



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

November 18, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2102506, 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: 1
Farm Name: NUTTER, TRACY
API Well Number: 47-2102506
Permit Type: Plugging
Date Issued: 11/18/2014

Promoting a healthy environment.

11/21/2014

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.
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: September 23, 2014
Operator's Well
Well No. 158551 (Nutter #1)
API Well No.: 47 021 - 02506

CK 18316
10000

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 X Liquid Injection _____ Waste Disposal: _____
If Gas, Production _____ X Or Underground storage _____ Deep _____ Shallow X
- 5) Elevation: 1148 ft Watershed: Horn Creek of Leading Creek of Little Kanawha River
Location: Troy County: Gilmer Quadrangle: Auburn
District: _____
- 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.

OK for Bryan Harris

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 _____ Date _____

SEP 25 2014
WV Department of
Environmental Protection
11/21/2014

PLUGGING PROGNOSIS - Weston

Nutter, Tracy #1 (158551)

Gilmer Co., WV
API # 47-021-02506
District; Troy

BY: Craig Duckworth
DATE: 3/25/14

CURRENT STATUS:

8 1/4" csg @ 180'
4 1/2" csg @ 2500' (125 sks cem.)

TD @ 2500'

Fresh Water @ None reported
Salt Sand @ 1040'
Gas shows @ None reported
Oil Shows @ None Reported
Stimulation: Fractured (no info.)

Salt Water @ None reported
Coal @ None reported
Elevation @ 936'

MUST TRY TO REMOVE 8 1/4" CASING. g/n/m GEL SPACER BETWEEN ALL CEMENT PLUGS.

1. Notify State Inspector, Bryan Harris 304-553-6087, 24 hrs. Prior to commencing operations.
2. TIH w/ tbg @ 2500'; Set 300' CIA Cement Plug @ 2500' to 2200' (Weir @ 2290'-2500')
3. TOOH w/ tbg @ 2200; gel hole @ 2200' to 2100'.
4. TOOH w/ tbg @ 2100'; Set 100' CIA Cement Plug @ 2100' to 2000' (Injun @ 2035'-2290')
5. TOOH w/ tbg @ 2100; gel hole @ 2100' to 1300'.
6. TOOH w/ tbg, Free Point 4 1/2", cut 4 1/2" @ free point (approx. 1300'), TOOH w/ 4 1/2" csg
7. Set a 100' CIA 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. TIH w/ tbg @ 1300'; Set 100' CIA Cement Plug @ 1300' to 1200'(4 1/2" cut)
9. TOOH w/ tbg @ 1200; gel hole @ 1200' to 1040'.
10. TOOH w/ tbg @ 1040'; Set 200' CIA Cement Plug @ 1040' to 840' (Salt Sand @ 1040' & Elevation @ 936')
11. TOOH w/ tbg @ 840'; gel hole @ 840' to 250'
10. TOOH w/ tbg @ 250'; Set 250' CIA Cement Plug @ 200' to Surface (8 1/4" @ 180')
11. Top off as needed
12. Set Monument to WV-DEP Specifications
13. Reclaim Location & Road to WV-DEP Specifications

Quadrangle Holbrook

Permit No. GIL-2506

WELL RECORD

Oil or Gas Well Oil
(KIND)

Company KANAWHA DRILLING COMPANY
Address P. O. BOX 33 BURNT HOUSE, W. Va.
Farm TRACY NUTTER Acres 50
Location (waters) STONELICK
Well No. ONE (1) Elev. 936
District TROY County GILMER
The surface of tract is owned in fee by TRACY NUTTER
Address HARRISVILLE, W. VA.
Mineral rights are owned by SAME
Address _____
Drilling commenced NOVEMBER 1, 1974
Drilling completed NOVEMBER 4, 1974
Date Shot From To
With _____
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) _____
WELL FRACTURED (DETAILS) ENCLOSED

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			Size of
10			Depth set
8 1/4	180	180	
6 1/4			
5 3/16			
4 1/2	2500	2500	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED 4 1/2 SIZE 2500 No. Ft. 11/4/74 Date
Amount of cement used (bags) 125
Name of Service Co. DOWELL
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES
_____ FEET _____ INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 2,000,000 3BBL. OIL
ROCK PRESSURE AFTER TREATMENT 820 HOURS 24
Fresh Water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
SOIL			0	5			
SLATE & SHELLS			5	215			
RED ROCK			215	250			
SAND-LIME			250	335			
RED ROCK			335	370			
SLATE & SHELLS			370	820			
SAND			820	880			
SLATE & SHELLS			880	1040			
SAND			1040	1135			
SLATE			1135	1180			
SAND			1180	1240			
SLATE & SHELLS			1240	1360			
SAND			1360	1410			
SLATE & SHELLS			1410	1505			
SAND			1505	1580			
SLATE & SHELLS			1580	1655			
SAND			1655	1710			
SANDY-LIME			1710	1880			
SAND			1880	1895			
SLATE			1895	1902			
LIME			1902	1937			
SLATE			1937	1942			
LIME			1942	2035			
SAND-INJUN			2035	2133			
SHALE			2133	2290			
SAND WEIR			2290	2500			

1) Date: September 23, 2014
2) Operator's Well Number
158551 (Nutter #1)
3) API Well No.: 47 021 - 02506
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 Okey S. Starsick, II
Address 7646 WV HWY 47 W ✓
Coxs Mills, WV 26345

(b) Name _____
Address _____

(c) Name _____
Address _____

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 Okey S. Starsick, II ✓
7646 WV HWY 47 W
Address Coxs Mills, WV 26345

Name _____
Address _____

(c) Coal Lessee with Declaration
Name None
Address _____

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.



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

Subscribed and sworn before me this 13th day of September, 2014
Misty S. Christie Notary Public
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 depprivacyofficer@wv.gov.

210 250689
EQT
 P/O Vicki Roark
 P.O. Box 280
 Bridgeport, WV 26330

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 		A. Signature X <input type="checkbox"/> Agent <input type="checkbox"/> Addressee	
1. Article Addressed to: <div style="border: 1px solid black; padding: 5px;"> Okey S. Starsik, II 7646 WV HWY 47 W Coxs Mills, WV 26345 </div> <div style="text-align: right; margin-top: 5px;"> <small>Plug 158551</small> </div>		B. Received by (Printed Name) _____ C. Date of Delivery _____ D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
2. Article Number <small>(Transfer from service label)</small>		3. Service Type <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery	
PS Form 3811, July 2013		4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
		7014 1820 0001 2406 7564	
		Domestic Return Receipt	

PS Form 3800, July 2014 See Reverse for Instructions

Street & P.O. Box:
 Coxs Mills, WV 26345
 Sent to: 7646 WV HWY 47 W
 Total Postage: Okey S. Starsik, II

Restricted Delivery Fee (Endorsement Required) _____
 Return Receipt Fee (Endorsement Required) _____
 Certified Fee _____
 Postage \$ _____
 Postmark Here

OFFICIAL USE
 For delivery information, visit our website at www.usps.com

U.S. Postal Service
CERTIFIED MAIL® RECEIPT
Plug 158551

7014 1820 0001 2406 7564
 7014 1820 0001 2406 7564

Registered®
 09/24/2014
US POSTAGE
\$07.40
 ZIP 26330
 041L10228892

11/21/2014

2102506P

EQT

C/O Vicki Roark
P.O. Box 280
Bridgeport, WV 26330

Bryan Harris
P. O. Box 157
Volga, WV 26238

Page 15651



neopost
09/24/2014
US POSTAGE

FIRST-CLASS MAIL
\$01.61

ZIP 26330
041110228892

SEP 25 2014

WV Department of
Environmental Protection

**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: Horn Creek of Leading Creek of Little Kanawha River Quadrangle: Auburn

Elevation: 1148 ft County: Gilmer District: Troy

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 MIL.

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*

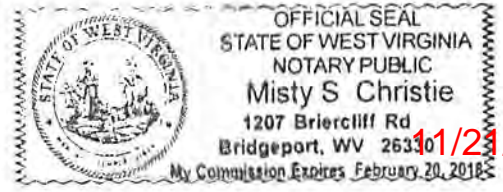
Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 23rd day of September, 2014

Misty S. Christie Notary Public

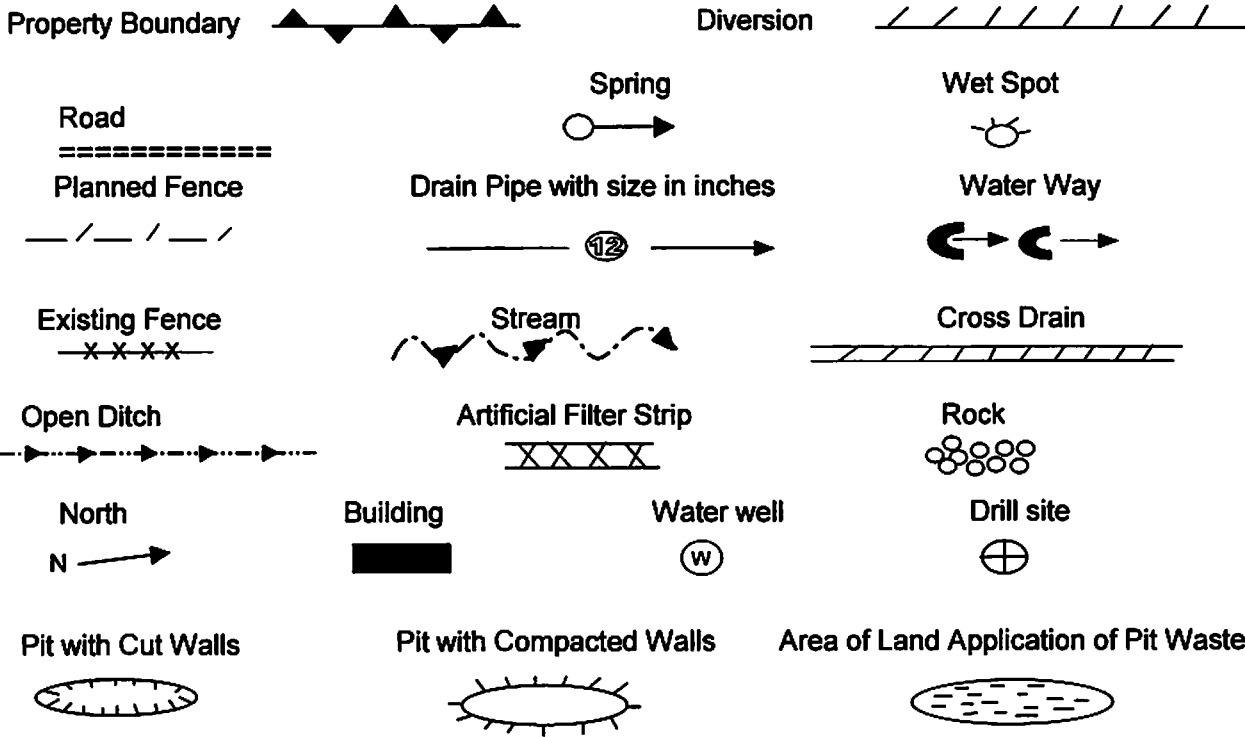
My Commission Expires 2/20/18



11/23/2014

OPERATOR'S WELL NO.:
158551 (Nutter #1)

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		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: _____

Comments: _____

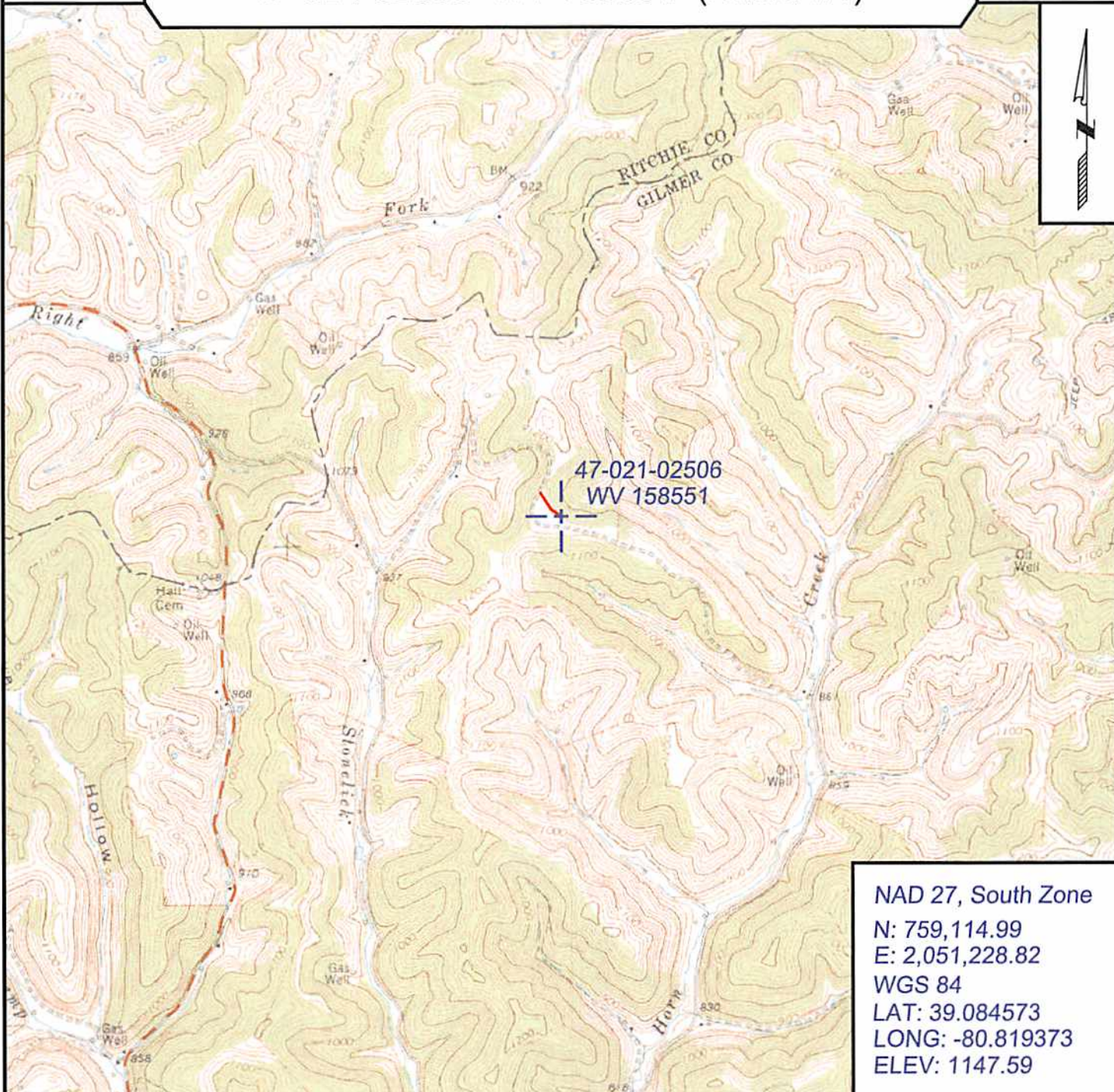
Title: _____ Date: _____

Field Reviewed? Yes No

Topo Quad: Auburn 7.5' Scale: 1" = 2000'
 County: Gilmer Date: August 4, 2014
 District: Troy Project No: 25-19-00-07

47-021-02506 WV 158551 (Nutter #1)

Topo



47-021-02506
 WV 158551

NAD 27, South Zone
 N: 759,114.99
 E: 2,051,228.82
 WGS 84
 LAT: 39.084573
 LONG: -80.819373
 ELEV: 1147.59



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
 P.O. Box 280
 Bridgeport, WV 26330

WW-7
8-30-06



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

API: 47-021-02506 WELL NO.: WV 158551 (Nutter #1)
FARM NAME: Tracy Nutter
RESPONSIBLE PARTY NAME: EQT Production Company
COUNTY: Gilmer DISTRICT: Troy 4
QUADRANGLE: Auburn 7.5' 224
SURFACE OWNER: Okey S. Starsick, II & Pamela F. Starsick
ROYALTY OWNER: Okey S. Starsick, II & Pamela F. Starsick
UTM GPS NORTHING: 4326177
UTM GPS EASTING: 515622 GPS ELEVATION: 350 m (1148 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.**

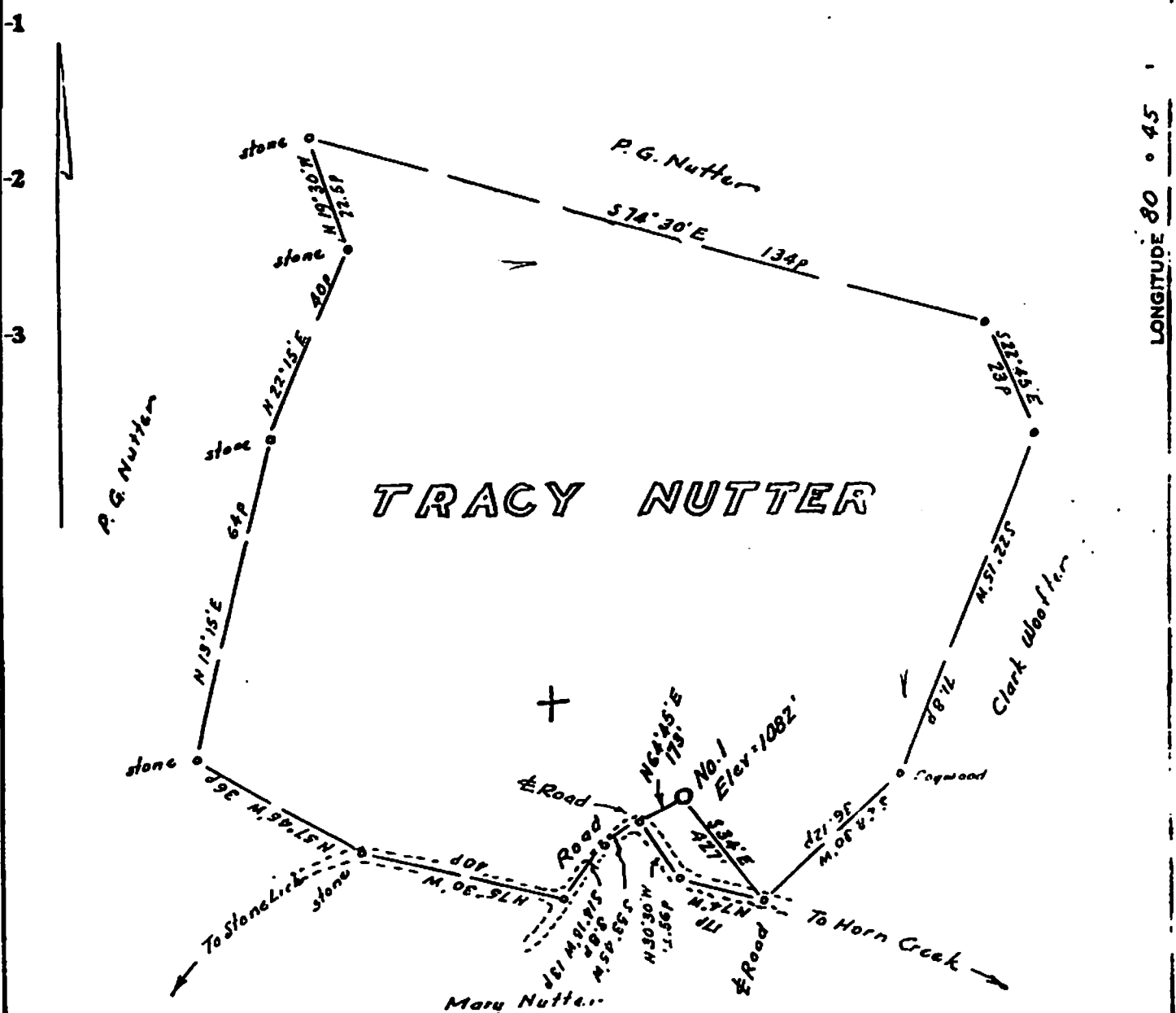
I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Stacy O'Brien
Signature

PS # 2180
Title

8/15/14
Date

SEP 25 2014
WV Department of Environmental Protection
11/21/2014



Minimum Error of Closure 1 in 200
 Source of Elevation B.M. at Cox's Mill = 789

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.....

Signed: [Signature]
 Squares: N S E W

Company Kanawha Drilling Co
 Address P.O. Box 33, Burnt House, W. Va.
 Farm Tracy Nutter
 Tract _____ Acres 96 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 1082
 Quadrangle Holbrook
 County Gilmer District Tray

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

WELL LOCATION MAP

FILE NO. GIL-2506

11/21/2014

+ Denotes location of well on United States
 Topographic Maps. scale 1 to _____ latitude



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
 LEASE NAME AND WELL No. Nutter #1 WV 158551 (47-021-02506)

The initial mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 1000' of the existing well site. The following landowners will be notified of the opportunity to request a water sample.

*Please note that the following information is subject to change upon field inspection.

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 302' +/- Owner: Okey S. Starsick, II & Pamela F. Starsick
 Address: 7646 WV HWY 47W, Coxs Mills, WV 26342 Phone No. _____
 Comments:

Site: 2 Spacing: 851' +/- Owner: Jacob A. & Elizabeth Millerline (c/o Jacob S. Millerline)
 Address: 27 Oaklynn Drive, Columbus, NJ 08022 Phone No. _____
 Comments:

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

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 Rd
 Alum Creek, WV 25003
 phone: 304-756-2949
 fax: 304-756-2948

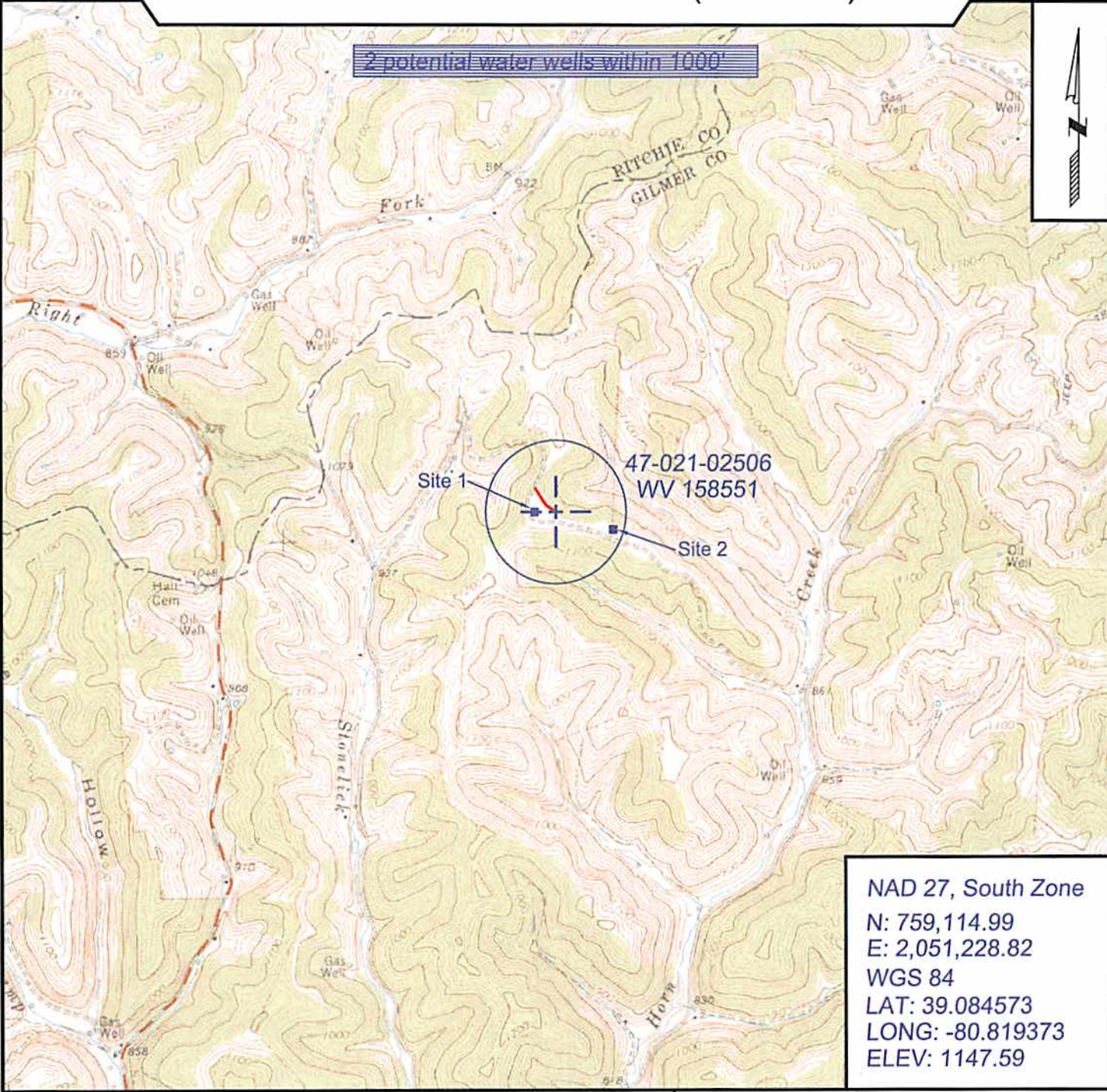
RANSON OFFICE
 401 South Fairfax Blvd, Suite 3
 Ranson, WV 25438
 phone: 304-724-5008
 fax: 304-724-5010

Topo Quad: Auburn 7.5' Scale: 1" = 2000'
 County: Gilmer Date: August 4, 2014
 District: Troy Project No: 25-19-00-07

Water

47-021-02506 WV 158551 (Nutter #1)

2 potential water wells within 1000'



NAD 27, South Zone
 N: 759,114.99
 E: 2,051,228.82
 WGS 84
 LAT: 39.084573
 LONG: -80.819373
 ELEV: 1147.59



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 FAX: (304) 649-8608

PREPARED FOR:
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330