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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

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

Monday, January 08, 2018  
WELL WORK PERMIT  
Vertical / Plugging

EQT PRODUCTION COMPANY  
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for RINEHART 1  
47-041-01363-00-00

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: RINEHART 1  
Farm Name: RINEHART, B. J.  
U.S. WELL NUMBER: 47-041-01363-00-00  
Vertical / Plugging  
Date Issued: 1/8/2018

Promoting a healthy environment.

01/12/2018

## 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: November 9, 2017  
Operator's Well \_\_\_\_\_  
Well No. 651931 (Rinehart #658)  
API Well No.: 47 041 - 01363

Check# 21606  
11-14-17  
\$1,000.

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: 851 ft. Watershed: Walnut Fork  
Location: Freemans Creek County: Lewis Quadrangle: Vadis 7.5'  
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 Barry Stollings 9) Plugging Contractor:  
Name: 28 Conifer Drive Name: HydroCarbon Well Service  
Address: Bridgeport, WV 26330 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.**

OK gnm for Barry Stollings 11/8/2018

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 \_\_\_\_\_

Date \_\_\_\_\_

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## PLUGGING PROGNOSIS

Rinehart, B.J. # 658 (651931)  
 Lewis Co. WV  
 District, Freemans Creek  
 API # 47-041-01363

BY: Craig Duckworth  
 DATE: 1/30/17

**CURRENT STATUS:**

10" csg @ 120' (pulled)  
 8 1/4" csg @ 825' (pulled)  
 6 5/8" csg @ 1508'  
 3" tbg @ 1624' (packer @ 1582' after frac.)  
 2" tbg @ 1542' (pulled)

Elevation @ 861'

TD: 2416' (plugged to 1642')

Fresh Water @ None Reported    Coal @ None Reported  
 Saltwater @ None Reported  
 Gas shows @ 1500'-1566'  
 Oil @ None Reported  
 Perforated @

Removed 2" Tubing and cleaned out to 1700', set permanent bridge at 1700'. Filled with stone & clay to 1670' and cement to 1642'. Run 1638' of 3 1/2" tubing with 7" x 3" Hold Down Tension Packer set at 1582' with 42' of Tail pipe.

Fractured 10-28-64 by Dowell with 45,000# of sand & 1009 bbls. of water, Breakdown pressure 1500 to 2500#, Injection pressure 2700# at the rate of 24.6 bbls. per minute. Test before fracture 5,000 cu. ft., Rock pressure 500# in 72 hours. Test after fracture 1,565,000 cu. ft. Rock pressure 380# in 1 hour.

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1. Notify State Inspector, **Barry Stollings 304-552-4194**, 48 hrs. prior to commencing operations.
2. Check TD w/wireline
3. Attempt to pull 3" w/packer @ 1582' if unable to pull. Run bond log to find freepoint of 3", cut 3" @ free point and pull.
4. TIH w/tbg to 1642', set 200' C1A cement plug from 1642' to 1442'. (Gas show @ 1500'-1566 & 6 5/8" @ 1508')
5. TOOH w/tbg to 1442' gel hole 1442' to 1200'.
6. TOOH w/tbg, Free point 6 5/8" csg, cut csg @ free point, TOOH w/csg.
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. TIH w/tbg to 1200' set 200' C1A cement plug from 1200' to 1000', (6 5/8" csg cut @ 1100'est.
9. TOOH w/tbg to 1000' gel hole 1000' to 900'.
10. TOOH w/tbg to 900', set 100' C1A cement plug 900' to 800'. (8 1/4" csg seat @ 825' pulled & elevation @ 861').
11. TOOH w/tbg to 800' gel hole from 800' to 200'.
12. TOOH w/tbg to 200', set 200' C1A cement plug, 200' to 0'. (10" csg seat @ 120' pulled)
13. Erect monument with API#, Date plugged, EQT
14. Reclaim location and road to WV-DEP specifications.

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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WV Department of  
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Quadrangle Vadis SW

Permit No. 1363

WELL RECORD  
WELL TO BE FRACTURED

Oil or Gas Well GAS  
(KIND)

Company Carnegie Natural Gas Company  
 Address 3904 Main Street, Pittsburgh, Pa. 15121  
 Farm B. J. Rinehart Acres 100  
 Location (waters) \_\_\_\_\_  
 Well No. 1-658 Elev. 861  
 District Freamans Creek County Lewis  
 The surface of tract is owned in fee by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Mineral rights are owned by See Below  
 Address \_\_\_\_\_  
 Drilling commenced July 25, 1916  
 Drilling completed August 31, 1916  
 Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 With \_\_\_\_\_  
 Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
 \_\_\_\_\_ /10ths Merc. in 2 Inch  
 Volume 622,000 Cu. Ft.  
 Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 WELL ACIDIZED \_\_\_\_\_  
 WELL FRACTURED \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer <u>Wall</u>
16			
18			
10	<u>120</u>	<u>0</u>	Size of <u>5/8 x 2</u>
8 1/2	<u>825</u>	<u>0</u>	
6 3/4	<u>1508</u>	<u>1508</u>	Depth set <u>1135</u>
5 3/16			
3			Perf. top _____
2	<u>1542</u>	<u>1542</u>	Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

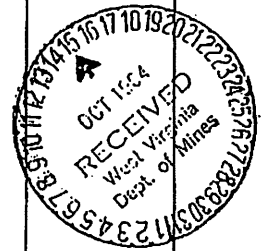
CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
 COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

RESULT AFTER TREATMENT

ROCK PRESSURE AFTER TREATMENT

Fresh Water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Conductor			16				
Little Dunkard			440	480			
Big Dunkard			540	570			
Gas Sand			650	690			
1st Salt Sand			790	865			
2nd Salt Sand			1060	1290			
Maxton			1348	1363			
Little Lime			1375	1390			
Pencil Cave			1390	1400			
Big Lime			1400	1450			
Big Injun			1450	1644	Gas	1513 & 1612	
Gantz Sand			1693	1813			
30 Foot Sand			1980	2010			
Gordon Sand			2100	2104			
Total Depth				2416			



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STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

Quadrangle Vadis, S.W.

Permit No. LEW-1363-FRAC.

WELL RECORD

Oil &  
 Oil or Gas Well Gas  
 (KIND)

Company <u>Carnegie Natural Gas Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>3904 Main Street, Munhall, Pa. 15121</u>	Size			
Farm <u>B. J. Rinehart</u> Acres <u>100</u>	16			Kind of Packer
Location (waters) <u>Walnut Fork</u>	13			
Well No. <u>1-658</u> Elev. <u>861</u>	10			Size of
District <u>Freemans Creek</u> County <u>Lewis</u>	8 1/4			Depth set
The surface of tract is owned in fee by _____	6 3/4			
Address _____	5 3/16			Perf. top
Mineral rights are owned by <u>See below</u>	3			Perf. bottom
Address _____	2			Perf. top
Drilling commenced _____	Liners Used			Perf. bottom
Drilling completed _____				
Date Shot _____ From _____ To _____				
With _____				
Open Flow _____ /10ths Water in _____ Inch				
_____ /10ths Merc. in _____ Inch				
Volume _____ Cu. Ft.	CASING CEMENTED	SIZE	No. Ft.	Date
Rock Pressure _____ lbs. _____ hrs.				
Oil _____ bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT	FEET	INCHES	
WELL ACIDIZED _____		FEET	INCHES	FEET
		FEET	INCHES	FEET
WELL FRACTURED <u>10-28-64</u>				

RESULT AFTER TREATMENT 1,565,000 Cu. Ft.

ROCK PRESSURE AFTER TREATMENT 380# - 1 hour

Fresh Water \_\_\_\_\_ Feet Salt Water \_\_\_\_\_ Feet

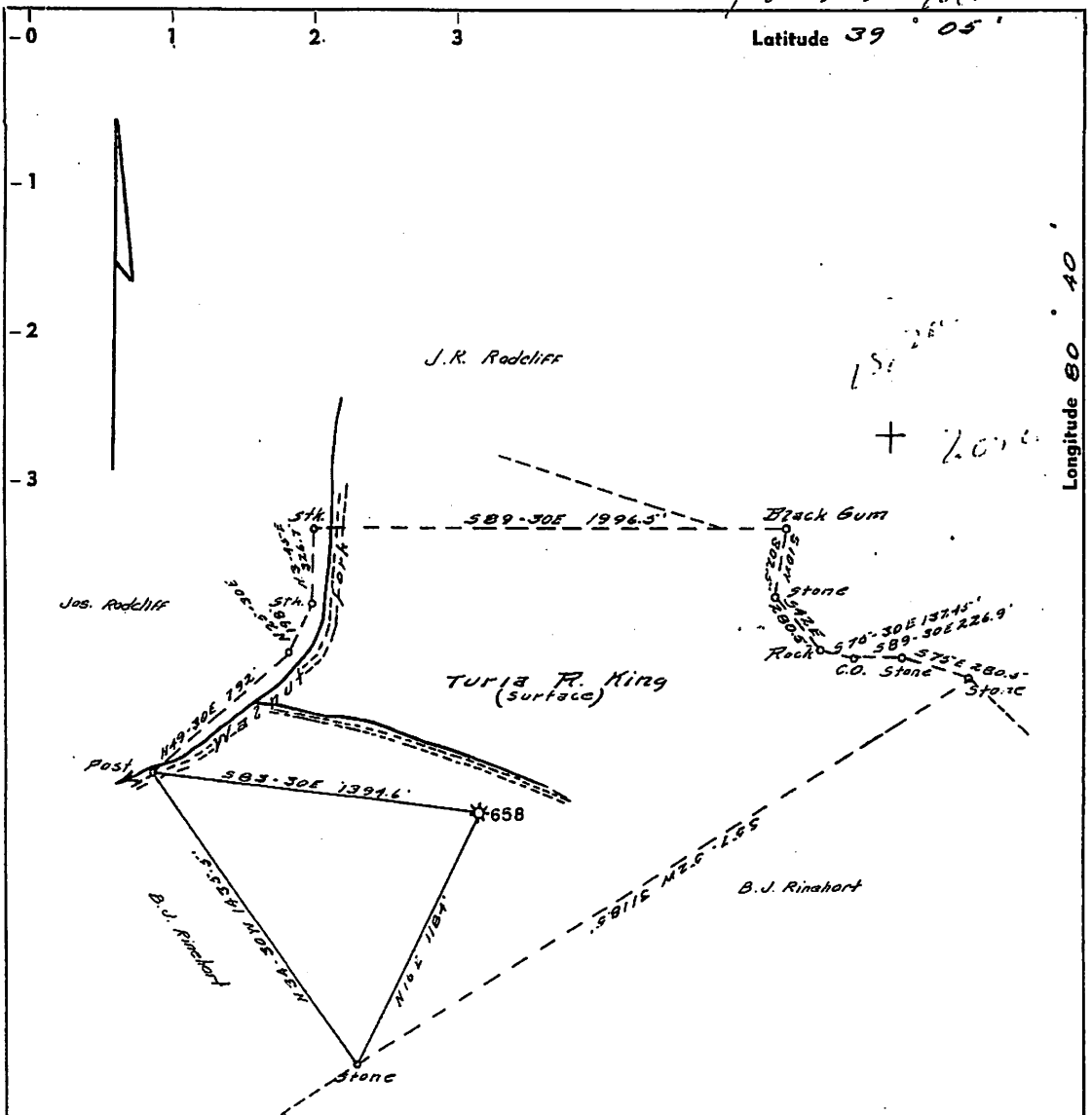
Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Removed 2" tubing and cleaned out to 1700'. Set permanent bridge stone and clay to 1670' and cement to 1642'. Run 1638' of 3 1/2" down tension packer set at 1582' with 42' of tail pipe. Commenced cleaning out 9-25-64. Completed cleaning out 10-30-64. Test before fracture - 5,000 cu. ft. and 500# R.P. in 72 hours. Total depth is now 1642'.							
Mineral Rights owned by:							
Emory Custer 4210 - 28th St. N.E. Canton 5, Ohio				Turis R. King, Alum Bridge, W. Va.			
Lena Coats 803 South-B, St Mornouth, Illinois				J. Carl Rinehart 301 Masonic Street Pennsboro, W. Va.			
Alice M. Sutton 575 Trade Winds Drive Dunedin, Florida				Oleta Rinehart Box 14 Alum Bridge, W. Va.			
Samuel Lewis Custer, Atty-in-fact Heirs of H. E. Custer Route #7, Newark, Ohio				C. H. Custer - Deceased			
J. R. Floyd Route #5, Box 129 Parkersburg, W. Va.							



(over)

01/12/2018

41-01363P  
12 1 1 / 61.



I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Error in closure: 1/380

B.M. Hurst, cliff at facing south, 4.5 feet below top: bronze tablet stamped "B15 GRAFTON" B1A.958

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- Fracture
- New Location
- Drill Deeper
- Redrill
- Abandonment

Company CARNEGIE NATURAL GAS  
 Address 3904 MAIN ST MUNHALL PA  
 Farm B. J. RINHART  
 Tract \_\_\_\_\_ Acres 100 Lease No. E7907-32  
 Well (Farm) No. 1 Serial No. E 658  
 Elevation (Spirit Level) 861'  
 Quadrangle VAD15  
 County LEWIS District FREEMANS CO.  
 Engineer John O. Cook  
 Engineer's Registration No. 1850  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date 10-6-64 Scale 1" = 600'

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

WELL LOCATION MAP  
FILE NO. LEW-1363-FRAC

+ 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.

01/12/2018



WW-4-A  
Revised 6/07

1) Date: November 9, 2017  
2) Operator's Well Number  
651931 (Rinehart #658)  
3) API Well No.: 47 041 - 01363  
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**

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WV Department of  
Environmental Protection

4) Surface Owner(s) to be served:  
(a) Name Joseph and Sarah King  
Address 238 Walnut Fork  
Alum Bridge, WV 26321  
  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
6) Inspector Barry Stollings  
Address 28 Conifer Drive  
Bridgeport, WV 26330  
Telephone (304) 552-4194

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
  
(b) Coal Owner(s) with Declaration  
Name Blackhawk Mining  
Address 3228 Summit Square Place  
Suite 180  
Lexington, KY 40509  
  
(c) Coal Lessee with Declaration  
Name None  
Address \_\_\_\_\_

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

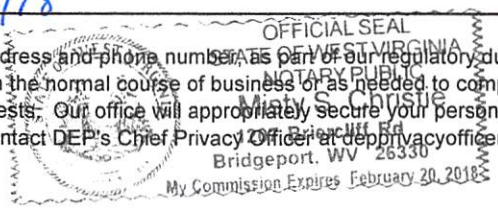
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
  - (2) The plat (surveyor's map) showing the well location on Form WW-6.
- The reason you received these documents is that you have 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: Regional Land Supervisor  
Address: PO Box 280  
Bridgeport, WV 26330  
Telephone: (304) 848-0076

Subscribed and sworn before me this 14th day of November, 2017  
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).



WW-9  
Revised 5/16

Page \_\_\_\_ of \_\_\_\_  
2) Operator's Well Number  
**651931 (Rinehart #658)**  
3) API Well No.: 47 041 - 01363

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

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WV Department of  
Environmental Protection

Operator Name: EQT PRODUCTION COMPANY OP CODE: \_\_\_\_\_

Watershed (HUC 10): Walnut Fork Quadrangle: Vadis 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 40-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? \_\_\_\_\_

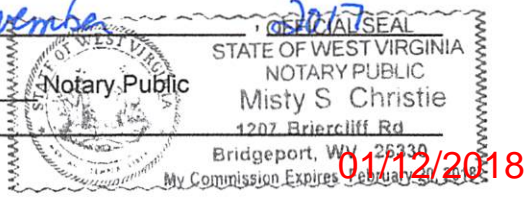
Permittee shall provide written notice to the Office of the Oil and Gas of any load of drill cuttings or associated waste rejected at ar West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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.

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.

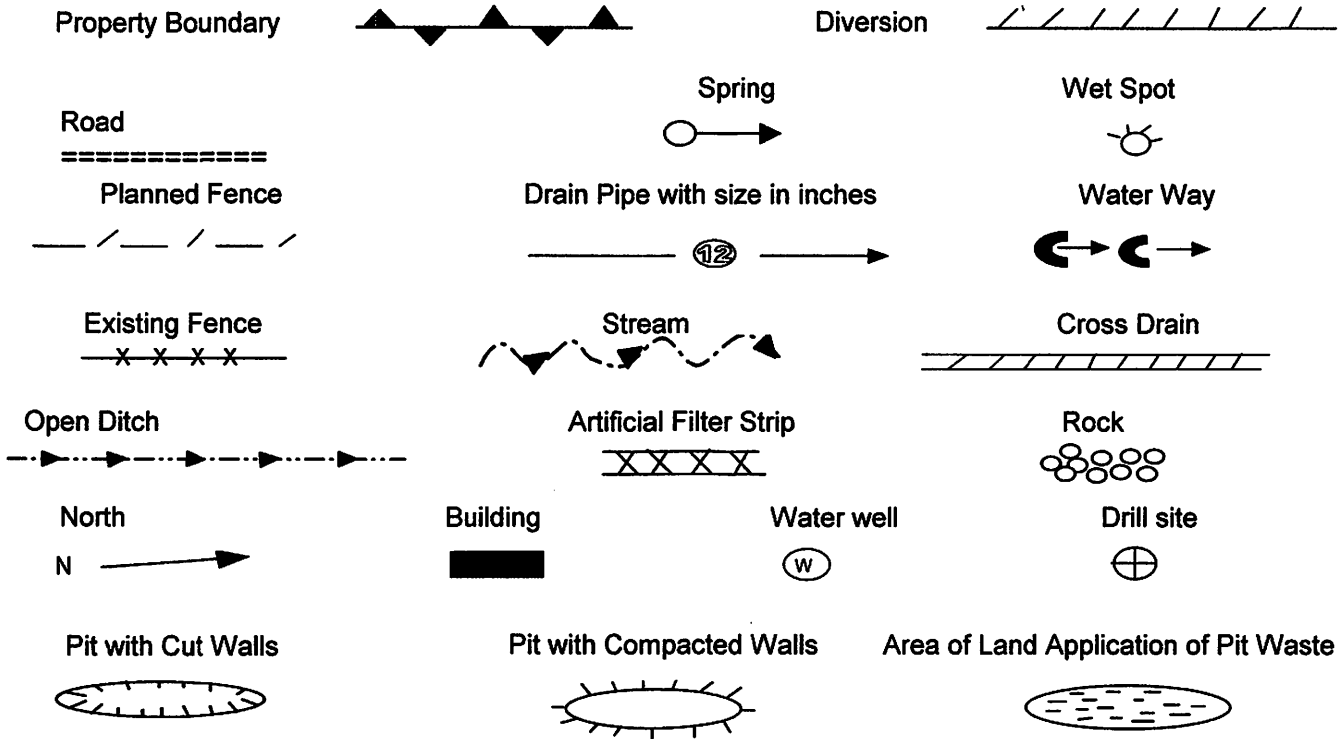
Company Official Signature \_\_\_\_\_  
Company Official (Typed Name) Victoria J. Roark  
Company Official Title Regional Land Supervisor - WV

Subscribed and sworn before me this 14th day of November, 2017  
My Commission Expires 2/20/18



**OPERATOR'S WELL NO.:**  
**651931 (Rinehart #658)**

**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.

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Plan approved by: \_\_\_\_\_

NOV 22 2017

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

WV Department of  
Environmental Protection

Title: \_\_\_\_\_ Date: \_\_\_\_\_

Field Reviewed?          Yes          No

<b>EQT Production Water plan</b> <b>Offsite disposals</b>
--

**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: Vadis 7.5'

Scale: 1" = 500'

NOV 22 2017

County: Lewis

Date: October 26, 2017

WV Department of  
Environmental Protection

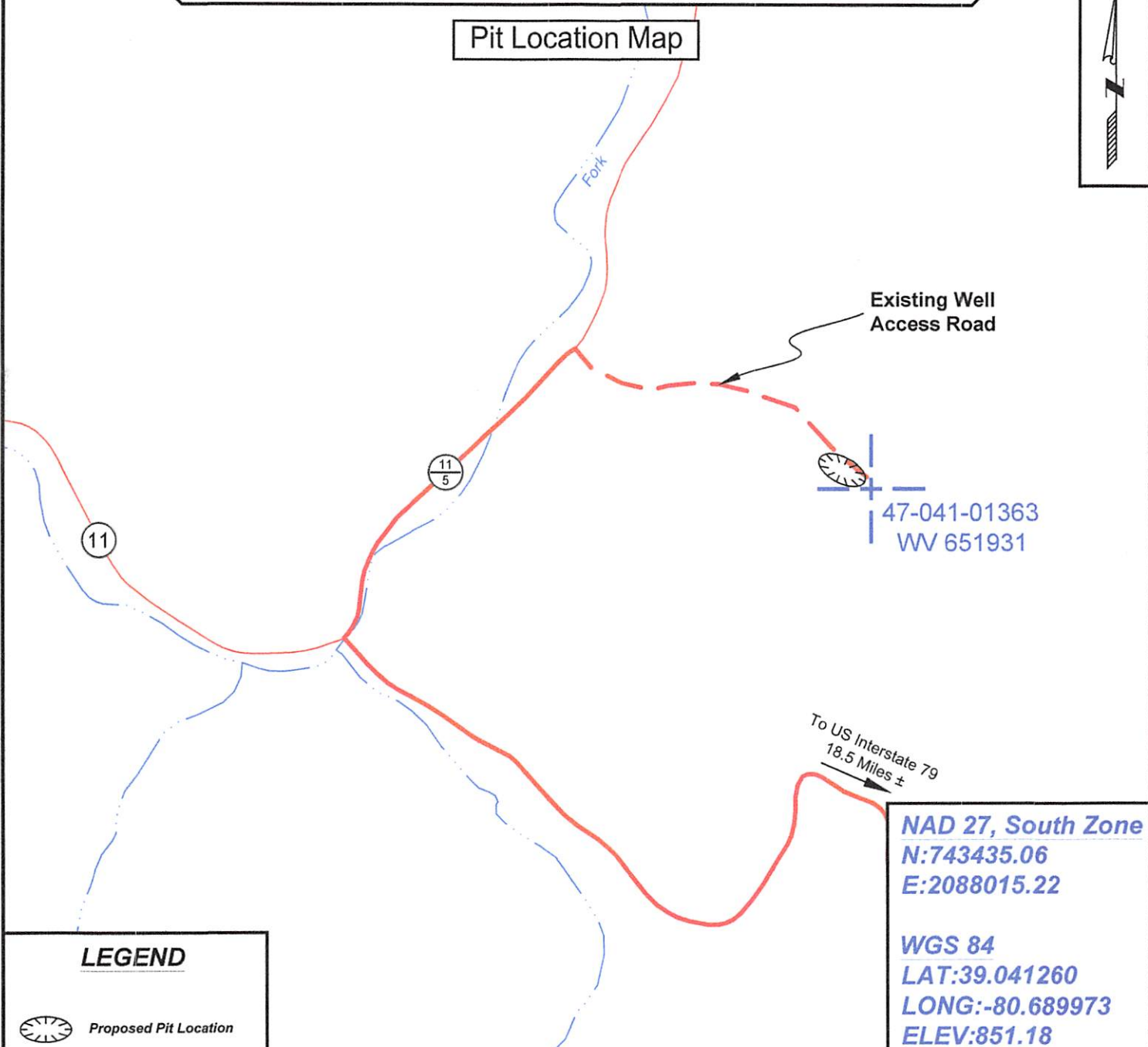
District: Freemans Creek

Project No: 73-12-00-08

Highway

# 47-041-01363 WV 651931 (Rinehart #658)

## Pit Location Map



Existing Well  
Access Road

47-041-01363  
WV 651931

To US Interstate 79  
18.5 Miles ±

**NAD 27, South Zone**  
N:743435.06  
E:2088015.22

**WGS 84**  
LAT:39.041260  
LONG:-80.689973  
ELEV:851.18

### LEGEND

 Proposed Pit Location



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

01/12/2018

41-01363P

Topo Quad: Vadis 7.5'

Scale: 1" = 200'

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Office of Oil and Gas

County: Lewis

Date: October 26, 2017

NOV 22 2017

District: Freemans Creek

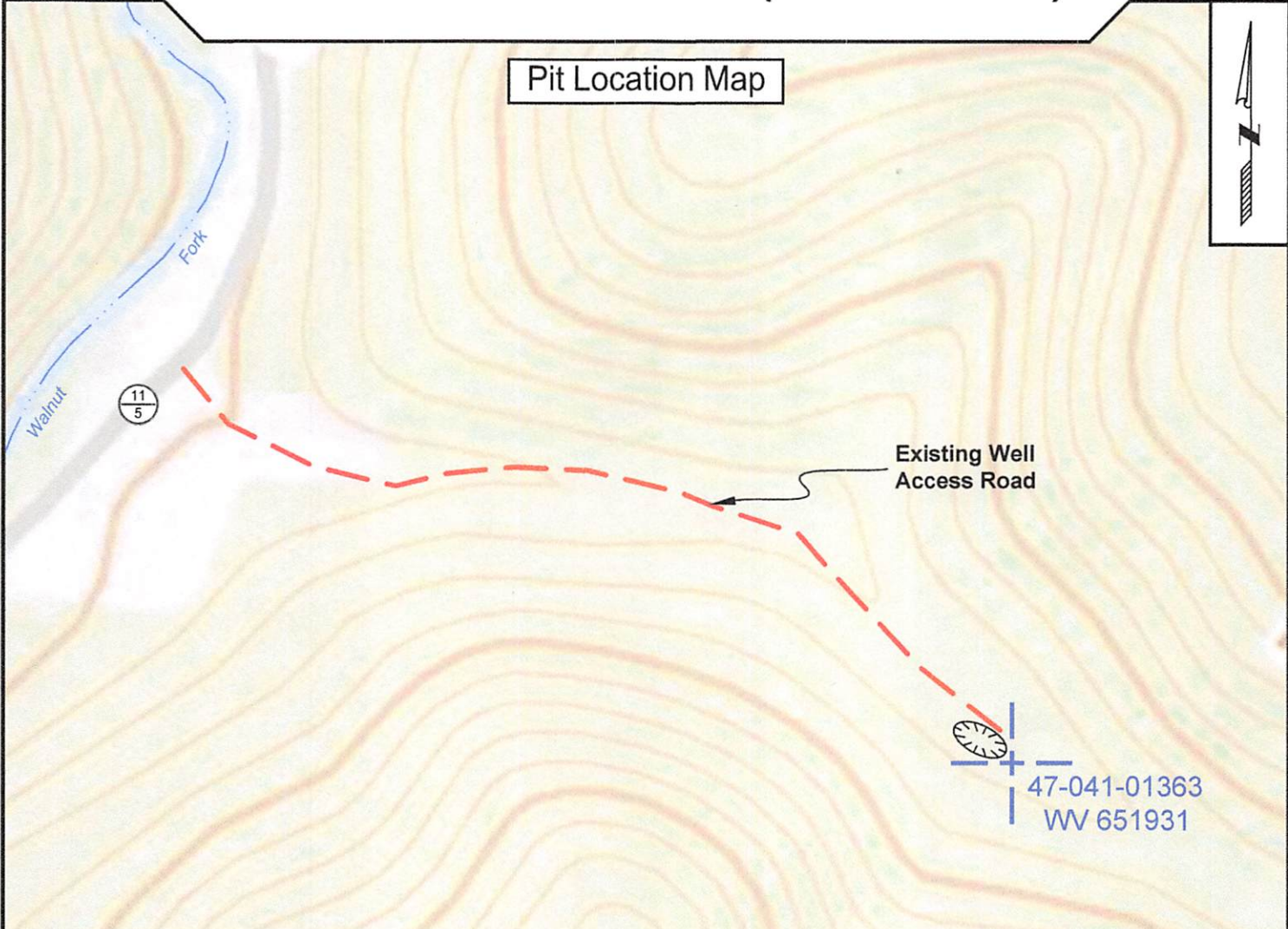
Project No: 73-12-00-08

WV Department of  
Environmental Protection

**47-041-01363 WV 651931 (Rinehart #658)**

Topo

Pit Location Map




Existing Well  
Access Road

47-041-01363  
WV 651931

NAD 27, South Zone  
N:743435.06  
E:2088015.22

WGS 84  
LAT:39.041260  
LONG:-80.689973  
ELEV:851.18

**LEGEND**

 Proposed Pit Location



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

01/12/2018

41-01363 P

Topo Quad: Vadis 7.5'

Scale: 1" = 2000'

RECEIVED  
Office of Oil and Gas

County: Lewis

Date: October 26, 2017

NOV 22 2017

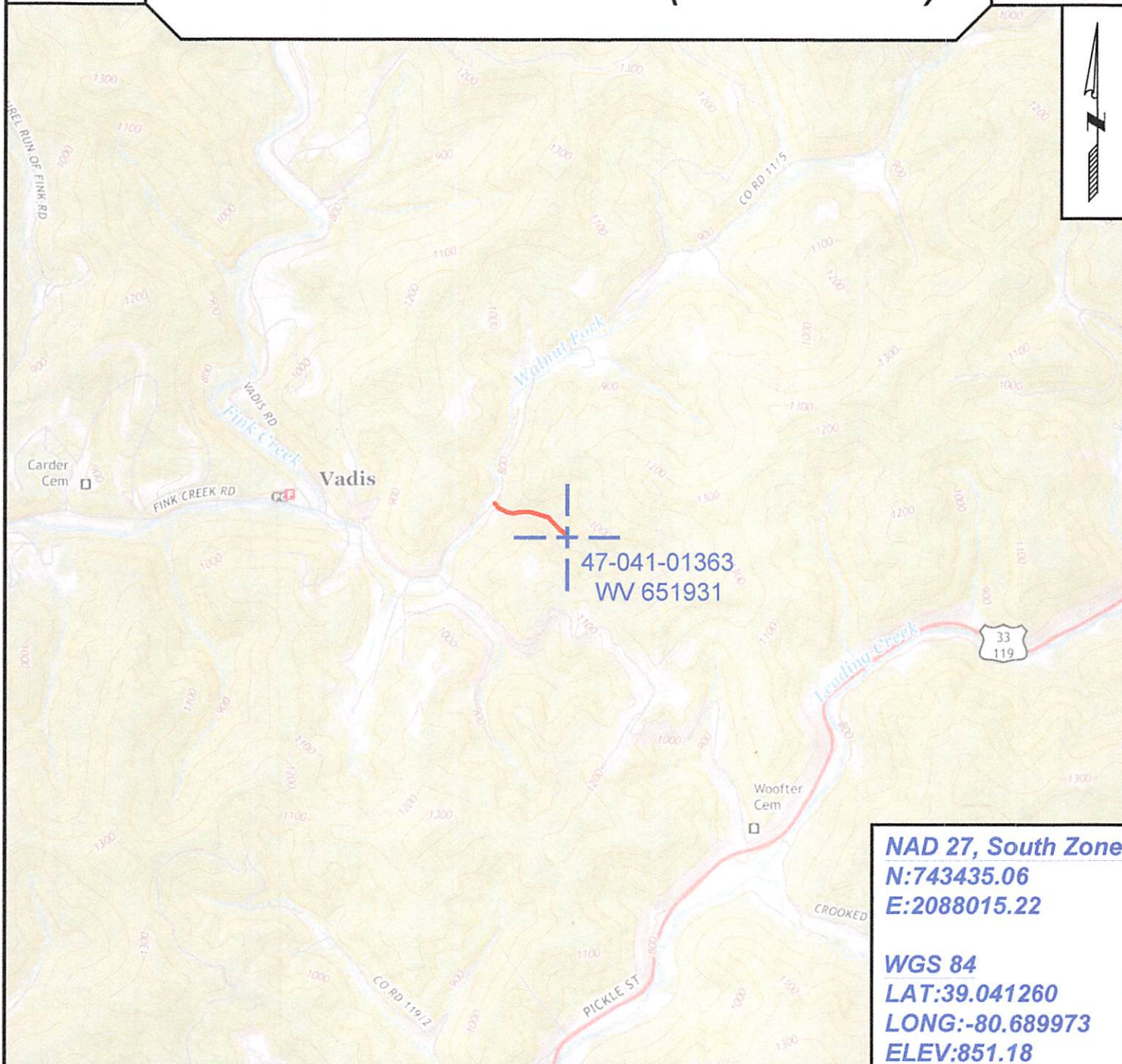
District: Freemans Creek

Project No: 73-12-00-08

WV Department of  
Environmental Protection

**47-041-01363 WV 651931 (Rinehart #658)**

Topo



47-041-01363  
WV 651931

**NAD 27, South Zone**  
**N:743435.06**  
**E:2088015.22**

**WGS 84**  
**LAT:39.041260**  
**LONG:-80.689973**  
**ELEV:851.18**



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

01/12/2018

41-01363P

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Office of Oil and Gas

NOV 22 2017

WV Department of  
Environmental Protection



## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
LEASE NAME AND WELL No. Rinehart #658 WV 651931 47-041-01363

### POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 941 +/- Owner: Joseph S. & Sara King  
Address: 238 Walnut Fork, Alum Bridge, WV 26321 Phone No. \_\_\_\_\_  
Comments: \_\_\_\_\_

**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: Vadis 7.5'

Scale: 1" = 2000'

RECEIVED  
Office of Oil and Gas

County: Lewis

Date: October 26, 2017

NOV 22 2017

District: Freemans Creek

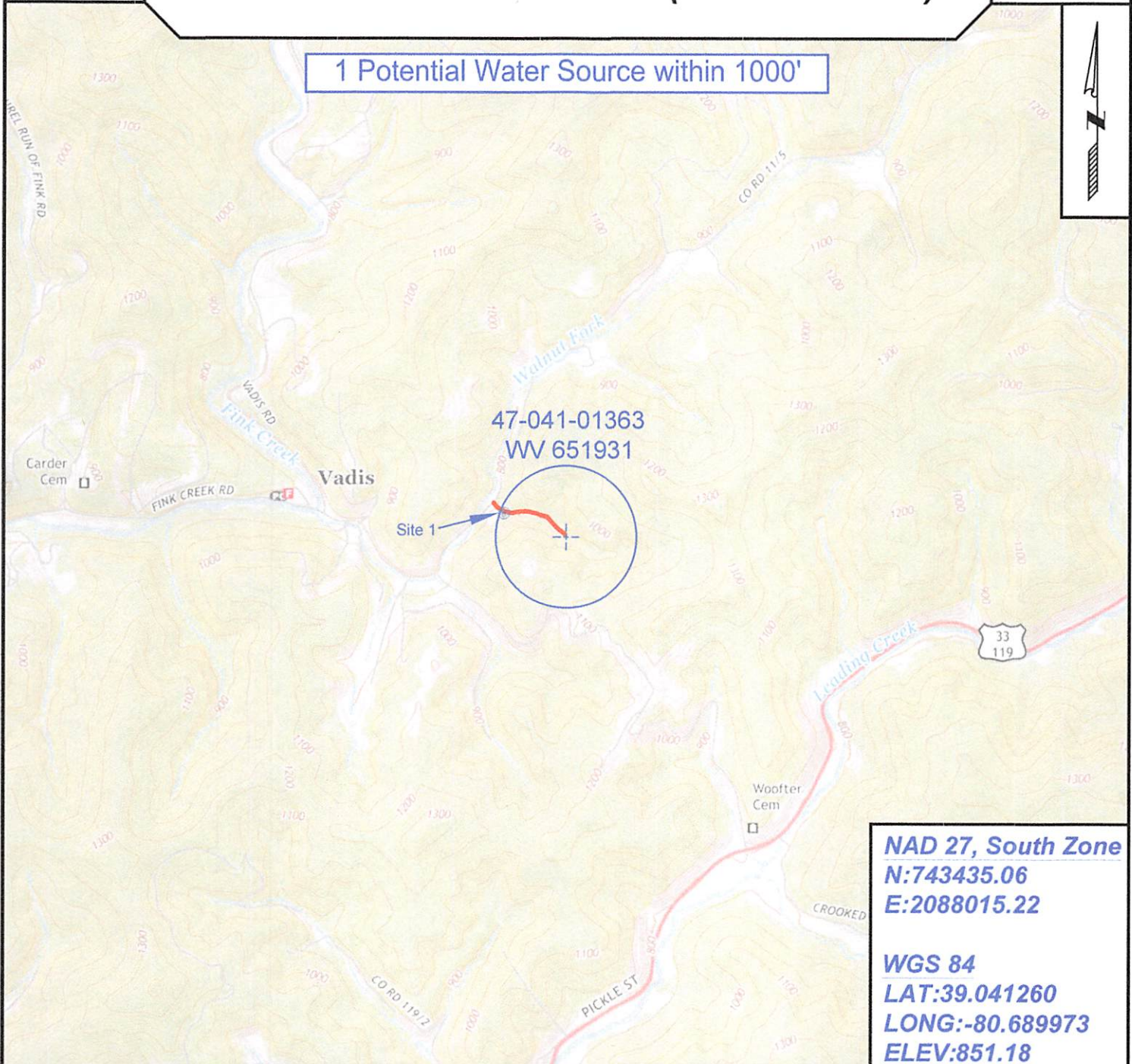
Project No: 73-12-00-08

WV Department of  
Environmental Protection

Water

# 47-041-01363 WV 651931 (Rinehart #658)

1 Potential Water Source within 1000'



47-041-01363  
WV 651931

Site 1

**NAD 27, South Zone**  
**N:743435.06**  
**E:2088015.22**

**WGS 84**  
**LAT:39.041260**  
**LONG:-80.689973**  
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PREPARED FOR:

**EQT Production Company**

P.O. Box 280  
Bridgeport, WV 26330

01/12/2018

WW-7  
8-30-06

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NOV 22 2017

WV Department of  
Environmental Protection



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-041-01363 WELL NO.: WV 651931 (Rinehart #658)

FARM NAME: B. J. Rinehart

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Lewis DISTRICT: Freemans Creek

QUADRANGLE: Vadis 7.5'

SURFACE OWNER: Joseph & Sarah King

ROYALTY OWNER: Nancy J. White, et al.

UTM GPS NORTHING: 4321401

UTM GPS EASTING: 526830 GPS ELEVATION: 259 m (851 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.

*Steve Obama*  
Signature

PS# 2180  
Title

10/31/17  
Date