



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 29, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8503974, 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: 4548
Farm Name: TAYLOR
API Well Number: 47-8503974
Permit Type: Plugging
Date Issued: 06/29/2015

Promoting a healthy environment.

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.

CK# 19119
10000

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

Date: March 31, 2015
Operator's Well _____
Well No. 604548 (E. Taylor #4548)
API Well No.: 47 085 - 03974

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: 994 ft. Watershed: Lynn Camp
Location: Clay County: Ritchie Quadrangle: Pennsboro
District: _____
- 6) Well Operator EQT Production Company 7) Designated Agent: Rex C. Ray
Address: 120 Professional Place Address: 120 Professional Place
Bridgeport, WV 26330 Bridgeport, WV 26330
- 8) Oil & Gas David Cowan 9) Plugging Contractor:
Name: 1597 Devil Hole Road Name: HydroCarbon Well Service
Address: Harrisville, WV 26362 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.

RECEIVED
Office of Oil and Gas
APR 02 2015

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

Dave Cowan (Ang Smith)
Date 6/18/15
phone

WV Department of
Environmental Protection



604548

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Permit No. 085 - 03974

Oil or Gas Well "GAS"
(CLASS)

Company Pittsburgh & West Va Gas Company.
Address Clarksburg, West Va.
Farm Edmond Taylor Acres _____
Location (waters) West Union S/W. 3-4
Well No. 4548 Elev. 997
District Clay County Ritchie
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced April 7, 1917
Drilling completed May 6, 1917
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.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
18			
10	178	178'	Size of
8 3/4	1173'	1173'	
8 1/2	1835'	1835'	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT 572 FEET 36 INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Rock	Red	Soft	0	25	Water	110'	
"	"	Soft&Hard	25	75			
te	"	Soft	75	100			
	White	"	100	125			
	Red	"	125	175			
	White	"	175	225			
e	Red	Hard	225	265			
te	White	Soft	265	280			
d	"	Soft	280	330			
te	Black	"	330	340			
e	White	Hard	340	380			
	Red	"	380	395			
	White	Hard	395	440			
	Red	Soft	440	480			
s	White	Hard	480	540			
	Red	"	540	555			
	White	"	555	572			
. Coal	Black	Soft	572	575			
te	Dark	"	575	590			
e	White	Hard	590	640			
te	"	Hard&Soft	640	720			
	Pink	Soft	720	730			
	Red	"	730	780			
s	White	Hard	780	805			
te	Pink	Soft	805	815			
e	Dark	Hard	815	865			
te	Pink	Soft	865	870			
e	White	Hard	870	900			
te	Dark	Soft	900	910			
	Red	"	910	930			
tle Dunkard	White	Hard	930	950			
te Lime	Pink	Hard&Soft	950	990			
et	Black	Soft	990	1005			
Dunkard	White	Hard	1005	1020			
et	Dark	Soft	1020	1060			
Sand	White	Hard	1060	1070			
	"	"	1070	1090			
se	Dark	Soft	1090	1140			

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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
late	White	Soft	1140	1230			
st. Salt Sand	"	Hard	1230	1290			
late	"	Soft	1290	1390			
nd. Salt Sand	"	Hard	1390	1435			
late	"	Soft	1435	1480			
nd	"	Hard	1480	1500			
late	"	Soft	1500	1540			
lt Sand	"	Hard	1540	1580	Ah. Oil	1552-1560'	
ate	Black	Soft	1580	1610			
nd	White	Hard-Close	1610	1630			
ate	"	Soft	1630	1703			
nd	"	Hard	1703	1720			
ate	"	Soft	1720	1738			
xon Sand	"	Hard Close	1738	1772			
ate	Black	Soft	1772	1782			
ttle Lime	Dark	Hard	1782	1806			
ate	"	Soft	1806	1808			
g Lime	White	Hard	1808	1873			
& Injun Sand	"	"	1873	1988	Gas	1883-1891'	
ate	Black	Soft	1988	2003	Gas	1974-1978'	
tal Depth.....			2003				

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April 23rd, 1946

Date 1946 APR 02 2015

APPROVED

PITTSBURGH & WEST VA GAS COMPANY.

By

(Title)

WV Department of
Environmental Protection

neopost
03/31/2015
US POSTAGE
\$0.40
FIRST-CLASS MAIL
0415000106548594
ZIP+4®
WV Department of Environmental Protection
APR 02 2015
Office of Oil and Gas

PHL 63-58

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Postage	\$	Postmark Here <i>mc</i>
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage		

Sent To: Steven J. and Janet M. Stanley
1410 Lynn Camp Road
Pennsboro, WV 26415

Street, Apt. No. or PO Box No.
City, State, ZIP
#604548 Plugging Permit

PS Form 3800, August 2006 See Reverse for Instructions

7014 0150 0001 0654 8594
7014 0150 0001 0654 8594

PS Form 3811, July 2013
Domestic Return Receipt

2. Article Number
(Transfer from service label)
7014 0150 0001 0654 8594

1. Article Addressed to:
Steven J. and Janet M. Stanley
1410 Lynn Camp Road
Pennsboro, WV 26415
#604548 Plugging Permit

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

A. Addressee

■ 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.

FIRST-CLASS MAIL
 03/31/2015
 \$07.40
 US POSTAGE

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 Office of Oil and Gas
 WV Department of Environmental Protection
 APR 02 2015
 ZIP 26030
 047L 0723892

85-3974P

CERTIFIED MAIL™



7014 0150 0001 0654 8600
 7014 0150 0001 0654 8600

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
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Postage	\$	me Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage &		

Sent To: Raymond G. and Dorothy Hardman
 16508 S. W. Two Wood Way
 Indiantown, FL 34958-3669

City, State, ZIP+4: #604548 Plugging Permit

PS Form 3800, August 2006

1. Article Addressed to:
 Raymond G. and Dorothy Hardman
 16508 S. W. Two Wood Way
 Indiantown, FL 34958-3669
 #604548 Plugging Permit

2. Article Number (Transfer from service label)
 7014 0150 0001 0654 8600

3. Service Type
 Certified Mail®
 Registered
 Priority Mail Express™
 Insured Mail
 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 Addressee

PS Form 3811, July 2013

USPS
03/11/2015
US POSTAGE

FIRST CLASS MAIL
\$03.29⁰



ZIP 26330
0411 10228892

05-3974P

David Cowan
1597 Devil Hole Road
Harrisville, WV 26362

#651791, #604548, #655276 & 651076 Plugging Permit

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POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. E. Taylor #4548 - WV 604548 - API No. 47-085-03974

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 920 +/- Owner: Michael Trammell
Address: 729 Lynn Camp Road, Pennsboro, WV 26415 Phone No. _____
Comments:

Site: 2 Spacing: 740 +/- Owner: Steven W. Stull
Address: 1 Corelogic Way DFW4-3, Westlake, TX 76262 Phone No. _____
Comments: Abandoned House

Site: 3 Spacing: 710 +/- Owner: Nathan Barnes
Address: 879 Lynn Camp Road, Pennsboro, WV 26415 Phone No. _____
Comments:

Site: 4 Spacing: 965 +/- Owner: Steven & Janet Stanley
Address: 553 Lynn Camp Road, Pennsboro, WV 26415 Phone No. _____
Comments: Pond

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 26054
phone: 304-724-5008
fax: 304-724-5010

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RANSON OFFICE
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Topo Quad: Pennsboro 7.5'

Scale: 1" = 2000'

County: Ritchie

Date: March 23, 2015

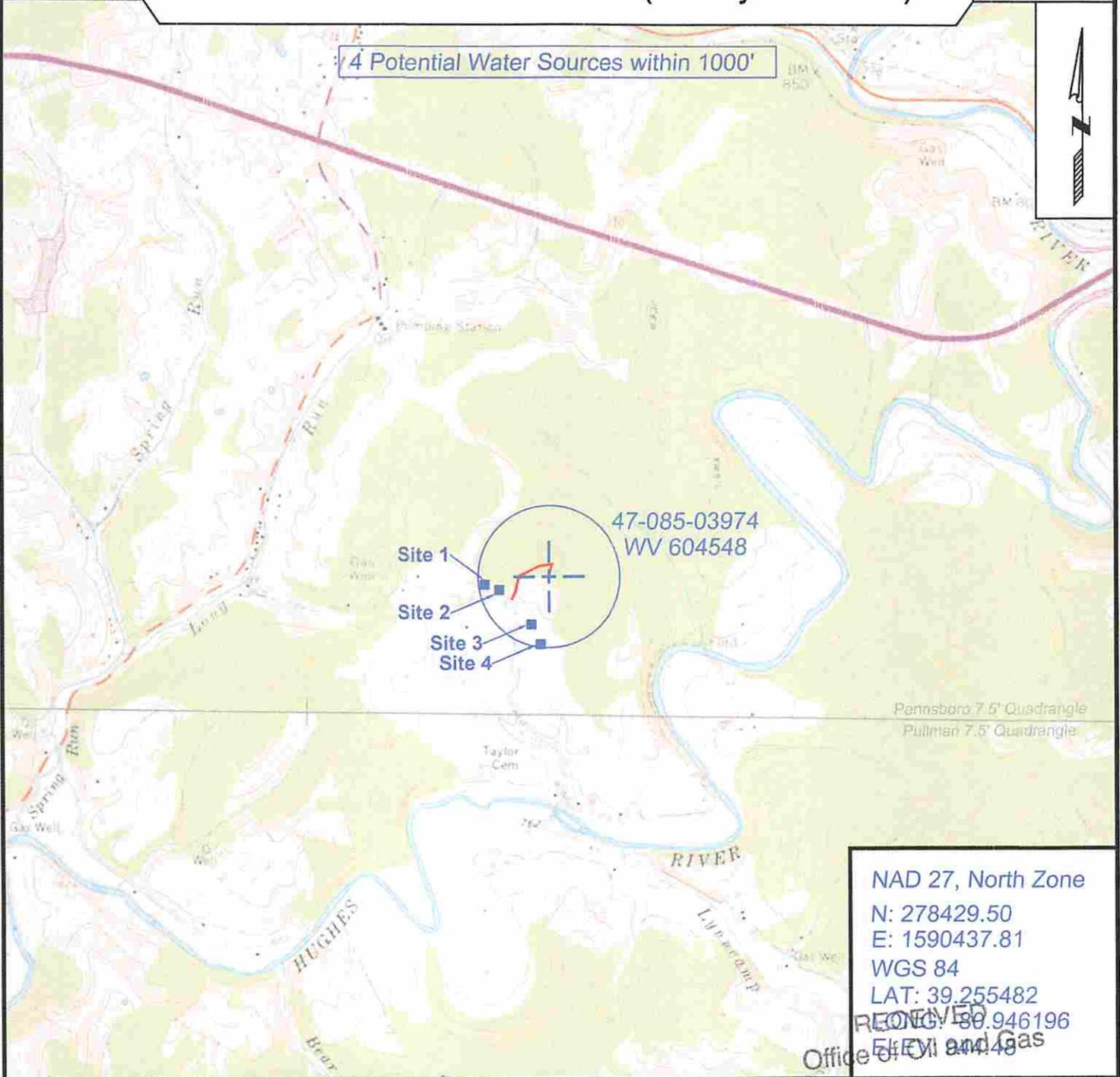
District: Clay

Project No: 68-38-00-08

Water

47-085-03974 WV 604548 (E. Taylor #4548)

4 Potential Water Sources within 1000'



NAD 27, North Zone
 N: 278429.50
 E: 1590437.81
 WGS 84
 LAT: 39.255482
 LONG: 80.946196
 Office of Oil and Gas



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
 W.V. Department of
 Environmental Protection
 P.O. Box 280
 Bridgeport, WV 26330
 APR 02 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: Lynn Camp Quadrangle: Pennsboro

Elevation: 994 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

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*

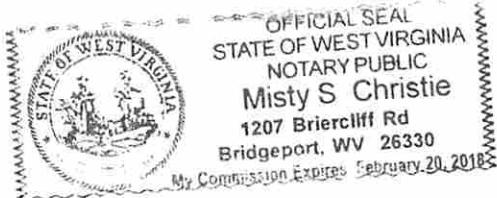
Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 31st day of March 2015

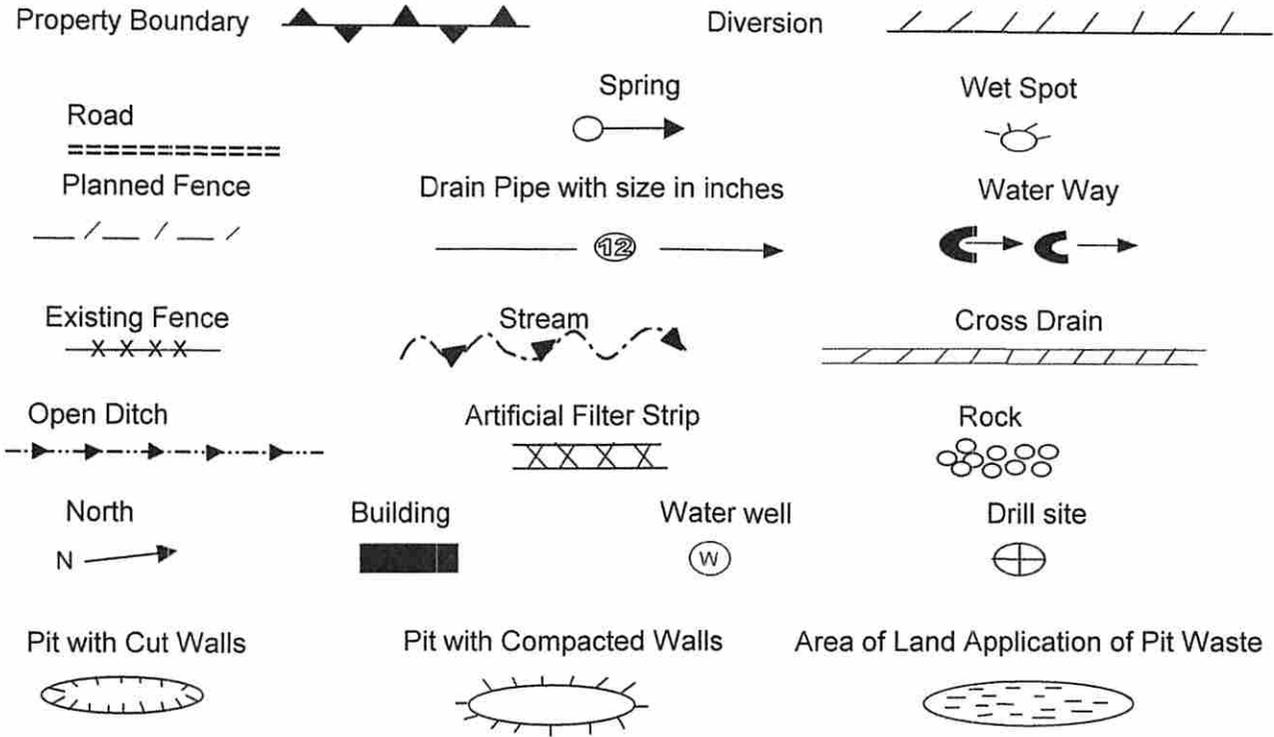
Misty S. Christie Notary Public

My Commission Expires 2/20/18



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WV Department of Environmental Protection

LEGEND



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: Dave Cowan by Gene Smith (phone)

Comments: _____

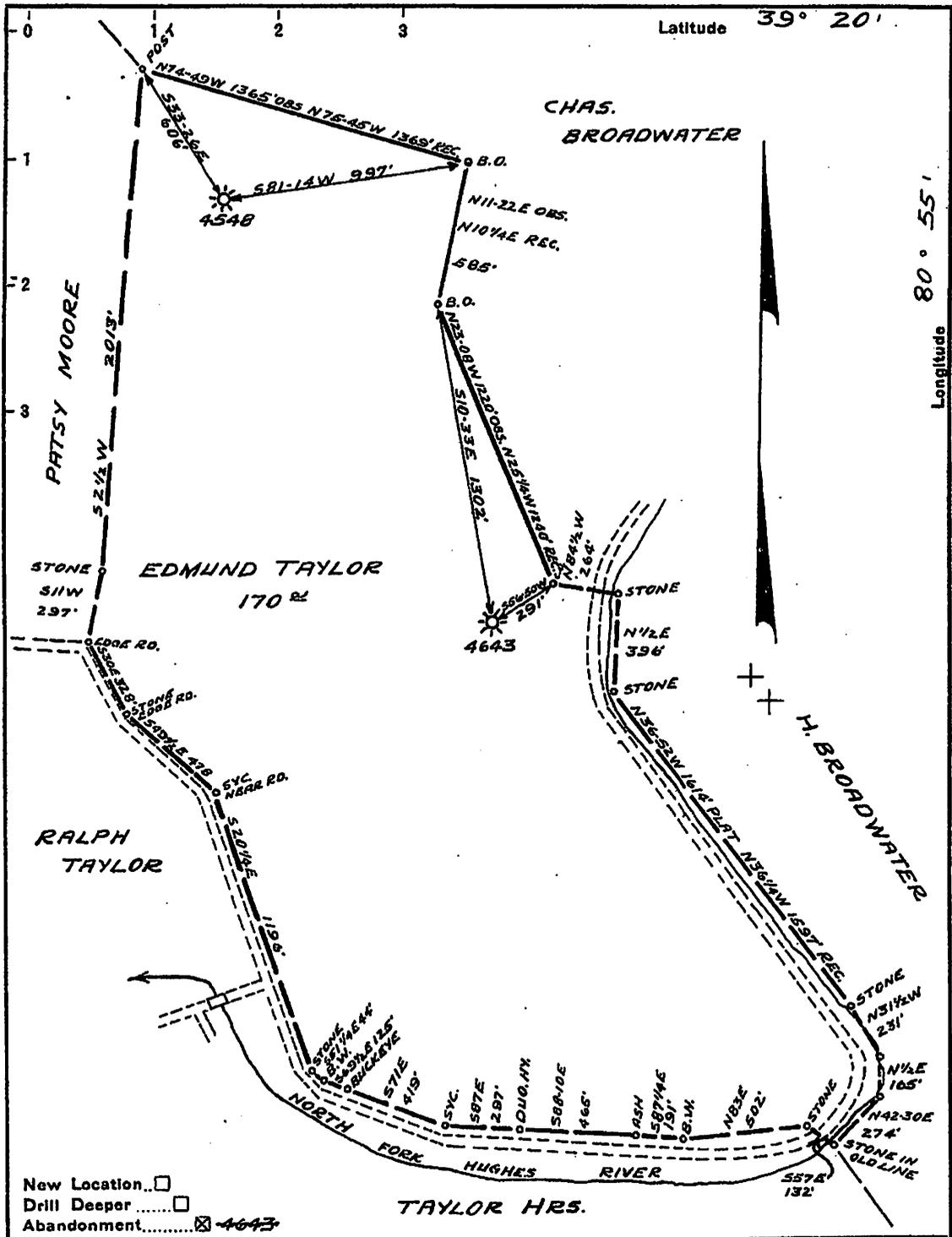
Title: Inspector
Field Reviewed? Yes No

Date: 6/18/15

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New Location
 Drill Deeper
 Abandonment 4643

Company PITTSBURGH E. W. VA. GAS CO.
 Address CLARKSBURG, W. VA.
 Farm EDMUND TAYLOR
 Tract _____ Acres 170 Lease No. 12937
 Well (Farm) No. 1 E-2 Serial No. 4548
 Elevation (Spirit Level) 4548 = 997' V.A. 4643 = 954'
 Quadrangle WEST UNION S.W. 34
 County RITCHIE District CLAY
 Engineer Kenneth B. Moore
 Engineer's Registration No. _____
 File No. D-32 P15 Drawing No. _____
 Date OCT. 24, 1947 Scale 1" = 500'

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

WELL LOCATION MAP RECEIVED
 FILE NO. _____

+ 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.

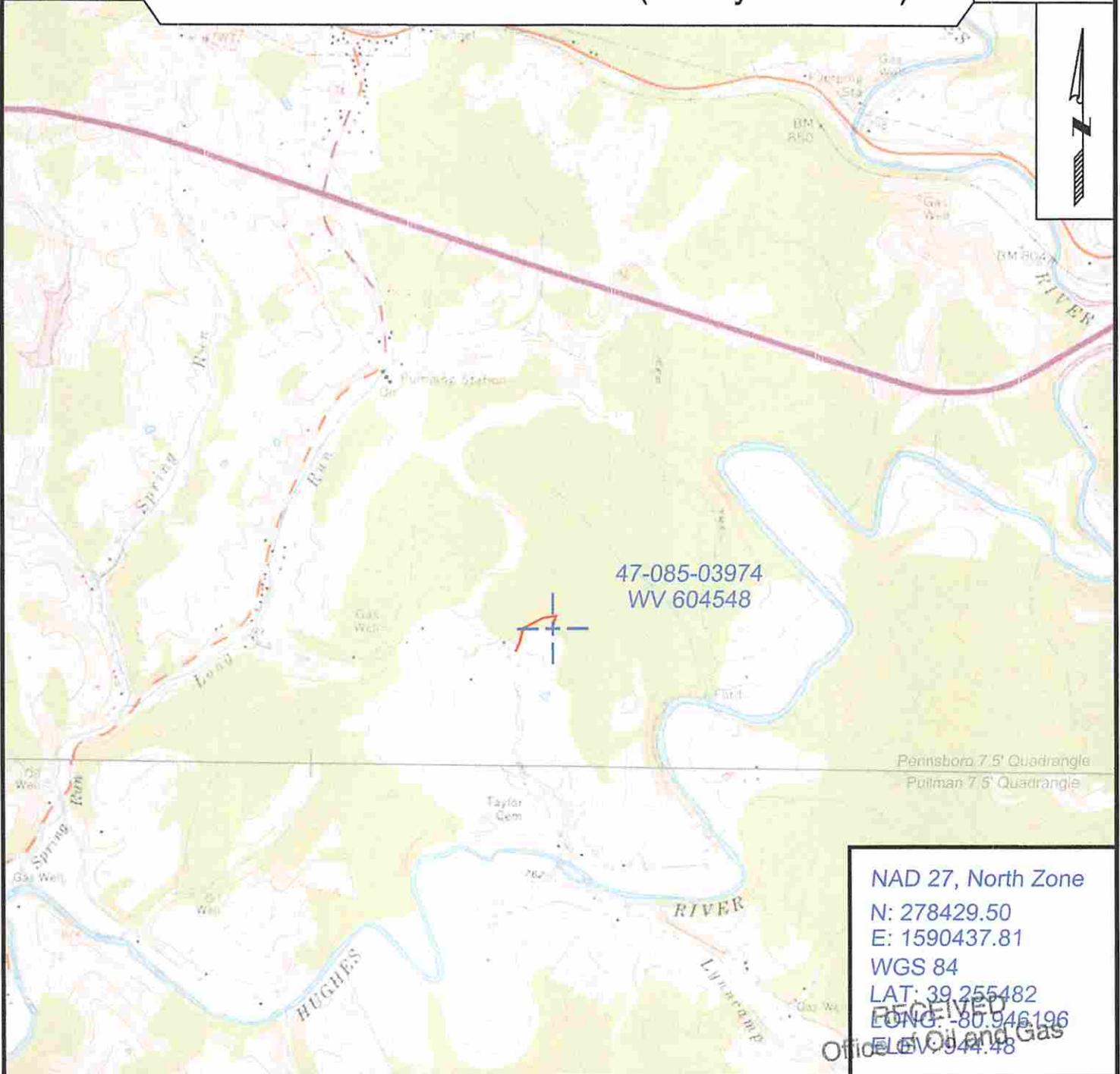
Office of Oil and Gas
 APR 02 2015
 WV Department of Environmental Protection

"OFFICIAL" TRACING CLOTH
 K & S Co., N.Y.

Topo Quad: Pennsboro 7.5' Scale: 1" = 2000'
 County: Ritchie Date: March 23, 2015
 District: Clay Project No: 68-38-00-08

47-085-03974 WV 604548 (E. Taylor #4548)

Topo



47-085-03974
WV 604548

Pennsboro 7.5' Quadrangle
Pulman 7.5' Quadrangle

NAD 27, North Zone
 N: 278429.50
 E: 1590437.81
 WGS 84
 LAT: 39.255482
 LONG: -80.946196
 ELEV: 944.48



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:

APR 02 2015

EQT Production Company

P.O. Box 280
 Bridgeport, WV 26330

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 WV Department of Environmental Protection



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

API: 47-085-03974 WELL NO.: WV 604548 (E. Taylor #4548)
FARM NAME: Taylor
RESPONSIBLE PARTY NAME: EQT Production Company
COUNTY: Ritchie DISTRICT: Clay
QUADRANGLE: Pennsboro 7.5'
SURFACE OWNER: Steven J. and Janet M. Stanley
ROYALTY OWNER: Raymond G. and Dorothy L. Hardman, et al.
UTM GPS NORTHING: 4345130
UTM GPS EASTING: 504642 GPS ELEVATION: 303 m (994 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:

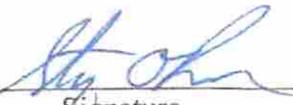
1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential
Real-Time Differential

Mapping Grade GPS : Post Processed Differential
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

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Office of Oil and Gas
Date 3/27/15 APR 02 2015
WV Department of
Environmental Protection

I

Operator: EQT PRODUCTION COMPANY
API: 8503974
WELL No: 4548
Reviewed by: GCS Date: 6/18/15
15 Day End of Comment: 04/07/15

**Well is on an Agreed Order*

CHECKLIST FOR FILING A PERMIT

Plugging

- 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) *# @ 19119*