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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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Tuesday, January 26, 2021  
WELL WORK PERMIT  
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY  
625 LIBERTY AVE., SUITE 1700  
PITTSBURGH, PA 15222

Re: Permit approval for DENVER 7H  
47-103-03365-00-00

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: DENVER 7H  
Farm Name: AUDREY L. LAVELLE  
U.S. WELL NUMBER: 47-103-03365-00-00  
Horizontal 6A New Drill  
Date Issued: 1/26/2021

# PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) 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. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

## PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to [DEPOOGNotify@wv.gov](mailto:DEPOOGNotify@wv.gov).

WW-6B  
(04/15)

API NO. 47-103 - ~~03365~~ <sup>03365</sup>  
OPERATOR WELL NO. 7H  
Well Pad Name: Denver

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

1) Well Operator: EQT Production Company 306686 Wetzel Center Littleton  
Operator ID County District Quadrangle

2) Operator's Well Number: 7H Well Pad Name: Denver

3) Farm Name/Surface Owner: Audrey L Lavelle Public Road Access: CR 7/11

4) Elevation, current ground: 1,363' Elevation, proposed post-construction: 1,350'

5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_

Other \_\_\_\_\_

(b) If Gas Shallow  Deep \_\_\_\_\_

Horizontal  \_\_\_\_\_

6) Existing Pad: Yes or No No

*DMAH 10/28/20*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus, 7,478', 51', 2,620 psi

8) Proposed Total Vertical Depth: 6,791'

9) Formation at Total Vertical Depth: Elk

10) Proposed Total Measured Depth: 6,809'

11) Proposed Horizontal Leg Length: 0'

12) Approximate Fresh Water Strata Depths: 17', 236'

13) Method to Determine Fresh Water Depths: Offset Wells - 47-103-01750 & 47-103-02399

14) Approximate Saltwater Depths: 1,842', 1,975'

15) Approximate Coal Seam Depths: 780'-783', 1,020'-1,023', 1,123'-1,128'

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes \_\_\_\_\_ No

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_

Depth: \_\_\_\_\_

Seam: \_\_\_\_\_

Owner: \_\_\_\_\_

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WEST VIRGINIA  
Department of Environmental Protection

WW-6B  
(04/15)

API NO. 47- 103 - 03365  
 OPERATOR WELL NO. 7H  
 Well Pad Name: Denver

18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	26	New	A-500	85.6	40	40	50 ft <sup>3</sup> / CTS
Fresh Water	13 3/8	New	J-55	54.5	1178	1178	1100 ft <sup>3</sup> / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2605	2605	1050 ft <sup>3</sup> / CTS
Production	5 1/2	New	P-110	20	6809	6809	500' above intermediate casing
Tubing							
Liners							

*DWA 10/27/20*

<b>TYPE</b>	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	26	30	0.312	1050	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A / Type 1	1.13 - 1.19
Coal							
Intermediate	9 5/8	12 3/8	0.352	3520	2816	Class A / Type 1	1.13 - 1.19
Production	5 1/2	8 1/2	0.361	14360	11488	Class A/H	1.04 - 2.10
Tubing							
Liners							

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**PACKERS**

Kind:				
Sizes:				
Depths Set:				

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill well to the Elk Formation. Drill the vertical, kick off and partially drill curve. This operation will be completed to accommodate future Marcellus well drilling.

*DMH 10/27/20*

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.1%) of chemicals (including 15% Hydrochloric acid, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10,000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000-600,000 pounds of proppant per stage.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 37.23 acres

22) Area to be disturbed for well pad only, less access road (acres): 10.26 acres

23) Describe centralizer placement for each casing string:

- Surface: Bow spring centralizers – One centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers– One centralizer at the shoe and one spaced every 500'.
- Production: One solid body centralizer spaced every joint from production casing shoe to KOP.

24) Describe all cement additives associated with each cement type:

Conductor: Class A no additives  
Surface: Calcium Chloride. Used to speed the setting of cement slurries  
Intermediate: Calcium Chloride. Used to speed the setting of cement slurries.  
Production: Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent

25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.  
Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.  
Production: Perform a cleanup cycle by pumping 3-8 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

\*Note: Attach additional sheets as needed.



EQT PRODUCTION COMPANY  
400 Woodcliff Drive | Canonsburg, PA 15317

October 12, 2020

Mr. Taylor Brewer  
West Virginia Department of Environmental Protection  
Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304

Re: Casing on Denver 7H

Dear Mr. Brewer,

The 13-3/8" surface casing will be set at 1,178' KB, 50' below the deepest workable coal seam and 942' below the deepest fresh water. The 9-5/8" intermediate string will be set at 2,605' KB, 50' below the base of the Big Injun formation.

If you have any questions, please do not hesitate to contact me at 724-746-9073.

Sincerely,

A handwritten signature in blue ink, appearing to read 'J. Zavatchan', is written over a light blue circular stamp.

John Zavatchan  
Project Specialist - Permitting

Enc.

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WV Department of  
Environmental Protection

WW-9  
(4/16)

API Number 47 - 103 - 03365  
Operator's Well No. Denver 7H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) Lower West Virginia Fork Fish Creek Quadrangle Littleton

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: N/A

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number 0014, 8462, 4037 )
- Reuse (at API Number Various )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain DWdH 10/27/20 )

Will closed loop system be used? If so, describe: Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Attached

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud

Additives to be used in drilling medium? See Attached

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? See Attached List

Permittee shall provide written notice to the Office of 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 August 1, 2005, by the Office of Oil and Gas of the West Virginia Department 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 submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]

Company Official (Typed Name) John Zavatchan

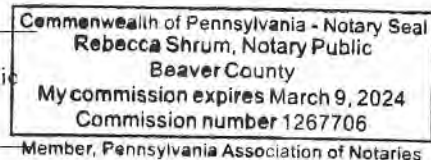
Company Official Title Project Specialist - Permitting

Subscribed and sworn before me this 2nd day of November, 2020

[Signature]

Notary Public

My commission expires March 9, 2024





Form WW-9

Operator's Well No. Denver 7H

**EQT Production Company**

Proposed Revegetation Treatment: Acres Disturbed No additional disturbance Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 1/3 lbs/acre

Mulch 2 Tons/acre

**Seed Mixtures**

<b>Temporary</b>		<b>Permanent</b>	
Seed Type	lbs/acre	Seed Type	lbs/acre
<u>KY-31</u>	<u>40</u>	<u>Orchard Grass</u>	<u>15</u>
<u>Alsike Clover</u>	<u>5</u>	<u>Alsike Clover</u>	<u>5</u>
<u>Annual Rye</u>	<u>15</u>		

**Attach:**

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W) and area in acreage, of the land application area

Photocopied section of involved 7.5' topographic sheet.

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WV DEP  
ENVIRONMENTAL PROTECTION

Plan Approved by: Derek M. Haught

Comments: Pre-seed/mulch all disturbed areas as soon as reasonably possible, per regulation. Upgrade E&S as necessary per WV DEP E&S Manual.

Title: Oil & Gas Inspector

Date: 10/28/20

Field Reviewed?  Yes  No

103-03365

**EQT Production**

**Wellbore Diagram**

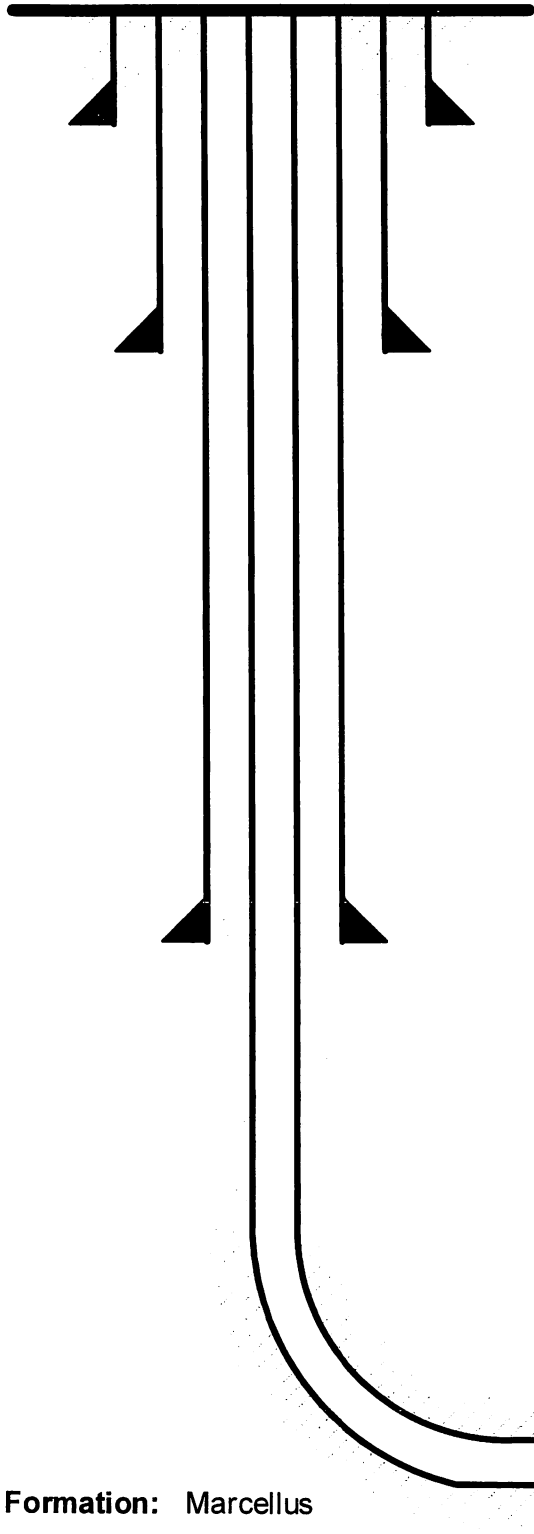
Well: Denver 7H

County: Wetzel

Pad: Denver

State: West Virginia

Elevation: 1350' GL 1363' KB



**Conductor @ 40'**

26", 85.6#, A-500, cement to surface w/ Class A

**Surface @ 1,178'**

13-3/8", 54.5#, J-55, cement to surface w/ Class A/Type I

**Intermediate @ 2,605'**

9-5/8", 36#, J-55, cement to surface w/ Class A/Type I

**Production @ 6,809' MD / 6,791' TVD**

5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H

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WV DEPARTMENT OF  
ENVIRONMENTAL PROTECTION

*DMAH 10/27/20*

**Formation: Marcellus**

NOT TO SCALE

**WEST VIRGINIA GEOLOGICAL PROGNOSIS**

LIT67

Horizontal Well  
**DENVER 7H**  
 LIT67

**Drilling Objectives:**

Marcellus  
 Littleton  
 Wetzel

**Quad:**

**County:**

**Elevation:**

**Recommended Azimuth**

1363 KB  
 315 Degrees

1350 GL

Recommended total wellbore length:

**Proposed Logging Suite:**

-No Pilot Hole Needed

**Coal requirements:**

Run a directional survey from the surface through the deepest coal seam

**ESTIMATED FORMATION TOPS**

4710302537      4710302580

Formation	Top (TVD)	Base (TVD)	Lithology	Comments
Fresh Water Zone	1	236		FW from offsets @ 236,17, . . . .
Waynesburg Coal	780	783	Coal	
Sewickley Coal	1020	1023	Coal	
Pittsburgh Coal	1123	1128	Coal	SW @ 1842,1975. .
Big Injun	2431	2555	Sandstone	Hydrocarbon prod/show in offset @ 1998,2227,2391,3106,3393, . . .
Int. csg pt	2605			50 ft below Big Injun
Berca	2674	3023	Sandstone	
Gantz	3023	3202	Silty sand	
Fifty foot	3202	3246	Silty sand	Outside of Storage Boundary
Thirty foot	3269	3296	Silty sand	
Bayard	3348	3476	Sandstone	
Upper Speechley	3850	3840	Silty sand	
Speechley	3860	3937	Silty sand	
Balltown	3937	4264	Silty sand	
Bradford	4264	4394	Silty sand	
Benson	5403	5813	Silty sand	
Alexander	5813	6265	Silty sand	
Elk	6265	7019	Silty sand	
Sonyea	7019	7176	Gray shale	
Middlesex	7176	7217	Black Shale	
Genesee	7217	7296	Gray shale interbedded	
Genesee	7296	7324	Black Shale	
Tully	7324	7347	Limestone	
Hamilton	7347	7453	Gray shale with some	
Marcellus	7453	7503	Black Shale	
-Purcell	7473	7475	Limestone	
-Cherry Valley	7486	7488	Limestone	
-Lateral Zone	7478			
Onondaga	7503		Limestone	

Top RR      Base RR  
 RED ROCK SHOWN NOT LISTED IN

Target Thickness	51 feet
Max Anticipated Rock Pressure	2620 PSI

**Comments:**

Note that this is a TVD prog for a horizontal well (azimuth of 315 degrees, target formation = Marcellus). All measurements taken from estimated KB elevation. Water and coal information estimated from surrounding well data.

**RECOMMENDED CASING POINTS**

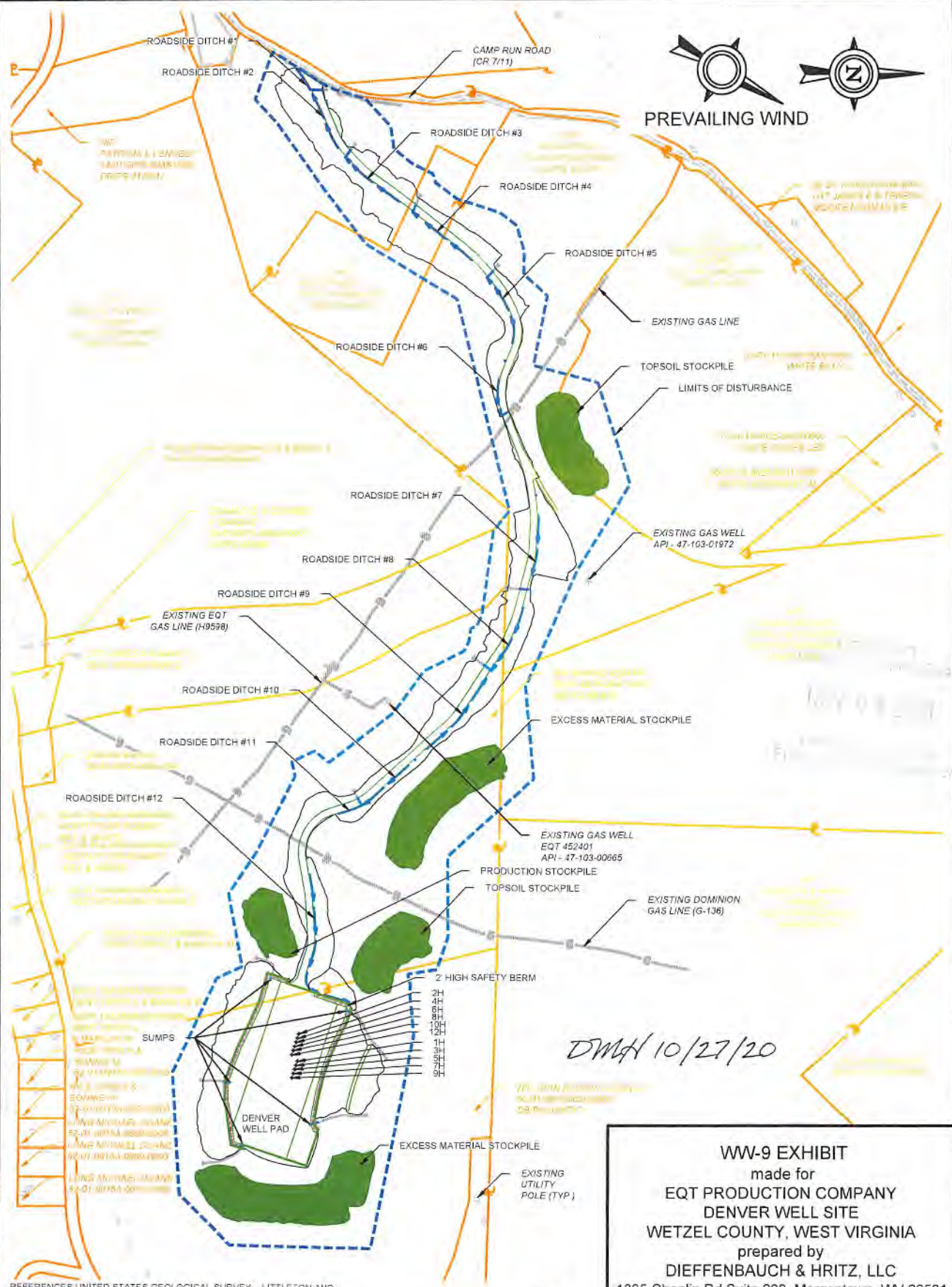
	CSG OD		CSG DEPTH:	Planned Depth	
<b>Conductor:</b>	24"			40	
<b>Freshwater /</b>	13 3/8"			1178	50' below deepest mineable coal
<b>Intermediate 1:</b>	9 5/8"			2605	50' below big injun
<b>Production:</b>	5 1/2"			@ TD	

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103-03365



PREVAILING WIND



SCALE: 1:450 PLOTTED: 10/22/2020 8:16 AM FILE: X:\OIL AND GAS\EGT2020020070-004 - DENVER\ADD (K DRIVE) - W\TO CLIENT\DWG\DENVER\_WW-9 EXHIBIT.DWG

REFERENCES UNITED STATES GEOLOGICAL SURVEY - LITTLETON AND BIG RUN QUADRANGLES, WV, 7.5 MINUTE SERIES

SCALE: 0 450 ft.

DWG 10/27/20

**WW-9 EXHIBIT**  
made for  
**EQT PRODUCTION COMPANY**  
**DENVER WELL SITE**  
**WETZEL COUNTY, WEST VIRGINIA**  
prepared by  
**DIEFFENBAUCH & HRITZ, LLC**  
1095 Chaplin Rd Suite 200, Morgantown, WV 26501  
Phone: 304-985-5555 Fax: 304-985-5557

EQT Production Water Plan									
Offsite Disposals for Unconventional Wells									
Facility Name	Address	Address 2	City	State	Zip	Phone	County	State	Permit Number
CWS Trucking Inc.	P.O. Box 391		Williamstown	WV	26187	740-516-3586	Noble	OH	3390
Broad Street Energy LLC	37 West Broad Street	Suite 1100	Columbus	OH	43215	740-516-5381	Washington	OH	8462
LAD Liquid Assets Disposal Inc.	226 Rankin Road		Washington	PA	15301	724-350-2760	Ohio	WV	USEPA WV 0014
Triad Energy	PO Box 430		Reno	OH	45773	740-516-6021 740-374-2940	Noble	OH	4037
Tri County Waste Water Management, Inc.	1487 Toms Run Road		Holbrook	PA	15341	724-627-7178 724-499-5647	Greene	PA	TC-1009
King Excavating Co. Advance Waste Services	101 River Park Drive		New Castle	PA	16101		Lawrence	PA	PAR000029132
Waste Management - Meadowfill Landfill	Rt. 2, Box 68 Dawson Drive		Bridgeport	WV	16330	304-326-6027	Harrison	WV	SWF-1032-98 Approval #100785WV
Waste Management - Northwestern Landfill	512 E. Dry Road		Parkersburg	WV	26104	304-428-0602	Wood	WV	SWF-1025 WV-0109400
APEX Landfill	11 County Road 78	PO Box 57	Amsterdam	OH	43903	740-543-4389	Jefferson	OH	06-08438
Advanced Disposal - Chestnut Valley Landfill	1184 McClellandtown Road		McClellandtown	PA	15458	724-437-7336	Fayette	PA	100419
Westmoreland Sanitary Landfill	901 Tyrol Boulevard		Belle Vernon	PA	15012	724-929-7694	Westmoreland	PA	100277
Austin Master Services	801 North 1st Street		Martins Ferry	OH	43935	740-609-3800	Belmont	OH	2014-541
Belmont Solids Control	77505 Cadiz-New Athers Road		Cadiz	OH	43907	740-942-1739	Harrison	OH	2015-511
Diversified Resources	3111 Braun Rd.		Belpre	OH	45714	740-401-0413	Washington	OH	
Buckeye Brine	23986 Airport Road		Coshocton	OH	43812	740-610-1512 724-591-4393	Coshocton	OH	34-031-27177 34-031-27178 34-031-27241
Central Environmental Services	28333 West Belpre Pike		Coolville	OH	45723	304-488-0701	Athens	OH	
Nuverra - Nichols	10555 Veto Road		Belpre	OH	45714	330-232-5041	Washington	OH	34-119-2-8776
Nuverra - Goff	9350 East Pike Road		Norwich	OH	43767	330-232-5041	Muskingum	OH	34-167-2-3862
Nuverra - Wolf	5480 State Route 5		Newton Falls	OH	44444	330-232-5041	Trumbull	OH	34-155-2-1893
Nuverra - Pander	5310 State Route 5		Newton Falls	OH	44444	330-232-5041	Trumbull	OH	34-155-2-3795
Nuverra - AnnaRock D-1	3549 Warner Road		Fowler	OH	44418	330-232-5041	Trumbull	OH	34-155-2-2403

OCT 27 2011  
 10:00 AM  
 103-03365

103-03365

FQ Helen	199 Bowersock Road		Reno	OH	45773	740-374-2940 412-443-4397 740-236-2135	Washington	OH	34-167-2-9577
FQ Dexter	38505 Marietta Rd.		Dexter City	OH	45727	740-374-2940 412-443-4397 740-236-2135	Noble	OH	34-121-24037 34-121-24086
FQ Ritchie	122 Lonesome Pine Rd		Ellenboro	WV	26346	740-374-2940 412-443-4397 740-236-2135	Ritchie	WV	47-085-09721
FQ Mills	53610 TS Rd 706		Portland	OH	45770	740-374-2940 412-443-4397 740-236-2135	Meigs	OH	34-105-2-3619 34-105-2-3652 34-105-2-3637 34-105-2-3651
Petta Enterprises - OH	745 North 3rd Street		Cambridge	OH	43725	614-477-1368	Guernsey	OH	Ohio Chiefs Order 25-019
Petta Enterprises - WV	38 Technology Dr.		Tridelpia	WV	26059	740-255-5727	Ohio	WV	
Deep Rock Disposal	2341 OH-821		Marietta	OH	45750	304-629-0176	Washington	OH	34-167-2-9766

WV Dept. of  
 Environmental Protection  
 NOV 04 2009  
 Office of Air Quality

103-03365

## WW-9 Attachment

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.

- Air is used to drill the top-hole sections of the wellbore (surface, intermediate, and pilot). Water based mud may be necessary depending on hole conditions to stabilize and drill the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water based mud, or synthetic mud.

Additives to be used in drilling medium?

- Air - biodegradable oil lubricant, detergent, defoaming, water.
- Water based mud – Barite, viscosifer, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates.
- Synthetic mud – synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

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Office of Oil and Gas  
NOV 04 2020  
WV Dept. of Environmental Protection

EQT Production  
Hydraulic Fracturing Monitoring Plan  
Pad ID: Denver (LIT67)  
County: Wetzel

October 27, 2020

RECEIVED  
Office of the State Gas

NOV 04 2020

WV Dep. of Environmental Protection



## Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Wetzel County, WV prior to hydraulic fracturing at the following EQT wells on the Denver (LIT67) pad: 1H, 3H, 5H, 7H and 9H.

Due to the requirements under 35CSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation.

A report is required to be submitted along with a well work permit application.

The plan is being implemented as an additional safety measure to be utilized in conjunction with existing best management practices and emergency action plans for the site. These additional measures include coordination with well operators of the timing and location of the hydraulic fracturing, establishment of measures well operators should implement, and assurance that the OOG is notified of the timeline, as well as any issues that may arise during fracturing.

### 1. Communications with Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known wells and well operators within 500 feet of this pad and the lateral sections that are known or could reasonably be expected to be within range of the fracture propagation. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

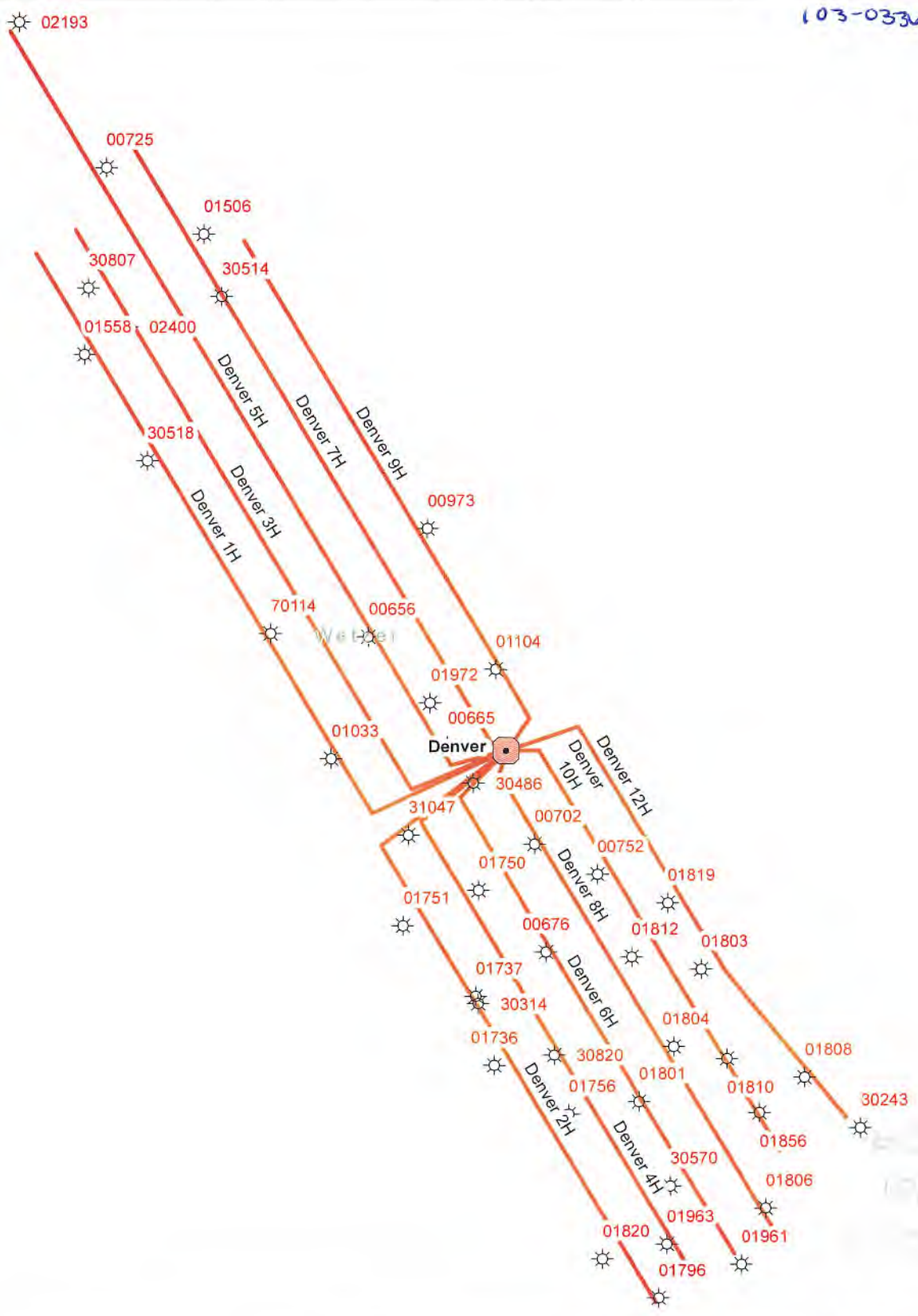
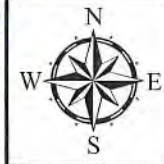
EQT will recommend to these operators at a minimum to:

1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
3. Inspect or install master valves or other necessary equipment for wellhead integrity capable of a pressure recommended by EQT
4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

### 2. Reporting

EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

103-03325



**EQT**  
 EQT Corporation  
 625 Liberty Avenue  
 Pittsburgh, PA 15222

Denver

Vertical Offsets and Foreign Laterals within 500'

Created By: Keilen Waltman Printed By: McClayO on 8/11/2020

**Legend**

- Foreign Offset Wells
- Well Pad Sites
- Well Lateral\_FM Formation**
- Genesee
- Marcellus
- Utica

3,100 1,550 0 3,100 Feet

1:39,868

**Disclaimer:**

This map is confidential and is to be used only for the express informational purposes for which it was created. Unauthorized use, copying, or dissemination is strictly prohibited. EQT does not warrant the accuracy of the location of any items shown on this map, including, but not limited to, any structures, well or pipeline facilities, property boundaries, topography, roadways, or waterways. The items shown on the map may not have been placed on the map using survey lines or GPS coordinates. The specific location of any of the map items should be determined by a field survey performed by a licensed surveyor upon consultation with EQT.

1:1,646,784

PA Greene

WV Marion

**Wetzel**

WellID	WellStatus	date	FmatTD	Permit	RemarksPRO	Operator	Longitude	Latitude	TargetFm	DatumEleva	TotalDepth-SS	Total Depth
4710300656	UNK	6/2/1902		00656	BNJ	EPC	-80.5705	39.6423		0.0000	-2340.0000	2340.0000
4710300665	GAS			00665	NCR	EPC	-80.5644	39.6358		1290.0000	-1897.0000	3187.0000
4710300676	GAS	6/10/1905		00676	MXGDN	EPC	-80.5570	39.6236		1400.0000	-1765.0000	3165.0000
4710300702	UNK	5/2/1917		00702	BNJ	EPC	-80.5578	39.6300		1.0000	-2202.0000	2203.0000
4710300725	UNK	12/12/1925		00725		MANUFACTURERS L & H	-80.5905	39.6702		1290.0000	-1926.0000	3216.0000
4710300752	GAS	6/28/1905		00752	NCR	EPC	-80.5530	39.6282		0.0000	-3098.0000	3098.0000
4710300973	OIL	1/20/1904		00973	BNJGDN	PENNZOIL	-80.5659	39.6487		1330.0000	-1821.0000	3151.0000
4710301033	OIL	12/2/1904		01033	GDN	PENNZOIL	-80.5734	39.6351		1280.0000	-1975.0000	3255.0000
4710301104	UNK			01104		EAST RESOURCES	-80.5607	39.6403		1394.0000	-99999.0000	101393.0000
4710301506	UNK			01506		CNR	-80.5830	39.6662		1088.0000	-99999.0000	101087.0000
4710301558	UNK			01558		GREEN DOT FORMS	-80.5923	39.6591		1300.0000	-99999.0000	101299.0000
4710301736	GAS	7/11/1997		01736	BNJ	D A C	-80.5610	39.6169		1445.0000	-1320.0000	2765.0000
4710301737	GAS	6/25/1997		01737	BNJSSD	D A C	-80.5624	39.6210		1437.0000	-2163.0000	3600.0000
4710301750	GAS	9/11/1997		01750	BNJBYD	D A C	-80.5622	39.6273		1168.0000	-2543.0000	3711.0000
4710301751	P&A			01751	NCR	D A C	-80.5680	39.6252		1491.0000	-99999.0000	101490.0000
4710301756	GAS	11/21/1997		01756	4SDBYD	D A C	-80.5553	39.6140		1030.0000	-2334.0000	3364.0000
4710301796	GAS	2/21/2000		01796	4SD5SDBYDKNBNJ50FGDN	EXCEL ENERGY	-80.5485	39.6030		1003.0000	-2334.0000	3337.0000
4710301801	GAS	2/23/2000		01801	5SDBYD	EXCEL ENERGY	-80.5499	39.6147		1136.0000	-2320.0000	3456.0000
4710301803	GAS	6/30/2000		01803	BNJ4SD	D A C	-80.5450	39.6225		1302.0000	-2032.0000	3334.0000
4710301804	GAS	6/22/2000		01804	4SDBYD	D A C	-80.5472	39.6180		1564.0000	-2203.0000	3767.0000
4710301806	GAS	8/1/2000		01806	BYD5SD	D A C	-80.5401	39.6084		1209.0000	-2156.0000	3365.0000
4710301808	GAS	7/15/2000		01808	BNJ4SD	D A C	-80.5371	39.6161		1222.0000	-2140.0000	3362.0000
4710301810	GAS	11/6/2000		01810	GDN	D A C	-80.5431	39.6172		1328.0000	-2353.0000	3681.0000
4710301812	UNK	12/30/2000		01812	BNJ/GDN		-80.5504	39.6233		1547.0000	-2210.0000	3757.0000
4710301819	GAS	3/9/2001		01819	BNJ30FGDNBYD	EXCEL ENERGY	-80.5476	39.6265		1114.0000	-2356.0000	3470.0000
4710301820	GAS			01820	BYD	EXCEL ENERGY	-80.5528	39.6054		1431.0000	-99999.0000	101430.0000
4710301856	GAS	10/17/2001		01856	4SD	D A C	-80.5406	39.6140		1372.0000	-2240.0000	3612.0000
4710301961	O&G	9/21/2003		01961	BLMPCNBER30FGDN4SD5SD	EXCEL ENERGY	-80.5421	39.6050		1380.0000	-2316.0000	3696.0000
4710301963	GAS	10/15/2003		01963	KNRGDN4SD5SD	EXCEL ENERGY	-80.5478	39.6063		1224.0000	-2126.0000	3350.0000
4710301972	GAS	9/24/2003		01972	BNJ/GDN	D A C	-80.5657	39.6384		1521.0000	-2198.0000	3719.0000
4710302193	GAS	9/13/2006		02193	GDN	D A C	-80.5972	39.6788		0.0000	-3670.0000	3670.0000
4710302400	GAS	10/2/2008		02400	BNJ/GDN	D A C	-80.5890	39.6607		1315.0000	-2273.0000	3588.0000
4710330243	GAS	10/27/1905		30243	SLBNJGDN	PGH & WV GAS	-80.5328	39.6131		1224.0000	-1789.0000	3013.0000
4710330314	GAS	6/1/1905	LOWER HURON SHALE	30314	SLBNJGDN	PGH & WV GAS	-80.5622	39.6206		1425.0000	-2025.0000	3450.0000
4710330486	OIL			30486		C W EDGAR	-80.5625	39.6336		1124.0000	-1794.0000	2918.0000
4710330514	OIL GS	11/7/1925		30514		UNION GAS & OIL	-80.5817	39.6625		1395.0000	-1843.0000	3238.0000
4710330518	OIL GS	11/10/1921		30518		UNION GAS & OIL	-80.5875	39.6528		1178.0000	-2169.0000	3347.0000
4710330570	GAS	6/4/1903		30570	BYD	DUNN-MAR O & G	-80.5475	39.6097		1320.0000	-2146.0000	3466.0000
4710330807	GAS	8/17/1921		30807		MANUFACT LIGHT	-80.5919	39.6631		1190.0000	-1270.0000	2460.0000
4710330820	GAS	2/22/1905	LOWER HURON SHALE	30820	BNJGDN	PHILADELPHIA O	-80.5564	39.6175		1057.0000	-2049.0000	3106.0000
4710331047	GAS			31047		HOPE NAT GAS	-80.5675	39.6305		1278.0000	-1022.0000	2300.0000
4710370114	OIL	12/23/1903		70114		SOUTH PENN	-80.5781	39.6425		1260.0000	-1897.0000	3157.0000

CONFIDENTIAL  
 NOV 02 2003  
 10:00 AM

103-03345

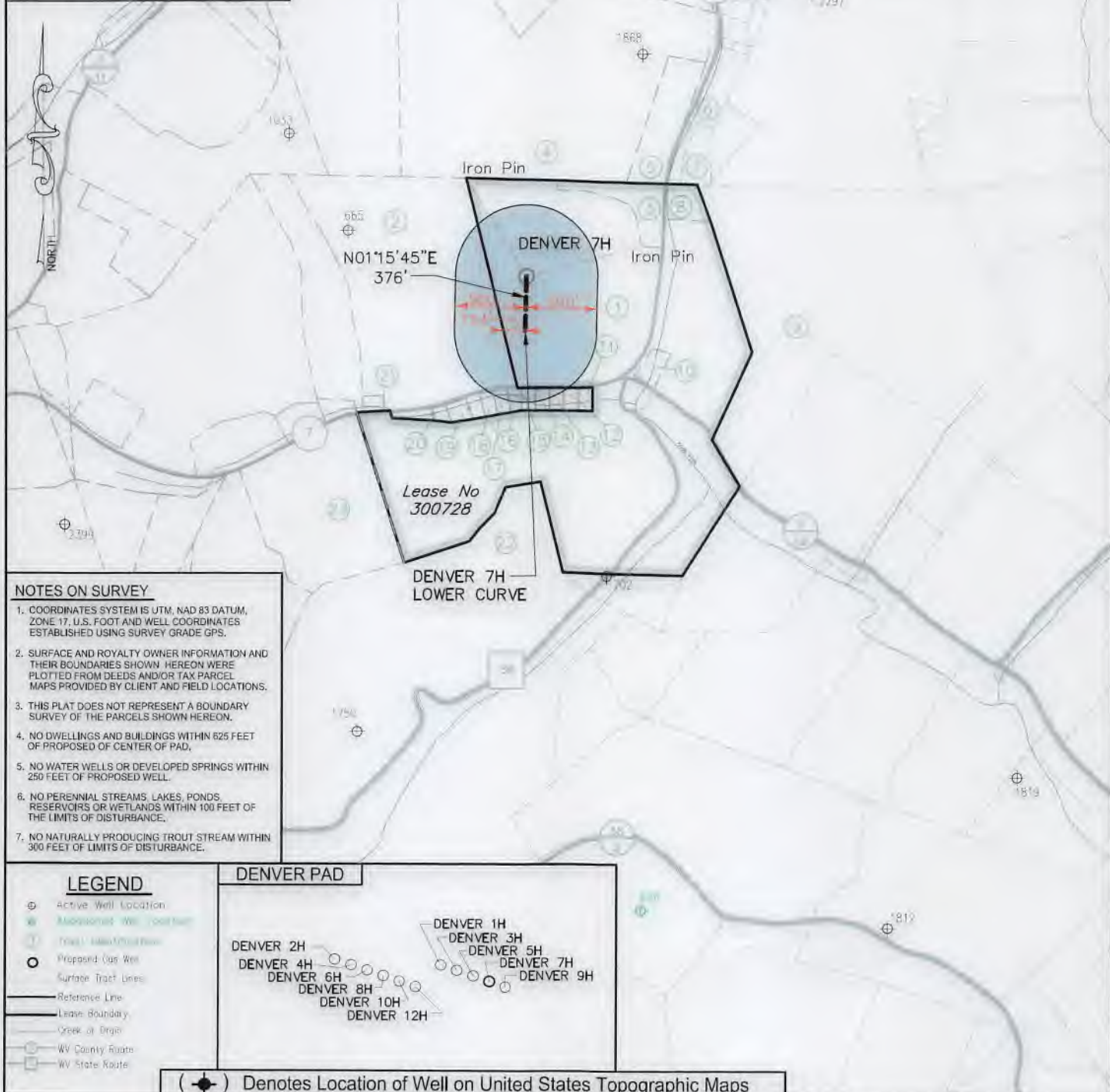
LATITUDE 39° 40' 00"

TH: 5,040'

TH: 11,225'

LONGITUDE 80° 32' 30"

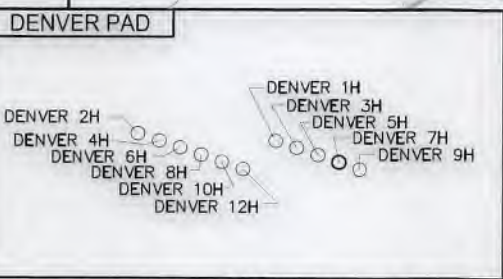
Denver 7H  
Denver  
EQT Production Company



- NOTES ON SURVEY**
1. COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
  2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
  3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
  4. NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED OF CENTER OF PAD.
  5. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
  6. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
  7. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

**LEGEND**

- ⊕ Active Well Location
- ⊕ Measured Well Location
- Proposed Gas Well
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- WV County Route
- WV State Route

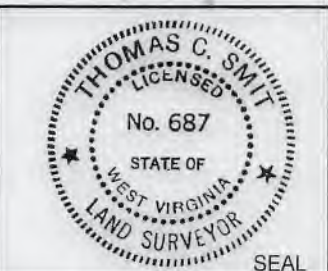


(⊕) Denotes Location of Well on United States Topographic Maps



I, the undersigned, hereby certify that this plat 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 Department of Environmental Protection.

*Thomas C. Smit*  
L. L. S. 687



FILE NO:  
DRAWING NO:  
SCALE: 1" = 1000'  
MINIMUM DEGREE OF ACCURACY: 1:2500  
PROVEN SOURCE OF ELEVATION: SG-GPS (OPUS)

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

DATE: OCTOBER 13 20 20  
OPERATORS WELL NO: Denver 7H  
API WELL NO: 47 - 103 - 03365 H6A  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION ELEVATION: 1,363' WATERSHED: LOWER WEST VIRGINIA FORK FISH CREEK QUADRANGLE: LITTLETON  
 DISTRICT: Center COUNTY: Wetzel

SURFACE OWNER: Audrey L. Lavelle ACREAGE: 117.39 ±  
 ROYALTY OWNER: Bounty Minerals LLC LEASE NO: 300728 ACREAGE: 128 ±

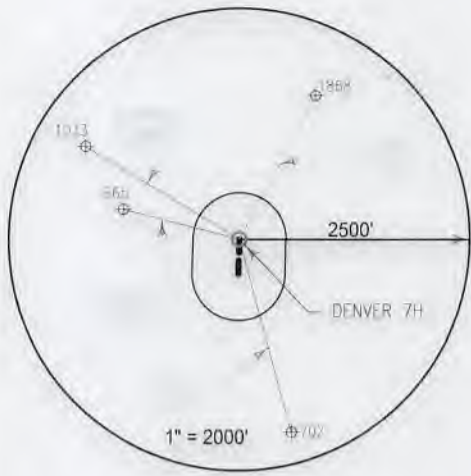
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6,809'

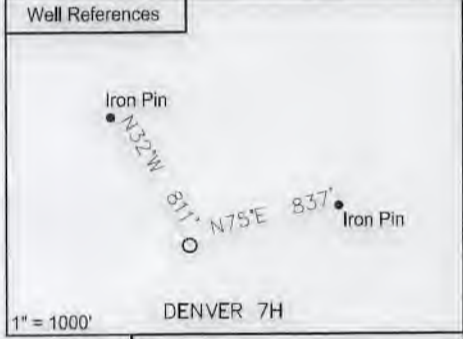
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C Mallow  
 ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280  
 Canonsburg, PA 15317 Bridgeport, WV 26330

Denver 7H  
Denver  
EQT Production Company

Tract ID.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	16	38.0	Wetzel	Center	Audrey L. LaVelle	117.39
2	15	41.0	Wetzel	Center	Margo Coman	39.00
3	16	39.0	Wetzel	Center	Harry Lee & Marilyn J. Kennedy	3.00
4	15	27.1	Wetzel	Center	Harry & Marilyn Kennedy	61.31
5	16	85.0	Wetzel	Center	Harry Lee & Marilyn J. Kennedy	5.25
6	16	85.1	Wetzel	Center	Elizabeth A Garrison	2.75
7	16	19.0	Wetzel	Center	Keith B., III & Charlyn P. Woodruff	1.59
8	16	38.2	Wetzel	Center	Audrey L. LaVelle	1.58
9	16	40.0	Wetzel	Center	Sandra K. Pallini, Robert M. Glover,	107.50
10	16	38.1	Wetzel	Center	Audrey L. LaVelle	0.88
11	15A	10.0	Wetzel	Center	Michael Duane Long	0.37
12	15A	9.0	Wetzel	Center	Michael Duane Long	0.37
13	15A	8.0	Wetzel	Center	Michael Duane Long	0.37
14	15A	7.0	Wetzel	Center	John H. & Bonnie M. Rice	0.37
15	15A	6.0	Wetzel	Center	John H. & Bonnie M. Rice	0.36
16	15A	5.0	Wetzel	Center	Terry L. & Marilyn M. Dent	0.33
17	15A	4.0	Wetzel	Center	Terry L. & Marilyn M. Dent	0.37
18	15A	3.0	Wetzel	Center	Terry L. & Marilyn M. Dent	0.37
19	15A	2.0	Wetzel	Center	Ray & Janice Hostuttler	0.83
20	15A	1.0	Wetzel	Center	Robert Ray & Janice Hostuttler	0.66
21	15	49.0	Wetzel	Center	Margo Coman	0.42
22	15	64.0	Wetzel	Center	Joseph R. Smith	182.50
23	15	40.0	Wetzel	Center	Donald D & Desiree J Shreve	32.25
24	16	55.0	Wetzel	Center	Audrey L. LaVelle	15.30

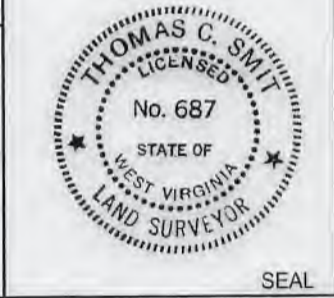


**Notes:**  
 DENVER 7H Top Hole coordinates are  
 NAD 27 N: 415,392,427 E: 1,701,500,200  
 NAD 27 Lat: 39.635658 Long: -80.559899  
 NAD 83 UTM N: 4,387,421.867 E: 537,782.232  
 DENVER 7H Lower Curve coordinates are  
 NAD 27 N: 415,016,329 E: 1,701,491,928  
 NAD 27 Lat: 39.634625 Long: -80.559913  
 NAD 83 UTM N: 4,387,307.242 E: 537,781.621  
 West Virginia Coordinates system of 1927 (North Zone)  
 based upon Differential GPS Measurements  
 Plat orientation, Corner and well ties are based upon  
 the grid north meridian  
 Well location references are based upon the grid north  
 meridian.  
 UTM coordinates are NAD83, Zone 17, Meters.



I, the undersigned, hereby certify that this plat 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 Department of Environmental Protection.

*Thomas C. Smith*  
 L. L. S. 687



FILE NO:  
 DRAWING NO:  
 SCALE: 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY:  
 1:2500  
 PROVEN SOURCE OF ELEVATION:  
 NGS CORS Station



DATE: OCTOBER 13 20 20  
 OPERATORS WELL NO: Denver 7H  
 API WELL NO: HGA  
 47 - 103 - 03365 HGA  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION ELEVATION: 1,363' WATERSHED: LOWER WEST VIRGINIA FORK FISH CREEK QUADRANGLE: LITTLETON  
 DISTRICT: Center COUNTY: Wetzel

SURFACE OWNER: Audrey L. Lavelle ACREAGE: 117.39 ±  
 ROYALTY OWNER: Bounty Minerals LLC LEASE NO: 300728 ACREAGE: 128 ±

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6,809'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C Mallow  
 ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280  
 Canonsburg, PA 15317 Bridgeport, WV 26330

WW-6A1  
(5/13)

Operator's Well No. Denver 7H

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6A, Section 5(a)(5)  
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
300728	See Attached			

**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: EQT Production Company  
 By: John Zavatchan  
 Its: Project Specialist - Permitting

WW-6A1 Attachment		Operator's Well No.	Denver 7H
Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty Book/Page
	<b>Bounty Minerals LLC</b>		**
<b>300728</b>	John Lavelle and Sarah Lavelle, h/w	R. L. Hoskinson	OG 7A/70
	R. L. Hoskinson	Hope Natural Gas Company	OG 8A/91
	Hope Natural Gas Company	Consolidated Gas Supply Corporation	DB 233/387
	Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	OG 66A/69
	Consolidated Gas Transmission Corporation	CNG Transmission Corporation	CB 13/151
	CNG Transmission Corporation	Eastern States Oil & Gas, Inc.	OG 76A/232
	Eastern States Oil & Gas, Inc.	Blazer Energy Corp.	CB 12/253
	Blazer Energy Corp.	Eastern States Oil & Gas, Inc.	CB 12/259
	Eastern States Oil & Gas, Inc.	Equitable Production-Eastern States, Inc.	WV SOS
	Equitable Production-Eastern States, Inc.	Appalachian Natural Gas Trust	OG 79A/244
	Equitable Production-Eastern States, Inc.	Equitable Production Company	WV SOS
	Equitable Production Company	EQT Production Company	CB 13/14
	Appalachian Natural Gas Trust	EQT Production Company	MB 96/505
	**at least 1/8th per WV Code Section 22-6-8		

RECEIVED  
 NOV 04 2010  
 WEST VIRGINIA DEPARTMENT OF REVENUE



November 2, 2020

Mr. Taylor Brewer  
West Virginia Department of Environmental Protection  
Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304

Re: Denver 7H Gas Well  
Center District, Wetzel County, WV

Dear Mr. Brewer,

EQT Production Company is applying for a new well work permit for the well referenced above. Upon information and belief, the Operator's lease and/ or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

Sincerely,

John Zavatchan  
Project Specialist - Permitting

RECEIVED  
Office of Oil and Gas  
NOV 04 2020  
WV Department of  
Environmental Protection



**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE CERTIFICATION**

Date of Notice Certification: 11/02/2020

API No. 47-          -         

Operator's Well No. 7H

Well Pad Name: Denver

**Notice has been given:**

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>537782.232</u>
County:	<u>Wetzel</u>		Northing:	<u>4387421.867</u>
District:	<u>Center</u>	Public Road Access:	<u>CR 7/11</u>	
Quadrangle:	<u>Littleton</u>	Generally used farm name:	<u>Denver</u>	
Watershed:	<u>Lower West Virginia Fork Fish Creek</u>			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:

\*PLEASE CHECK ALL THAT APPLY

- 1. NOTICE OF SEISMIC ACTIVITY or  NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
- 2. NOTICE OF ENTRY FOR PLAT SURVEY or  NO PLAT SURVEY WAS CONDUCTED
- 3. NOTICE OF INTENT TO DRILL or  NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or  
 WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
- 4. NOTICE OF PLANNED OPERATION
- 5. PUBLIC NOTICE
- 6. NOTICE OF APPLICATION

**OOG OFFICE USE ONLY**

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RECEIVED  
NOV 04 2020  
OFFICE OF OIL AND GAS  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

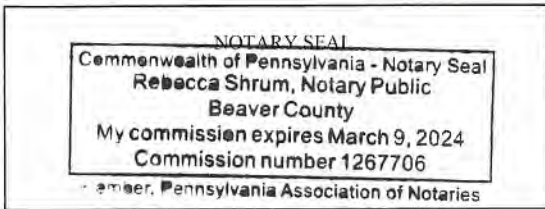
**Required Attachments:**

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

**Certification of Notice is hereby given:**

THEREFORE, I John Zavatchan, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

Well Operator:	<u>EQT Production Company</u>	Address:	<u>400 Woodcliff Drive</u>
By:	<u>John Zavatchan</u>		<u>Canonsburg, PA 15317</u>
Its:	<u>Project Specialist - Permitting</u>	Facsimile:	<u>412-395-2974</u>
Telephone:	<u>724-746-9073</u>	Email:	<u>jzavatchan@eqt.com</u>



Subscribed and sworn before me this 2nd day of November, 2020  
Rebecca Shrum Notary Public  
 My Commission Expires March 9, 2024

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone 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 or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF APPLICATION**

**Notice Time Requirement:** notice shall be provided no later than the **filing date of permit application.**

**Date of Notice:** 11/2/2020 **Date Permit Application Filed:** 11/2/2020

**Notice of:**

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

**Delivery method pursuant to West Virginia Code § 22-6A-10(b)**

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice  WSSP Notice  E&S Plan Notice  Well Plat Notice is hereby provided to:

SURFACE OWNER(s)  
Name: See Attached List  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Road and/or Other Disturbance)  
Name: See Attached List  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE  
Name: See Attached List  
Address: \_\_\_\_\_

COAL OPERATOR  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
Name: See Attached List  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

*Handwritten notes:*  
on 11/2/2020  
103-03365  
7H  
Denver

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

**This Notice Shall Include:**

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Well Location Restrictions**

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

**Water Well Testing:**

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

**Water Testing Laboratories:**

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

**Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:**

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

**Written Comment:**

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

CRISTINA...  
10/10/04  
WV DEPARTMENT OF ENVIRONMENTAL PROTECTION

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

**Time Limits and Methods for Filing Comments.**

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

**Comment Requirements**

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

**Permit Denial or Condition**

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

WW-6A  
(8-13)


API NO. 47- 103 - 03365  
OPERATOR WELL NO. 7H  
Well Pad Name: Denver

**Notice is hereby given by:**

Well Operator: EQT Production Company

Telephone: 724-746-9073

Email: jzavatchan@eqt.com



Address: 400 Woodcliff Drive

Canonsburg, PA 15317

Facsimile: 412-395-2974

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone 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 or your personal information, please contact DEP's Chief Privacy Officer at [deprivacyofficer@wv.gov](mailto:deprivacyofficer@wv.gov).

Commonwealth of Pennsylvania - Notary Seal  
Rebecca Shrum, Notary Public  
Beaver County  
My commission expires March 9, 2024  
Commission number 1267706  
Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 2nd day of November, 2020

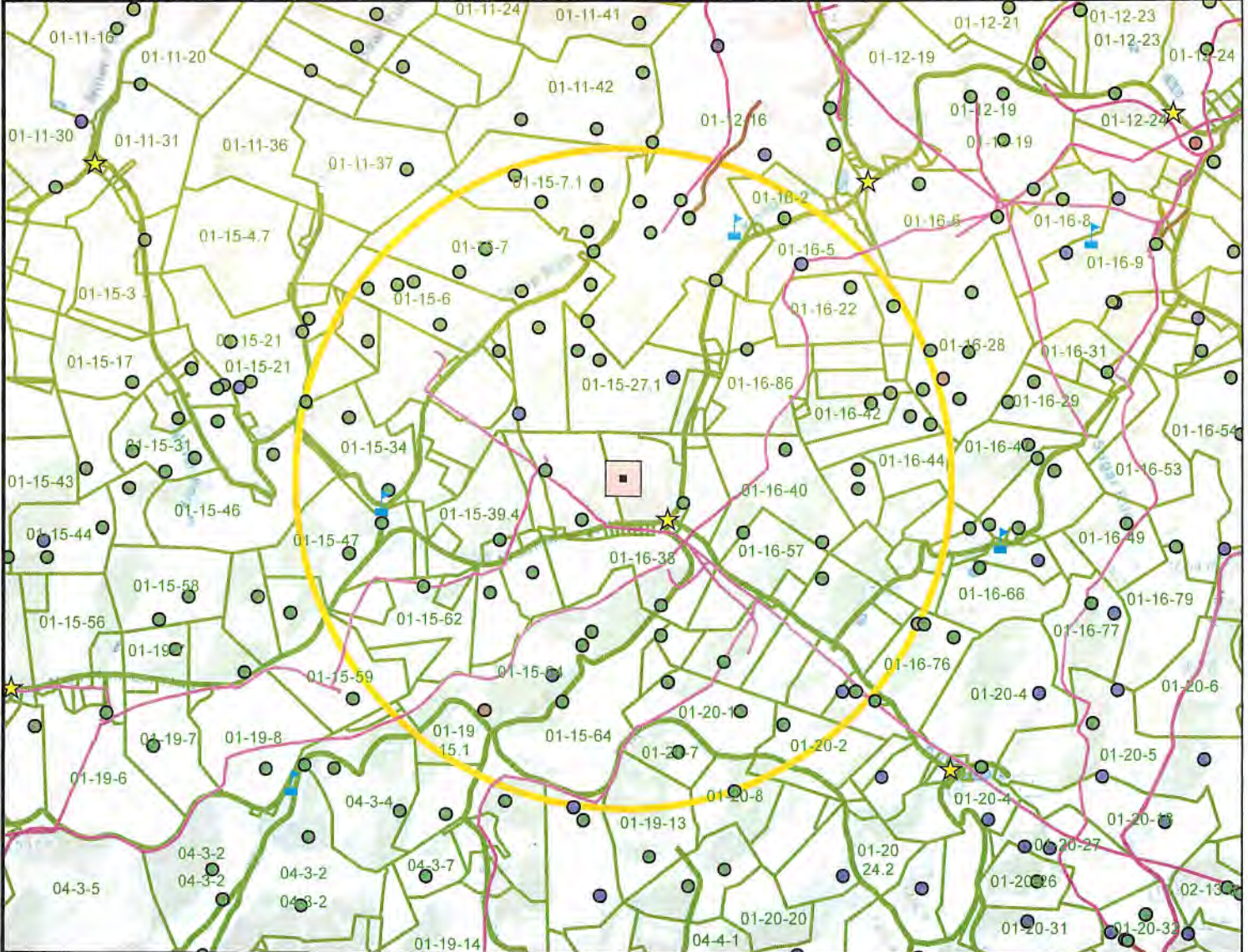
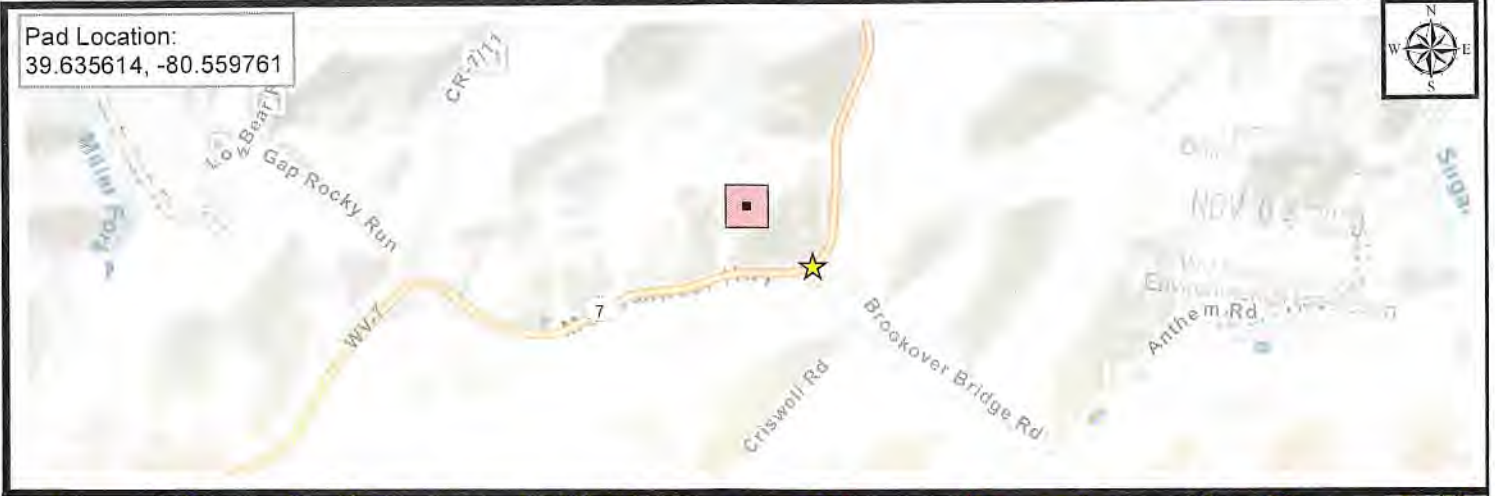


Notary Public

My Commission Expires March 9, 2024

Office of Oil and Gas  
NOV 04 2020  
WV Dept of Environmental Protection

Pad Location:  
39.635614, -80.559761



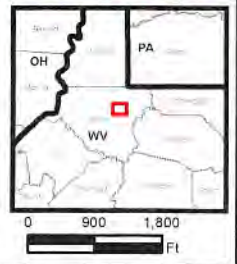
**EQT**  
EQT Corporation  
825 Liberty Avenue  
Pittsburgh, PA 15222

**Site Safety Plan**

Denver  
Wetzel, WV

Created Date: 8/29/2020 Created By: NIBURT

- |                       |                 |                |
|-----------------------|-----------------|----------------|
| Foreign Well          | ★ City          | — Access Road  |
| ● Abandoned Location  | 🚩 Institution   | ▨ Landmark     |
| ● Completed Well      | ★ Recreation    | 🌊 Protected    |
| ● Completed Well/WHCS | ⚡ Retail Center | 🌿 Wetland      |
| ● Drilling            | — EQT Waterline | — EQT Pipeline |





**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF INTENT TO DRILL**

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

**Notice Time Requirement:** Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

**Date of Notice:** 08/28/2020                      **Date Permit Application Filed:** 11/02/2020

**Delivery method pursuant to West Virginia Code § 22-6A-16(b)**

- HAND DELIVERY
- CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

**Notice is hereby provided to the SURFACE OWNER(s):**

Name: <u>See Attached</u>	Name: _____
Address: _____	Address: _____

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>537782.232</u>	
County: <u>Wetzel</u>		Northing: <u>4387421.867</u>	
District: <u>Center</u>	Public Road Access: <u>CR 7/11</u>		
Quadrangle: <u>Littleton</u>	Generally used farm name: <u>Denver</u>		
Watershed: <u>Lower West Virginia Fork Fish Creek</u>			

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: <u>EQT Production Company</u>	Authorized Representative: <u>John Zavatchan</u>
Address: <u>400 Woodcliff Drive</u>	Address: <u>400 Woodcliff Drive</u>
<u>Canonsburg, PA 15317</u>	<u>Canonsburg, PA 15317</u>
Telephone: <u>724-746-9073</u>	Telephone: <u>724-746-9073</u>
Email: <u>jzavatchan@eqt.com</u>	Email: <u>jzavatchan@eqt.com</u>
Facsimile: <u>412-395-2974</u>	Facsimile: <u>412-395-2974</u>

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone 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 or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

WW-6A5  
(1/12)Operator Well No. Denver 7H

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF PLANNED OPERATION**

**Notice Time Requirement:** notice shall be provided no later than the **filing date of permit application.**

**Date of Notice:** 11/02/2020      **Date Permit Application Filed:** 11/02/2020

**Delivery method pursuant to West Virginia Code § 22-6A-16(c)**

CERTIFIED MAIL                                       HAND  
RETURN RECEIPT REQUESTED                                      DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

**Notice is hereby provided to the SURFACE OWNER(s)**

(at the address listed in the records of the sheriff at the time of notice):

Name: Audrey L Lavelle

Address: 22820 Mountaineer HWY

Littleton, WV 26581

Name: \_\_\_\_\_

Address: \_\_\_\_\_

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>537782.232</u>
County:	<u>Wetzel</u>		Northing:	<u>4387421.867</u>
District:	<u>Center</u>	Public Road Access:		<u>CR 7/11</u>
Quadrangle:	<u>Littleton</u>	Generally used farm name:		<u>Denver</u>
Watershed:	<u>Lower West Virginia Fork Fish Creek</u>			

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: EQT Production Company

Telephone: 724-746-9073

Email: jzavaichan@eqt.com

Address: 400 Woodcliff Drive

Canonsburg, PA 15317

Facsimile: 412-395-2974

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone 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 or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

103-03365

**Denver Well Site – WW-6a Attachment**

**Surface Owners (All Disturbance):**

Audrey Lavelle  
22820 Mountaineer HWY.  
Littleton, WV 26581  
01-16-38

Margo Coman  
13886 Convey Rd.  
Buchanan, MI 49107  
01-15-41

Donald D. and Desiree J. Shreve  
22385 Mountaineer HWY.  
Littleton, WV 26581  
01-15-40

Donald E. and Misty D. Moore  
530 Camp Run Rd.  
Littleton, WV 26581  
01-15-25

Kevin Pyles  
390 Bear Run Rd.  
Littleton, WV 26581  
01-15-25.2 / 01-15-25.5

Patricia L. Kennedy  
390 Bear Run Rd.  
Littleton, WV 26581  
01-15-38

Thomas Moore and Cora Lynn Childers  
73 Moore Lane  
Colliers, WV 26035  
01-15-26

**Coal Owners**

New Gauley Coal Corp  
5260 Irwin Road  
Huntington, WV 25705

Audrey Lavelle  
22820 Mountaineer HWY  
Littleton, WV 26581

**Water Supply Owners Within 1,500'**

Ray & Janice Hostuttler  
22518 Mountaineer HWY  
Littleton, WV 26581

Harry Lee & Marilyn J Kennedy  
23023 Mountaineer HWY  
Littleton, WV 26581

Terry L & Marilyn M Dent  
22632 Mountaineer HWY  
Littleton, WV 26581

Michael Duane Long  
22710 Mountaineer HWY  
Wileyville, WV 28186

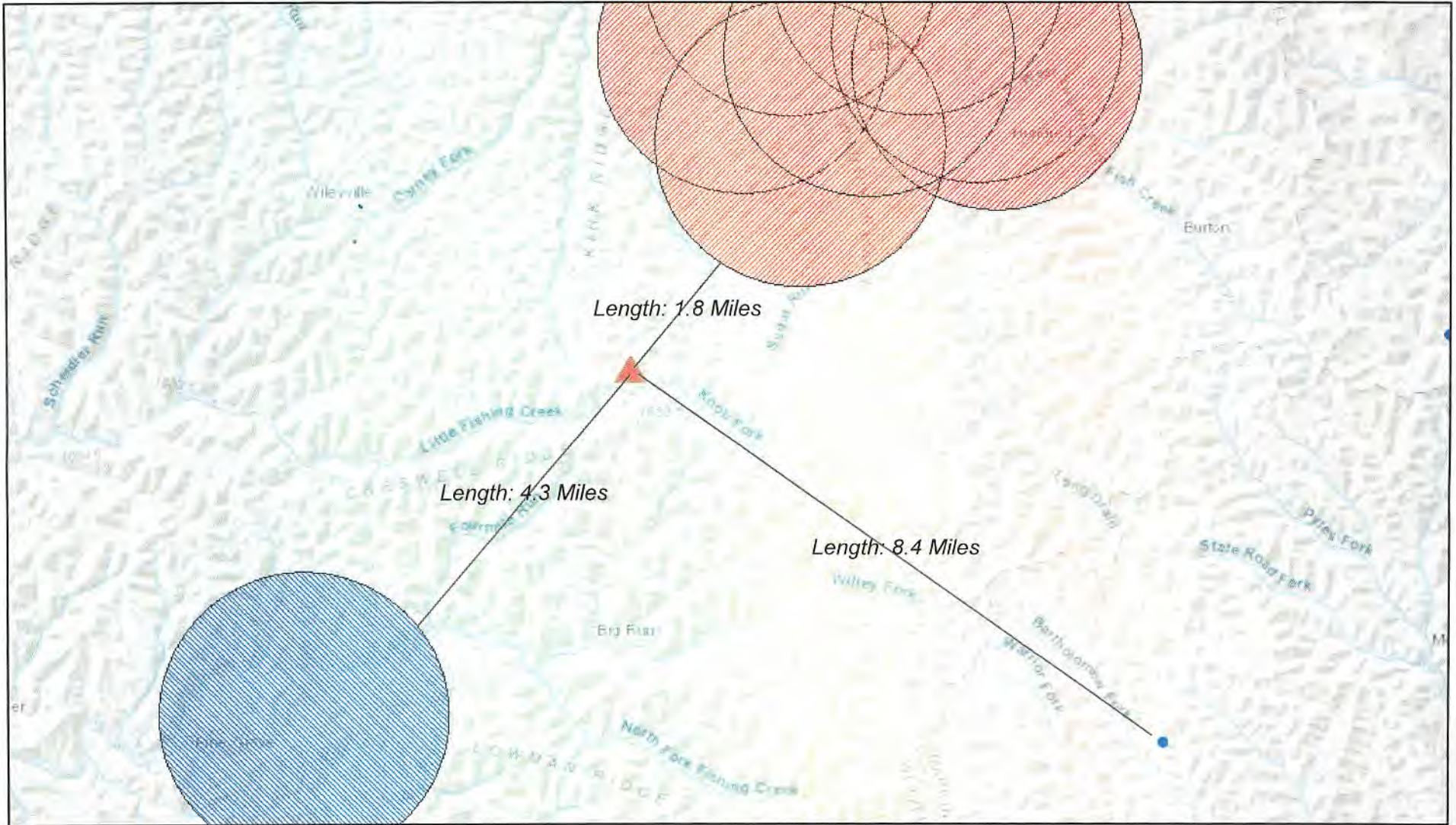
Keith B III & Charlyn P Woodruff  
HC 61 Box 70  
Littleton, WV 26581

John H & Bonnie M Rice  
22652 Mountaineer HWY  
Littleton, WV 26581


Robert Ray & Janice Hostuttler  
22518 Mountaineer HWY  
Littleton, WV 26581

RECEIVED  
COMMERCIAL  
NOV 04 2003  
WV DEPARTMENT OF  
ENVIRONMENTAL AFFAIRS


# Denver Water Resources




9/9/2020, 10:43:59 AM

 Surface Water Intake (public water supply)

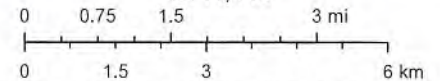
 Groundwater Intake (public water supply)

 Groundwater Intake (non-public water supply)

 Surface Water Intake (non-public water supply)

 Documented Springs

1:144,448



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Web AppBuilder for ArcGIS

West Virginia GIS, Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS | see layers |

103-033005

Topo Quad: Littleton

Scale: 1"=1000'

County: Wetzel

Date: October 14, 2020

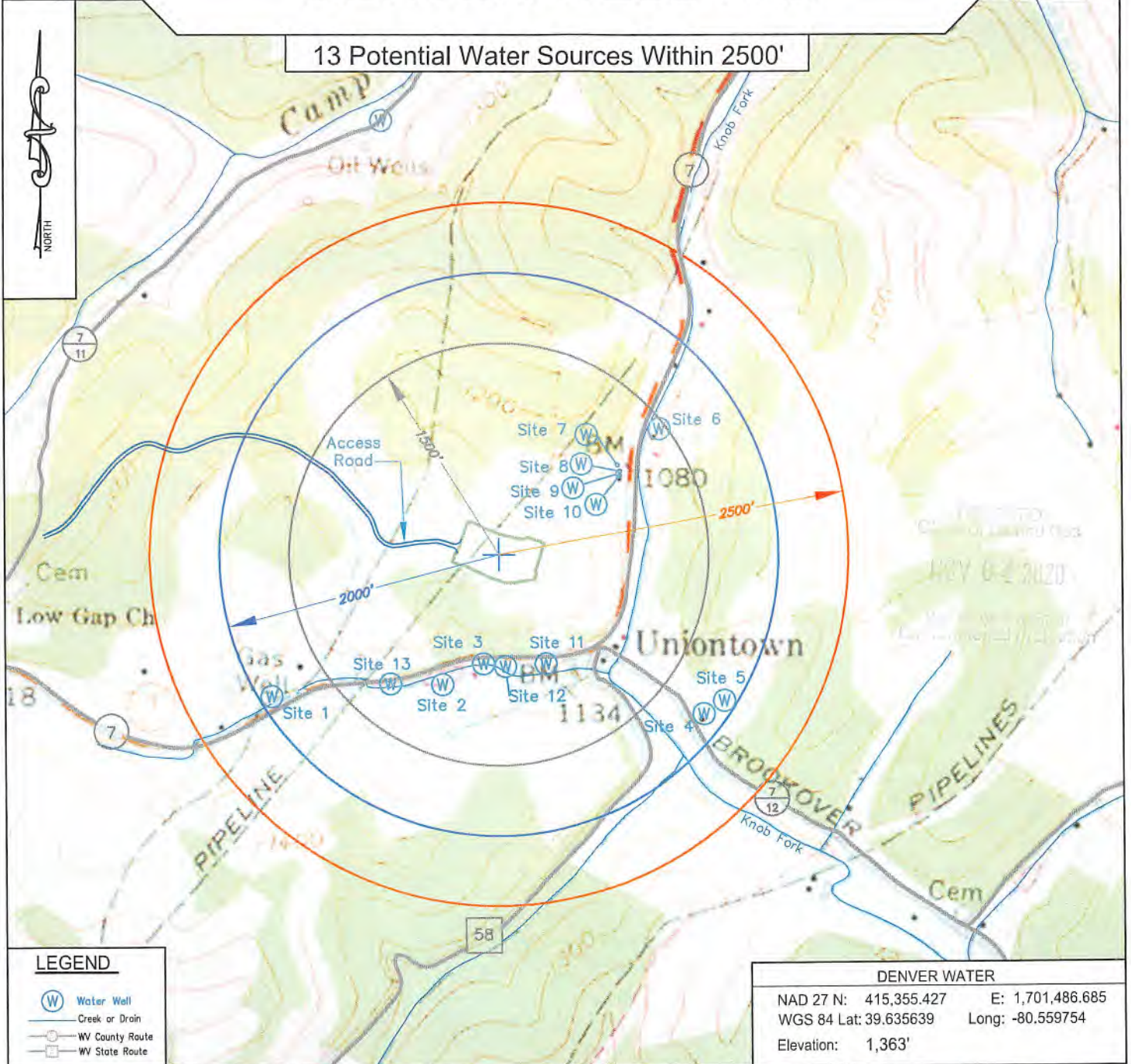
District: Center

Project N0: \_\_\_\_\_

# DENVER WELL PAD

Water

13 Potential Water Sources Within 2500'



Keystone Consultants, LLC  
 32 East Main Street  
 Carnegie, PA 15106  
 412 278-2100

Prepared For:  
**EQT Production Company**  
 400 Woodcliff Drive  
 Canonsburg, PA 15317





### Table 1 – Water Source Identification

EQT Well Pad Name: **Denver (7H)** Submittal Date: **October 15, 2020**

EQT Well Number: \_\_\_\_\_

Survey / Engineering Company: **Keystone Consultants, LLC.**

Site Number: **1** Distance from Gas Well (feet): **1913 ±**

Surface Owner / Occupant: **Debra L & Garold C Postlethwait**

Address: **22339 Mountaineer HWY Littleton WV 26581** Phone #: **304-775-2115** Field

Located Date: **08/13/2020** Owner home during survey (yes/no): **No**

Coordinates: **39.632839, -80.565502** (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>: **8/12/2020** 2<sup>nd</sup>: \_\_\_\_\_ Door Hanger Left: \_\_\_\_\_

<input checked="" type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small>

Comments: **WATER WELL – Located about 98 ft. from road. Certified mailed 7/24/2020. Field visit 08/13/2020.**

Site Number: **2** Distance from Gas Well (feet): **1009 ±**

Surface Owner / Occupant: **Ray & Janice Hostuttler**

Address: **22518 Mountaineer HWY Littleton WV 26581** Phone #: **304-775-2134** Field

Located Date: **08/13/2020** Owner home during survey (yes/no): **Yes**

Coordinates: **39.633090, -80.561161** (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>: **08/12/2020** 2<sup>nd</sup>: \_\_\_\_\_ Door Hanger Left: \_\_\_\_\_

<input checked="" type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small>

Comments: **WATER WELL – Located about 125 ft. from road next to house. Certified mailed 7/24/2020. Field visit 08/13/2020.**

Site Number: **3** Distance from Gas Well (feet): **785 ±**

Surface Owner / Occupant: **Terry L. & Marilyn M. Dent**

Address: **22632 Mountaineer HWY Littleton WV 26581** Phone #: **304-775-2102** Field

Located Date: **08/13/2020** Owner home during survey (yes/no): **Yes**

Coordinates: **39.633503, -80.560127** (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>: **08/12/2020** 2<sup>nd</sup>: \_\_\_\_\_ Door Hanger Left: \_\_\_\_\_

<input checked="" type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small>

Comments: **WATER WELL - Located about 44 ft. from road. Certified mailed 7/24/2020. Field visit 08/13/2020.**

Site Number: 4 Distance from Gas Well (feet): 1850 ±

Surface Owner / Occupant: Sandra K. Pallini ETAL, & L/E Robert M. Glover

Address: 11228 Indian Creek RD Jacksonburg WV 26377 Phone #: 304-889-3476 Field

Located Date: 08/13/2020 Owner home during survey (yes/no): Yes

Coordinates: 39.632561, -80.554530 (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>: 08/12/2020 2<sup>nd</sup>: \_\_\_\_\_ Door Hanger Left: \_\_\_\_\_

<input checked="" type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small>

Comments: WATER WELL – 2 Water wells on property. Certified mailed 7/24/2020. Field visit 08/13/2020.

Site Number: 5 Distance from Gas Well (feet): 1915 ±

Surface Owner / Occupant: Sandra K. Pallini ETAL, & L/E Robert M. Glover

Address: 11228 Indian Creek RD Jacksonburg WV 26377 Phone #: 304-889-3476 Field

Located Date: 08/13/2020 Owner home during survey (yes/no): Yes

Coordinates: 39.632821, -80.554013 (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>: 08/12/2020 2<sup>nd</sup>: \_\_\_\_\_ Door Hanger Left: \_\_\_\_\_

<input checked="" type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small>

Comments: WATER WELL - 2 Water wells on property. Certified mailed 7/24/2020. Field visit 08/13/2020.

Site Number: 6 Distance from Gas Well (feet): 1453 ±

Surface Owner / Occupant: Keith B. III & Charlyn P. Woodruff

Address: HC 61 Box 70 WV 26581 Phone #: 304-775-4159 Field

Located Date: 08/13/2020 Owner home during survey (yes/no): Yes

Coordinates: 39.638116, -80.555709 (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>: 08/12/2020 2<sup>nd</sup>: \_\_\_\_\_ Door Hanger Left: \_\_\_\_\_

<input checked="" type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small>

Comments: WATER WELL – Next to the front of the house by pine tree. Certified mailed 7/24/2020. Field visit 08/13/2020.

NOV 04 2020  
EQT

Site Number: 7 Distance from Gas Well (feet): 1059 ±

Surface Owner / Occupant: Harry Lee & Marilyn J. Kennedy

Address: 23023 Mountaineer HWY Littleton WV 26581 Phone #: 304-775-2138 Field

Located Date: 08/13/2020 Owner home during survey (yes/no): Yes

Coordinates: 39.637403, -80.556767 (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>: 08/12/2020 2<sup>nd</sup>: \_\_\_\_\_ Door Hanger Left: \_\_\_\_\_

<input checked="" type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small>

Comments: WELL PUMP- Located about 140 ft. from road. Certified mailed 7/24/2020. Field visit 08/13/2020.

Site Number: 8 Distance from Gas Well (feet): 1046 ±

Surface Owner / Occupant: Harry Lee & Marilyn J. Kennedy

Address: 23023 Mountaineer HWY Littleton WV 26581 Phone #: 304-775-2138 Field

Located Date: 08/13/2020 Owner home during survey (yes/no): Yes

Coordinates: 39.637284, -80.556709 (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>: 08/12/2020 2<sup>nd</sup>: \_\_\_\_\_ Door Hanger Left: \_\_\_\_\_

Comments: WATER WELL- 2 Water wells on property. Certified mailed 7/24/2020. Field visit 08/13/2020.

<input checked="" type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small>

Site Number: 9 Distance from Gas Well (feet): 1025 ±

Surface Owner / Occupant: Harry Lee & Marilyn J. Kennedy

Address: 23023 Mountaineer HWY Littleton WV 26581 Phone #: 304-775-2138 Field

Located Date: 08/13/2020 Owner home during survey (yes/no): Yes

Coordinates: 39.637232, -80.556755 (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>: 08/12/2020 2<sup>nd</sup>: \_\_\_\_\_ Door Hanger Left: \_\_\_\_\_

Comments: WATER WELL- 2 Water wells on property. Certified mailed 7/24/2020. Field visit 08/13/2020.

<input checked="" type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small>

Site Number: 10 Distance from Gas Well (feet): 1031 ±

Surface Owner / Occupant: Harry Lee & Marilyn J. Kennedy

Address: 23023 Mountaineer HWY Littleton WV 26581 Phone #: 304-775-2138 Field

Located Date: 08/13/2020 Owner home during survey (yes/no): Yes

Coordinates: 39.637194, -80.556702 (decimal degrees – NAD 83)

Contact Attempts (Date): 1<sup>st</sup>: 08/12/2020 2<sup>nd</sup>: \_\_\_\_\_ Door Hanger Left: \_\_\_\_\_

Comments: WELL PUMP- Located about 118 ft. from road. Certified mailed 7/24/2020. Field visit 08/13/2020.

<input checked="" type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small>

Site Number: 11 Distance from Gas Well (feet): - ±

Surface Owner / Occupant: Michael Duane Long

Address: 22710 Mountaineer HWY Wileyville, WV 26186 Phone #: 304-775-2540

Field Located Date: Owner home during survey (yes/no):

Coordinates: Not Field Located

Contact Attempts (Date): 1<sup>st</sup>: 08/12/2020 2<sup>nd</sup>: 08/14/2020 Door Hanger Left: \_\_\_\_\_

Comments: Water Well- Certified mailed 7/24/2020.

<input type="checkbox"/> Landowner Requested Sampling
<input type="checkbox"/> Landowner Decline Sampling
<input checked="" type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small>



103-03365

Site Number: **12** Distance from Gas Well (feet): - ±

Surface Owner / Occupant: **John H. & Bonnie M. Rice**

Address: **22652 Mountaineer HWY Littleton, WV 26581** Phone #: **304-775-4066**

Field Located Date: Owner home during survey (yes/no):

Coordinates: **Not Field Located**

Contact Attempts (Date): 1<sup>st</sup>: : **08/12/2020** 2<sup>nd</sup>: : **08/14/2020** Door Hanger Left: \_\_\_\_\_

Comments: **Water Well- Certified mailed 7/24/2020.**

<input type="checkbox"/>	Landowner Requested Sampling
<input type="checkbox"/>	Landowner Decline Sampling
<input checked="" type="checkbox"/>	Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: **13** Distance from Gas Well (feet): - ±

Surface Owner / Occupant: **Robert Ray & Janice Hostuttler**

Address: **22518 Mountaineer HWY Littleton, WV 26581** Phone #: **304-775-2134**

Field Located Date: Owner home during survey (yes/no):

Coordinates: **Not Field Located**

Contact Attempts (Date): 1<sup>st</sup>: : **08/11/2020** 2<sup>nd</sup>: **08/12/2020** Door Hanger Left: \_\_\_\_\_

Comments: **Water Well- Certified mailed 7/24/2020.**

<input checked="" type="checkbox"/>	Landowner Requested Sampling
<input type="checkbox"/>	Landowner Decline Sampling
<input type="checkbox"/>	Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

103-03365  
 08/14/2020  
 08/14/2020



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways**

1900 Kanawha Boulevard East • Building Five • Room 110  
Charleston, West Virginia 25305-0430 • (304) 558-3505

Byrd E. White, III  
Secretary of Transportation/  
Commissioner of Highways

July 24, 2020

Jimmy Wriston, P. E.  
Deputy Secretary/  
Deputy Commissioner

James A. Martin, Chief  
Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304

Subject: DOH Permit for the Denver Pad, Wetzel County  
Denver WTZ 7H Well Site ✓

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2020-0318 which has been issued to EQT Production Company for access to the State Road for a well site located off Wetzel County Route 7/11 MP 0.13 SLS.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018.

Very Truly Yours,

Gary K. Clayton, P.E.  
Regional Maintenance Engineer  
Central Office O&G Coordinator

NOV 03 2020

Cc: Becky Shrum  
EQT Production Company  
CH, OM, D-6  
File

**Anticipated Frac Additives**  
**Chemical Names and CAS Numbers**

<u>Material</u>	<u>Ingredient</u>	<u>CAS Number</u>
<b>Sand (Proppant)</b>	<b>Silica Substrate</b>	<b>14808-60-7</b>
<b>Water</b>	<b>Water</b>	<b>7732-18-5</b>
<b>Hydrochloric Acid (HCl)</b>	<b>Hydrogen Chloride</b>	<b>7647-01-0</b>
<b>Friction Reducer</b>	<b>Copolymer of 2-propenamide</b>	<b>Proprietary</b>
	Petroleum Distillate	64742-47-8
	Oleic Acid Diethanolamide	93-83-4
	Alcohols, C12-16, ethoxylated	68551-12-2
	Ammonium chloride ((NH <sub>4</sub> )Cl)	12125-02-9
<b>Biocide</b>	<b>Glutaraldehyde</b>	<b>111-30-8</b>
	Alkyl dimethyl benzyl ammonium chloride	68391-01-5
	Didecyl dimethyl ammonium chloride	7173-51-5
	Non-hazardous substances	Proprietary
<b>Scale Control</b>	<b>Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid))(BHMT)</b>	<b>34690-00-1</b>
	Non-hazardous substances	Proprietary
<b>Acid Chelating Agent</b>	<b>Citric Acid</b>	<b>77-92-9</b>
<b>Corrosion Inhibitor</b>	<b>Methanol</b>	<b>67-56-1</b>
	pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	68909-18-2
	Nonoxynol-9	127087-87-0
	2-ethyl-1-hexanol	104-76-7
	4-nonylphenyl, ethoxylated	26027-38-3

RECEIVED  
 NOV 04 2010  
 10:00 AM  
 E. J. ...

DENVER WELL LOCATIONS								
WELL DESIGNATION	LAT(NAD83)	LOX(NAD83)	NORTHING(NAD83)	EASTING(NAD83)	NORTHING(NAD27)	EASTING(NAD27)	NORTHING(NAD 83 UTM METERS)	EASTING(NAD83 UTM METERS)
2H	39 38 08.83763	80 33 36.68840	415448.8445	1669926.224	415411.386	1701964.221	4387426.950	537740.708
4H	39 38 08.79243	80 33 36.50578	415444.1030	1669940.455	415406.644	1701378.452	4387425.578	537745.068
6H	39 38 08.74723	80 33 36.32317	415439.3615	1669954.686	415401.902	1701392.683	4387424.206	537749.428
8H	39 38 08.70203	80 33 36.14056	415434.6201	1669968.917	415397.160	1701406.914	4387422.833	537753.787
10H	39 38 08.65683	80 33 35.95795	415429.8786	1669983.148	415392.418	1701421.144	4387421.461	537758.147
12H	39 38 08.61163	80 33 35.77533	415425.1371	1669997.378	415387.677	1701435.375	4387420.089	537762.507
1H	39 38 08.80175	80 33 35.49529	415444.1138	1670019.512	415406.653	1701457.507	4387425.983	537769.153
3H	39 38 08.75655	80 33 35.31268	415439.3723	1670033.743	415401.911	1701471.738	4387424.611	537773.513
5H	39 38 08.71135	80 33 35.13006	415434.6309	1670047.974	415397.169	1701485.969	4387423.239	537777.873
7H	39 38 08.66615	80 33 34.94745	415429.8894	1670062.205	415392.427	1701500.199	4387421.867	537782.232
9H	39 38 08.62095	80 33 34.76484	415425.1479	1670076.435	415387.685	1701514.430	4387420.495	537786.592

# EROSION & SEDIMENT CONTROL PLAN

## DENVER WELL SITE

### WETZEL COUNTY, WEST VIRGINIA

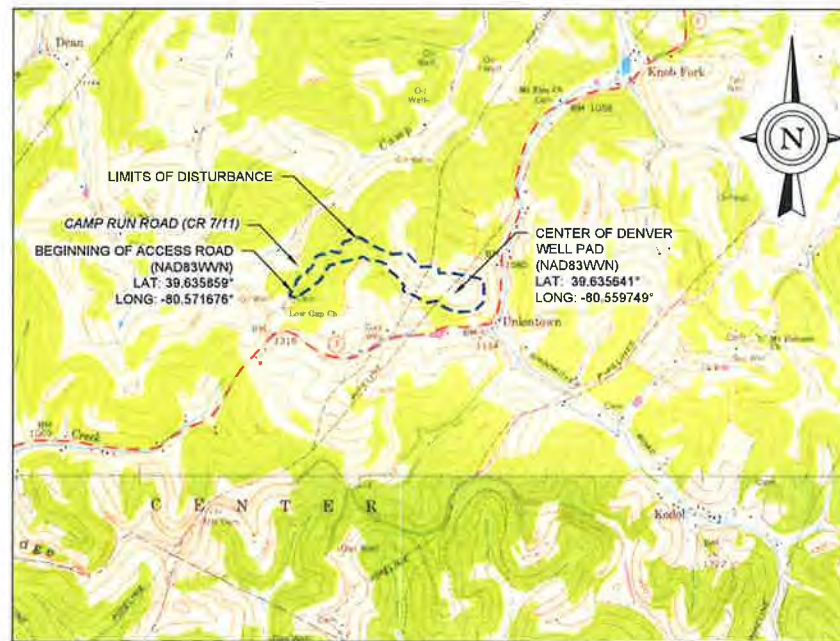
### FOR

# EQT PRODUCTION COMPANY

APPROVED

WVDEP OOG

1/8/2021



LANDOWNER DISTURBANCE BREAKDOWN				
LANDOWNER	DISTURBANCE FROM ACCESS ROAD	DISTURBANCE FROM WELL PAD	DISTURBANCE FROM STOCKPILES	TOTAL DISTURBANCE
PATRICIA L. KENNEDY 52-01-0015-0038-0000	3.98	N/A	N/A	3.98
KEVIN PYLES 52-01-0015-0025-0005	1.10	N/A	N/A	1.10
KEVIN PYLES 52-01-0015-0025-0002	7.94	N/A	0.83	8.77
DONALD E. & MISTY D. MOORE 52-01-0015-0025-0000	N/A	N/A	1.59	1.59
THOMAS MOORE & CORA LYN CHILDERS 52-01-0015-0026-0000	0.60	N/A	0.35	0.95
DONALD D. & DESIREE J. SHREVE 52-01-0015-0040-0000	0.36	N/A	N/A	0.36
MARGO COMAN 52-01-0015-0041-0000	9.88	1.17	5.03	16.08
JOHN EDWARD LEVELLE 52-01-0016-0038-0000	N/A	9.88	4.47	14.35
<b>TOTALS:</b>	<b>23.86</b>	<b>11.05</b>	<b>12.27</b>	<b>47.18</b>

INDEX	
DRAWING NO.	TITLE
1	TITLE SHEET
2	GENERAL NOTES
3	EXISTING SITE PLAN
4	OVERALL E&S SITE PLAN
5-8	PROPOSED SITE PLAN
9	SITE REVEGETATION PLAN
10	SITE RESTORATION PLAN
11	SOIL PLAN
12	ACCESS ROAD PROFILE
13-20	ACCESS ROAD TYPICAL SECTIONS
21-26	E&S TYPICAL SECTIONS
27-30	E&S DETAILS

PROJECT NO. 20070-004  
OCTOBER 2020

## DIEFFENBAUCH & HRITZ, LLC

SCALE: 1:4000 PLOTTED: 12/21/2020 11:43 AM FILE: X:\OIL AND GAS\EQT\2020\20070-004 - DENVER\CADD (K DRIVE) - WV\PLANS\E&S\001\_TITLE SHEET.DWG



REVISION  
 DATE  
 NO.  
 PWH DRAWN  
 BLB CHECKED  
 RCL APPROVED  
 OCT 2020 DATE  
 20070-004 PROJECT NO.  
 DIEFFENBAUCH & HRITZ, LLC  
 1095 Chapin Road, Suite 200  
 Morgantown, WV 26501  
 www.dieffenbauch.com  
 P: 304.965.5555 F: 304.965.5557  
 CLIENT: EQT PRODUCTION COMPANY  
 PROJECT: DENVER WELL SITE WETZEL COUNTY, WV  
 TITLE: TITLE SHEET  
 1

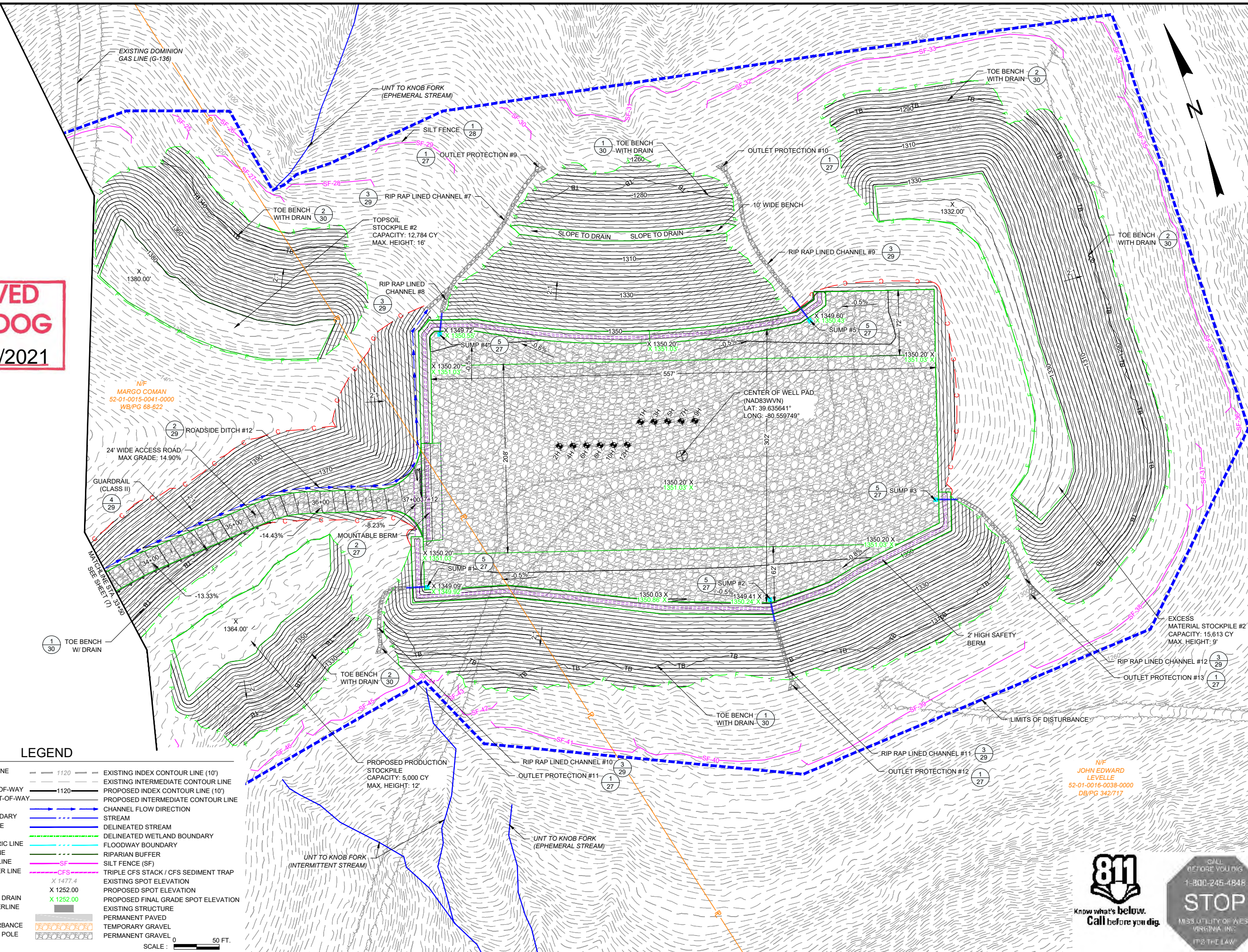
SCALE: 1:100 PLOTTED: 12/21/2020 1:00 PM FILE: X:\OIL AND GAS\EGT\2020\20070-004 - DENVERCADD (K DRIVE) - W\PLANS\EGS\08 - PROPOSED E&S SITE PLAN4.DWG

**APPROVED**  
**WVDEP OOG**  
1/8/2021

**LEGEND**

- |           |                        |           |                                      |
|-----------|------------------------|-----------|--------------------------------------|
| - - - - - | EXISTING TREE LINE     | - - - - - | EXISTING INDEX CONTOUR LINE (10')    |
| - - - - - | EXISTING ROAD          | - - - - - | EXISTING INTERMEDIATE CONTOUR LINE   |
| - - - - - | EXISTING RIGHT-OF-WAY  | - - - - - | PROPOSED INDEX CONTOUR LINE (10')    |
| - - - - - | PROPOSED RIGHT-OF-WAY  | - - - - - | PROPOSED INTERMEDIATE CONTOUR LINE   |
| - - - - - | PROPERTY LINE          | - - - - - | CHANNEL FLOW DIRECTION               |
| - - - - - | MUNICIPAL BOUNDARY     | - - - - - | STREAM                               |
| - - - - - | PROPOSED FENCE         | - - - - - | DELINEATED STREAM                    |
| - - - - - | EXISTING FENCE         | - - - - - | DELINEATED WETLAND BOUNDARY          |
| - - - - - | EXISTING ELECTRIC LINE | - - - - - | FLOODWAY BOUNDARY                    |
| - - - - - | EXISTING GAS LINE      | - - - - - | RIPARIAN BUFFER                      |
| - - - - - | PROPOSED GAS LINE      | - - - - - | SILT FENCE (SF)                      |
| - - - - - | PROPOSED WATER LINE    | - - - - - | TRIPLE CFS STACK / CFS SEDIMENT TRAP |
| - - - - - | FILL LIMITS            | - - - - - | EXISTING SPOT ELEVATION              |
| - - - - - | CUT LIMITS             | - - - - - | PROPOSED SPOT ELEVATION              |
| - - - - - | TOE BENCH WITH DRAIN   | - - - - - | PROPOSED FINAL GRADE SPOT ELEVATION  |
| - - - - - | ROADWAY CENTERLINE     | - - - - - | EXISTING STRUCTURE                   |
| - - - - - | SAFETY BERM            | - - - - - | PERMANENT PAVED                      |
| - - - - - | LIMITS OF DISTURBANCE  | - - - - - | TEMPORARY GRAVEL                     |
| - - - - - | EXISTING UTILITY POLE  | - - - - - | PERMANENT GRAVEL                     |

SCALE: 0 50 FT.



NO.	DATE	REVISION
1	1/22/2020	DEP COMMENT RESPONSE
TMR DRAWN		
BLB CHECKED		
RCL APPROVED		
OCT 2020 DATE		
20070-004 PROJECT NO.		
CLIENT		
EQT PRODUCTION COMPANY		
PROJECT		
DENVER WELL SITE WETZEL COUNTY, WV		
TITLE		
PROPOSED SITE PLAN		
DRAWING NO.		
8		

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PROJECT

CLIENT

TITLE

DRAWING NO.