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

Friday, November 04, 2016
WELL WORK PERMIT
Vertical / Plugging - 2

EQT PRODUCTION COMPANY
120 PROFESSIONAL PLACE
BUILDING II
BRIDGEPORT, WV 26330

Re: Permit approval for 7989 (1475)
47-021-00021-00-00

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: 7989 (1475)
Farm Name: LOWTHER, J.S.
U.S. WELL NUMBER: 47-021-00021-00-00
Vertical / Plugging - 2
Date Issued: 11/4/2016

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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 within two years of the date of issuance of this permit.

21 00021A

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

Date: July 12, 2016
Operator's Well
Well No. 607989 (J. S. Lowther #7989)
API Well No.: 47 021 - 00021

CK # 20662 $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 X Liquid Injection ____ Waste Disposal: ____
If Gas, Production X Or Underground storage ____ Deep ____ Shallow X

5) Elevation: 936 ft. Watershed: Bear Fork
Location: District: Troy County: Gilmer Quadrangle: 224

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

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

8) Oil & Gas Name: Address: Danny Mullins, 220 Jack Acres Road, Buckhannon, WV 26201

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 7-18-16

2100021P

PLUGGING PROGNOSIS

J.S.Lowther#1-1475
607989
API# 47-021-00021-00
District, Troy
Gilmer County, WV

BY: R Green
DATE: 7/5/16

CURRENT STATUS:
TD @ 1907'
Elevation @ 936'

16" conductor @ 13'
10"casing @ 175'
8 1/4"casing @ 875'
6 5/8"casing @ 1818' (set on packer @ 1818')
3" tubing @ 1907' (set on packer @ 1893')

Fresh Water @60'&105'
Saltwater@ none reported.
1st Salt Sand @1180'
Oil Shows, none reported
Gas shows @ 1898'to 1907'
Coal @ None reported

1. Notify inspector, Danny Mullins @ 304-932-6844, 24 hrs. prior to commencing operations.
2. TIH wireline, check TD, locate 3" X 6 5/8" packer, and shoot 3" tbg off at top of packer.
3. Spot 20bbls of gelled water, set 400' C1A cement plug , 1893' to 1493', TOOH 3" tbg. (Gas show @ 1898', 3" packer, 6 5/8" casing seat, Maxton Sand@ 1685')
4. WOC 8 hrs. Tag TOC, add additional C1A cement if necessary.
5. Free point 6 5/8" casing, cut casing @ free point, TOOH casing.
6. Set 100' C1A cement plug 50' in/out of casing cut, perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
7. Gel hole from casing cut plug to 1200', set 400', C1A cement plug 1200' to 800'. (1st salt sand, 8 1/4" casing seat & elevation).
8. Free point 8 ¼" casing, cut casing at free point, TOOH casing, Set 100' C1A cement plug 50' in/out of casing cut, perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
9. Gel hole from casing cut plug to 500', set 200' C1A cement plug 500' to 300'.
10. Free point 10" casing (if present), cut casing @ free point, TOOH casing.
11. Set 300' C1A cement plug 300' to surface.
12. Erect monument with API #, date plugged, company 6 digit ID#, and company name.
13. Reclaim road, location to WV-DEP specifications.

JUL 13 2016

OK gmm

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Gil-21

WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Section

PRELIMINARY DATA SHEET NO. 1

Lease 12388

File No..... Well No. 1475

CARNEGIE NATURAL GAS Company, of 962 Frick Bldg. Annex

Pittsburgh, Penna. on the J. S. Lowther Farm

containing 135 acres. Location

Troy District, in Gilmer County, West Virginia.

The surface of the above tract is owned in fee by J. S. Lowther, widower

of Auburn, W.Va. address, and the mineral rights are owned by

J. S. Lowther of Auburn, W.Va.

The oil and gas privileges are held under lease by the above named company, and this well is drilled under permit No. Gil - 21 issued by the West Virginia Department of Mines, Oil and Gas Section,

October 6 19 30

Elevation of surface at top of well, 1010 ~~Strictx~~ Barometric.

The number of feet of the different sized casings used in the well.

16 feet 13" size. Wood conductor

175 feet 10" size, csg. 1907 feet 3" sized ~~csg.~~ Tubing

875 feet 8¼" size, csg. feet sized csg.

1818 feet 6-5/8" size, csg. feet sized csg.

Anchor packer of 8¼ x 6-5/8" size, set at 1818

Anchor packer of 6-5/8 x 3" size, set at 1893

in casing perforated at feet to feet.

in casing perforated at feet to feet.

Coal was encountered at None feet; thickness -- inches, and at None

feet; thickness -- inches; and at None feet; thickness -- inches.

Liners were used as follows: (Give details)

November 19, 1930.
Date.

Approved CARNEGIE NATURAL GAS COMPANY., Owner.

By [signature]
(Title) Land Agent

Received
Office of Oil & Gas
JUL 13 2016

2100021P

CARNEGIE NATURAL GAS ..... Company

962 Frick Bldg., Annex. ..... Address

Pittsburgh, Penna. .....

COMPLETION DATA SHEET
NO. 2
FORMATION RECORD

J. S. Lowther Well No. 1-1475 Lease No. 12388

Name	Color	Character	Oil, Gas or Water	Top	Bottom	Thickness	Total Depth	Remarks
		Conductor			16			
		Waynesburg Coal						
		Mapleton Coal		None				Water CO-105 8 Bailer per Hr
		Pittsburgh Coal		None				
		Cow Run Sand		775	800			
		Little Dunkard		870	965			
		Big Dunkard		None				
		Gas Sand		1125	1145			
		1st Salt Sand		1180	1225			
		2nd Salt Sand		1420	1445			
		3rd Salt Sand		1585	1635			
		Maxton Sand		1685	1713			
		Little Lime		1750	1787			
		Pencil Cave		1797	1808			
		Big Lime		1808	1860			
		Big Injun		1860				Gas at 1898-1907 Was not drilled thru sand.
							1907	

Well was not shot at ..... feet; well was shot at ..... feet.

Fresh water at ..... feet; salt water at ..... feet.

Well was producing GAS hole.

November 19, 1930. ..... Approved CARNEGIE NATURAL GAS COMPANY.
Date Owner

NOTE: All bottom formations must be noted as indicated above and all key-rocks and oil and gas sands must be recorded under their proper geological names in the district as well as any local names commonly used in the district for such strata.

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Office of Oil & Gas
JUL 13 2016

Plat of the Proposed Location of Well No. 1475 of the

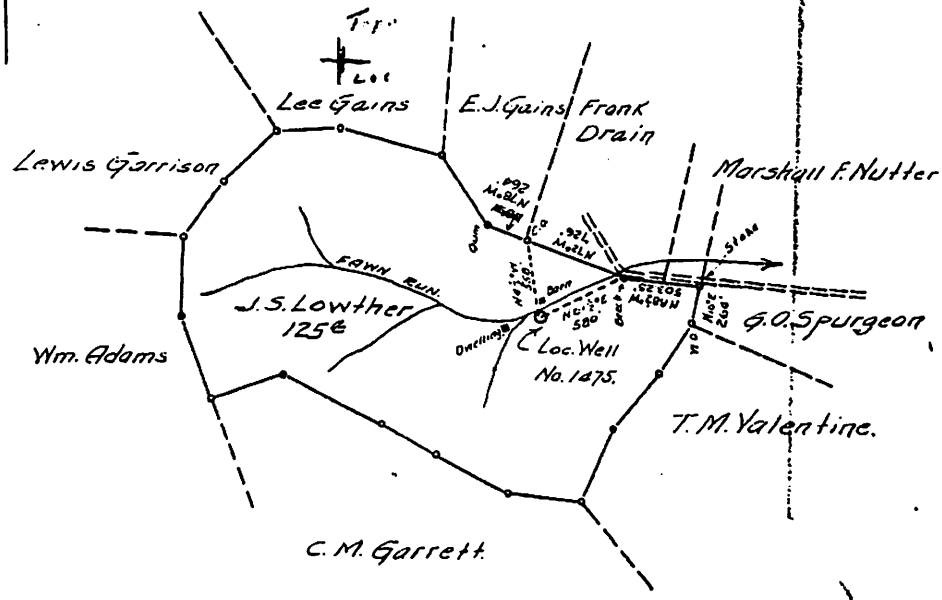
2100021 P 5

The J. S. Lowther Farm, containing of 125 Acres

Located in Troy Dist. Gilmer Co.

West Virginia Holbrook S.E. Quadrangle.

9-12-30. Date 980' Elevation 1"=1000'



[illegible] certify that [illegible] and [illegible] all the information [illegible] and belief, required by the oil and gas section of the [illegible] West Virginia.

[illegible] Engineer.

State of Pennsylvania } S. S.
County of Allegheny }

Acknowledged before me a Notary Public this 23rd day of Sept. 1930

[illegible]

Received
Office of Oil & Gas
JUL 13 2016

2100021P

WW-4-A
Revised 6/07

1) Date: July 12, 2016
2) Operator's Well Number
607989 (J. S. Lowther #7989)
3) API Well No.: 47 - 021 - 00021
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: Ronald Spurgeon
Address: 531 Henrie Lane
Williamstown, WV 26187

(b) Name: Gary Spurgeon
Address: 184 Fairview Road
Jane Lew, WV 26378

(c) Name: Diane Myers
Address: 2737 Life's Run Road
Jane Lew, WV 26378

6) Inspector: Danny Mullins
Address: 220 Jack Acres Road
Buckhannon, WV 26201
Telephone: (304) 932-6844

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

(b) Coal Owner(s) with Declaration
Name: Ronald Spurgeon
531 Henrie Lane
Address: Williamstown, WV 26187

Name: See Attachment
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 July, 2016
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.

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

Received
Office of Oil & Gas
JUL 13 2016

2100021P

WW2-A

Additional Coal Owners

Gary Spurgeon
184 Fairview Road
Jane Lew, WV 26378

Diane Myers
2737 Life's Run Road
Jane Lew, WV 26378

Received
Office of Oil & Gas
JUL 13 2016

2100021P

WW-9
Revised 2/03

Page ____ of ____
2) Operator's Well Number
607989 (J. S. Lowther #7989)
3) API Well No.: 47 021 - 00021

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: Bear Fork Quadrangle: 224

Elevation: 936 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.? 20 ~~10~~ ml

Proposed Disposal Method for Treated Pit Wastes:

- ____ Land Application
- ____ Underground Injection - UIC Permit Number ____
- X Reuse (at API Number) - Various ____
- X 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 ____

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 12th day of July, 2016

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

Received
Office of Oil & Gas
JUL 13 2016

OPERATOR'S WELL NO.:
607989 (J. S. Lowther #7989)

LEGEND

Property Boundary

Diversion

Spring

Wet Spot

Road

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		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

Received
Office of Oil & Gas
JUL 13 2016

2100021P

EQT Production Water plan
Offsite disposals

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

Received
Office of Oil & Gas
JUL 13 2016

2100021P

WW-9
Revised 5/16

2) Operator's Well Number
607989 (J.S. Lowther #7989)

3) API Well No.: 47 021 - 00021

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
FLUIDS / CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name: EQT PRODUCTION COMPANY OP CODE: 306686

Watershed (HUC 10): Bear Fork Quadrangle: Auburn

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? Yes x No___

If so, please describe anticipated pit waste: **Formation Fluids**

Will a synthetic liner be used in the pit? Yes X No ___ Is so, what ml.? **10 ml**

Proposed Disposal Method for Treated Pit Wastes:

___ Land Application (if selected provide a completed form WW-9-GPP)
___ Underground Injection (UIC Permit Number ___)
X Reuse (at API Number -- Various)
X Off Site Disposal Permit (Supply form WW-9 for disposal location. See attachment)
___ Other: (Explain ___

Will closed loop system be used ? If so, describe: ___

Drilling medium anticipated for this well? (vertical and horizontal)? Air, freshwater, oil based, etc. ___

If oil based, what type? Synthetic, petroleum, etc. ___

Additives to be used in drilling medium? ___

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? ___

Permittee shall provide written notice to the Office of the Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, 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 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.

Received
Office of Oil & Gas
AUG 19 2016

Company Official Signature ___

Company Official (Typed Name) Victoria J Roark

Company Official Title Permitting Supervisor - WV

Subscribed and sworn before me this 16 day of August, 2016

Rebecca L Wanstreet Notary Public

My Commission Expires 4-7-2020

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
REBECCA L. WANSTREET
EQT PRODUCTION COMPANY
PO BOX 280
BRIDGEPORT, WV 26330
My commission expires April 07, 2020

2100621P

OPERATOR'S WELL NO.:
607989 (J. S. Lowther #7989)

LEGEND

Property Boundary

Diversion

Spring

Wet Spot

Road

Planned Fence

Drain Pipe with size in inches

Water Way

Existing Fence

Stream

Cross Drain

Open Ditch

Artificial Filter Strip

Rock

DM

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 _____

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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
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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

EQT Production Water plan
Offsite disposals

Waste Management - Meadowfill Landfill
Rt. 2, Box 68 Dawson Drive
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304-326-6027
Permit #SWF-1032-98
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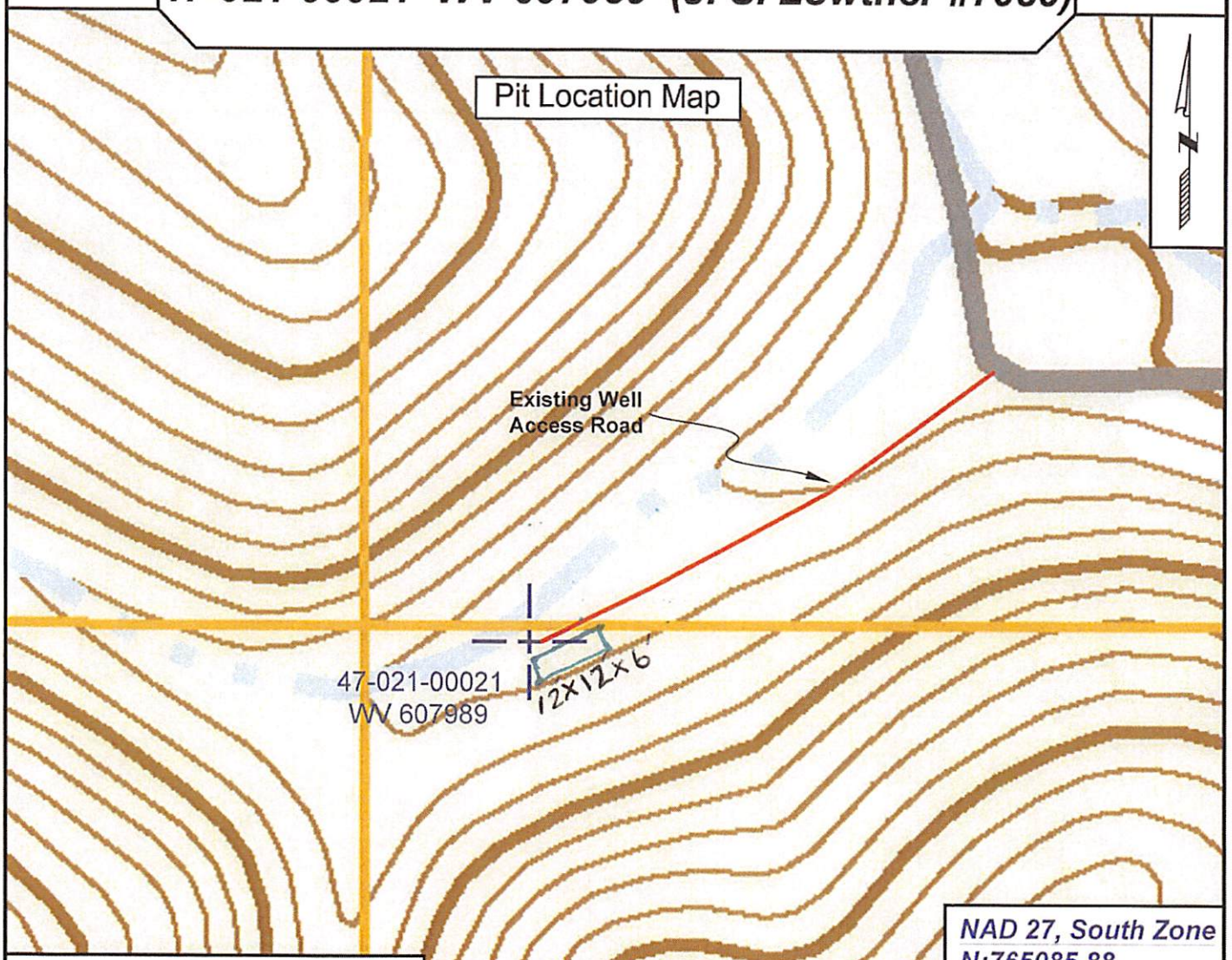
Waste Management - Northwestern Landfill
512 E. Dry Road
Parkersburg, WV 26104
304-428-0602
Permit #SWF-1025 WV-0109400
Approval #100833WV

Received
Office of Oil & Gas
AUG 19 2016

Topo Quad:	Auburn 7.5'	**Scale:**	1" = 200'
County:	Gilmer	**Date:**	August 12, 2016
District:	Troy	**Project No:**	25-19-00-07

47-021-00021 WV 607989 (J. S. Lowther #7989)



LEGEND

PIT-CUT WALLS

PIT-COMPACTED WALLS

AREA OF LAND APPLICATION OF PIT WASTE

NAD 27, South Zone
N:765085.88
E:2055963.80

WGS 84
LAT:39.100939
LONG:-80.802649
ELEV:936.36

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

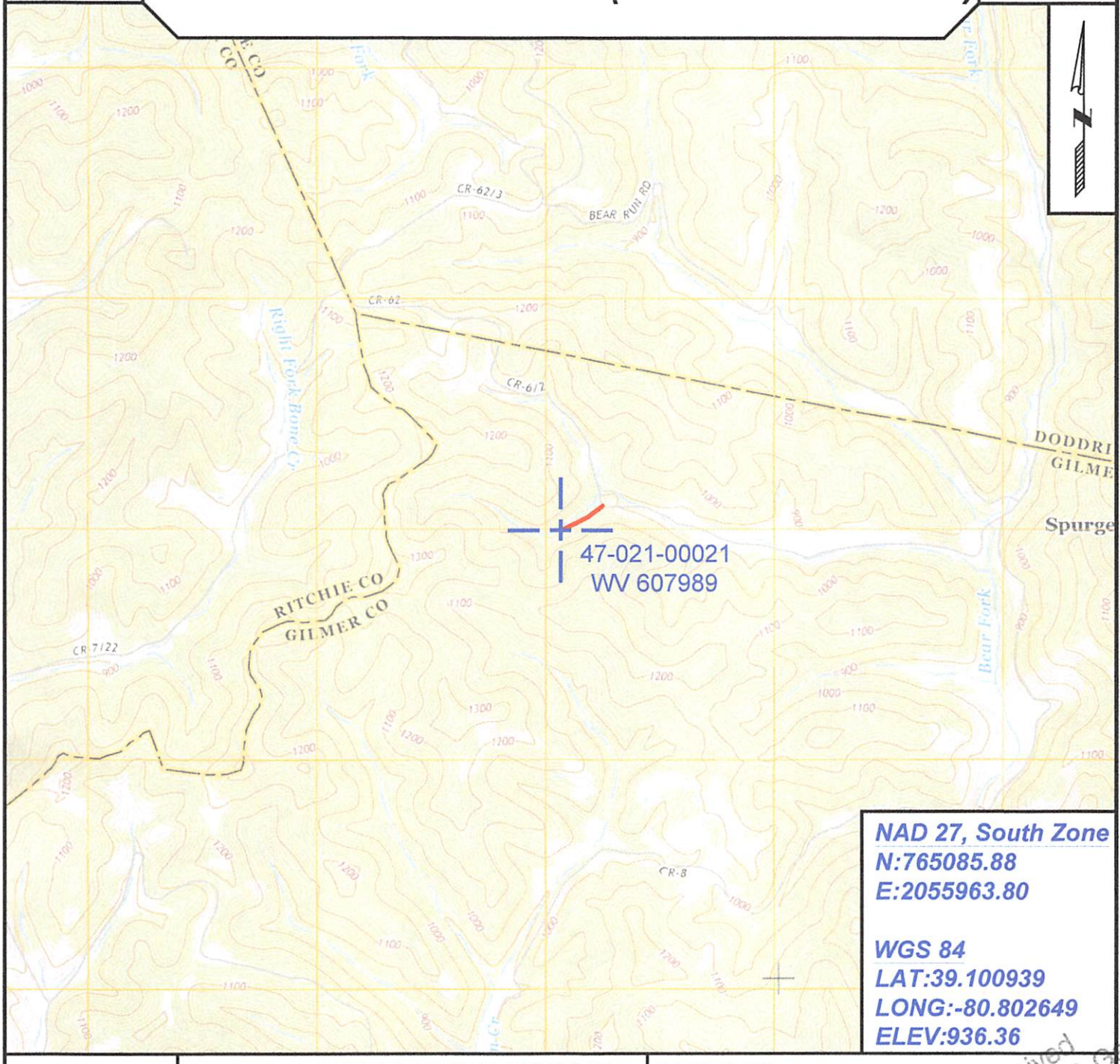
P.O. Box 280
Bridgeport, WV 26330

2106021P

Topo Quad:	Auburn 7.5'	**Scale:**	1" = 2000'
County:	Gilmer	**Date:**	June 16, 2016
District:	Troy	**Project No:**	25-19-00-07

47-021-00021 WV 607989 (J. S. Lowther #7989)

Topo



NAD 27, South Zone
N:765085.88
E:2055963.80

WGS 84
LAT:39.100939
LONG:-80.802649
ELEV:936.36

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

Received
Office of Oil & Gas
JUL 13 2016

2100021P

WW-7
8-30-06

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

API: 47-021-00021 **WELL NO.:** WV 607989 (J. S. Lowther #7989)

FARM NAME: J. S. Lowther

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Gilmer **DISTRICT:** Troy - 4

QUADRANGLE: Auburn 7.5' - 224

SURFACE OWNER: Ronald Spurgeon, et al.

ROYALTY OWNER: Ronald Spurgeon, et al.

UTM GPS NORTHING: 4327997

UTM GPS EASTING: 517065 **GPS ELEVATION:** 285 m (936 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.

Signature _____ Title PS # 2180 Date 6/22/16

Received
Office of Oil & Gas
JUL 13 2016

2100021P

POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY.
LEASE NAME AND WELL No. J. S. Lowther #7989 - WV 607989 - API No. 47-021-00021.

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 328 +/- Owner: Diane M. Myers, et al.
Address: 2737 Lifes Run, Jane Lew, WV 26378. Phone No. _____.
Comments: _____.

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JUL 13 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 Lights Addition Drive
Martinsburg, WV 25404
phone: 304-901-2162
fax: 304-901-2182

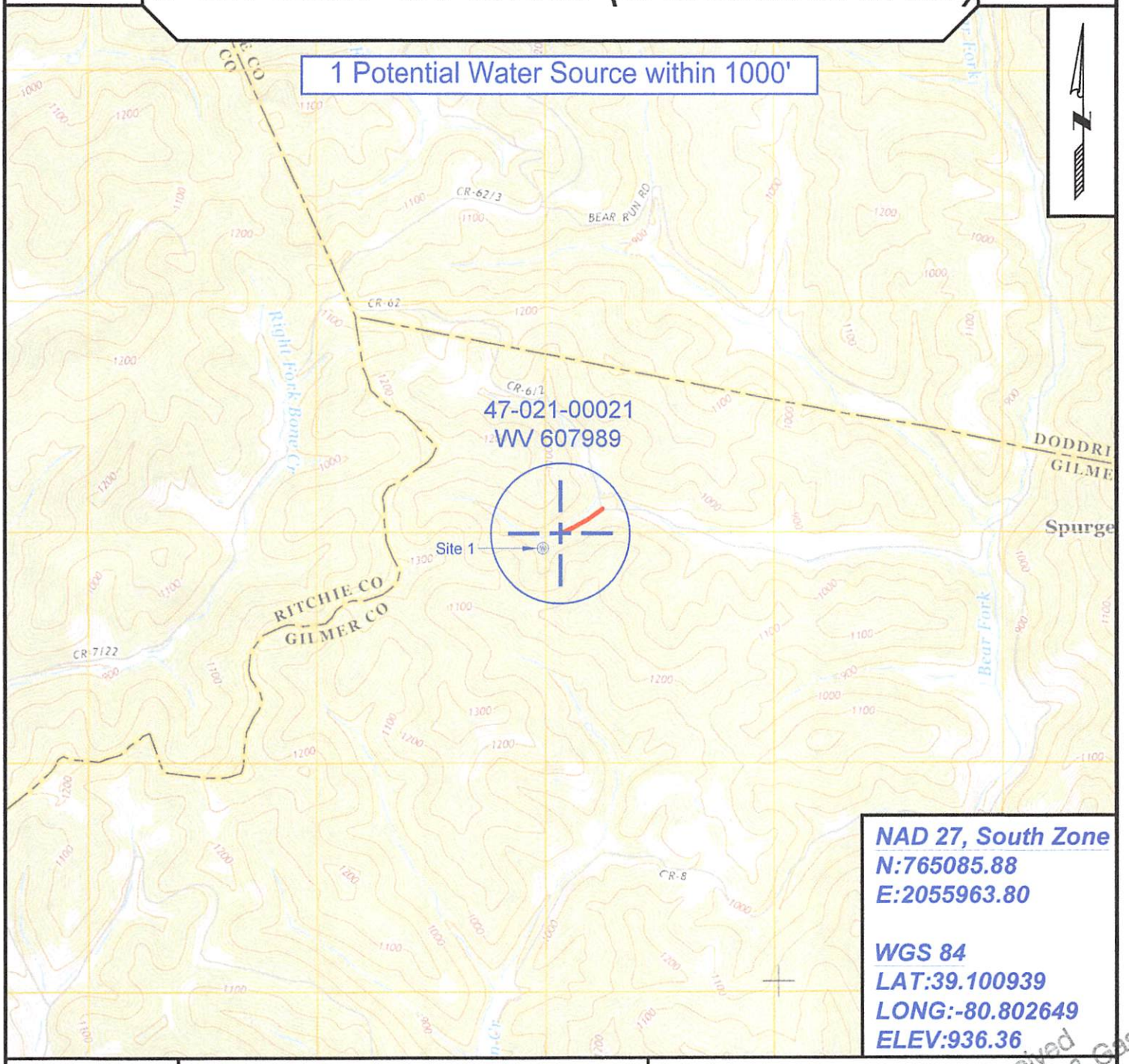
ALLEGHENYSURVEYS.COM

2100021A

Topo Quad:	Auburn 7.5'	**Scale:**	1" = 2000'
County:	Gilmer	**Date:**	June 16, 2016
District:	Troy	**Project No:**	25-19-00-07

Water

47-021-00021 WV 607989 (J. S. Lowther #7989)



NAD 27, South Zone
N:765085.88
E:2055963.80

WGS 84
LAT:39.100939
LONG:-80.802649
ELEV:936.36

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

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