disposals</b>
--

**Waste Management - Meadowfill Landfill**

Rt. 2, Box 68 Dawson Drive  
Bridgeport, WV 26330  
304-326-6027  
Permit #SWF-1032-98  
Approval #100785WV

**Waste Management - Northwestern Landfill**

512 E. Dry Road  
Parkersburg, WV 26104  
304-428-0602  
Permit #SWF-1025 WV-0109400  
Approval #100833WV

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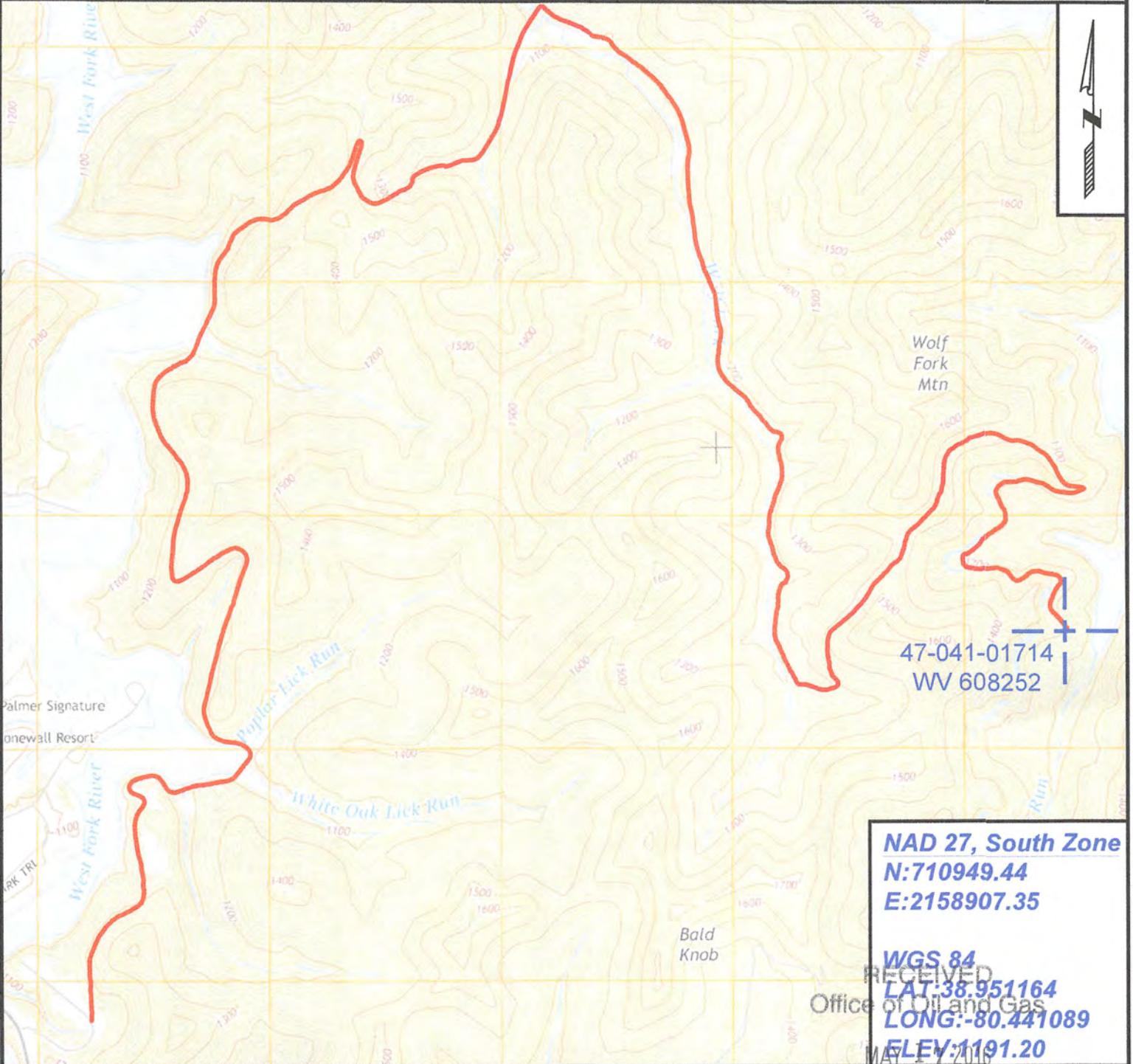
MAY 17 2016

WV Department of  
Environmental Protection

**Topo Quad:** Roanoke 7.5' **Scale:** 1" = 2000'  
**County:** Lewis **Date:** April 27, 2016  
**District:** Skin Creek **Project No:** 73-12-00-08

**47-041-01714 WV 608252 (P. B. Gould #2 8252)**

Topo



SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
 1-800-482-8606  
 237 Birch River Road  
 Birch River, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

PREPARED FOR:  
**EQT Production Company**  
 WV Department of  
 Environmental Protection  
 P.O. Box 280  
 Bridgeport, WV 26330

06/17/2016

WW-7  
8-30-06



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

API: 47-041-01714 WELL NO.: WV 608252 (P. B. Gould #2 8252)

FARM NAME: P. B. Gould

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Lewis DISTRICT: Skin Creek - 05

QUADRANGLE: Roanoke 7.5' - 580

SURFACE OWNER: The United States of America, U.S. Army Corps of Engineers

ROYALTY OWNER: The United States of America, U.S. Army Corps of Engineers

UTM GPS NORTHING: 4311506

UTM GPS EASTING: 548430 GPS ELEVATION: 363 m (1191 ft)

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 X  
 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.

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 Office of Oil and Gas  
 MAY 17 2016  
 WV Department of  
 Environmental Protection

Stacy O'Brien \_\_\_\_\_ PS# 2180 \_\_\_\_\_ 4/29/16  
 Signature Title Date



## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
LEASE NAME AND WELL No. P. B. Gould #2 8252 - WV 608252 - API No. 47-041-01714

### POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 608252.

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Office of Oil and Gas

MAY 17 2016

**BIRCH RIVER OFFICE**

237 Birch River Road  
Birch River, WV 26610  
phone: 304-649-8606  
fax: 304-649-8608

**BRIDGEPORT OFFICE**

172 Thompson Drive  
Bridgeport, WV 26330  
phone: 304-848-5035  
fax: 304-848-5037

**ALUM CREEK OFFICE**

P.O. Box 108 • 1413 Childress Rd  
Alum Creek, WV 25003  
phone: 304-756-2949  
fax: 304-756-2948

**MARTINSBURG OFFICE**

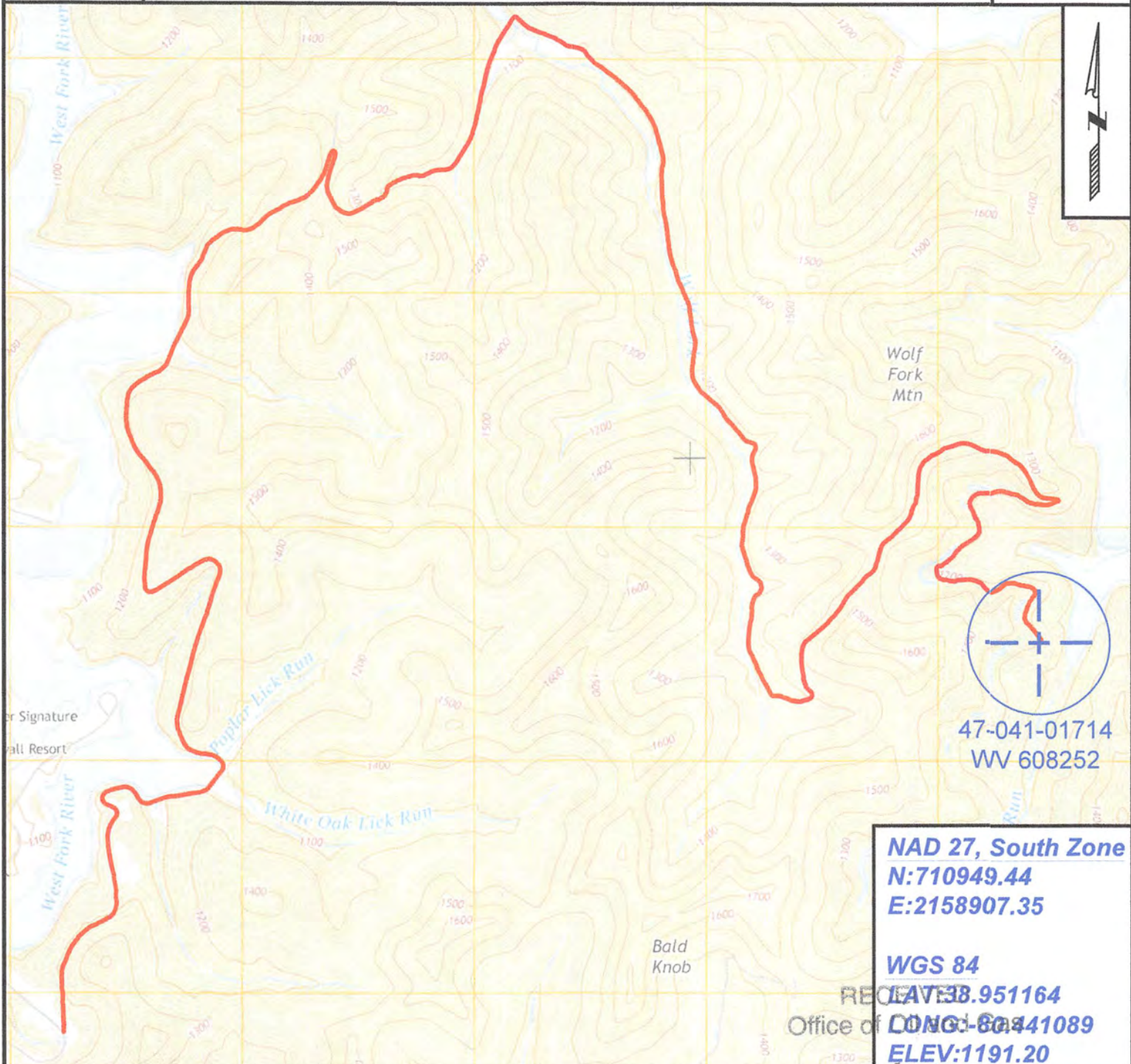
25 South Thompson Drive  
Martinsburg, WV 25404  
phone: 304-901-2182  
fax: 304-901-2182

WV Department of  
Environmental Protection

06/17/2016

**Topo Quad:** Roanoke 7.5' **Scale:** 1" = 2000'  
**County:** Lewis **Date:** April 27, 2016  
**District:** Skin Creek **Project No:** 73-12-00-08

**Water 47-041-01714 WV 608252 (P. B. Gould #2 8252)**



**NAD 27, South Zone**  
**N:710949.44**  
**E:2158907.35**

**WGS 84**  
**EASTING: 710949.44**  
**NORTHING: 2158907.35**  
**ELEV: 1191.20**

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 LONG-6041089  
 MAY 17 2016



**SURVEYING AND MAPPING SERVICES PERFORMED BY:**  
**ALLEGHENY SURVEYS, INC.**  
 1-800-482-8606  
 237 Birch River Road  
 Birch River, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

**PREPARED FOR:**  
**EQT Production Company**  
 Environmental Protection  
 P.O. Box 280  
 Bridgeport, WV 26330  
**06/17/2016**