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

August 13, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2100299, 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 penalities 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: 7649
Farm Name: SIMMONS, HOWARD L.
API Well Number: 47-2100299
Permit Type: Plugging
Date Issued: 08/13/2015

Promoting a healthy environment.

2100299P

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.

2100299P

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

Date: July 21, 2015
Operator's Well
Well No. 607649 (Simmons #7649)
API Well No.: 47 021 - 00299

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)
Location: Elevation: 1345 ft. Watershed: Collins Run
District: Glenville County: Gilmer Quadrangle: Glenville

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

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

8)
Oil & Gas Name: Danny Mullins
Address: ~~124 Big Trace Fork Road~~ 220 Jack Acres
~~Harts, WV 26524~~ Buckhannon WV

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.

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 Danny Mullins Date 8-4-15

2100299P

PLUGGING PROGNOSIS –Weston

Simmons, H.L. #7649 (607649)

GILMER, Co, WV
API # 47-021-00299
District: Troy

BY: Craig Duckworth
DATE: 6/29/15

CURRENT STATUS:

10" csg	@ 164'
8 1/4" csg	@ 788'
6 5/8"csg	@ 1960'
3" tbg	@ 2211' (Packer @ 1825')

TD @ 2211'

Fresh Water @ None reported
Salt Water @ None reported
1st Salt Sand @ None reported
Coal @ None reported
Gas shows @ 2110'-2127' Slate & 1831'-1835' Maxton Sand
Oil Shows @ 1825' Maxton Sand
Stimulation: Shot @ 2110'-2117'
Elevation: 1342'

JM

1a. 1. Notify State Inspector, Danny Mullins 304-932-6844, 24 hrs. Prior to commencing operations.
2. TIH w/ tbg @ 2200'; Set 350' C1A Cement Plug @ 2200' to 1850' (Shot @ 2117'-2110', Gas Show @ 2127'-2110'& 6 5/8" csg @ 1960')
3. Attempt to pull 3" tbg if unable to pull cut 3" tbg off at packer @ 1825' TOOH w/3" tbg
4. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 3" cut. Do not omit any plugs
5. TIH w/ tbg @ 1825'; Set 100' C1A Cement Plug @ 1825' to 1725'(Packer @ 1825' Gas & Oil Show @ 1825')
6. TOOH w/ tbg @ 1725; gel hole @ 1725' to 1342'.
7. TOOH w/ tbg @ 1342'; Set 100' C1A Cement Plug @ 1342' to 1242'(Elev.@ 1342')
8. TOOH w/ tbg @ 1242; gel hole @ 1242' to 838'.
9. TOOH w/ tbg @ 838'; Set 100' C1A Cement Plug @ 838' to 738' (8 ¼" csg @ 788')
10. 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
11. TOOH w/tbg Attempt to pull 8 1/4" tbg if unable to pull cut 8 1/4" tbg off at freepoint 8 ¼" @ 788' TOOH w/8 ¼"
12. TIH w/ tbg @ 738'; gel hole @ 738' to 220'
13. TOOH w/ tbg @ 220'; Set 220' C1A Cement Plug @ 220' to 0 (10"csg @ 164' & Surface)
12. Top off as needed
13. Set Monument to WV-DEP Specifications
14. Reclaim Location & Road to WV-DEP Specifications

1 a. SPOT GEL TO ABOVE SHOT BEFORE CEMENTING FIRST PLUG.

2100299P

47-021-00299

WEST VIRGINIA DEPARTMENT OF M S
OIL AND GAS DIVISION

WELL RECORD

Permit No. Gil-299

Gas Well

Glenville Quad.

Company	Pitts. & W.Va.Gas Co.
Address	Clarksburg, W.Va.
Farm	Howard L.Simmons Acres 57.38
Location	Glenville
Well No.	7649 Elev. 1342 V.A.
District	Troy County Gilmer
Surface	Guy Simmons, Troy, W.Va.
Mineral	Guy Simmons, Troy, W.Va. & W.M.Paugh, Lost Creek, W.Va.
Drilling	Commenced March 15,1938
	Completed April 15,1938
Date Shot	4-16-1938 Depth 2110-2117
Volume	550,000 Cu.Ft.
Rock Press.	700# 24 hrs.

CASING & TUBING

13	Wood	16	16
10		164	164
8¼		788	788
6 5/8		1960	1960
3		2211	2211

PACKER

Kind	Anchor
Size	8¼ x 6 5/8
Depth	1825

[illegible] Packer at [illegible] 2033'

Formation	Color	Hard or Soft	Top	Base	Result
Soil	Dark	S	0	10	
Red Rock	Red	S	10	60	
Slate	White	S	60	80	
Lime	Dark	H	80	100	
Sand	White	H	100	140	
Slate	White	S	140	155	
Red Rock	Red	S	155	171	
Lime	Dark	H	171	200	
Red Rock	Red	S	200	210	
Sand	Dark	H	210	230	
Lime	Dark	H	230	290	
Red Rock	Red	S	290	310	
Lime	Grey	H	310	460	
Sand	White	H	460	485	
Red Rock	Red	S	485	490	
Lime	Black	H	490	530	
Red Rock	Red	S	530	550	
Lime	Gray	H	550	575	
Sand	White	H	575	600	
Slate	Black	S	600	610	
Red Rock	Red	S	610	635	
Lime	Grey	H	635	695	
Sl.&Shells	Bl.	S	695	715	
Sand	Grey	H	715	733	
Slate	Black	S	733	760	
Red Rock	Red	S	760	775	
Lime	Dark	H	775	860	
Slate	Black	S	860	875	
L.Dunkard	White	H	875	915	
Slate	Black	S	915	925	
Slate	White	S	925	995	
Lime	White	H	995	1050	
Slate	Black	S	1050	1065	
B.Dunkard	Dark	H	1065	1140	
Slate	Black	S	1140	1155	
Sand	Grey	H	1155	1240	
Slate	Black	S	1240	1265	
Gas Sand	Light	H	1265	1375	
Slate	Black	S	1375	1410	
Sand	Dark	H	1410	1454	
Slate	Black	S	1454	1480	
Sand	Dark	H	1480	1500	
Slate	Black	S	1500	1590	
1st Salt	Dark	H	1590	1635	
Slate	Black	S	1635	1665	
2nd Salt	Dark	H	1665	1680	
Slate	White	S	1680	1720	
Lime	Black	H	1720	1768	
Slate	Black	S	1768	1819	Sh.Oil
Maxon Sand	White	H	1819	1841	1825
Slate	Black	S	1841	1843	
Sand	White	H	1843	1854	Gas
Slate	White	S	1854	1880	1831-
Red Rock	Red	S	1880	1885	1835
Lime	Dark	H	1885	1912	16/10W
Red Rock	Red	S	1912	1916	1-½opng.
Big Lime	Black	H	1916	2060	
Big Injun	White	H	2060	2134	Gas
Slate	White	S	2134	2211	2110-
TOTAL DEPTH				2211	2127-
					8/10 M.
					1-½"
					opng.

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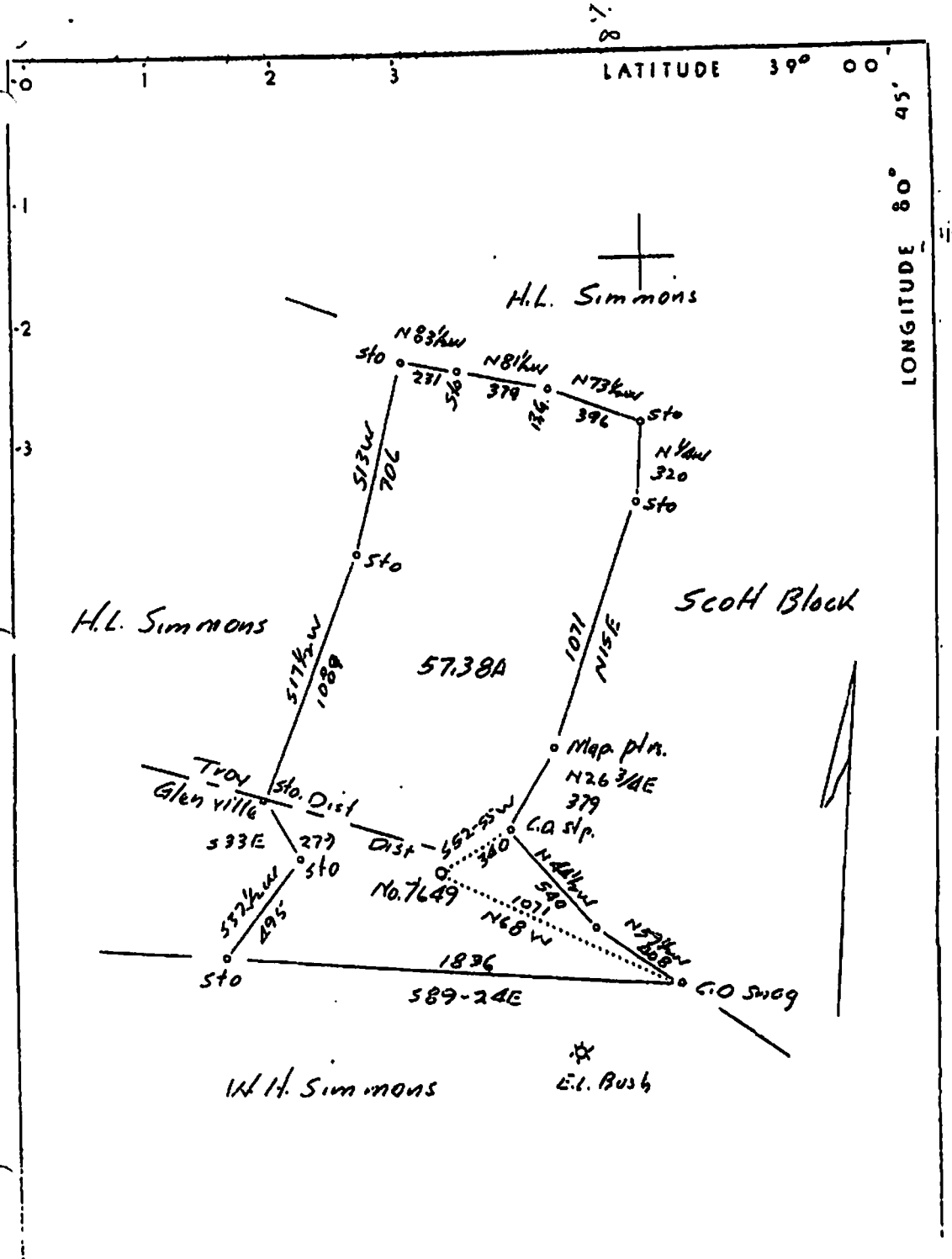
WV Department of
Environmental Protection

2100299P



Company Pittsburgh & W.Va. Gas Co.

Address 608 Union Bank, Clarksburg, W.Va.

Farm H.L.Simmons

Tract Acres 57.38 Lease No. 81615

Well (Farm) No. 1 Serial No. 7649

Elevation (Spirit Level) 1342.0 V.A.

Quadrangle Glenville

County Gilmer District Glenville

Engineer James D.Jeffries

Engineer's Registration No.

File No. Drawing No.

Date 1-20-38 Scale 1"=500'

STATE OF WEST VIRGINIA
Department of Mines
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP

File No. GL-299

+ 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.

15152

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2100299P

WW-4-A
Revised 6/07

1) Date: July 21, 2015
2) Operator's Well Number
607649 (Simmons #7649)
3) API Well No.: 47 - 021 - 00299
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: Evelyn Jean Roberts Revocable Living Trust
Address: 1608 Westerfield Road
Virginia Beach, VA 23455

(b) Name:
Address:

(c) Name:
Address:

6) Inspector: Danny Mullins
Address: 124 Big Trace Fork Road
Harts, WV 25524
Telephone: (304) 932-6844

5) (a) Coal Operator:
Name: None
Address:

(b) Coal Owner(s) with Declaration
Name: Will E. Morris Heirs Trust
JP Morgan Chase Bank, N.A., (Trustee)
Address: P. O. Box Drawer 99084
Fort Worth, TX 76199-0084

Name:
Address: See Attachment

(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 21st day of July, 2015
Misty S. Christie Notary Public
My Commission Expires: 2/20/18

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Office of Oil and Gas
JUL 24 2015
WV Department of
Environmental Protection

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.

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Misty S Christie
1207 Briercliff Rd
Bridgeport, WV 26330
My Commission Expires February 20, 2018

2100299P

WW2-A

Additional Coal Owners

Guy Simmons, Jr.
6251 Vadis Road
Alum Bridge, WV 26321-9687

Black Gold Group, Ltd.
Box 85
Strasburg, OH 44680-0085

Betty L. Hardman
469 Park Street
Oak Hill, WV 25901-2111

Marge Ann Hatcher
5980 W. Pine Circle
Crystal River, FL 34429-7579

S. A. Smith & C. B. Morris Trust
a/k/a Smith-Morris Trust
Bank One, WV, N.A., Trustee
P. O. Box 99084
Fort Worth, TX 76199-0084

William K. Simmons
2428 Alice Road
Cox's Mills, WV 26342-8145

EQT Production Company
EQT Plaza
625 Liberty Avenue
Suite 1700
Pittsburgh, PA 15222

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2100299P

Operator's Well Number: **607649 (Simmons #7649)**

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The well operator named on the attached page WW-4(B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inpsector is notified. Which date shall not be less than five days after the dat on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of OIl & Gas

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on the obverse side of this applicaiton

Note: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned operator _____/ owner_____/ lessee_____ of the coal under this well location has examined this proposed plugging work order. The undersigned has not no objection to the work proposed to be done at this location, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 7-23-15

By: _____

Its: _____

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Environmental Protection

2100299P

WW-9
Revised 2/03

Page ____ of ____
2) Operator's Well Number
607649 (Simmons #7649)
3) API Well No.: 47 021 - 00299

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: Collins Run Quadrangle: Glenville

Elevation: 1345 ft. County: Gilmer District: Glenville

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.

Proposed Disposal Method for Treated Pit Wastes:

X 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 ____

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 21st day of July, 2015

Misty S. Christie Notary Public

My Commission Expires 2/20/18

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Misty S Christie
1207 Briercliff Rd
Bridgeport WV 26330
My Commission Expires February 20, 2018

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2100299 P

OPERATOR'S WELL NO.:
607649 (Simmons #7649)

LEGEND

Property Boundary

Diversion

Road

Spring

Wet Spot

Planned Fence

Drain Pipe with size in inches

Water Way

Existing Fence

Stream

Cross Drain

Open Ditch

Artificial Filter Strip

Rock

North

N

Building

Water well

W

Drill site

Pit with Cut Walls

Pit with Compacted Walls

Area of Land Application of Pit Waste

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

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

DM

Area II

Seed Type	lbs/acre
Red Fescue	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: _____

Comments: _____

Title: _____ Date: _____

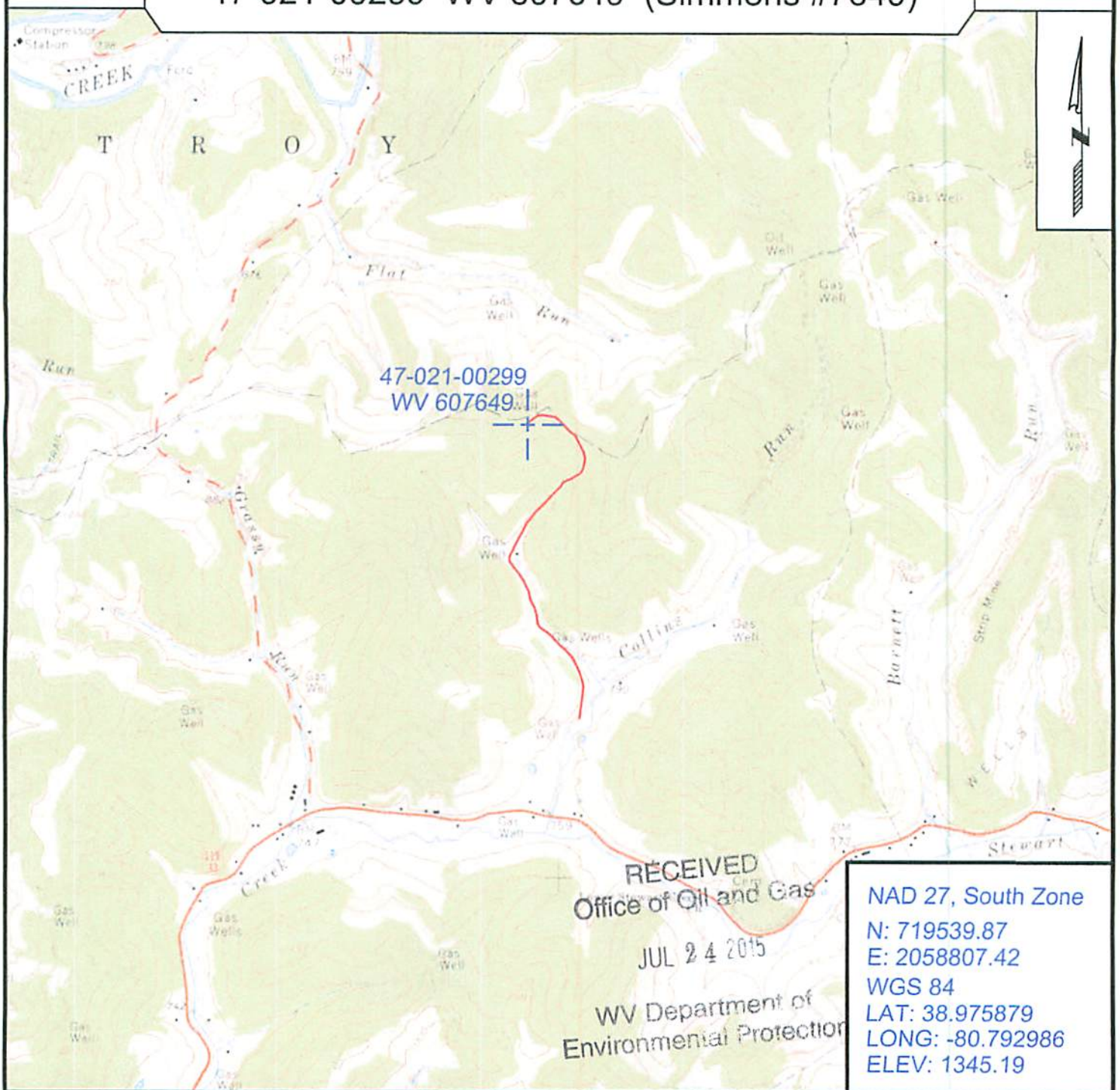
Field Reviewed? _____ Yes _____ No

2100299P

Topo Quad:	Glenville 7.5'	Scale:	1 " = 2000'
County:	Gilmer	Date:	July 6, 2015
District:	Glenville	Project No:	25-19-00-07

47-021-00299 WV 607649 (Simmons #7649)

Topo



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Environmental Protection

NAD 27, South Zone
N: 719539.87
E: 2058807.42
WGS 84
LAT: 38.975879
LONG: -80.792986
ELEV: 1345.19

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

2100299P

WW-7
8-30-06

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

API: 47-021-00299 **WELL NO.:** WV 607649 (Simmons #7649)

FARM NAME: H. L. Simmons

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Gilmer **DISTRICT:** Glenville

QUADRANGLE: Glenville 7.5'

SURFACE OWNER: Evelyn Jean Roberts Revocable Living Trust

ROYALTY OWNER: Will E. Morris Heirs Trust, et al.

UTM GPS NORTHING: 4314120

UTM GPS EASTING: 517932 **GPS ELEVATION:** 410 m (1345 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.

RECEIV
Office of Oil
JUL 2
WV Department of
Environmental Protection

Signature | PS # 2100 Title | 7/7/15 Date

2100299P

POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY.
LEASE NAME AND WELL No. Simmons #7649 - WV 607649 - API No. 47-021-00299.

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 607649.

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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

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

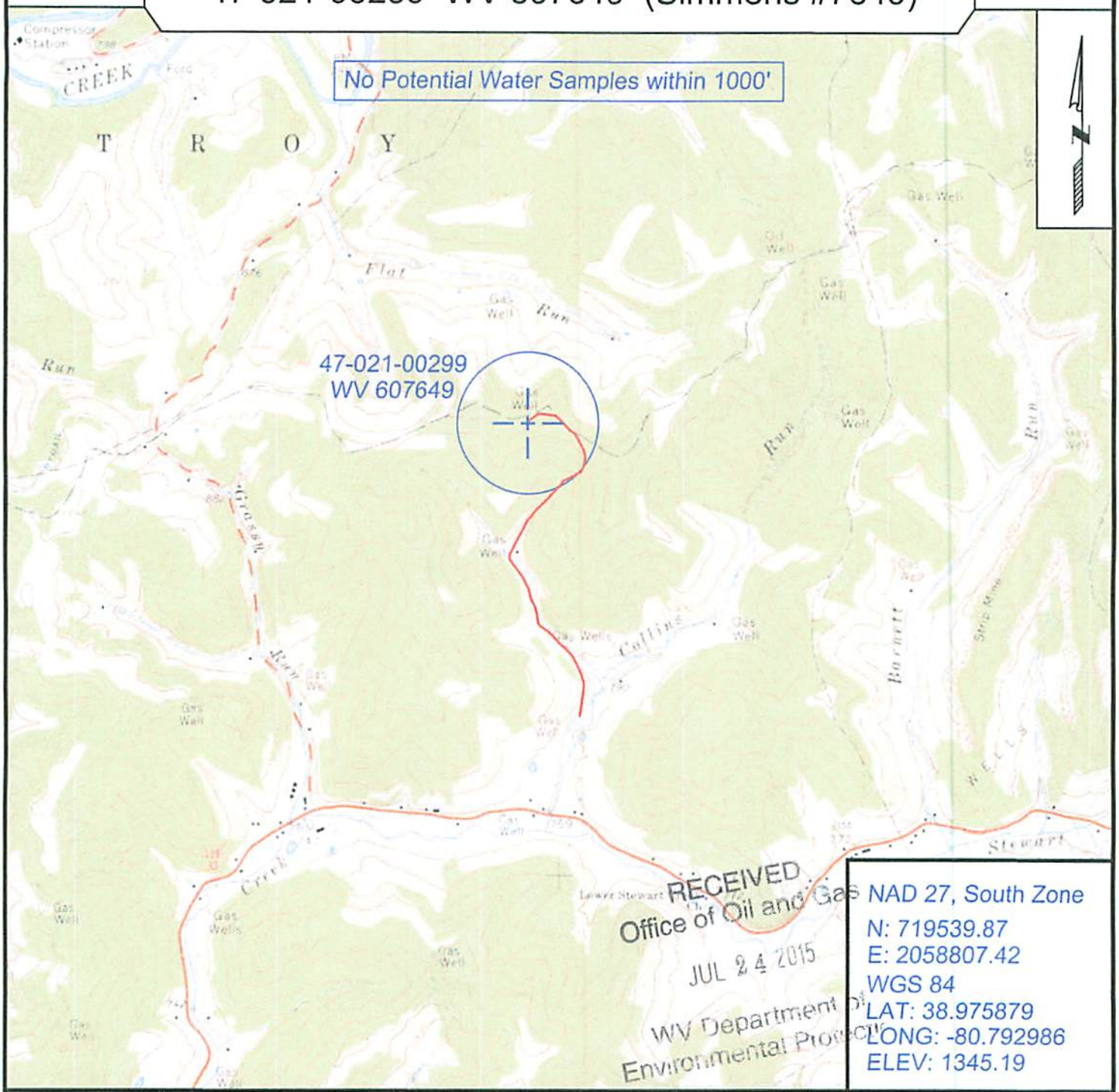
ALLEGHENYSURVEYS.COM

2100299P

Topo Quad:	Glenville 7.5'	Scale:	1 " = 2000'
County:	Gilmer	Date:	July 6, 2015
District:	Glenville	Project No:	25-19-00-07

Water

47-021-00299 WV 607649 (Simmons #7649)



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237 Birch River Road
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FAX: (304) 649-8608

PREPARED FOR:

EQT Production Company

P.O. Box 280
Bridgeport, WV 26330