



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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Wednesday, February 01, 2017
WELL WORK PERMIT
Vertical / Plugging

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

Re: Permit approval for 7504
47-005-00144-00-00

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: 7504
Farm Name: MITCHELL, W. H.
U.S. WELL NUMBER: 47-005-00144-00-00
Vertical / Plugging
Date Issued: 2/1/2017

Promoting a healthy environment.

02/03/2017

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: December 30, 2016
Operator's Well
Well No. 458671 (W. H. Mitchell W-7504)
API Well No.: 47 005 - 00144

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

\$100.00

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

Well Type: Oil _____ Gas X Liquid Injection _____ Waste Disposal: _____
If Gas, Production _____ X Or Underground storage _____ Deep _____ Shallow X

Elevation: 972 ft. Watershed: Turtle Creek
Location: Washington County: Boone Quadrangle: Madison 7.5'
District: _____

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

Oil & Gas Gary Kennedy
Name: 252 Circle Avenue
Address: Rainelle, WV 25962

9) Plugging Contractor:
Name: HydroCarbon Well Service
Address: PO BOX 995
Buckhannon, WV 26201

3) 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

Gary Kennedy

Date 1/12/17

PLUGGING PROGNOSIS

458671

Mitchell W-7504

API# 47-005-00144

District, Washington

Boone County, WV

BY: R Green

DATE: 11/9/16

CURRENT STATUS:**TD @ 1358'****Elevation @ 970'**

13" csg @ 14'

10" csg @ 184'

8 1/4" csg @ 923'

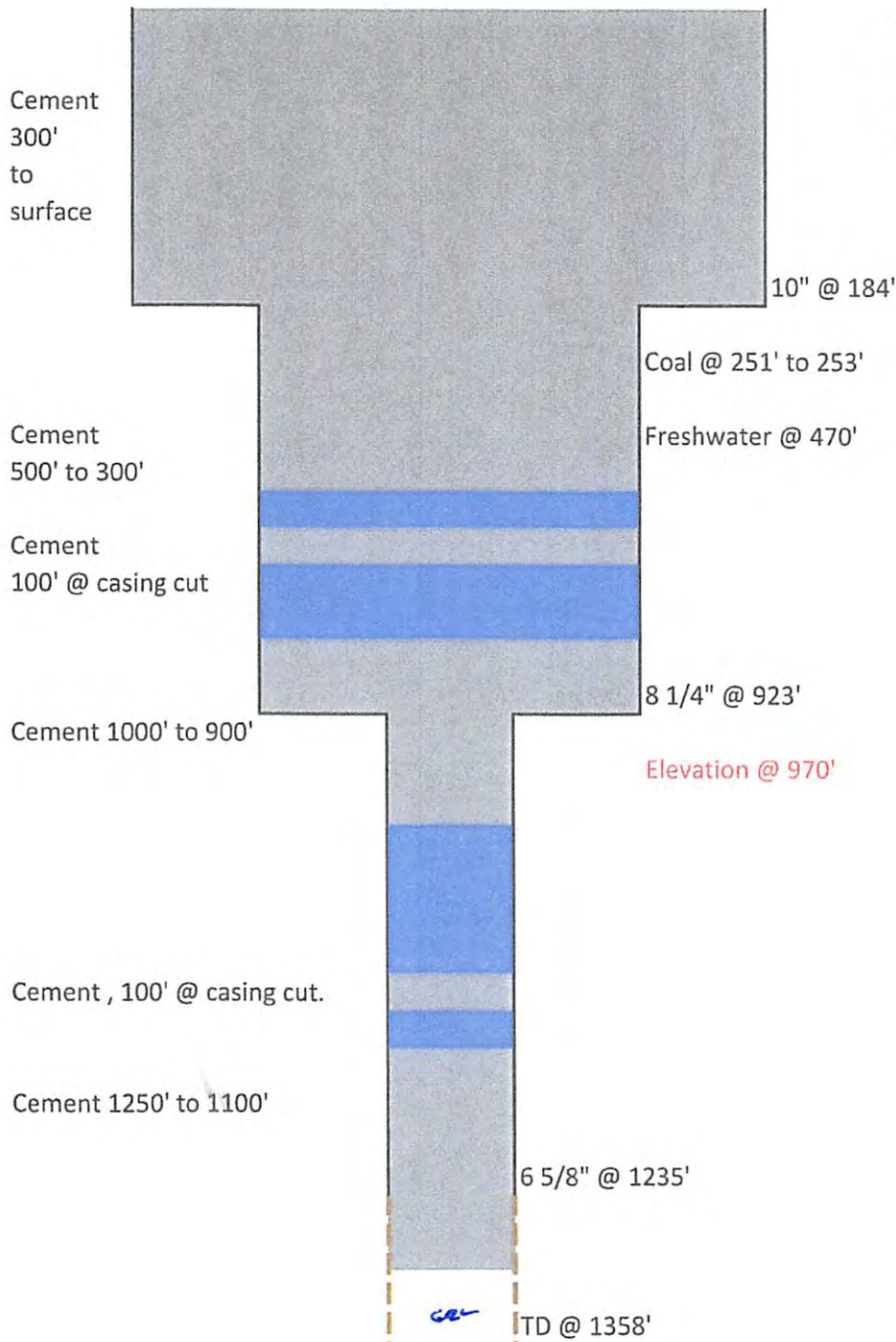
6 5/8" csg @ 1235'

Fresh Water @ 470'**Saltwater @ None Reported****Oil Show @ None Reported****Gas shows @ 1197', 1300', & 1336'****Coal @ 251' to 253'**

1. Notify inspector, Gary Kennedy @ 304-382-8402, 24 hrs. prior to commencing operations. *Check Rock Pressure*
2. TIH check TD @ or below 1250', spot 25bbl of 6% gelled water, set 150' C1A cement plug 1250' to 1100', WOC 8hrs, Tag TOC, add additional C1A cement if necessary.
3. Free point 6 5/8" casing, cut casing @ free point, TOOH casing.
4. Note* If unable to cut & pull 6 5/8" casing below 970', TIH and perforate 6 5/8" casing with 4 holes each @ 980', & 960', set 100' C1A cement plug 1000' to 900'. (Elevation Plug).
5. 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.
6. Free point and cut 8 1/4" casing, TOOH casing.
7. 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.
8. TOOH to 500', set 200' C1A cement plug 500' to 300'.
9. Free point and cut 10" casing. TOOH casing.
10. Note* If unable to cut and pull 10" casing, TIH and perforate 10" casing with 4 holes each @ 180', 150', 100' & 50'.
11. Set 300' C1A cement plug 300' to surface.

12. Erect monument with API#, date plugged, & company name.
13. Reclaim location and road to WV-DEP specifications.

500144P



458761,
Mitchell W-7504
API# 47-005-00144
Boone Co, WV

RECEIVED
Office of Oil and Gas
JAN 11 2017
WV Department of
Environmental Protection

02/03/2017

NAME	COLOR	CHARACTER	OIL, GAS OR WATER	TOP	BOTTOM	THICKNESS	TOTAL DEPTH	REMARKS
Sand				0	30			
Slate				30	110			
Sand, shells & Slate				110	202			
Lime				202	251			
Coal				251	253	2'		
Sand				253	375			
Slate				375	390			
Sand				390	410			
Slate				410	415			
Sand		Hole full of Water	470-480	415	915			
10" casing set at			-- 226.					
8 1/2" casing set at			-- 915, 8 1/2" x 10"	Bottom Hole packer on bottom of 8 1/2" casing and set in 70' of mud.				
Drilling Continued.								

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

Salt Fresh water at _____ feet; salt fresh water at _____ feet.

Well was producing hole.
dry

September, 16, 1930.
Date

Approved

Hope Natural Gas Company
Owner

02/03/2017

500144P

WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Section

PRELIMINARY DATA SHEET NO. 1

Mitchell W: 7504
458671

File No.

Well No. 7504

Hope Natural Gas Company Company, of 445 West Main St.

Clerksburg, W. Va. on the W. H. Mitchell Farm

containing 22.3 acres. Location

Washington District, in Boone County, West Virginia.

The surface of the above tract is owned in fee by W. H. Miller

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

W. H. Miller of Charleston, W. Va.

The oil and gas privileges are held under lease by the above named company, and this well is drilled under permit No. 800-144 issued by the West Virginia Department of Mines, Oil and Gas Section,

August 9th 1930. 19.....

Elevation of surface at top of well, 272.43 Spirit

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

..... feet..... size. Wood conductor.

322 feet 10" size, csg. 915 feet 8" sized csg.

..... feet..... size, csg. feet..... sized csg.

..... feet..... size, csg. feet..... sized csg.

..... packer of..... size, set at.....

..... packer of..... size, set at.....

..... in casing perforated at..... feet to..... feet.

..... in casing perforated at..... feet to..... feet.

Coal was encountered at 251 feet; thickness 24 inches, and at.....

feet; thickness..... inches; and at..... feet; thickness..... inches.

Liners were used as follows: (Give details).....

September, 16, 1930.

Date.

Approved..... Hope Natural Gas Company Owner

SEP 27 1930

02/03/2017

Boo-144

Ben Pauley

N46°20'W
334'

Hy Pits on top ridge

Sugar Stump & Pits

S.73°15'W. 193'
CO

N.21°30'E. 269'

Hy

N.35°40'E. 177'

CO

N.32°15'E. 239'

Hy.

N.29°45'E. 135'
DWPIT

N.59°40'E. 274'

W.O.

N.54°00'E. 170'

I.O.

S.75°24'W. 282'

Hy. Pits

S.80°36'W. 711'

S.9°24'E. 400'

7504

Elev. 970.43'

278'

N.09°30'W. 38'

N.07°30'W. 24-P

Stake

N.08°00'W. 238-P

Gun

S.07°18'W. 7-P

Stake

S.05°45'W. 192-P

Pits

N.62°30'W. 8-P

N.69°00'W. 83-P

N.51°45'W. 136-P

N.44°15'W. 91-P

N.59°30'W. 68-P

N.44°15'W. 91-P

N.59°30'W. 68-P

N.44°15'W. 91-P

N.59°30'W. 68-P

N.44°15'W. 91-P

N.59°30'W. 68-P

N.44°15'W. 91-P

N.59°30'W. 68-P

N.44°15'W. 91-P

N.59°30'W. 68-P

N.44°15'W. 91-P

N.59°30'W. 68-P

N.44°15'W. 91-P

N.59°30'W. 68-P

N.44°15'W. 91-P

N.59°30'W. 68-P

N.44°15'W. 91-P

W. H. Mitchell

993

Lease No 41890

C. P. Baker & A. J. Miller

N.16°15'E. 467'

Stake in old road

S.79°45'E. 569'

W. A. Bush

N.58°15'

Pea on knob

S.56°15'E. 498'

S.34°20'E. 486'

Stone & W. W. Pits.

S.54°40'E. 695'

Augustus Miller

ENGINEER - CERTIFICATE

RECEIVED
Office of Oil and Gas
July 11 2017

WV Department of Environmental Protection

02/03/2017

(Distance in feet Surveyed
Distance in Poles taken
from Coal Deed.)

The undersigned hereby certifies that this map ... of the information ...
best of my knowledge and belief, required by the oil ... section of the ...
Virginia

WW-4-A
Revised 6/07

1) Date: December 30, 2016
2) Operator's Well Number
458671 (W. H. Mitchell W-7504)
3) API Well No.: 47 005 - 00144
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 and Damsel V. Stollings
Address P. O. Box 10263
White Oak Drive
Beckley, WV 25802
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Gary Kennedy
Address 252 Circle Avenue
Rainelle, WV 25962
Telephone (304) 951-2596

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name Robert Mitchell
P. O. Box 399
Address Lake Lure, NC 28746
Name _____
Address _____
(c) Coal Lessee with Declaration
Name None
Address _____

TO THE PERSONS NAMED ABOVE:

You should have received this Form and the following documents:

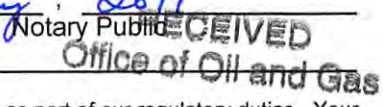
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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 4th day of January, 2017
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 depriva@dep.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
Department of Environmental Protection

02/03/2017

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

Operator Name: EQT PRODUCTION COMPANY OP CODE: _____

Watershed (HUC 10): Turtle Creek Quadrangle: Madison 7.5'

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: _____

Will a synthetic liner be used in the pit? Yes X No ___ Is so, what ml.? 20 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

Company Official Signature *Victoria J. Roark*

Company Official (Typed Name) Victoria J. Roark

Company Official Title Permitting Supervisor - WV

Subscribed and sworn before me this 4th day of January, 2016 2017

Misty S. Christie Notary Public
My Commission Expires 2/20/18

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Office of Oil and Gas

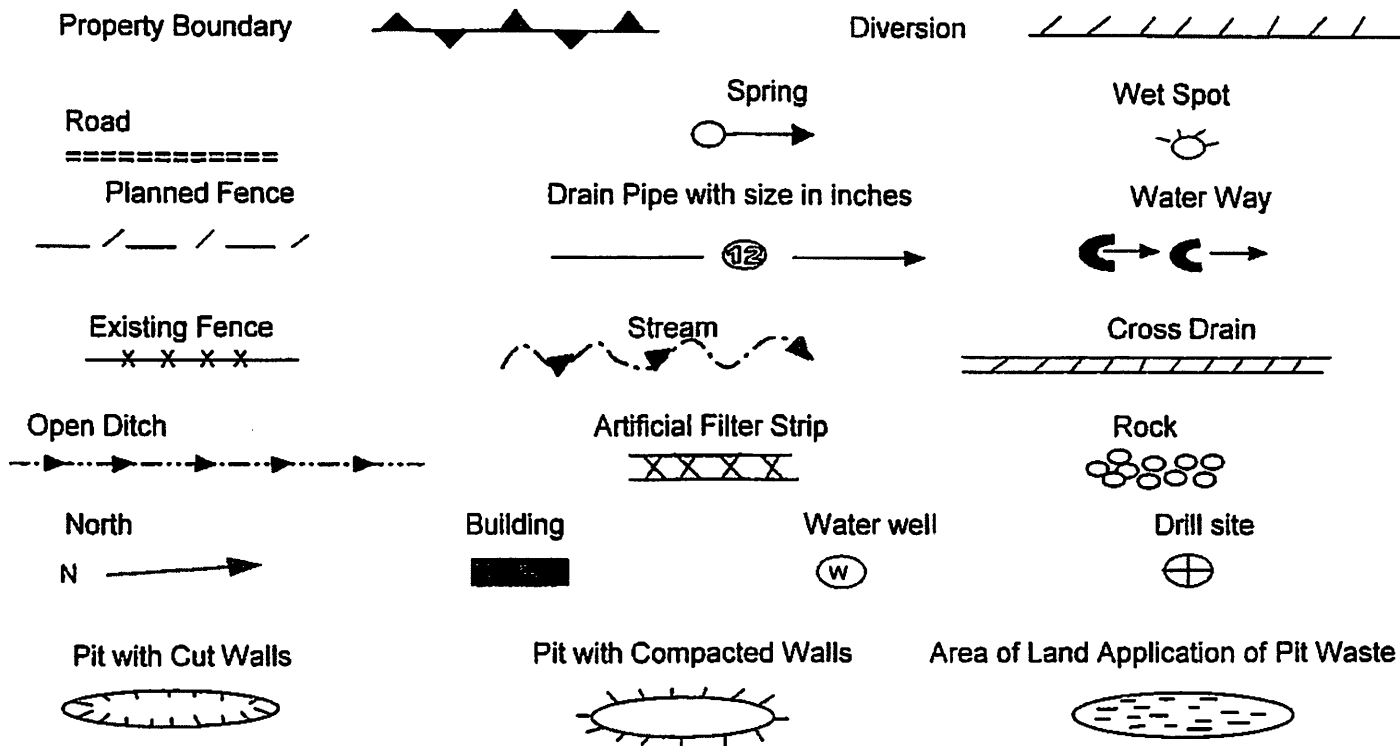
JAN 11 2017

OWVA Department of Environmental Protection
Misty S. Christie
1207 Briercliff Rd
Bridgeport, WV 26330
My Commission Expires February 20, 2018

02/03/2017

OPERATOR'S WELL NO.:
458671 (W. H. Mitchell W-7504)

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: *Henry Kennedy*

Comments: _____

Title: *Inspector* Date: 1/13/17

Field Reviewed? Yes No

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

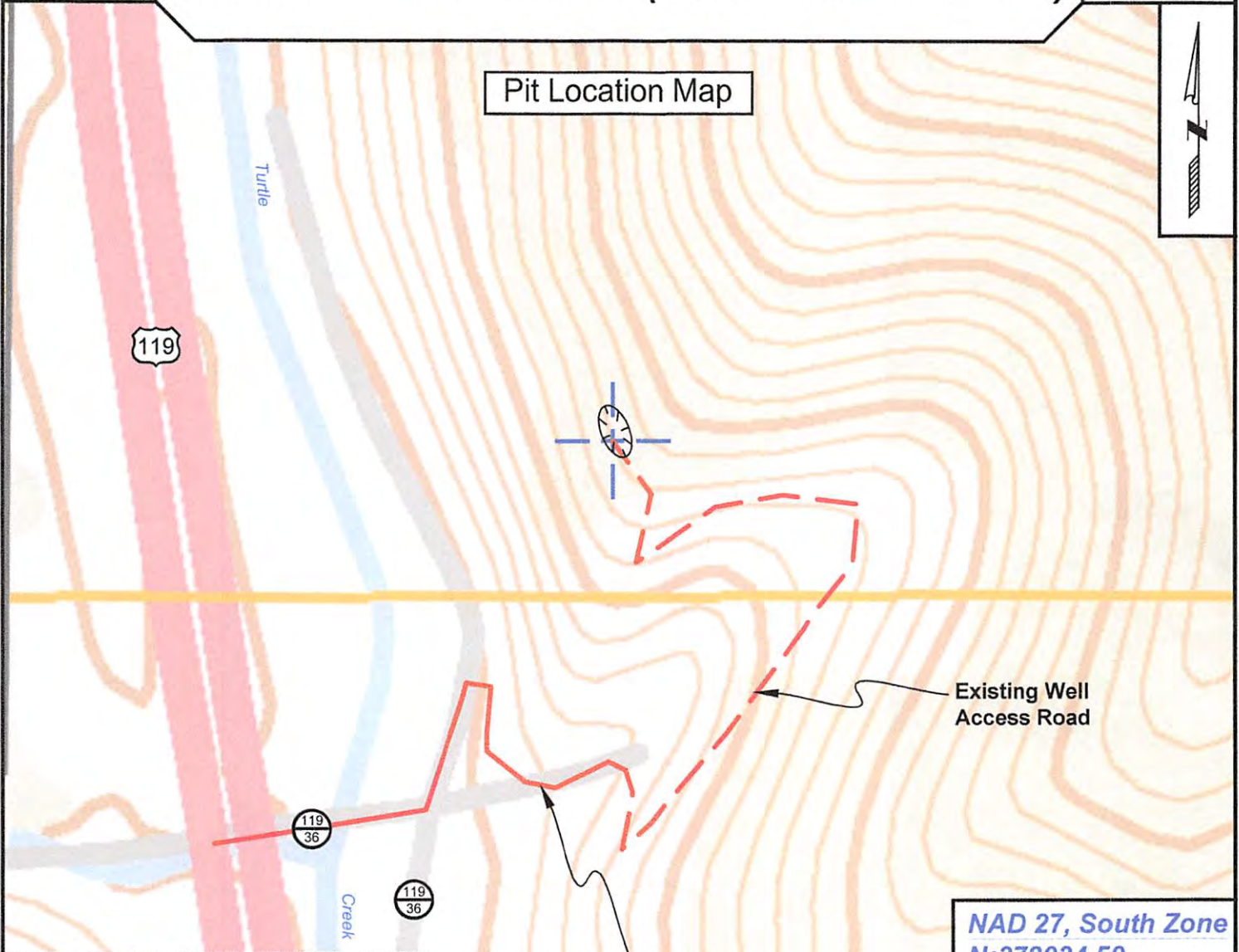
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Office of Oil and Gas
JAN 11 2017
JAN 11 2017
WV DEPARTMENT OF
Environmental Protection
Environmental Protection
02/03/2017

Topo Quad: Madison 7.5' Scale: 1" = 200'
 County: Boone Date: November 4, 2016
 District: Washington Project No: 140-16-00-07

47-005-00144 WV 458671 (W.H. Mitchell W-7504)

Topo

Pit Location Map






Existing Well
Access Road

Existing Driveway

NAD 27, South Zone
 N:378034.59
 E:1748735.55

WGS 84
 LAT:38.035053
 LONG:81.872264
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 Office of Oil and Gas
 02/17

LEGEND

- PIT-CUT WALLS 
- PIT-COMPACTED WALLS 
- AREA OF LAND APPLICATION OF PIT WASTE 



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
 JAN 11 2017
 W. Department of
 Environmental Protection
 02/03/2017

Topo Quad: Madison 7.5' Scale: 1" = 500'

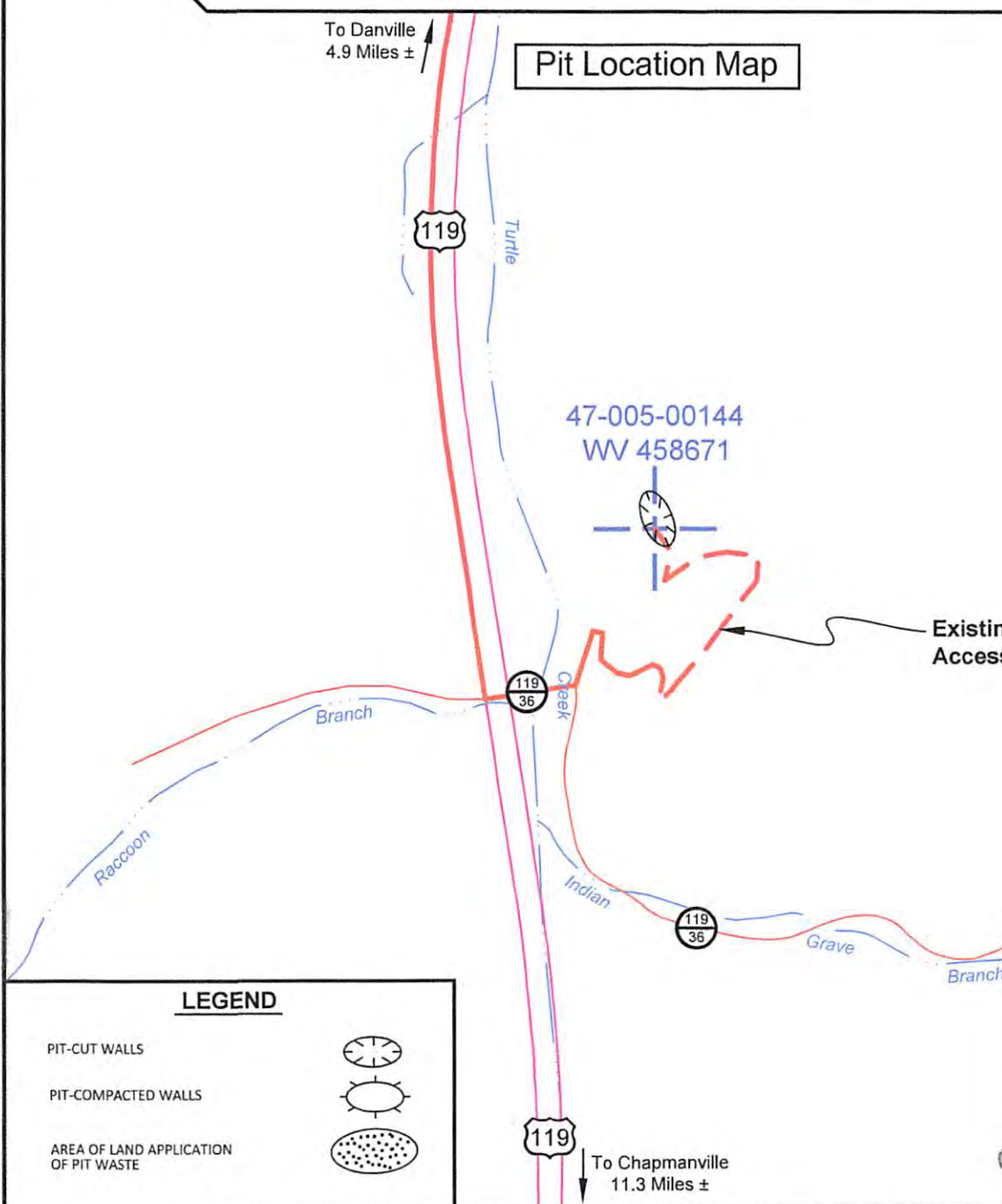
County: Boone Date: November 4, 2016

District: Washington Project No: 140-16-00-07

Highway **47-005-00144 WV 458671 (W.H. Mitchell W-7504)**

To Danville
4.9 Miles ±

Pit Location Map



Existing Well
Access Road

47-005-00144
WV 458671

LEGEND

- PIT-CUT WALLS
- PIT-COMPACTED WALLS
- AREA OF LAND APPLICATION OF PIT WASTE

NAD 27, South Zone
 N:378034.59
 E:1748735.55

WGS 84
 RECEIVED
 LAT: 38.035052
 LONG: -81.872264
 ELEV: 973.2017
 JAN 17 2017



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
 Department of Environmental Protection
 P.O. Box 280
 Bridgeport, WV 26330

02/03/2017

Topo Quad: Madison 7.5' Scale: 1" = 2000'
 County: Boone Date: November 4, 2016
 District: Washington Project No: 140-16-00-07

47-005-00144 WV 458671 (W.H. Mitchell W-7504)

Topo



NAD 27, South Zone
 N:378034.59
 E:1748735.55

RECEIVED
 Office of Oil and Gas
 LONG:-81.872264
 ELEV:972.2017
 JAN 11 2017



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PREPARED FOR:
WV Department of Environmental Protection
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330

02/03/2017

WW-7
8-30-06



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

API: 47-005-00144 WELL NO.: WV 458671 (W. H. Mitchell W-7504)

FARM NAME: W. H. Mitchell

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Boone DISTRICT: Washington

QUADRANGLE: Madison 7.5'

SURFACE OWNER: Ronald & Damsel V. Stollings

ROYALTY OWNER: Robert Mitchell, et al.

UTM GPS NORTHING: 4210063

UTM GPS EASTING: 423453 GPS ELEVATION: 296 m (972 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:

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

Survey grade GPS _____ : Post Processed Differential _____
Real-Time Differential _____

Mapping Grade GPS X : Post Processed Differential X
Real-Time Differential _____

- 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
JAN 11 2017
11/17/16
WV Department of
Environmental Protection
Environmental Protection

02/03/2017



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY INC.

LEASE NAME AND WELL No. W. H. Mitchell W-7504 - WV 458671 - 47-005-00144

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 752' Owner: Lock Land LLC

Address: HC 74 Box 3030A, Chapmanville, WV 25508 Phone no. _____

Comments _____

Site: 2 Spacing: 798' Owner: Lock Land LLC

Address: HC 74 Box 3030A, Chapmanville, WV 25508 Phone no. _____

Comments _____

Site: 3 Spacing: 504' Owner: Ron Stollings

Address: 62 Damsel Lane, Turtle Creek, WV 25203 Phone no. _____

Comments _____

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Office of Oil and Gas

JAN 11 2017

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

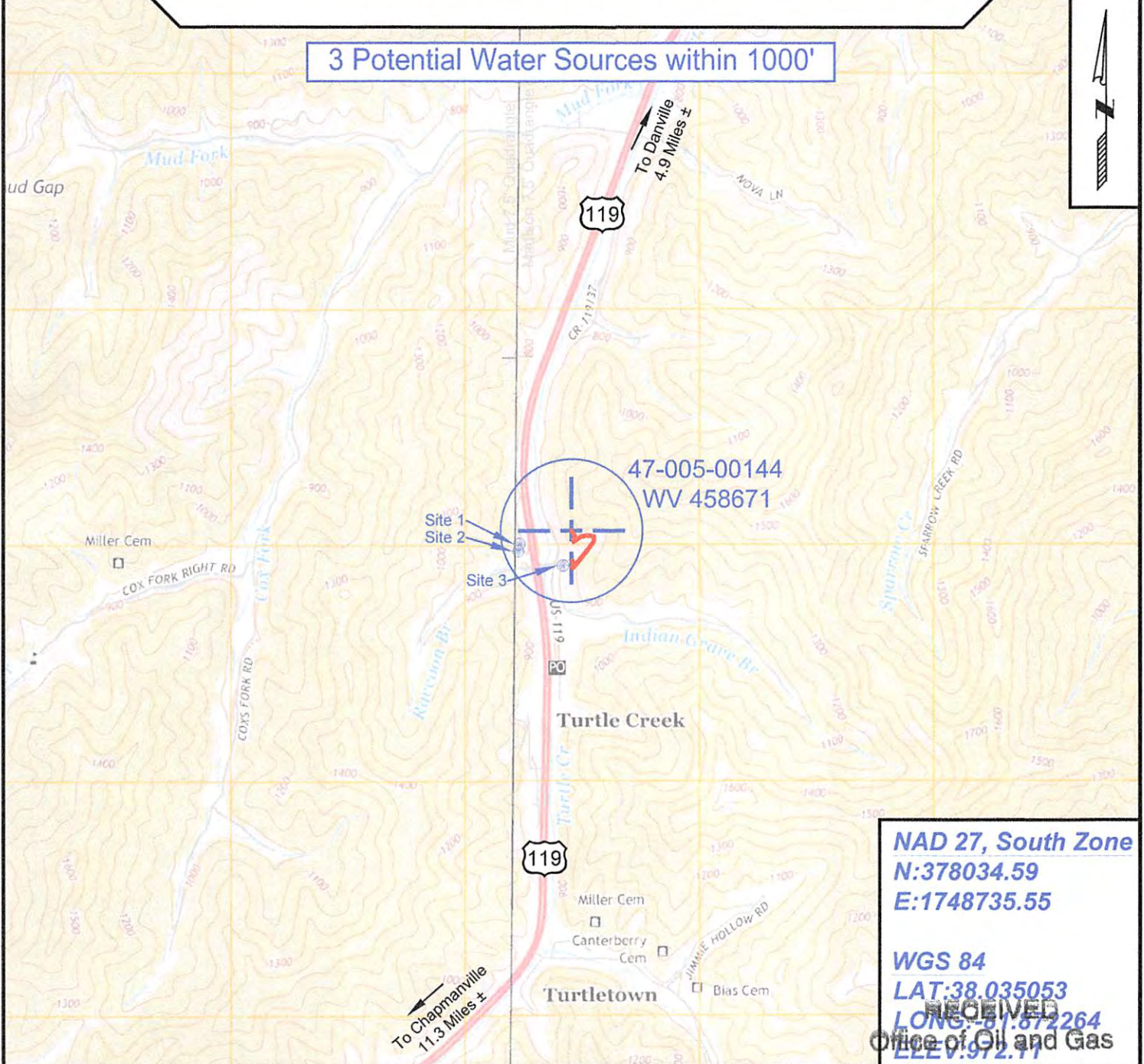
MARTINSBURG OFFICE
WV Department of
Environmental Protection
Martinsburg, WV 25404
phone: 304-281-1211
fax: 304-901-2182

Topo Quad: Madison 7.5' Scale: 1" = 2000'
 County: Boone Date: November 4, 2016
 District: Washington Project No: 140-16-00-07

Water

47-005-00144 WV 458671 (W.H. Mitchell W-7504)

3 Potential Water Sources within 1000'



NAD 27, South Zone
 N:378034.59
 E:1748735.55

WGS 84
 LAT:38.035053
 LONG:-81.872264
 ELEV:972.11

RECEIVED
 Office of Oil and Gas



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PREPARED FOR:
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330
 WV Department of Environmental Protection

JAN 11 2017

02/03/2017