



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

February 11, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2103161, 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: 7437
Farm Name: GAINER, HH
API Well Number: 47-2103161
Permit Type: Plugging
Date Issued: 02/11/2014

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.

2103161 P

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

Date: January 23, 2014
Operator's Well
Well No. 607437 H H Gainer #7437
API Well No.: 47 021 - 03161

CL 17 256
100.00

STATE OF WEST VIRGINIA
DIVISION 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) Elevation: 1050 Watershed: Dry run of Tanner Creek of Little Kanawha River
Location: DeKalb County: Gilmer Quadrangle: Tanner 7.5
District: 2 021 634

6) Well Operator EQT Production Company
120 Professional Place
Address: Bridgeport, WV 26330

7) Designated Agent: Rex C. Ray
Address: 120 Professional Place
Bridgeport, WV 26330

8) Oil & Gas Bryan Harris
Name: P.O. Box 157
Address: Volga, WV 26238

9) Plugging Contractor:
Name: HydroCarbon Well Service
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.

Attempt to pull all casing
Plug across all casing cuts
Tag all plugs

Office of Oil and Gas
FEB 04
WV Dept
Environmental

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 Bryan O'Hara Date 1-31-14

02/14/2014

PLUGGING PROGNOSIS -Weston

Gainer, H.H. #2 (607437)

GILMER, Co, WV
 API # 47-021-03161
 Dekalb District

BY: Craig Duckworth
 DATE: 11/14/13

CURRENT STATUS:

10" csg @ 125'
 8 1/4" csg @ 802'
 6 5/8" csg @ 1835'
 3" tbg @ 1972' (packer @ 1842')

TD @ 1321'

Fresh Water @ None reported **Salt Water @ None reported**
1" Salt Sand @ 1295' **Coal @ None reported**
Gas shows @ 1902'
Oil Shows @ None reported
Stimulation: None reported

1. Notify State Inspector, Bryan Harris 304-553-6087, 24 hrs. Prior to commencing operations.
2. Attempt to pull 3" & packer (1972'). If unable to pull 3" cut at top of packer @ 1842' and pull 3"
3. TIH w/ tbg @ 1842'; Set 200' C1A Cement Plug @ 1842' to 1642' (gas show @ 1902' & 6 5/8" csg @ 1835')
4. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 6 5/8" cut. Do not omit any plugs
5. TOO H w/ tbg @ 1642'; gel hole @ 1642' to 1295'.
6. TOO H w/ tbg @ 1295'; Set 100' C1A Cement Plug @ 1295' to 1195' (Salt Sand @ 1295')
7. TOO H w/ tbg, Free Point 8 1/4", cut 8 5/8" @ free point, TOO H w/ 8 1/4" csg
8. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 8 1/4" cut. Do not omit any plugs
9. TIH w/ tbg @ 852'; Set 100' C1A Cement Plug @ 852' to 752' (8 1/4" csg @ 802')
10. TOO H w/ tbg @ 752'; gel hole @ 752' to 200'
11. TOO H w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to 0' (10" csg @ 125')
12. Top off as needed
13. Set Monument to WV-DEP Specifications
14. Reclaim Location & Road to WV-DEP Specifications

RECEIVED
 Office of Oil and Gas
 JAN 9 8 2014
 WV Department of
 Environmental Protection

SPECIAL WELL TEST REPORT
FORM G39-27263

Special Test Cleaning Bailing Swabbing Pumping Shooting

Equitable Gas Company

Lease No. 15078 Farm Gainer, H. H. Acres 1.37 WELL NO. 7437

Twp. or Dist. DeKalb County Gilmer State GA Map Glen. N.W. 2-3

Date completed 8-30-24 O.D.O.F. M. Cu. Ft. O.R.P. Producing sand B.I.

Gas at 1902-03 Volume factor Tubed with 1972 ft. of 3 in. thg.

Packed at 1842 ft. With 6 5/8 x 3 inch Anchor

CASING RECORD: 10" 125 ft. 8 1/4" 802 ft. 6 1/2" 1835 ft. 5 1/2" Packer

Total depth 1972 ft. Top of fluid at 1862 ft. Bridged at ft. Depth after this work 1972 ft.

OPEN FLOW AND MINUTE PRESSURE TESTS OF GAS FROM 3 INCH TUBING CASING

	"U" Tube Reading	M or W	Size Opening	Pitot or F.M.	Open Flow	L/P	1/2 Min.	1 Min.	2 Min.	3 Min.	4 Min.	5 Min.	R/P	Hrs.	Date
Before	Against Line Pressure	xxx	x	xxx	xx	xxx	7 1/2	7 1/2	8	8 1/2	9	9 1/2	10		
	From Atmosphere	10/10	W	1/2"	F.M.	5.72M	1/2	1	2	3	3 1/2	4			
After	Against Line Pressure	xxx	x	xxx	xx	xxx	8	8 1/2	9	10	11	12	13		
	From Atmosphere	20/10	W	3/4"	F.M.	18.3M	1	2	3	4	5	6	30	20	12-4-75

REMARKS (concerning wells condition, work done, machine used, etc.) Used bailing machine #784.

RECOMMENDATION Bail again within 6 months.

Amount Royalty \$ 100.00 Amount of free gas allowed per yr. M Cu. ft. Amount used last 12 months M Cu. ft.

EXPENSE:	This Job	Total Previous	TOTAL EXPENSE LAST TWELVE MONTHS
Cleaning.....	\$	\$	\$ 200.00
Bailing.....	200.00	NOTE	
Swabbing.....			

Commenced work 12-2-75 19
Completed work 12-4-75 19
Date of this report 12-4-75 19

Geologist's Recommendation
Date 19

Land Agent's Report
Date 19

RECEIVED
DIVISION SUPERINTENDENT
JAN 2 1976
Geologist

1) Date: January 23, 2014
2) Operator's Well Number
607437 H H Gainer #7437
3) API Well No.: 47 021 - 03161
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 Audra Wade ✓
Address 55 Hummingbird Lane
Mt Zion, WV 26151
(b) Name Elizabeth K Grossman ✓
Address C/O Elizabeth K Setty
1664 Holt Run Road
Glenville, WV 26351
(c) Name Donald R & Eileen Kelbie ✓
Address 420 Kelbie Hollow Rd
Glenville, WV 26351
6) Inspector Bryan Harris ✓
Address P.O. Box 157
Volga, WV 26238
Telephone 304.553.6087

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration ✓
Name Oleta C Davis
Address 21065 Cardinal Pond Terrace
Apt 311
Ashburn, VA 20147-6118
Name Charles W & Linda E Davis ✓
Address 7524 WV HWY 5 W
Glenville, WV 26351
(c) Coal Lessee with Declaration
Name _____
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.



OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Pamela Sykes
EQT Production
PO Box 280
Bridgeport, WV 26330
My Commission Expires Aug. 24, 2022

Well Operator: EQT Production Company
Name: Victoria J. Roark
Title: Permitting Supervisor
Address: PO Box 280
Bridgeport, WV 26330
Telephone: (304) 848-0076

Subscribed and sworn before me this 23 day of January, 2014
[Signature] Notary Public
My Commission Expires: 8-24-22

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 depprivacyofficer@wv.gov.

**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: Dry Run of Tanner Creek of Little Kanawha River Quadrangle: Tanner 7.5

Elevation: 1050 County: Gilmer District: DeKalb

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.? 30 ml

Proposed Disposal Method for Treated Pit Wastes:

- Land Application
- _____ Underground Injection - UIC Permit Number _____
- _____ Reuse (at API Number) _____
- _____ Offsite Disposal Permit #. _____
- _____ 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

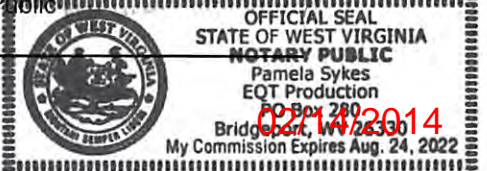
Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 23 day of January, 2014

Pamela Sykes Notary Public

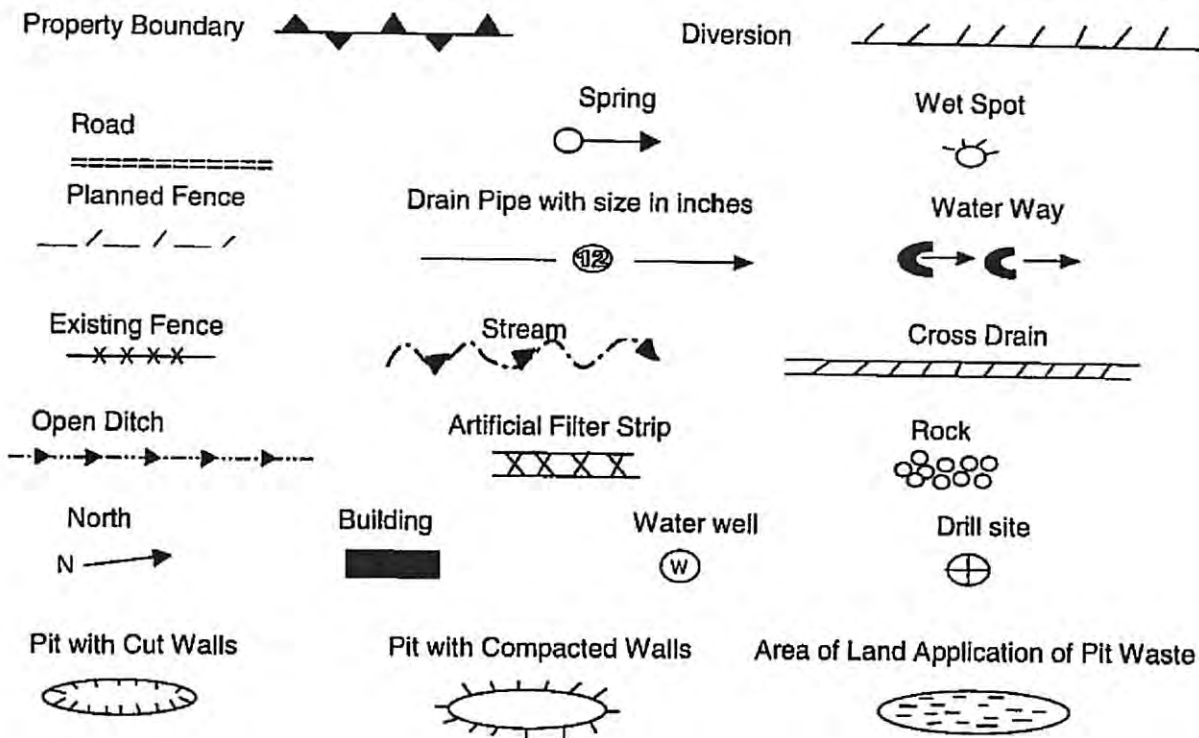
My Commission Expires 8-24-22

RECEIVED
Office of Oil and Gas
JAN 24 2014



OPERATOR'S WELL NO.:
607437 H H Galner #7437

LEGEND



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH 5.8

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

Seed Type	lbs/acre
KY-31	40
Alsike Clover	5
Annual Rye	15

Area II FEB 04 2014

Seed Type	lbs/acre
Orchard Grass	15
Alsike Clover	5

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 D. Harris

Comments: _____

Title: Oil & Gas Inspector Date: 1-31-14

Field Reviewed? Yes No

2103161P

Topo Quad: Tanner 7.5'

Scale: 1" = 2000'

County: Gilmer

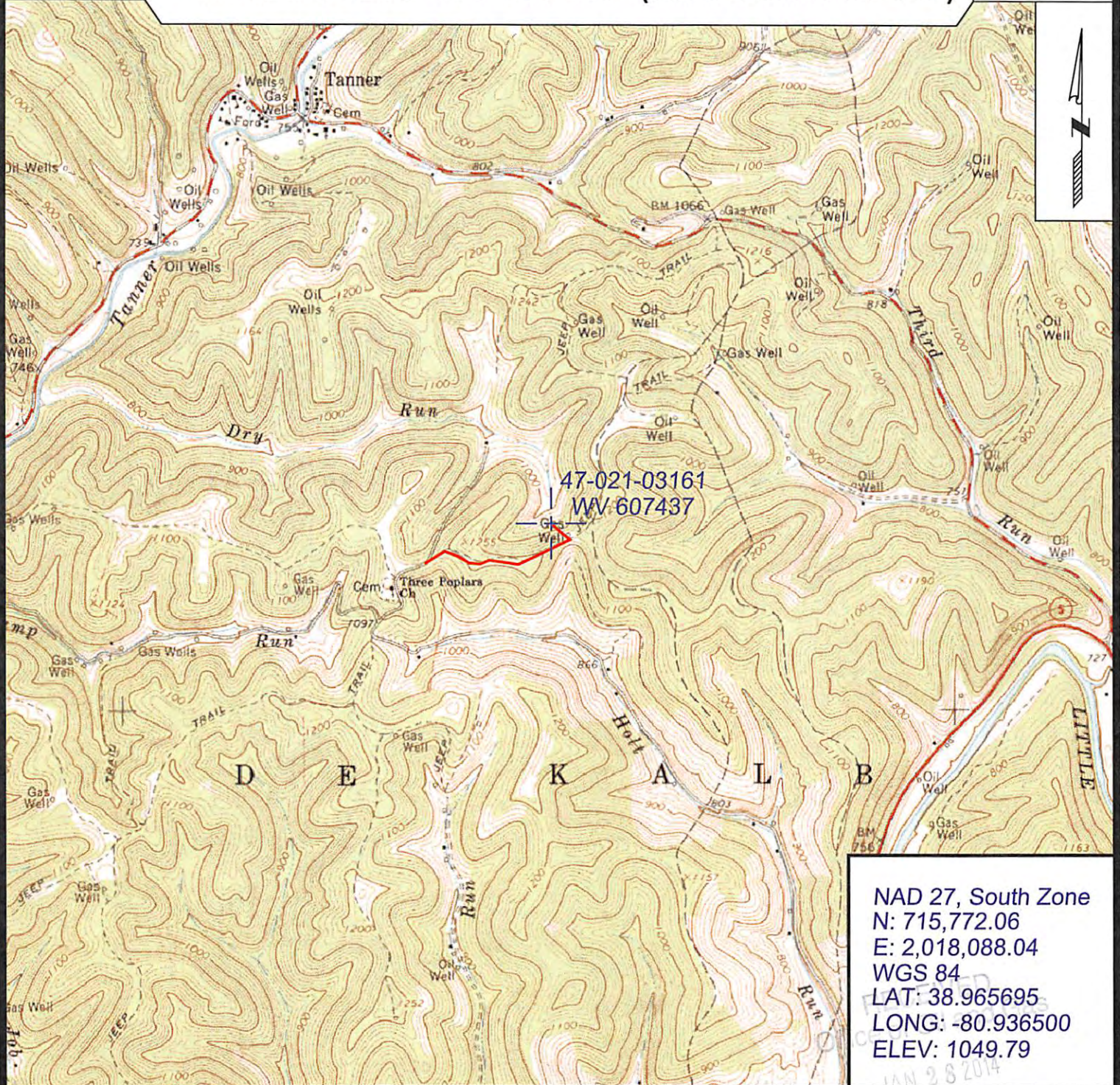
Date: December 16, 2013

District: Dekalb

Project No: 25-19-00-07

47-021-03161 WV 607437 (H.H. Gainer #7437)

Topo



NAD 27, South Zone
 N: 715,772.06
 E: 2,018,088.04
 WGS 84
 LAT: 38.965695
 LONG: -80.936500
 ELEV: 1049.79



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.

1-800-482-8606
 P.O. BOX 438
 BIRCH RIVER, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:

EQT Production Company

P.O. Box 280
 Bridgeport, WV 26330

02/14/2014



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

API: 47-021-03161 WELL NO.: WV 607437 (H.H. Gainer #7437)

FARM NAME: Gainer

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Gilmer DISTRICT: Dekalb

QUADRANGLE: Tanner 7.5'

SURFACE OWNER: Oras H Wade, et al.

ROYALTY OWNER: Pittsburgh & West Virginia Gas Company, et al.

UTM GPS NORTHING: 4312972

UTM GPS EASTING: 505501 GPS ELEVATION: 320 m (1050 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:

- 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 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.

Stacy O Brown
Signature
1/6/14
Date

PS # 2180
Title

RECEIVED
JAN 14 2014
Environmental Protection

2103161P
2106



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY

LEASE NAME AND WELL No. H.H. Gainer #7437 - WV 607437 - API No. 47-021-03161

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 656401.

BIRCH RIVER OFFICE

P.O. Box 438 • 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

CALDWELL OFFICE

212 Cumberland Street
Caldwell, OH 43724
phone: 740-305-5007
fax: 740-305-5126

ALUM CREEK OFFICE

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

Topo Quad: Tanner 7.5'

Scale: 1" = 2000' 2103161A

County: Gilmer

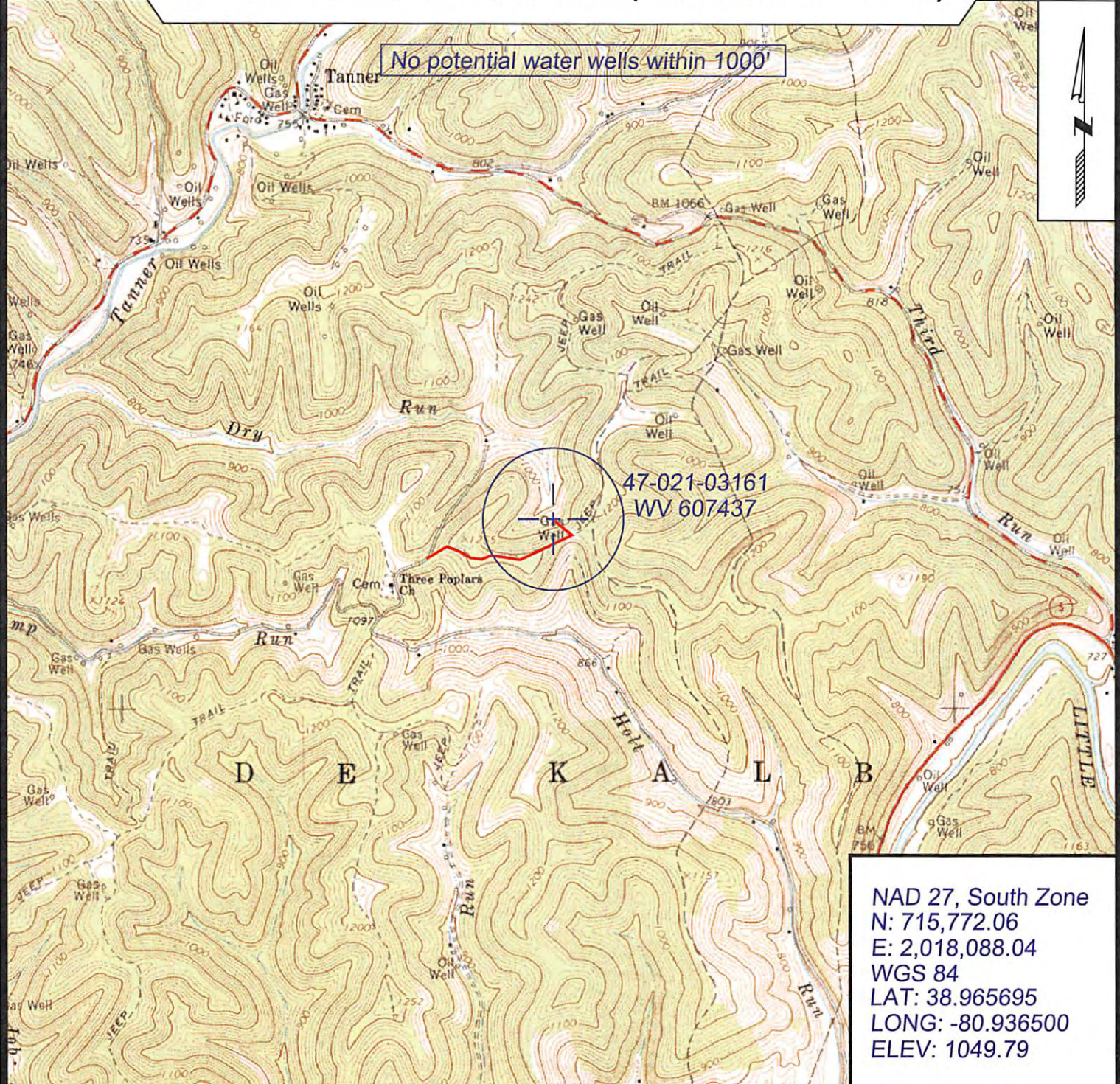
Date: December 16, 2013

District: Dekalb

Project No: 25-19-00-07

Water

47-021-03161 WV 607437 (H.H. Gainer #7437)



NAD 27, South Zone
 N: 715,772.06
 E: 2,018,088.04
 WGS 84
 LAT: 38.965695
 LONG: -80.936500
 ELEV: 1049.79



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.

1-800-482-8606
 P.O. BOX 438
 BIRCH RIVER, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:

EQT Production Company

P.O. Box 280
 Bridgeport, WV 26330

02/14/2014