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 15, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9700248, 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: 8033
Farm Name: HILL, S. R., ETUX
API Well Number: 47-9700248
Permit Type: Plugging
Date Issued: 06/15/2016

Promoting a healthy environment.

9700248P

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.

97002487

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

Date: May 10, 2016
Operator's Well
Well No. 608033 (S.R. Hill #2 8033)
API Well No.: 47 097 - 00248

CK 20463
100.00

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

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

2) Elevation: 1686 ft. Watershed: Finks Run
Location: Buckhannon County: Upshur Quadrangle: Berlin 7.5'
District:

3) 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: Bryan Harris
Address: P. O. Box 157
Volga, WV 26238

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.

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JUN 01 2016

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 Bryan O'Hern Date 5-26-16

9700248P

PLUGGING PROGNOSIS
Hill, S.R. #2 (608033)
Upshur Co. WV
District, Buckhannon
API # 47-097-00248

BY: Craig Duckworth
DATE: 11/18/15

CURRENT STATUS:

10" csg @ 312'
8 1/4" csg @ 1227'
6 5/8" csg @ 2485'(packer @ 2417')
Elevation @ 1685'

TD: 4593'

Fresh Water @ 119' Coal @ 117' 1067'
Saltwater @ 2171'
Gas shows @ 610', 1054'-1066' , 2028'-2031', 4558'-4561'
Oil show @ 2157'

1. Notify State Inspector, Brian Harris @ 304-553-6087, 48 hrs.prior to commencing operations.
2. Check TD w/wireline SPOT GEL
3. TIH w/tbg to 4593', set 200'C1A cement plug from 4593' to 4393 '. (Gas show @ 4558'-4561' Benson)
4. TOOH w/tbg to 4393', gel hole 4393' to 3500'
5. TOOH w/tbg to 3500' set 200' C1A cement plug from 3500' to 3300', (safety plug).
6. TOOH w/tbg to 3300' gel hole 3300' to 2535'.
7. TOOH w/tbg to 2535', set 100' C1A cement plug 2535' to 2435'. (6 5/8" csg @ 2485').
8. TOOH w/tbg, Free point 6 5/8" csg, cut csg @ free point, TOOH w/csg.
9. 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.
10. TIH w/tbg to 2435' gel hole from 2435' to 2080'.
11. TOOH w/tbg to 2080', set 100' C1A cement plug 2080' to 1980'. (gas show @ 2028'-2031').
12. TOOH w/tbg to 1980', gel hole 1980' to 1735'
13. TOOH w/tbg to 1685', set 100' C1A cement plug 1685' to 1585'. (elevation @ 1685').
14. TOOH w/tbg to 1585' gel hole 1585' to 1277'.
15. TOOH w/tbg to 1277', set 300' C1A cement plug 1277' to 977'. (8 ¼" csg seat @1227'& gas show @ 1066'). & COAL.

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16. TOOH w/tbg, Free point 8 ¼" csg, cut csg at free point, TOOH w/csg.
17. 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.
18. TIH w/tbg to 977' gel hole from 977' to 660 '.
19. TOOH w/tbg to 660', set 100' C1A cement plug 660' to 560'. (gas show @ 610')
20. TOOH w/tbg to 560' gel hole from 560' to 362 '.
21. TOOH w/tbg to 362', set 362' C1A cement plug, 362' to 0. (10" csg @ 312' & FW @ 119')
22. Free point 10" casing, cut casing @ free point, TOOH w/csg.
23. 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
24. Erect monument with API#
25. Reclaim location and road to WV-DEP specifications.

FREEPOINT 10" BEFORE STEP 21.

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WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
WELL RECORD

Permit No. Ups 248 47-097-00248
Weston S.E.Quad. 608033

Company	Pittsburgh & W.Va. Gas Company
Address	Clarksburg, W.Va.
Farm	S.R. Hill et ux Acres 400
Location	Weston S.E. 4-4
Well No.	8033 Elev. 1686'L
District	Duckhannon Upshur County
Surface	S.R. Hill et ux, R.D.#1 Duckhannon, W.Va.
Mineral	S.R. Hill et ux, R.D.#1 Duckhannon, W.Va.
Commenced	Oct. 13,1944
Completed	Feb. 8,1945
Date shot	2-9-45 Depth 4557 to 4567 with 70 qts. Nitro Glycerine
Open flow	5/10ths W in 1 1/2"
Volume	45.000 C.F.
Rock Pressure	1225 lbs. 125 hrs.
Fresh Water	119' 1/2 Dlr. Hr.
Salt Water	2171' H.F.

Gas Well
CASING & TUBING

10	312	312
8¼	1227	1227
5 5/8	2485	2485

Anchor Packer
Size 8¼" x 6 5/8"
Depth 2417'

Coal at 117' 24"; 1067' 24"

Clay	Y	S	0	16
Sand	Dl	H	16	48
Slate	Wh	S	48	60
Red Rock		S	60	78
Slate	Dk	S	78	117
Coal	Bk	S	117	119
Slate-Lime	Dk-Wh	H&S	119	217
Red Rock		S	217	312
Slate	Wh	S	312	325
Slate	Red	S	325	429
Slate & Shells-Lime		Lt	429	620
Sand	Wh	Close	620	640
Slate & Shells	Dk	S&H	640	782
L. Dunkard	Wh	Close	782	811
Slate & Shells	Wh	S&H	811	860
Lime, Gritty	Dk	H	860	891
Slate	Dk	S	891	904
Big Dunkard	Dk	H	904	934
Slate, Shells	Dk	S-H	934	1000
Lime, Gritty	Lt	H	1000	1039
1st Salt Sand-Wh		H	1039	1067
Coal		Bk S	1067	1069
Lime Gritty, Sl&Sh.		Dk	1080	1130
Gritty		Lt H	1130	1141
2nd Salt Sand		Lt H	1141	1175
Slate & Shells	Dk	S&H	1175	1189
2nd Salt Sand	Lt	H	1189	1377
Slate, Lime, Shs.	Dk	S	1377	1508
Rosedale Gas Sd.	Dk	Cl.	1508	1543
Sl.&Shells	Dk	S	1543	1563
Rosedale Salt Sd	Dk	H	1563	1595
Slate & Shells	Red	S&H	1595	1769
Maxon Sand	Gr	H	1769	1800
Slate & Shells	Red	S&H	1800	1830
Lime Gritty	Dk	H	1830	1844
Slate	Dk	S	1844	1850
Lime	Dk	H	1850	1870
Slate	Dk	S	1870	1877
Big Lime	Wh	H	1877	1969
Big Injun	Wh	H	1969	2000
Shale	Red	S	2000	2011
Big Injun	Wh	H	2011	2099
Slate	Dk	S	2099	2124
Lime	Wh	H	2124	2145
Berea	Dk	H	2145	2266
Slate	Dk	S	2266	2268
100' Sand	Dk	H	2268	2363
Red Rock		S	2363	2366
Sand	Dk	H	2366	2372
Slate	Dk	S	2372	2374
Lime	Lt	H	2374	2391
Slate		S	2391	2393
Lime Gritty	Dk	H	2393	2446
Slate	Dk	S	2446	2452
Lime Gritty	Dk	H	2452	2467
Slate & Shells	Dk	H&S	2467	2482
Lime Gritty	Dk	H	2482	2493
Slate & Shells		H&S	2493	2515
Gordon Sand	Dk	H	2515	2565
Slate & Sand, Shells		Dk H&S	2565	2587
4th Sand	Dk	H	2587	2610
Slate-Shells	Wh	S&H	2610	2653
5th Sand	Dk	H	2653	2702
Slate & Shells & Lime	Wh	S&H	2702	3941
Gritty Lime	Dk	H	3941	3987
Slate & Shells & Lime	Wh	S&H	3987	4218
Riley Sand	Dr	H	4218	4233
Slate & Shells	Wh	S&H	4233	4557
Benson Sand	Dr	H	4557	4567
Slate Shells	Gr	S&H	4567	4593
TOTAL DEPTH				4593

Sh. gas 610'
Gas 1064-1066' 8/10 W 1"
Gas 2028-2031' 16/10 W 1" Opng.
Sh. Oil 2157'
Gas 4558-4561 10/10 W 1"

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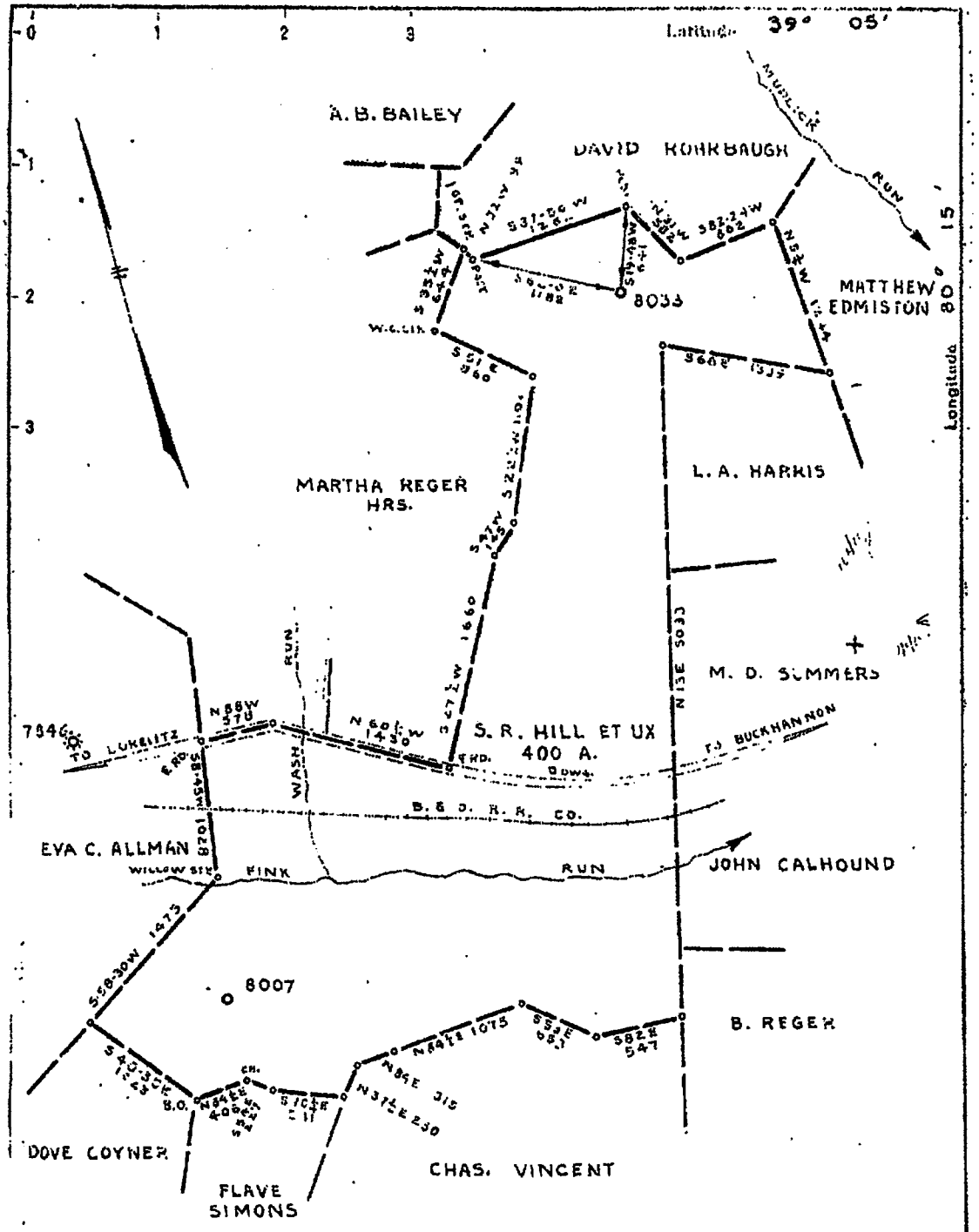

New Location X
Drill Deeper
Abandonment

Company PITTSBURGH & W. VA. GAS
Address CLARKSBURG, W. VA.
Farm S. R. HILL ET UX
Tract Acres 400 Lease No. 22930
Well (Farm) No. 2 Serial No. 8033
Elevation (Spirit Level) 1622 V.A.
Quadrangle WESTON S.E. 4
County UPSHUR District BUCKHANNON
Engineer James R. Justice
Engineer's Registration No. 1084
File No. D.15 - P.48 Drawing No.
Date JUNE 15, 1944 Scale 1" = 1000'

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

WELL LOCATION MAP

FILE NO. UPS-248

+ 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.

HFS

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WW-4-A
Revised 6/07

1) Date: May 10, 2016
2) Operator's Well Number
608033 (S.R. Hill #2 8033)
3) API Well No.: 47 097 - 00248
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: Attention: Lorentz Hall
Address: Leren Properties
P. O. Box 2468
Buckhannon, WV 26201

(b) Name
Address

(c) Name
Address

6) Inspector: Bryan Harris
Address: P. O. Box 157
Volga, WV 26238
Telephone: (304) 553-6087

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

(b) Coal Owner(s) with Declaration
Name: Patriot Coal
Address: P. O. Box 1001
Scott Depot, WV 25560

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 12th day of May, 2016
Misty S. Christie Notary Public
My Commission Expires: 2/20/16

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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

97002487

WW-9
Revised 2/03

Page ____ of ____
2) Operator's Well Number
608033 (S.R. Hill #2 8033)
3) API Well No.: 47 097 - 00248

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: Finks Run Quadrangle: Berlin 7.5'

Elevation: 1686 ft. County: Upshur District: Buckhannon

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 minimum

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 17th day of May, 2016

Misty S. Christie Notary Public

My Commission Expires 2/20/18

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

97002498P

OPERATOR'S WELL NO.:
608033 (S.R. Hill #2 8033)

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

Area II

Seed Type	lbs/acre
Red Fescue	15
Alsike Clover	5

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JUN 01 2016

ATTACH:
Drawing(s) of road, location, pit and proposed area for land application.
Photocopies section of involved 7.5' topographic sheet.

Plan approved by: Bryan O'Hara

Comments: _____

Title: Inspector Date: 5-26-16

Field Reviewed? ✓ Yes _____ No

9700248 P

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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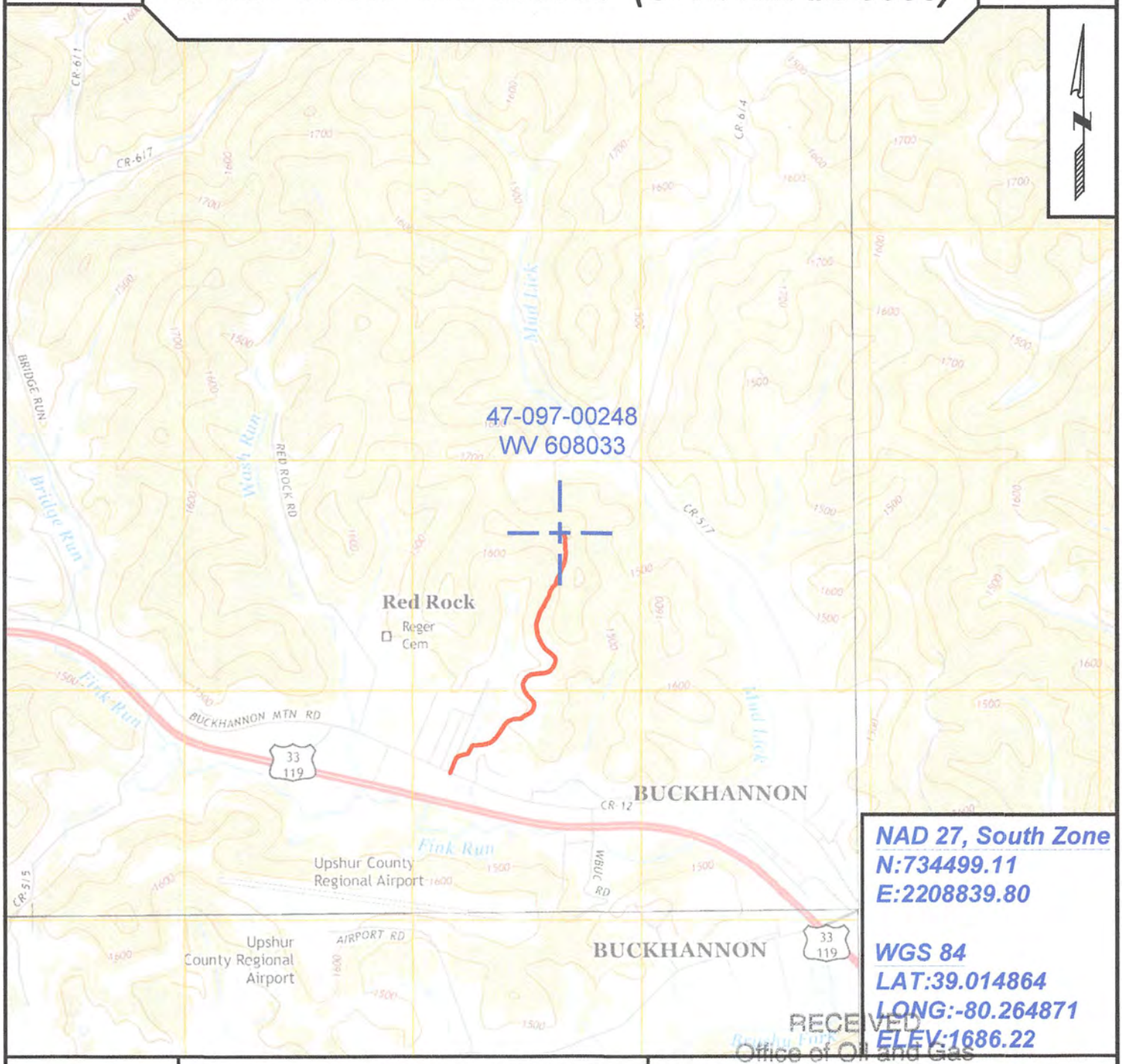
Topo Quad:	Berlin 7.5'	**Scale:**	1" = 2000'
County:	Upshur	**Date:**	April 26, 2016
District:	Buckhannon	**Project No:**	39-09-00-09

47-097-00248 WV 608033 (S. R. Hill #2 8033)

Topo



NAD 27, South Zone
N:734499.11
E:2208839.80

WGS 84
LAT:39.014864
LONG:-80.264871
ELEV:1686.22

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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

9700248P

WW-7
8-30-06

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

API: 47-097-00248 **WELL NO.:** WV 608033 (S. R. Hill #2 8033)

FARM NAME: S. R. Hill, et ux.

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Upshur **DISTRICT:** Buckhannon - 02

QUADRANGLE: Berlin 7.5' - 245

SURFACE OWNER: Leren Properties LLC

ROYALTY OWNER: Mary Ellen Douglass

UTM GPS NORTHING: 4318683

UTM GPS EASTING: 563643 **GPS ELEVATION:** 514 m (1686 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.

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Stacy O Brown — Signature
PS # 2180 — Title
4/29/16 — Date

9700248 P

POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY.
LEASE NAME AND WELL No. S. R. Hill #2 8033 - WV 608033 - API No. 47-097-00248.

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 608033.

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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

MARTINSBURG OFFICE
25 Lights Addition Drive
Martinsburg, WV 25404
phone: 304-901-2162
fax: 304-901-2182

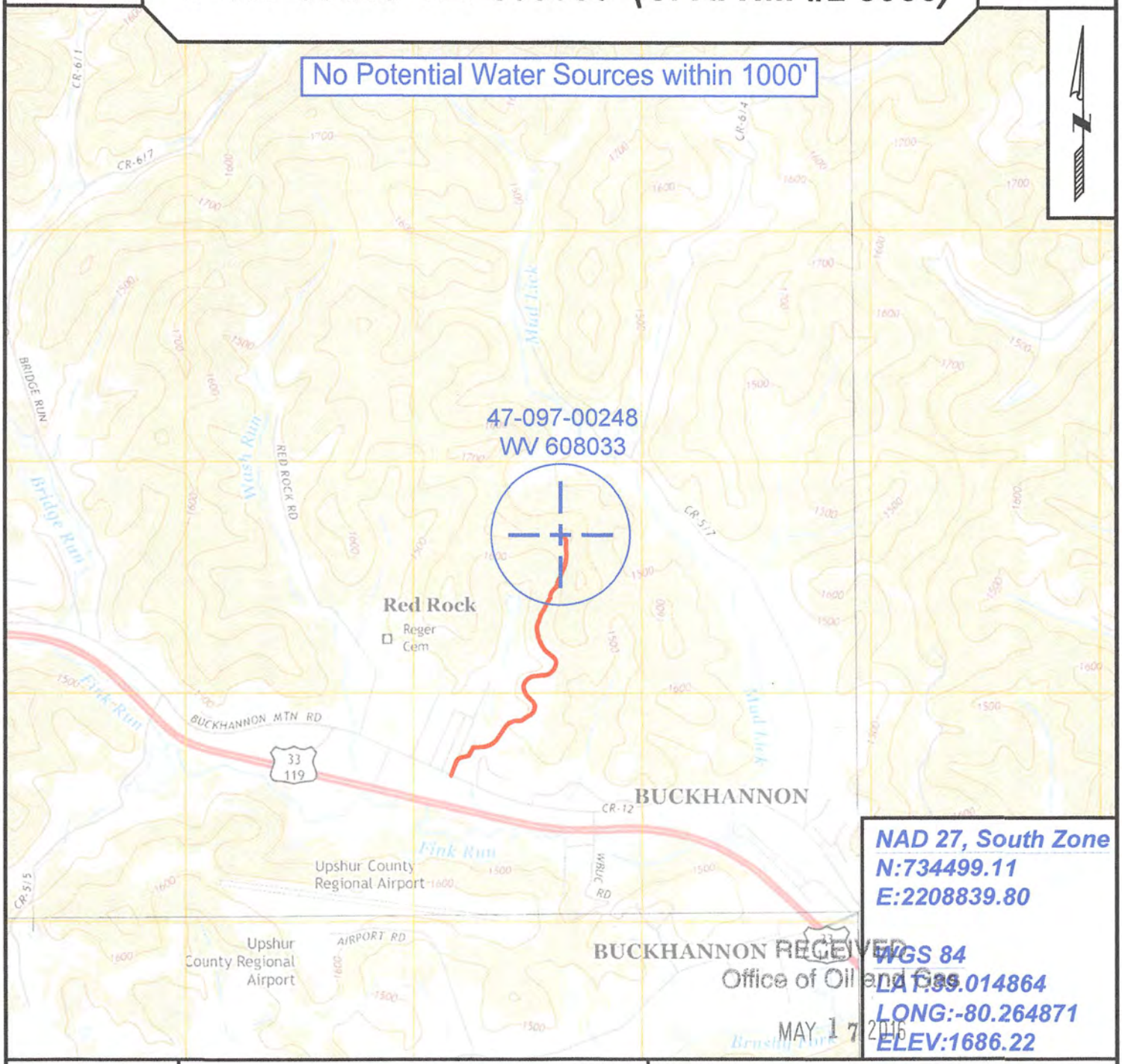
ALLEGHENYSURVEYS.COM

9700248P

Topo Quad:	Berlin 7.5'	**Scale:**	1" = 2000'
County:	Upshur	**Date:**	April 26, 2016
District:	Buckhannon	**Project No:**	39-09-00-09

Water

47-097-00248 WV 608033 (S. R. Hill #2 8033)



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N:734499.11
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PH: (304) 649-8606
FAX: (304) 649-8608

PREPARED FOR:
EQT Production Company
P.O. Box 280
Bridgeport, WV 26330