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**west virginia** department of environmental protection

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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

March 03, 2016

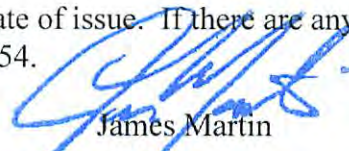
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-9700326, 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: 8126  
Farm Name: SMITH, RALPH, ETAL  
**API Well Number: 47-9700326**  
**Permit Type: Plugging**  
Date Issued: 03/03/2016

## 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

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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: February 12, 2016  
Operator's Well  
Well No. 608126 (Ralph Smith #8126)  
API Well No.: 47 097 - 00326

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

OK 20236 (Geo.)  
10000

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil  Gas  Liquid Injection  Waste Disposal:   
If Gas, Production  X Or Underground storage  Deep  Shallow
- 5) Elevation: 1475 ft. Watershed: Mudlick Run  
Location: Buckhannon County: Upshur Quadrangle: Berlin 7.5'  
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 Bryan Harris  
Name: P. O. Box 157  
Address: Velga, 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.**

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 C. Harris

Date 2-22-16



**PLUGGING PROGNOSIS**

Smith, Ralph #1 (608126)  
 Upshur Co. WV  
 District, Buckhannon  
 API # 47-097-00326

BY: Craig Duckworth  
 DATE: 11/17/15

**CURRENT STATUS:**

10" csg @ 215'  
 8 1/4" csg @ 974'  
 6 5/8" csg @ 2422' ( packer @ 2420')  
 Elevation @ 1495'

TD: 4485'

Fresh Water @ 25'    Coal @ none reported  
 Saltwater @ 2040'  
 Gas shows @ 2578' 5<sup>th</sup> Sand , 4455'-4461' Benson

1. Notify State Inspector, **Brian Harris @ 304-553-6087**, 48 hrs.prior to commencing operations.
2. Check TD w/wireline
3. TIH w/tbg to 4485', set 200' C1A cement plug from 4485' to 4285' . (Gas show @ 4455'-4461' Benson) • **CHECK TOP OF CEMENT, ADD IF NEEDED TO 4285'.**
4. TOOH w/tbg to 4285', gel hole 4285' to 3700'
5. TOOH w/tbg to 3700' set 200' C1A cement plug from 3700' to 3500', (safety plug).
6. TOOH w/tbg to 3500' gel hole 3500' to 2628'.
7. TOOH w/tbg to 2628', set 250' C1A cement plug 2628' to 2378'. (Gas show @ 2578' & 6 5/8" csg @ 2422').
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 2378' gel hole from 2378' to 1545'.
11. TOOH w/tbg to 1545', set 100' C1A cement plug 1545' to 1445'. (elevation @ 1495').
12. TOOH w/tbg to 1445', gel hole 1445' to 1024'.
13. TOOH w/tbg to 1024', set 100' C1A cement plug 1024' to 924'. (8 1/4" csg seat @1056').
14. TOOH w/tbg, Free point 8 1/4" csg, cut csg at free point, TOOH w/csg.
15. 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.

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WV Department of  
 Environmental Protection

03/04/2016

16. TIH w/tbg to 924' gel hole from 924' to 300'.
17. TOOH w/tbg to 300', set 300' C1A cement plug, 300' to 0. (10" csg @ 215' & FW @ 30')
18. Free point 10" casing, cut casing @ free point, TOOH w/csg.
19. 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
20. Erect monument with API#
21. Reclaim location and road to WV-DEP specifications.

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Environmental Protection

03/04/2016

WEST VIRGINIA DEPARTMENT OF MINES  
OIL & GAS DIVISION  
WELL RECORD

Permit No. Ups 326	47-097-00326	Gas Well
Hagston Quad.	60812a	CASING & TUBING
Company	Pittsburgh & W.Va. Gas Company	10 215 215
Address	Clarksburg, W.Va.	8 974 974
Farm	Ralph Smith et al A 27	6 5/8 2422 2422
Location	Weston S.E. 4-4	
Well No.	8126 Elev. 1495' VA	
District	Buckhannon Upshur County	Bottom Hole Packer
Surface	Ralph Smith, 1316 Oak St., Parkersburg, W.Va.	Size 8 1/2 x 6 5/8
Mineral	Adrian Bank of Buckhannon Buckhannon, W.Va.	Depth 2420'
Commenced	June 16, 1947	
Completed	Sept. 8, 1947	
Date shot	9-4-1947 Depth 4452 to 4470 with 130 qts. Nitro Glycerine	
Open Flow	16/10ths M in 1 1/2"	
Volume	304,000 C.F.	
Rock Pressure	1205 lbs. 24 hrs.	
Water	25' H.F. ; 2040' 1 1/2 Blr. 5 hrs.	

Clay Red S	0	8	Gritty Lime Wh H	3490	3801
Lime Dk MH	8	16	Slate Wh S	3801	3824
Slate & Shells Wh S	16	160	Gritty Lime Wh MH	3824	3870
Red Rock S	160	240	Slate & Shells Lt H&S	3870	3955
Slate & Shells Wh B	240	280	Lime Lt H	3955	3985
Red Rock S	280	310	S & Shells Wh S	3985	4060
Slate & Shells Wh S	310	315	Lime Dk MH	4060	4135
Little Dunkard Wh H	315	340	S & Shells Wh S	4135	4354
Slate & Shells Wh S	340	538	Gritty Lime Dk H	4354	4359
Little Dunkard Wh H	538	563	S & Shells Wh S	4359	4402
Slate & Shells Wh S	563	580	Gritty Lime Lt H	4402	4413
Lime Lt Solid	580	782	S & Shells Wh S	4413	4452
Freeport Sand Wh H	782	795	Benson Sand Dk H&S	4452	4469
S & S Wh H&S	795	976	Slate & Shells Wh H&S	4469	4480
1st Salt Sand Wh H	976	995	Lime Wh H	4480	4485
S-S Wh H&S	995	1084	Total Depth		4485
2nd Salt Sand Wh H	1084	1130			
Lime Dk MH	1130	1245	Gas 4455-4457		
3rd Salt Sand Lt MH	1245	1334	Gas 4459-4461' 102/10 W 1 1/2 Opng.		
S & S	1334	1354			
Rosedale Salt Sd. Lt. MH	1354	1384			
Lime Dk MH	1384	1403			
S & S Wh S	1403	1420			
Red Rock S	1420	1504			
Lime Dk Solid	1504	1533			
Red Rock S	1533	1655			
S & S	1655	1697			
Big Lime Dk H	1697	1737			
Slate S	1737	1740			
Big Lime Lt H	1740	1780			
Big Injun Wh H	1780	1920			
Lime Bl Solid	1920	2008			
Berea Dk H	2008	2053			
Slate Wh S	2053	2056			
50' Sand Dk H	2056	2130			
Slate Wh S	2130	2132			
30' Sand Wh H	2132	2200			
Lime Wh H	2200	2209			
Sand Wh H	2209	2269			
Red Rock S	2269	2314			
Gordon Stray Lt H	2314	2326			
Red Rock S	2326	2415			
Gordon Sand Wh H	2415	2440			
Red Rock S	2440	2459			
4th Sand Wh H	2459	2475			
Slate & Shells Wh H&S	2475	2538			
5th Sand Wh H	2538	2595			
Slate Shells Wh H&S	2595	2664			
Lime Wh H	2664	2689			
Slate & Shells Wh H&S	2689	3490			

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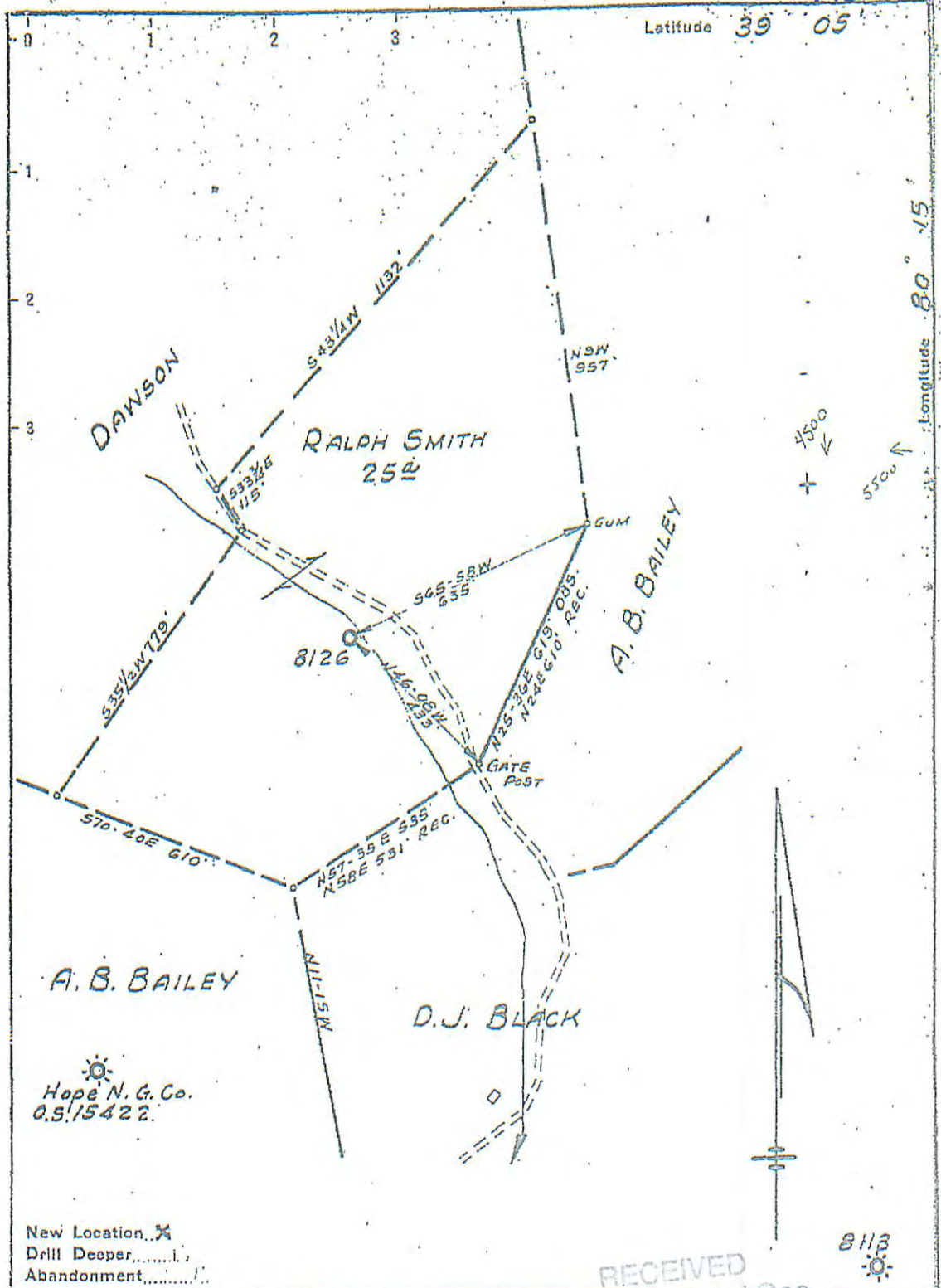
Gas 2578' 14/10 W 1 1/4"



9700326P

Latitude 39 05'

Longitude 80 15'



New Location  X  
 Drill Deeper.....  
 Abandonment.....

Company	Pittsburgh & W. Va. Gas Co.		
Address	Clarksburg, W. Va.		
Farm	RALPH SMITH et al		
Tract	Acres	Lease No.	27 21173-2
Well (Farm) No.	1	Serial No.	8126
Elevation (Spirit Level)	1495' V.A.		
Quadrangle	Weston S.E. 43		
County	Upshur	District	Buckhannon
Engineer	James D. Duffin		
Engineer's Registration No.	1084		
File No.	DV-20/148	Drawing No.	
Date	April 17, 1947		
Scale	1" = 300'		

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 STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
 RECEIVED  
 W. Va. Gas Co.  
 WELL LOCATION MAP  
 FILE NO. UPS 326  
 FEB 10 1948

+ 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 or less of original tracing.

03/04/2016



WW-4-A  
Revised 6/07

1) Date: February 12, 2016  
2) Operator's Well Number  
608126 (Ralph Smith #8126)  
3) API Well No.: 47 097 - 00326  
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 Coastal Forest Resources  
Address P. O. Box 408  
Buckhannon, WV 26201  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Bryan Harris  
Address P. O. Box 157  
Velga, WV 26238  
Telephone (304) 553-6087

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name James D. LaRosa  
Rt. 2, Box 408  
Address Suite 112  
Clarksburg, WV 26301  
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.

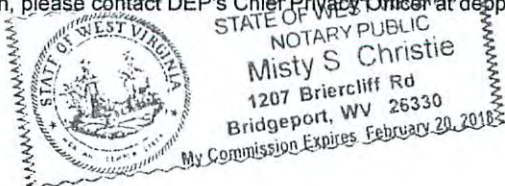
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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 17th day of February 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](mailto:depprivacyofficer@wv.gov).



03/04/2016



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: Mudlick Run Quadrangle: Berlin 7.5'  
Elevation: 1475 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

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.

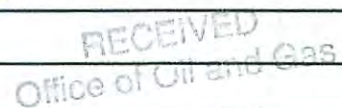
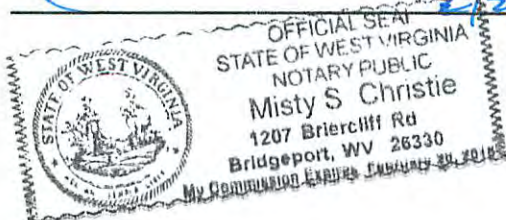
Company Official Signature *[Signature]*

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 17th day of February FEB 18, 2016 2016

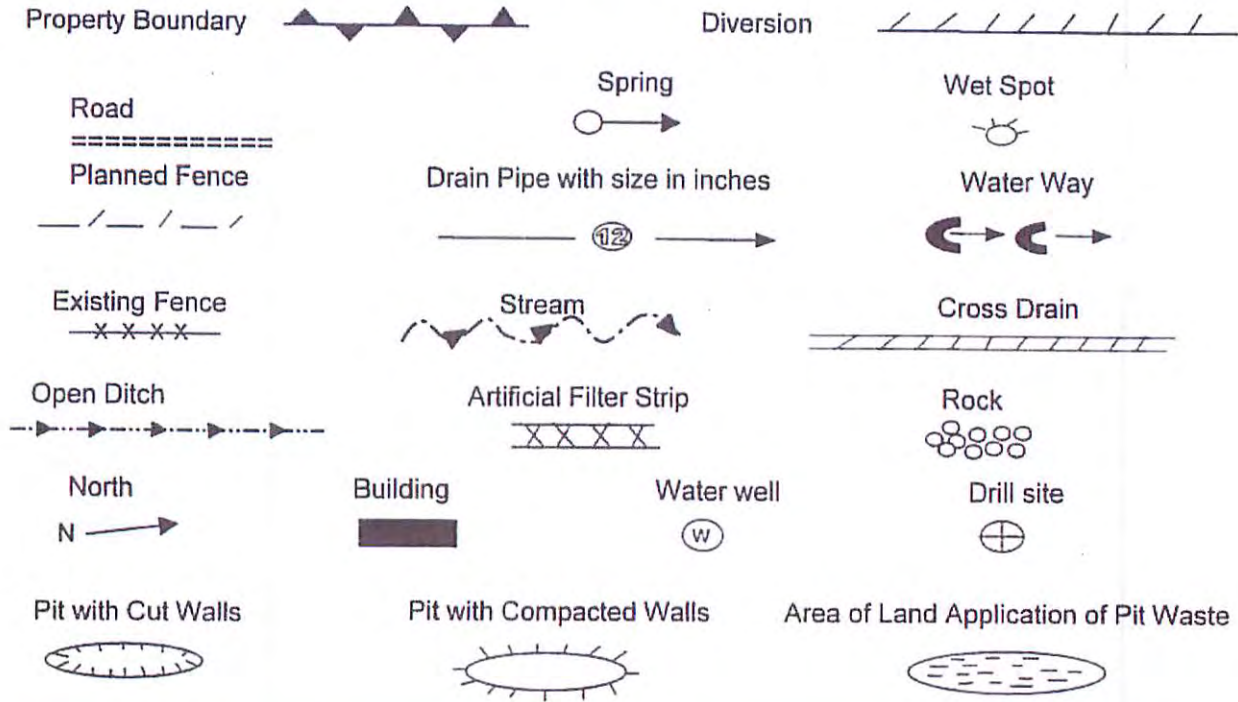
My Commission Expires 2/20/18 Notary Public *[Signature]*





**OPERATOR'S WELL NO.:**  
**608126 (Ralph Smith #8126)**

**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: *Diana C. Harris*

Comments: \_\_\_\_\_

Title: \_\_\_\_\_ Date: 2-22-16  
 Field Reviewed? Y Yes          No



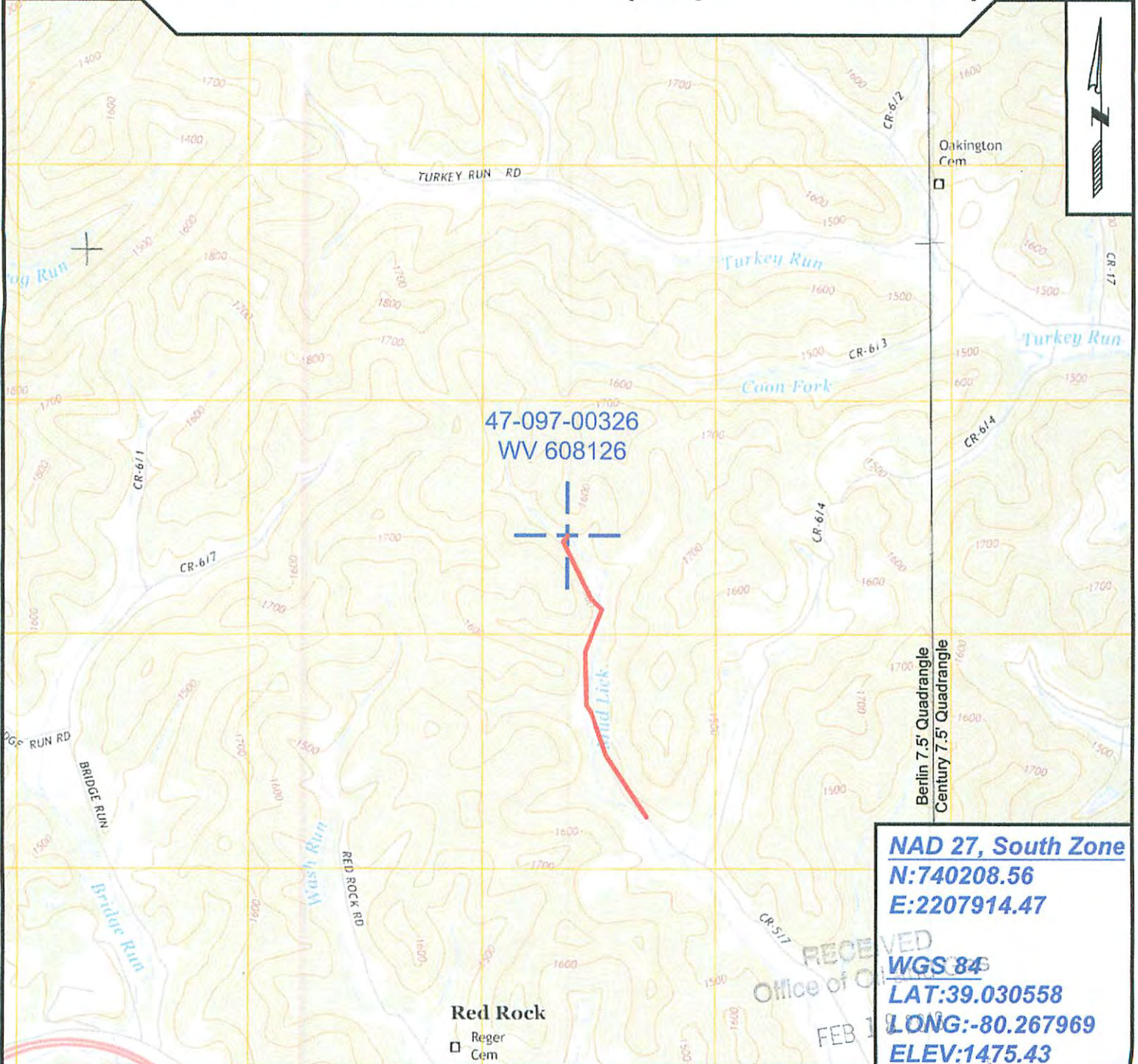
Topo Quad: Berlin 7.5' Scale: 1" = 2000'

County: Upshur Date: January 15, 2016

District: Buckhannon Project No: 39-09-00-09

# 47-097-00326 WV 608126 (Ralph Smith #8126)

Topo



47-097-00326  
WV 608126

**NAD 27, South Zone**  
**N:740208.56**  
**E:2207914.47**

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**WGS 84**  
**LAT:39.030558**  
**LONG:-80.267969**  
**ELEV:1475.43**



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: WV Department of Environmental Protection  
**EQT Production Company**  
 P.O. Box 280  
 Bridgeport, WV 26330  
**03/04/2016**



WW-7  
8-30-06



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

API: 47-097-00326 WELL NO.: WV 608126 (Ralph Smith #8126)

FARM NAME: Ralph Smith, et al.

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Upshur DISTRICT: Buckhannon

QUADRANGLE: Berlin 7.5'

SURFACE OWNER: Coastal Forest Resources

ROYALTY OWNER: James D. Larosa, et al.

UTM GPS NORTHING: 4320423

UTM GPS EASTING: 563361 GPS ELEVATION: 450 m (1475 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 South, 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.

*Stacy Johnson*  
Signature

PS# 2180  
Title

2/2/16  
Date

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2/8/2016  
WV Department of  
Environmental Protection

03/04/2016





### POTENTIAL WATER SAMPLE DATA SHEET

**CLIENT:** EQT PRODUCTION COMPANY  
**LEASE NAME AND WELL No.** Ralph Smith #8126 - WV 608126 - API No. 47-097-00326

#### POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 608126.

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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



Topo Quad: Berlin 7.5'

Scale: 1" = 2000'

County: Upshur

Date: January 15, 2016

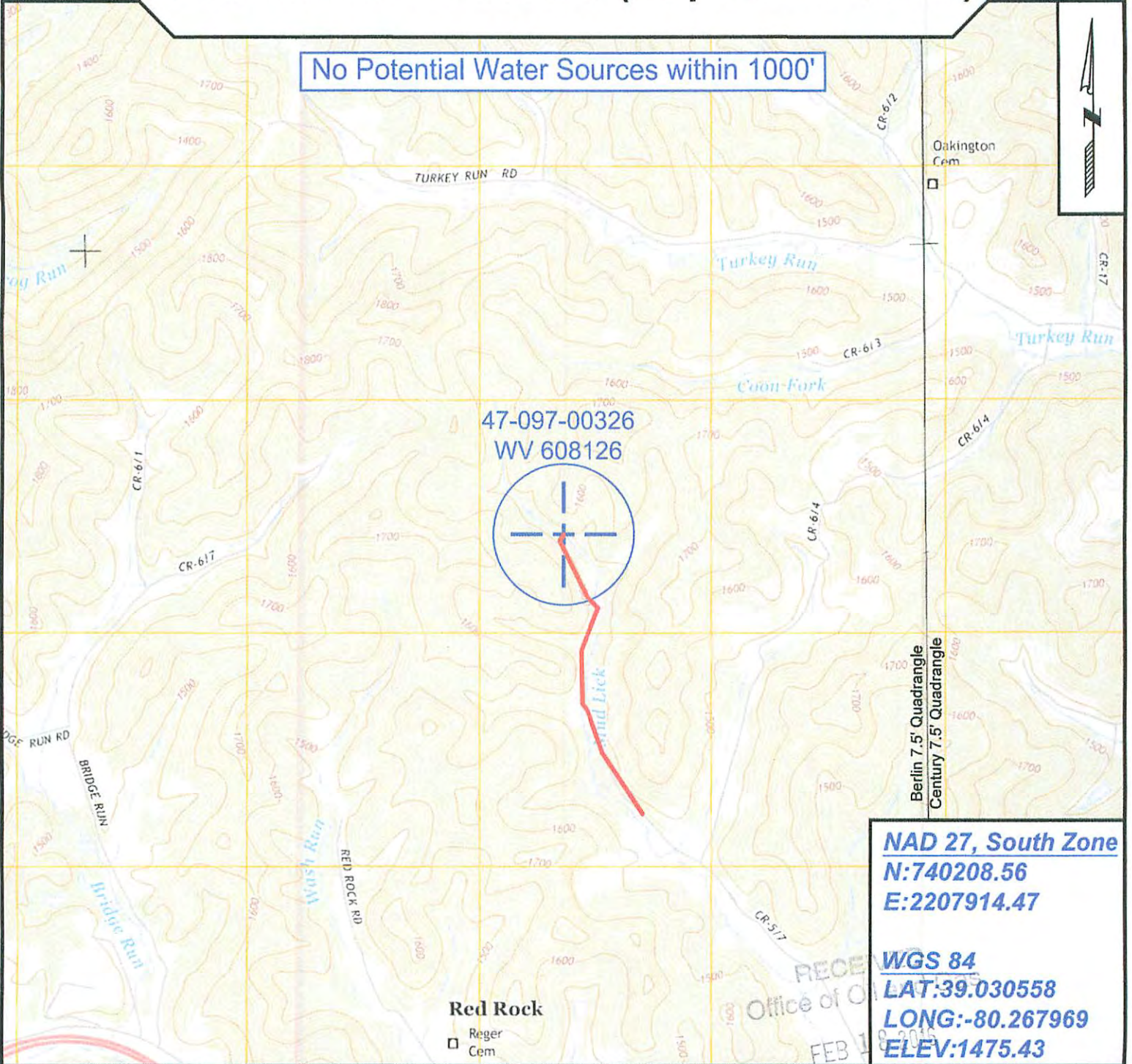
District: Buckhannon

Project No: 39-09-00-09

Water

# 47-097-00326 WV 608126 (Ralph Smith #8126)

No Potential Water Sources within 1000'



47-097-00326  
WV 608126

NAD 27, South Zone  
N:740208.56  
E:2207914.47

WGS 84  
LAT:39.030558  
LONG:-80.267969  
ELEV:1475.43

Red Rock  
Reger Cem

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**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**  
WV Department of  
P.O. Box 280  
Bridgeport, WV 26330

03/04/2016