



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 30, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8503977, 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: 4622

Farm Name: WILSON

API Well Number: 47-8503977

Permit Type: Plugging

Date Issued: 06/30/2015

Promoting a healthy environment.

07/03/2015

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: May 5, 2015
Operator's Well _____
Well No. 604622 (S. Wilson #4622)
API Well No.: 47 085 - 03977

CK 19287
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: 897 ft. Watershed: Buzzard Run
Location: Clay County: Ritchie Quadrangle: Pullman
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 David Cowan
Name: 1597 Devil Hole Road
Address: Harrisville, WV 26362-7543
- 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 David W. Cowan Date 5-11-15

PLUGGING PROGNOSIS - Weston

Wilson, S.J. #4622 (604622)

Ritchie Co., WV
 API # 47-085-03977
 Quad: Clay

BY: Craig Duckworth
 DATE: 2/10/15

CURRENT STATUS:

10" csg @ 260'
 8 1/4" csg @ 950'
 6 5/8" csg @ 1730'

Fresh Water @ 25' **Salt Water @ None reported**
1" Salt Sand @ 1130' **Coal @ 445' to 447'**
Gas Shows @ 1830'-1835' Big Injun: 1704' Big Lime
Oil Shows @ None reported
Stimulation: None reported
Elevation: 905'

1. Notify State Inspector, _____, 24 hrs. Prior to commencing operations.
2. TIH w/ tbg @ 1898'; Set 218' CIA Cement Plug @ 1898' to 1680' (Big Injun @ 1830'-1835' & Big Lime @ 1704' & 6 5/8" csg @ 1730')
3. Set a 100' CIA Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below casing cuts. Do not omit any plugs
4. TOOH w/tbg Freepoint 6 5/8" Cut 6 5/8" @ freepoint TOOH with 6 5/8"
5. TIH w/ tbg @ 1680'; gel hole @ 1680' to 1130'
6. TOOH w/ tbg @ 1130'; Set 275' CIA Cement Plug @ 1130' to 855' (1" Salt Sand @ 1130' ; 8 1/4" @ 950' & Elev. @ 905')
7. TOOH w/ tbg @ 855'; gel hole @ 855' to 600'
8. TOOH w/ tbg @ 600'; Set 100' CIA Cement Plug @ 600' to 500 (Safety Plug)
9. TOOH w/ tbg @ 500'; gel hole @ 500' to 300'.
10. TOOH w/ tbg @ 300'; Set 300' CIA Cement Plug @ 300' to 0 (Surface & 10" csg @ 260' & FW @ 25')
11. Set a 100' CIA Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below casing cuts. Do not omit any plugs
12. Top off as needed
13. Set Monument to WV-DEP Specifications
14. Reclaim Location & Road to WV-DEP Specifications

Dul
 5-11-15



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Permit No. 85-03977

Oil or Gas Well "GAS"
(KIND)

Company <u>Pittsburgh & West Va Gas Company.</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>Clarksburg, West Va.</u>	Size			
Farm <u>Sarah J. Wilson</u> Acres	16.			Kind of Packer
Location (waters) <u>Holbrook N/W. 2-1</u>	18.			
Well No. <u>4622</u> Elev. <u>905 est.</u>	10.	260'	260'	Size of
District <u>Clay</u> County <u>Ritchie</u>	8 3/4.	950'	950'	Depth set
The surface of tract is owned in fee by	6 3/8.	1730'	1730'	
Address	5 3/16.			Perf. top.
Mineral rights are owned by	3.			Perf. bottom.
Address	2.			Perf. top.
Drilling commenced <u>February 9th, 1918</u>	Liners Used			Perf. bottom.
Drilling completed <u>March 7th, 1918</u>				
Date Shot From To				
With				
Open Flow /10ths Water in Inch	CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____			
/10ths Merc. in Inch	COAL WAS ENCOUNTERED AT <u>445</u> FEET <u>2 1/2</u> INCHES			
Oil _____ Cu. Ft.	_____ FEET _____ INCHES _____ FEET _____ INCHES			
Rock Pressure _____ lbs _____ hrs.	_____ FEET _____ INCHES _____ FEET _____ INCHES			
Oil _____ bbls., 1st 24 hrs.				
Fresh water _____ feet _____ feet				
Salt water _____ feet _____ feet				

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
ay		Soft	0	8			
nd	White	Hard	8	100	Water	25'	2 Bailers Hr.
me	"	"	100	170			
nd	"	Soft-Hard	170	255			
ate	Dark	Soft	255	265			
me	White	"	265	290			
ed Rock	Red	"	290	320			
ate	Dark	Soft	320	340			
me	White	Hard	340	380			
ate	Red	Soft	380	440			
me	White	Hard	440	445			
oal	Black	Soft	445	447			
me	White	Hard	447	500			
ate	Light	Soft	500	515			
nd	White	Hard	515	535			
ate	Pink	Soft	535	564			
ry	White	Hard	564	579			
lat.	Red	Soft	579	585			
nd	White	Hard	585	620			
ate	Red	Soft	620	700			
me	White	Hard	700	720			
ate	Red	Soft	720	735			
nd	White	Hard	735	750			
ate	"	Soft	750	775			
late	Red	"	775	800			
me	White	Hard	800	825			
ate&Shells	Dark	Soft&Hard	825	950			
as Sand	White	Hard	950	960			
ate&Shells	Dark&Light	Soft&Hard	960	1070			
nd	White	Hard	1070	1110			
ate	Dark	Soft	1110	1130			
st lt Sand	White	Hard	1130	1160			
late	"	Soft	1160	1185			
nd, Salt Sand	"	Hard	1185	1280			
ate&Shells	Light-Dark	S&H	1280	1350			
rd, Salt Sand	White	Hard	1350	1390			
ate&Shells	Lt&Hard	S&H	1390	1475			
nd	White	Hard	1475	1540			
ate&Shells	Dark	Soft&Hard	1540	1645			

RECEIVED
Office of Oil and Gas
MAY 07 2015
WV Department of
Environmental Protection

07/03/2015

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Big Sand	White	Hard	1645	1654			
Bl...	"	Soft	1654	1665			
Little Lime	"	Hard	1665	1695			
Pencil Cave	Dark	Soft	1695	1700			
Big Lime	White	Hard	1700	1759	Gas	1704'	
Big Injun	"	"	1759	1850	Gas	1830-1835'	
Plate Shells	"	Hard&Soft	1850	1898			
Total Depth				1898

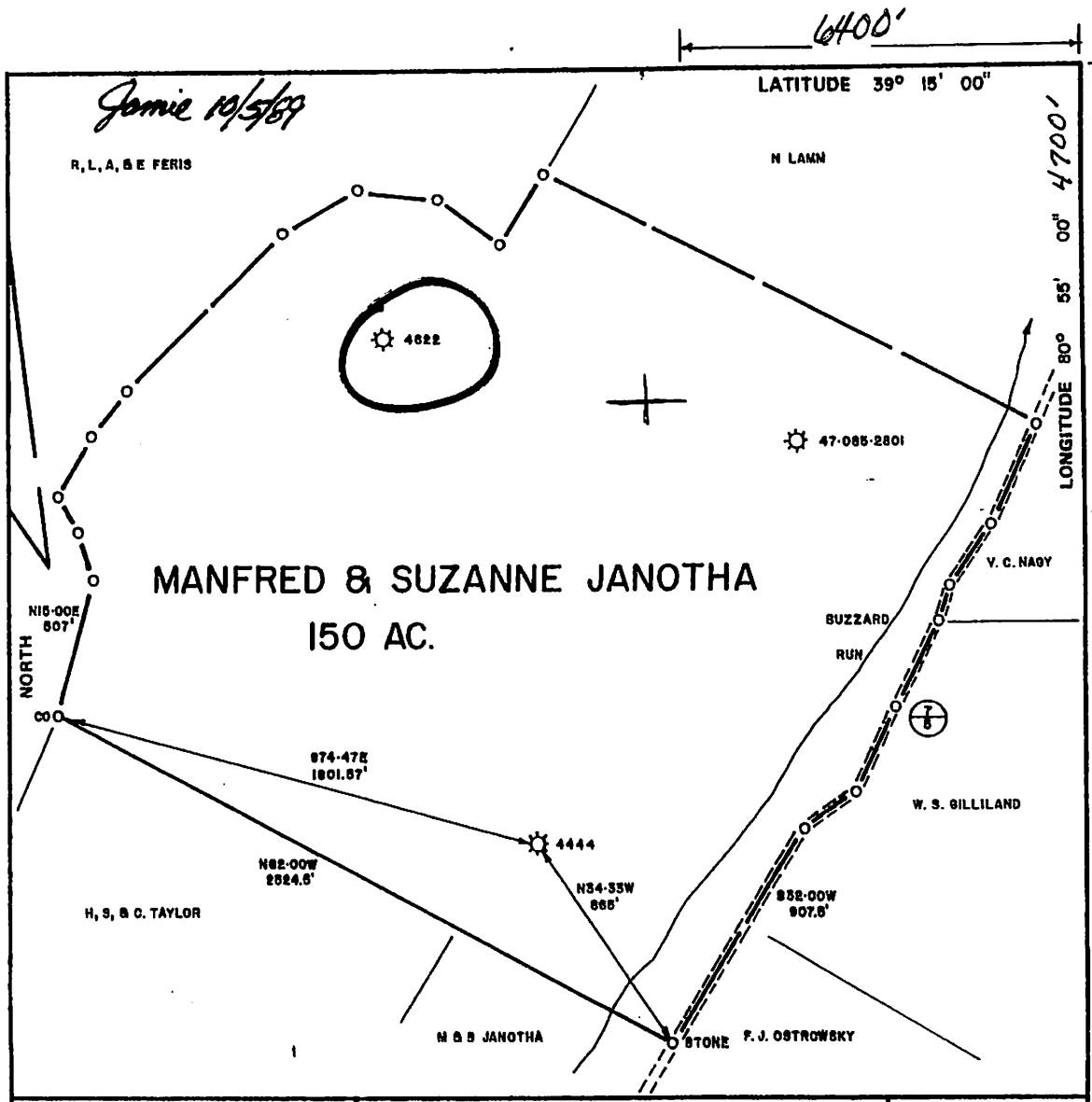
RECEIVED
Office of Oil and Gas
MAY 6 7 2015

DATE OF WELL LOGGING September 19, 1946
PITTSBURGH & WEST VIRGINIA COMPANY, Owner

APPROVED By _____ (Title)

07/03/2015

8503977P



Wilson # 4622
047-085-03977

District: Clay Water Shed: Buzzard Run
Elev: 905 est County: Ritchie
Quad: Pullman

* This is not a true plat. For office use only.

Pullman 2

07/03/2015

8503977A

WW-4-A
Revised 6/07

1) Date: May 5, 2015
2) Operator's Well Number 604622 (S. Wilson #4622)
3) API Well No.: 47 085 - 03977
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 Suzanne Janotha
Address 1873 Buzzard Run
Pennsboro, WV 26415

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector David Cowan
Address 1597 Devil Hole Road
Harrisville, WV 26362-7543
Telephone (304) 389-3509

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

(b) Coal Owner(s) with Declaration
Name Suzanne Janotha
Address 1873 Buzzard Run
Pennsboro, WV 26415

(c) Coal Lessee with Declaration
Name None
Address _____

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

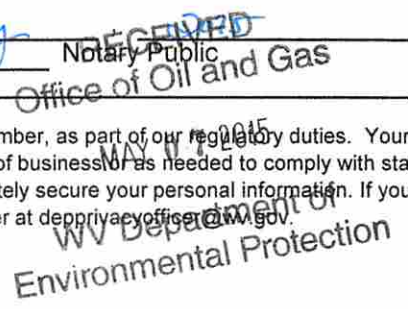
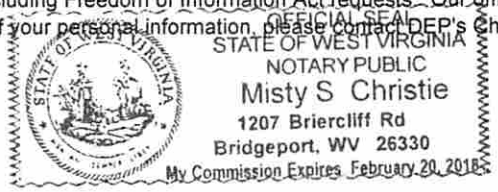
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
 - (2) The plat (surveyor's map) showing the well location on Form WW-6.
- The reason you received these documents is that you have 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 5th day of May
Misty S. Christie Notary Public
My Commission Expires: 2/20/15

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@dmw.gov.



07/03/2015

850397P

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Office of Oil and Gas
MAY 07 2015
WV Department of
Environmental Protection

US-POSTAGE
\$07.61

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041L10228892

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage	

Postmark
Here

Suzanne Janotha
1873 Buzzard Run
Pennsboro, WV 26415

Sent To

Street, Apt. No.
or PO Box No.
City, State, ZIP

#604622 Plugging Permit

PS Form 3800, August 2006

See Reverse for Instructions

Suzanne Janotha
1873 Buzzard Run
Pennsboro, WV 26415

#604622 Plugging Permit



7014 0150 0001 0654 1656
7014 0150 0001 0654 1656

ark

WV 26330

PS Form 3811, July 2013

Domestic Return Receipt

2. Article Number
(Transfer from service label)
7014 0150 0001 0654 1656

1. Article Addressed to:
Suzanne Janotha
1873 Buzzard Run
Pennsboro, WV 26415

3. Service Type
 Certified Mail®
 Priority Mail Express™
 Registered Mail
 Insured Mail
 Return Receipt for Merchandise
 Collect on Delivery

4. Restricted Delivery? (Extra Fee)
 Yes
 No

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

B. Received by (Printed Name)
 C. Date of Delivery

X Agent Addressee

07/03/2015

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: Buzzard Run Quadrangle: Pullman

Elevation: 897 ft. County: Ritchie District: Clay

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:

- 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*

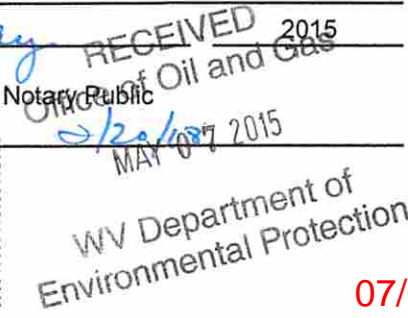
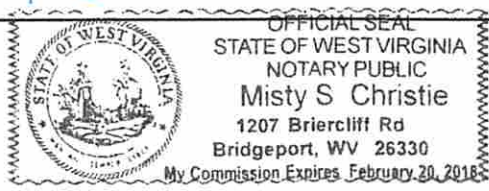
Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 5th day of May

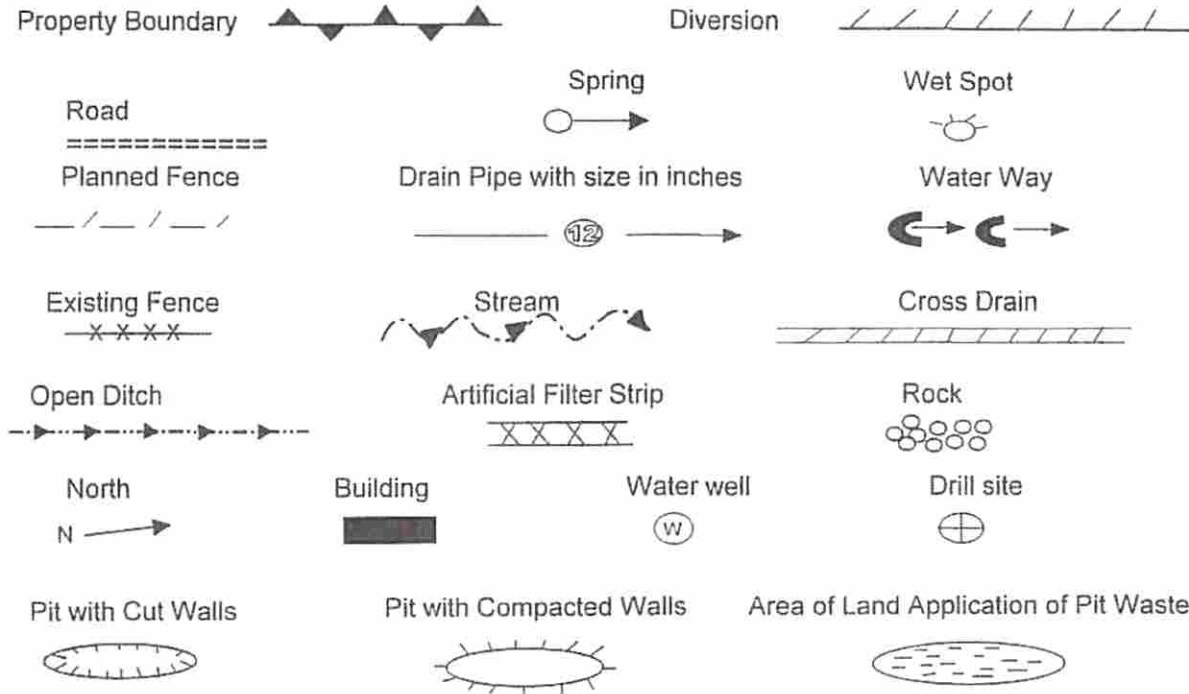
Misty S. Christie Notary Public

My Commission Expires _____



OPERATOR'S WELL NO.:
604622 (S. Wilson #4622)

LEGEND



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH 6.0
 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: [Signature]

Comments: Reclaim to W.U. DEP standards

Title: oil & gas inspector Date: 5-11-15
 Field Reviewed? Yes No

8503977 P

Topo Quad: Pullman 7.5'

Scale: 1" = 2000'

County: Ritchie

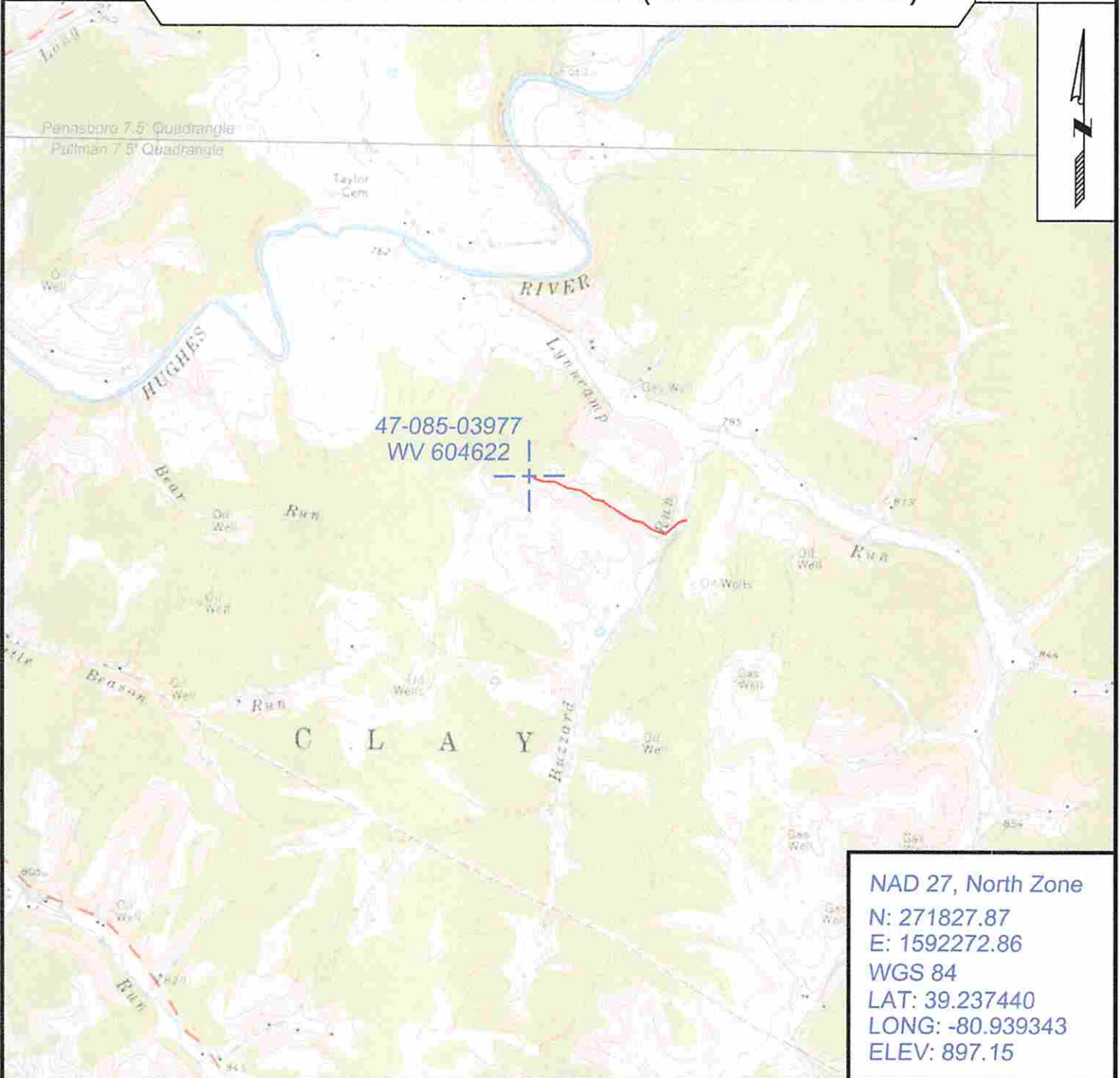
Date: March 23, 2015

District: Clay

Project No: 68-38-00-08

47-085-03977 WV 604622 (S. Wilson #4622)

Topo



47-085-03977
WV 604622

NAD 27, North Zone
 N: 271827.87
 E: 1592272.86
 WGS 84
 LAT: 39.237440
 LONG: -80.939343
 ELEV: 897.15



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

07/03/2015

WW-7
8-30-06



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

API: 47-085-03977 WELL NO.: WV 604622 (S. Wilson #4622)

FARM NAME: Wilson

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Ritchie DISTRICT: Clay

QUADRANGLE: Pullman 7.5'

SURFACE OWNER: Suzanne Janotha

ROYALTY OWNER: Ashley E. Ness, Jr., et al.

UTM GPS NORTHING: 4343128

UTM GPS EASTING: 505235 GPS ELEVATION: 273 m (897 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

PS # 2180
Title

RECEIVED
Office of Oil and Gas

MAY 07 2015
3/25/15
Date
WV Department of
Environmental Protection

I
NOW

Operator: EQT PRODUCTION COMPANY
API: 8503977
WELL No: 4622

* Well is on An Agreed Order *

Reviewed by: gwm Date: 6/30/15

05 Day End of Comment: 05/12/15

CHECKLIST FOR FILING A PERMIT

Plugging

ck # 19287
\$100^{ew}

- WW-4B
- Inspector signature on WW-4B
- Completion / Well Records of Previous Work
- WW-4A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- Surface Owner Waiver
- Coal Owner / Lessee / Operator Waiver
- WW-9 (Page 1) (Notarized)
- Inspector Signature on WW-9 (Optional)
- Topographic Map of location of well
- WW-7

OR

- Mylar Plat (Surface owner on plat matches WW-4A)
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- \$100.00 check (~~\$0.00 if no pit~~)

07/03/2015