



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Monday, August 1, 2022
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for DENVER 5H
47-103-03515-00-00

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.

A blue ink signature of James A. Martin, written in a cursive style.

James A. Martin
Chief

Operator's Well Number: DENVER 5H
Farm Name: AUDREY L LAVELLE
U.S. WELL NUMBER: 47-103-03515-00-00
Horizontal 6A New Drill
Date Issued: 8/1/2022

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.

API Number: _____

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.

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: 5H Well Pad Name: Denver

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

4) Elevation, current ground: 1,352' Elevation, proposed post-construction: 1,352'

5) Well Type (a) Gas Oil Underground Storage
Other

(b) If Gas Shallow Deep
Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 7,478', 50', 2,620 psi

8) Proposed Total Vertical Depth: 7,478'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 18,540'

11) Proposed Horizontal Leg Length: 10,522'

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: See attached list
Depth: _____
Seam: _____
Owner: _____

RECEIVED
Office of Oil and Gas

JUL 01 2022

WV Department of
Environmental Protection

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A252 GR 3 Bare	85.6	40	40 ✓	49 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1178	1178 ✓	1085 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2605	2605 ✓	1010 ft^3 / CTS
Production	6	New	P-110	24	18540	18540 ✓	500' above intermediate casing
Tubing							
Liners							

Kenneth Greynolds Digitally signed by Kenneth Greynolds
 DN: cn = Kenneth Greynolds, email = Kenneth.L.Greynolds@wyo.gov, c = AD, o = WYDEP OUI = Oil and Gas
 Date: 2022.05.27 10:29:50 -0400

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	0.312	1000	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	6	8 1/2	0.400	14580	11664	Class A/H	1.04 - 2.10
Tubing							
Liners							

RECEIVED
Office of Oil and Gas

JUL 01 2022

WV Department of
Environmental Protection

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical, kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

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): N/A - Site Built

22) Area to be disturbed for well pad only, less access road (acres): N/A - Site Built

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.

RECEIVED
Office of Oil and Gas

JUL 01 2022

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

WV Department of
Environmental Protection

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.



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
dep.wv.gov

March 18, 2014

Nabors Completion & Production Services Company
1380 Route 286 Hwy E #121
Indiana PA 15701

Re: Cement Variance Request

Dear Sir or Madam,

This agency is approving a variance request for the cement blend listed below to be used on surface and coal protection strings for the drilling of oil and gas wells in the state of West Virginia. The variance cannot be used without requesting its use on a permit application and approval by this agency:

- Type 1 (2% Calcium Chloride-Accelerator, 0.25% Super Flake-Lost Circulation, 5.2% Water, 94% Type "1" Cement)

If you have any questions regarding this matter feel free to contact me at 304-926-0499, ext. 1653.

Sincerely,

James Peterson
Environmental Resources Specialist / Permitting

RECEIVED
Office of Oil and Gas

JUL 01 2012

WV Department of
Environmental Protection



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
dep.wv.gov

**BEFORE THE OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA**

IN THE MATTER OF A VARIANCE FROM) ORDER NO. 2014 - 17
REGULATION 35 CSR § 4-11.4/11.5/14.1)
AND 35 CSR § 8-9.2.h. 4/5/6/8 OF THE)
THE OPERATIONAL)
REGULATIONS OF CEMENTING OIL)
AND GAS WELLS)

REPORT OF THE OFFICE

Nabors Completion & Production Services Co. requests approval of a different cement blend for use in cementing surface and coal protection casing of oil and gas wells.

FINDINGS OF FACT

- 1.) Nabors Completion & Production Services Co. proposes the following cement blend:
 - 2% Calcium Chloride (Accelerator)
 - 0.25 % Super Flake (Lost Circulation)
 - 94% Type "1" Cement
 - 5.20 % Water
- 2.) Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24 hours.

RECEIVED
Office of Oil and Gas

JUL 01 2022

WV Department of
Environmental Protection

CONCLUSIONS OF LAW

Pursuant to Articles 6 and 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter embraced in said notice, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to 35 CSR § 4-11.5 and 35 CSR § 8-9.2.h.8 the Chief of the Office of Oil and Gas may approve different cement blends upon the well operator providing satisfactory proof that different cement types are adequate.

ORDER

It is ordered that Nabors Completion & Production Services Co. may use the cement blend listed in Findings of Fact No.1 for the cementing of surface and coal protection casing of oil and gas wells in the State as may be requested by oil and gas operators. The waiting time on the cement blend shall be 8 hours. The cement blend shall be mixed in strict accordance with the specifications for each blend and weight measurements made on-site to assure the cement slurries meet the minimum weight specifications. A sample shall be collected and, if after 8 hours the cement is not set up, additional time will be required. Nabors Completion & Production Services Co. shall keep a record of cement blend jobs in which the cement blend approved under this order is to be used and made available to the Office of Oil and Gas upon request.

Dated this, the 18th day of March, 2014.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief
Office of Oil and Gas

4710303515



EQT PRODUCTION COMPANY
400 Woodcliff Drive | Canonsburg, PA 15317

June 25, 2022

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 5H

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 'John Zavatchan'.

John Zavatchan
Project Specialist - Permitting

Enc.

RECEIVED
Office of Oil and Gas

JUL 01 2022

WV Department of
Environmental Protection

WEST VIRGINIA GEOLOGICAL PROGNOSIS

Horizontal Well
 Pad Name DENVER

Drilling Objectives:

Marcellus

Quad:

Littleton

County:

Wetzel

Elevation:

1363 KB

1350 GL

Recommended Azimuth:

315 Degrees

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

Formation	4710302517		4710302580		Lithology	Comments
	Top (TYD)	Base (TYD)	Top (TYD)	Base (TYD)		
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 @ 1998,2227,2394,3106,3393 .
Int. csq pt	2605					50 ft below Big Injun
Berea	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	
Baltown	3937	4264			Silty sand	
Bradford	4264	4394			Silty sand	
Benson	5403	5813			Silty sand	
Alexander	5813	6265			Silty sand	
Elk	6265	7019			Silty sand	
Seneca	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 SHOWS
 NOT LISTED IN OFFSETS

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
Conductor:	24"			40
Freshwater / Coal:	13 3/8"			1178
Intermediate 1:	9 5/8"			2605
Production:	5 1/2"			@ TD

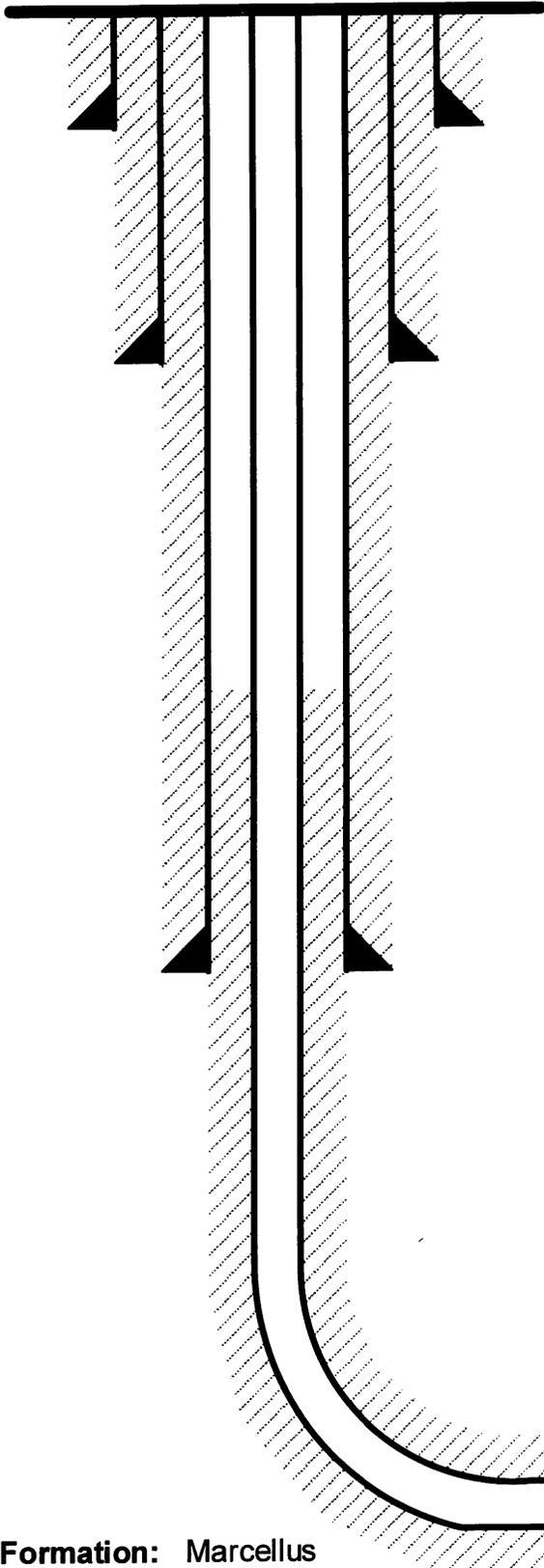
RECEIVED
 Office of Oil and Gas
 JUL 01 2022
 WV Department of
 Environmental Protection

EQT Production

Wellbore Diagram

Well: Denver 5H
Pad: Denver
Elevation: 1350' GL 1363' KB

County: Wetzel
State: West Virginia



Conductor @ 40'

26", 85.6#, A252 GR3 Bare, 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 @ 18,540' MD / 7,478' TVD

6", 24#, P-110, cement to 500' inside 9-5/8" w/ Class A/H

Formation: Marcellus

RECEIVED
Office of Oil and Gas

JUL 01 2022

WV Department of
Environmental Protection

47 10 30 35 15

WW-9
(4/16)

API Number 47 - _____ - _____
Operator's Well No. Denver 5H

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 _____)

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

RECEIVED
Office of Oil and Gas
JUL 01 2022

WV Department of Environmental Protection

Subscribed and sworn before me this 29th day of June, 20 22

[Signature] Notary Public

My commission expires October 25, 2023

Commonwealth of Pennsylvania - Notary Seal
Olivia Pishioneri, Notary Public
Allegheny County
My commission expires October 25, 2023
Commission number 1359968
Member, Pennsylvania Association of Notaries

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.

RECEIVED
Office of Oil and Gas

JUL 01 2022

WV Department of
Environmental Protection

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

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

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

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

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.

Plan Approved by: **Kenneth Greynolds**
Digitally signed by: Kenneth Greynolds
 DN: CN = Kenneth Greynolds email = Kenneth.L.Greynolds@wv.gov C =
 AD O = WVDEP OJ = Oil and Gas
 Date: 2022.05.27 10:26:05 -0400

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.

RECEIVED
Office of Oil and Gas

JUL 01 2022

Title: Oil & Gas Inspector

Date: 5/27/2022

WV Department of
Environmental Protection

Field Reviewed? () Yes () No

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

May 23, 2022

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.

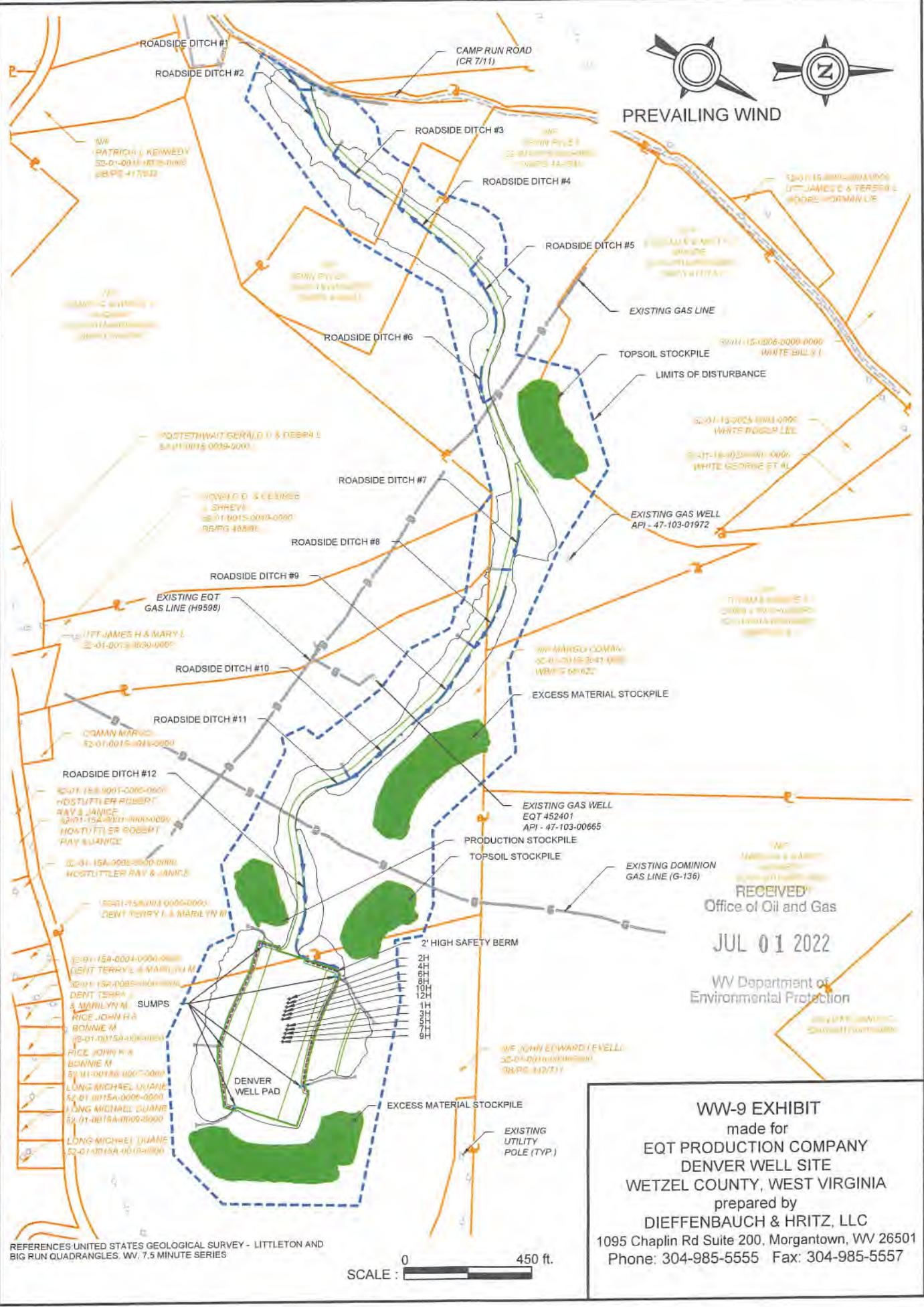
UWI	A/C STATUS	CURR OFFER	FIL CLASS	INT. CLASS	LATITUDE	LONGITUDE	OPER. NAME	DATE/TIME	ELEVATION	TOT. DEPTH	TVD
73433	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED	39.64202500	-80.57282100	UNKNOWM	NA027	0.00	0.00	0.00
73435	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED	39.64202500	-80.57282100	UNKNOWM	NA027	0.00	0.00	0.00
73417	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.65931600	-80.57394700	UNKNOWM	NA027	0.00	0.00	0.00
71935	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.65839600	-80.57394700	UNKNOWM	NA027	0.00	0.00	0.00
71899	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.62471000	-80.55082600	UNKNOWM	NA027	0.00	0.00	0.00
73428	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED	39.62471000	-80.55675100	UNKNOWM	NA027	0.00	0.00	0.00
73418	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED	39.65840400	-80.57245000	UNKNOWM	NA027	0.00	0.00	0.00
73420	Completed Wells	HOPE GAS INC	UNCLASSIFIED	UNCLASSIFIED	39.66173000	-80.54673000	UNKNOWM	NA027	0.00	0.00	0.00
71902	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED	39.61894000	-80.58587700	UNKNOWM	NA027	0.00	0.00	0.00
71903	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED	39.61720000	-80.58587700	UNKNOWM	NA027	0.00	0.00	0.00
73423	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.65334600	-80.58272000	UNKNOWM	NA027	0.00	0.00	0.00
73424	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.65334600	-80.58272000	UNKNOWM	NA027	0.00	0.00	0.00
73427	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.64202500	-80.55714800	UNKNOWM	NA027	0.00	0.00	0.00
73429	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.64202500	-80.55714800	UNKNOWM	NA027	0.00	0.00	0.00
73404	Completed Wells	CONSOLIDATED GAS SUPPLY CORP	UNCLASSIFIED	UNCLASSIFIED	39.64202500	-80.55709300	UNKNOWM	NA027	0.00	0.00	0.00
73431	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.64199000	-80.57826800	UNKNOWM	NA027	0.00	0.00	0.00
70832	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED	39.64158000	-80.57451000	UNKNOWM	NA027	0.00	0.00	0.00
70828	Completed Wells	SOUTH PENN OIL	UNCLASSIFIED	UNCLASSIFIED	39.64140500	-80.54816200	UNKNOWM	NA027	0.00	0.00	0.00
73476	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.66419900	-80.58176000	UNKNOWM	NA027	0.00	0.00	0.00
71901	Completed Wells	PHILADELPHIA OIL	UNCLASSIFIED	UNCLASSIFIED	39.61834000	-80.55780700	UNKNOWM	NA027	0.00	0.00	0.00
73475	Completed Wells	CNG DEVELOPMENT CO	UNCLASSIFIED	UNCLASSIFIED	39.65668800	-80.55421800	UNKNOWM	NA027	0.00	0.00	0.00
73473	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.64910900	-80.55743100	CNG DEVELOPMENT CO	NA027	0.00	0.00	0.00
73472	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.63110000	-80.54861100	UNKNOWM	NA027	0.00	0.00	0.00
73481	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.62737000	-80.54684800	UNKNOWM	NA027	0.00	0.00	0.00
73482	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.65891700	-80.58473000	CONSOLIDATED GAS SUPPLY CORP	NA027	0.00	0.00	0.00
73483	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.65891700	-80.58473000	CONSOLIDATED GAS SUPPLY CORP	NA027	0.00	0.00	0.00
73484	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.65891700	-80.58473000	CONSOLIDATED GAS SUPPLY CORP	NA027	0.00	0.00	0.00
73485	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.65891700	-80.58473000	CONSOLIDATED GAS SUPPLY CORP	NA027	0.00	0.00	0.00
73486	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.65891700	-80.58473000	CONSOLIDATED GAS SUPPLY CORP	NA027	0.00	0.00	0.00
73426	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.64139800	-80.55658900	UNKNOWM	NA027	0.00	0.00	0.00
73425	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.64139800	-80.55658900	UNKNOWM	NA027	0.00	0.00	0.00
73470	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.64202500	-80.54861100	UNKNOWM	NA027	0.00	0.00	0.00
73415	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.63140000	-80.55311500	UNKNOWM	NA027	0.00	0.00	0.00
73472	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.64475900	-80.58014000	MANUFACTURERS LIGHT & HEAT	NA027	0.00	0.00	0.00
73429	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.64112200	-80.57507000	SOUTH PENN OIL	NA027	0.00	0.00	0.00
73365	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.66057100	-80.58961000	UNKNOWM	NA027	0.00	0.00	0.00
73437	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.64112200	-80.58961000	UNKNOWM	NA027	0.00	0.00	0.00
73333	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.62180700	-80.55656500	UNKNOWM	NA027	0.00	0.00	0.00
73424	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.62571500	-80.55874500	UNKNOWM	NA027	0.00	0.00	0.00
73428	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.64170000	-80.57188200	UNKNOWM	NA027	0.00	0.00	0.00
73427	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.64170000	-80.57188200	UNKNOWM	NA027	0.00	0.00	0.00
70379	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.62978500	-80.55172600	UNKNOWM	NA027	0.00	0.00	0.00
70422	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.62978500	-80.55172600	UNKNOWM	NA027	0.00	0.00	0.00
70433	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.64448000	-80.55656500	UNKNOWM	NA027	0.00	0.00	0.00
73422	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.64763000	-80.57451000	UNKNOWM	NA027	0.00	0.00	0.00
73432	Completed Wells	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.64380000	-80.57451000	UNKNOWM	NA027	0.00	0.00	0.00
01972	Completed Wells/WHICS	UNKNOWM	UNCLASSIFIED	UNCLASSIFIED	39.63837160	-80.55888020	DAC CORP	NA027	1512.00	0.00	3718.00
01033	Completed Wells	TRIBUNE RESOURCES LLC	UNCLASSIFIED	UNCLASSIFIED	39.63502600	-80.57383000	SOUTH PENN OIL	NA027	0.00	0.00	3125.00
02193	Completed Wells	DIVERSIFIED PRODUCTION LLC	SUCCESSFUL OUTPOST EXTENSION	UNCLASSIFIED	39.67900400	-80.59719400	D.A.C OIL CORP	NA027	1361.00	0.00	3670.00
01558	Completed Wells	HONNER OIL & GAS PRODUCTION INC	UNCLASSIFIED	UNCLASSIFIED	39.65941000	-80.59315400	UNKNOWM	NA027	1300.00	0.00	3080.00
30314	Completed Wells	PITTSBURGH & W.VA GAS	UNCLASSIFIED	UNCLASSIFIED	39.62050100	-80.55272400	PITTSBURGH & W.VA GAS	NA027	1425.00	0.00	3450.00
00656	Completed Wells	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.64228300	-80.57038100	CONSOLIDATED GAS SUPPLY CORP	NA027	0.00	0.00	2340.00
00616	Completed Wells	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.62324900	-80.55884100	UNKNOWM	NA027	1460.00	0.00	3165.00
00819	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.62918110	-80.54877400	EXCEL ENERGY INC	NA027	1114.00	0.00	3470.00
00829	Completed Wells	PITTSBURGH & W.VA GAS	UNCLASSIFIED	UNCLASSIFIED	39.64811160	-80.57188200	UNKNOWM	NA027	1120.00	0.00	2288.00
00830	Completed Wells	PITTSBURGH & W.VA GAS	UNCLASSIFIED	UNCLASSIFIED	39.64811160	-80.57188200	UNKNOWM	NA027	1120.00	0.00	2288.00
00831	Completed Wells	PITTSBURGH & W.VA GAS	UNCLASSIFIED	UNCLASSIFIED	39.64811160	-80.57188200	UNKNOWM	NA027	1120.00	0.00	2288.00
00832	Completed Wells	PITTSBURGH & W.VA GAS	UNCLASSIFIED	UNCLASSIFIED	39.64811160	-80.57188200	UNKNOWM	NA027	1120.00	0.00	2288.00
00833	Completed Wells	PITTSBURGH & W.VA GAS	UNCLASSIFIED	UNCLASSIFIED	39.64811160	-80.57188200	UNKNOWM	NA027	1120.00	0.00	2288.00
00834	Completed Wells	PITTSBURGH & W.VA GAS	UNCLASSIFIED	UNCLASSIFIED	39.64811160	-80.57188200	UNKNOWM	NA027	1120.00	0.00	2288.00
00835	Completed Wells	PITTSBURGH & W.VA GAS	UNCLASSIFIED	UNCLASSIFIED	39.64811160	-80.57188200	UNKNOWM	NA027	1120.00	0.00	2288.00
00836	Completed Wells	PITTSBURGH & W.VA GAS	UNCLASSIFIED	UNCLASSIFIED	39.64811160	-80.57188200	UNKNOWM	NA027	1120.00	0.00	2288.00
00837	Completed Wells	PITTSBURGH & W.VA GAS	UNCLASSIFIED	UNCLASSIFIED	39.64811160	-80.57188200	UNKNOWM	NA027	1120.00	0.00	2288.00
00838	Completed Wells	PITTSBURGH & W.VA GAS	UNCLASSIFIED	UNCLASSIFIED	39.64811160	-80.57188200	UNKNOWM	NA027	1120.00	0.00	2288.00
00839	Completed Wells	PITTSBURGH & W.VA GAS	UNCLASSIFIED	UNCLASSIFIED	39.64811160	-80.57188200	UNKNOWM	NA027	1120.00	0.00	2288.00
00840	Completed Wells	PITTSBURGH & W.VA GAS	UNCLASSIFIED	UNCLASSIFIED	39.64811160	-80.57188200	UNKNOWM	NA027	1120.00	0.00	2288.00
01756	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.61397600	-80.54522930	DAC CORP	NA027	1124.00	0.00	2350.00
01861	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.61397600	-80.54522930	DAC CORP	NA027	1124.00	0.00	2350.00
01862	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.61397600	-80.54522930	DAC CORP	NA027	1124.00	0.00	2350.00
01863	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.61397600	-80.54522930	DAC CORP	NA027	1124.00	0.00	2350.00
01864	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.61397600	-80.54522930	DAC CORP	NA027	1124.00	0.00	2350.00
01865	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.61397600	-80.54522930	DAC CORP	NA027	1124.00	0.00	2350.00
01866	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.61397600	-80.54522930	DAC CORP	NA027	1124.00	0.00	2350.00
01867	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.61397600	-80.54522930	DAC CORP	NA027	1124.00	0.00	2350.00
01868	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.61397600	-80.54522930	DAC CORP	NA027	1124.00	0.00	2350.00
01869	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.61397600	-80.54522930	DAC CORP	NA027	1124.00	0.00	2350.00
01870	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.61397600	-80.54522930	DAC CORP	NA027	1124.00	0.00	2350.00
01871	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.61397600	-80.54522930	DAC CORP	NA027	1124.00	0.00	2350.00
01872	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.61397600	-80.54522930	DAC CORP	NA027	1124.00	0.00	2350.00
01873	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.61397600	-80.54522930	DAC CORP	NA027	1124.00	0.00	2350.00
01874	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.61397600	-80.54522930	DAC CORP	NA027	1124.00	0.00	2350.00
01875	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.61397600	-80.54522930	DAC CORP	NA027	1124.00	0.00	2350.00
01876	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.61397600	-80.54522930	DAC CORP	NA027	1124.00	0.00	2350.00
01877	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.61397600	-80.54522930	DAC CORP	NA027	1124.00	0.00	2350.00
01878	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED	UNCLASSIFIED	39.61397600	-80.54522930	DAC CORP	NA027	1124.00	0.00	2350.00
01879	Completed Wells/WHICS	DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED								

UWI	ACT_STATUS	CURR_OPER	FINL_CLASS	INIT_CLASS	LATITUDE	LONGITUDE	DATUM	ELEV_REF_CD	ELEVATION	TOT_DEPTH	TVD	WELL_NAME
47103026170000	Completed Wells	EQT PRODUCTION CO	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	38.6783900	-80.5975400	NAD27	KB	1359.00	1036.60	7584.00	31 CHARLES MILLSGRAVE
47103027750100	Completed Wells	EQT PRODUCTION CO	DEVELOPMENT WELL-GAS	DEVELOPMENT REDHILL	39.6151770	-80.5313250	NAD27	KB	1533.00	1373.00	7740.00	31 KUHNS MICHAEL UNIT

SCALE: 1:450 PLOTTED: 10/22/2020 8:16 AM FILE: X:\OIL AND GAS\EQT\2020\20070-004 - DENVERCADD (K DRIVE) - W\ATO CLIENT\DWG\DENVER_WW-9 EXHIBIT.DWG



PREVAILING WIND



RECEIVED
Office of Oil and Gas
JUL 01 2022
WV Department of
Environmental Protection

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

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



Topo Quad: Littleton

Scale: 1"=1000'

County: Wetzel

Date: October 14, 2020

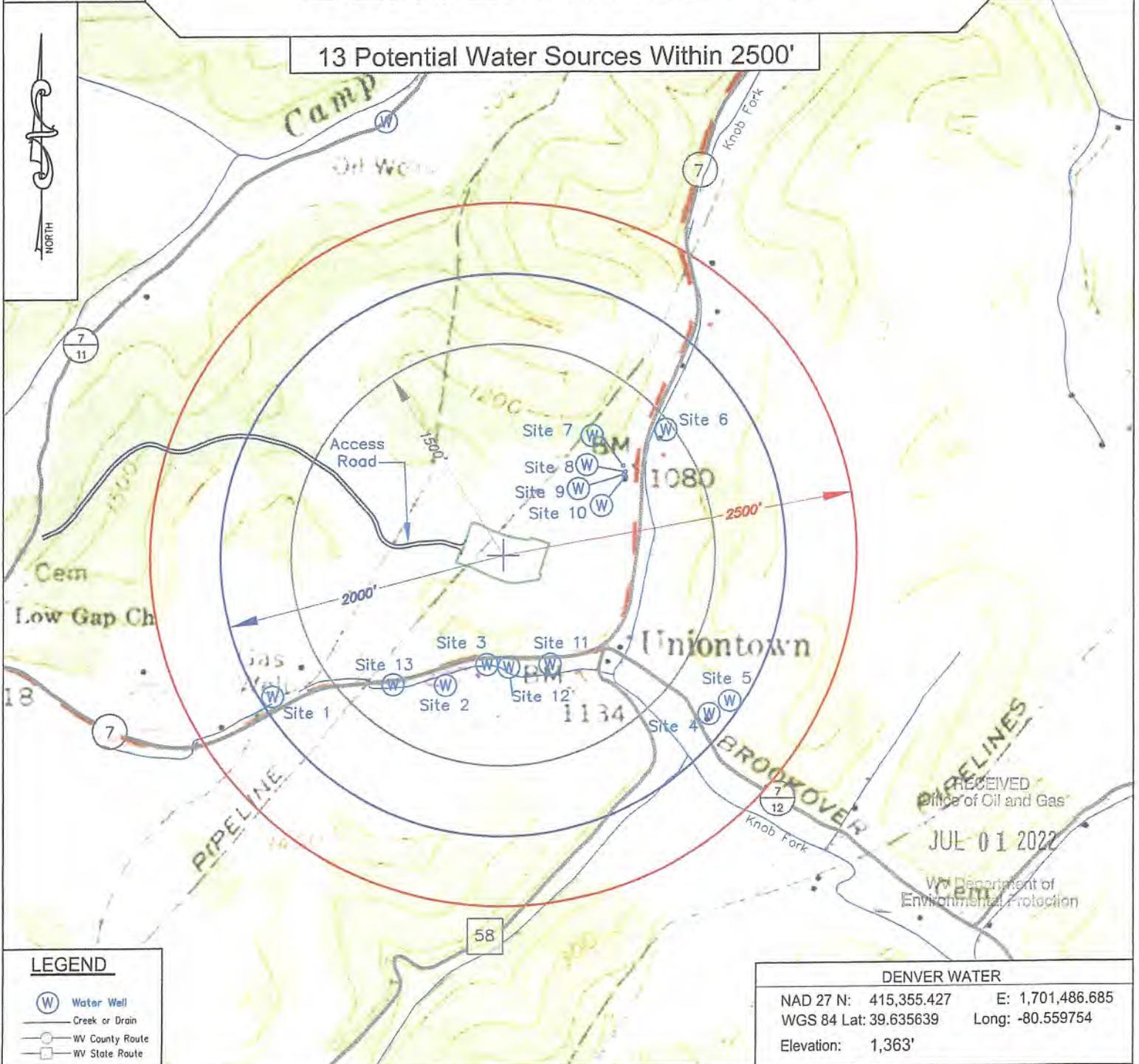
District: Center

Project NO: _____

DENVER WELL PAD

Water

13 Potential Water Sources Within 2500'



RECEIVED
Office of Oil and Gas
JUL 01 2022
WV Department of
Environmental Protection

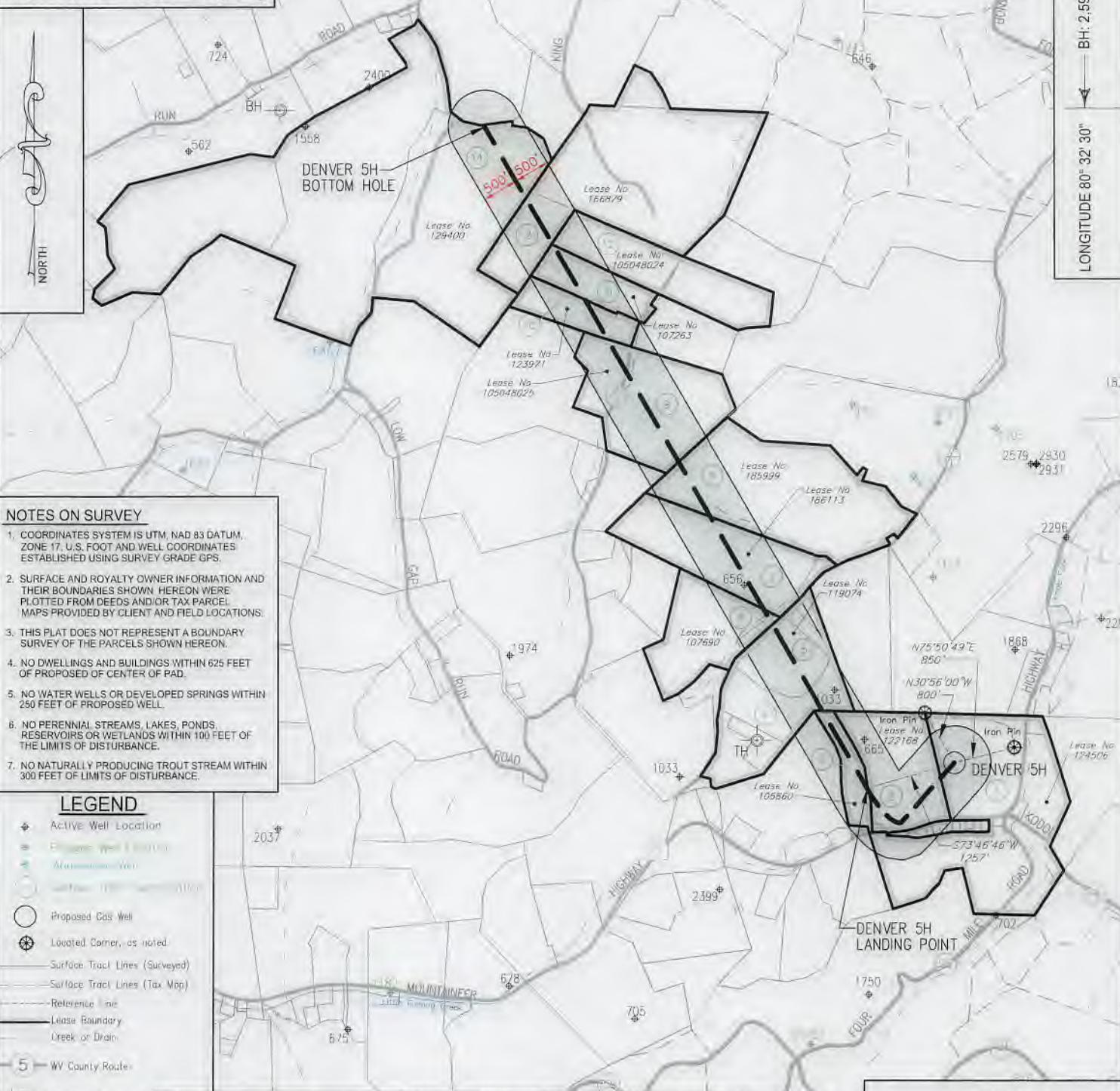


Keystone Consultants, LLC
32 East Main Street
Carnegie, PA 15106
412 278-2100

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



Denver 5H
Denver
EQT Production Company



NOTES ON SURVEY

- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17. U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- 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.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

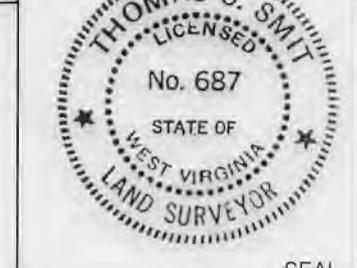
- LEGEND**
- Active Well Location
 - Proposed Well Location
 - Abandoned Well
 - Well Flow
 - Proposed Gas Well
 - Located Corner, as noted
 - Surface Tract Lines (Surveyed)
 - Surface Tract Lines (Tax Map)
 - Reference Line
 - Lease Boundary
 - Creek or Drain
 - WV County Route
 - WV State Route

() 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" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: JUNE 28 20 22
OPERATORS WELL NO: Denver 5H
API WELL NO: HCA 47 - 103 - 03515
STATE COUNTY PERMIT

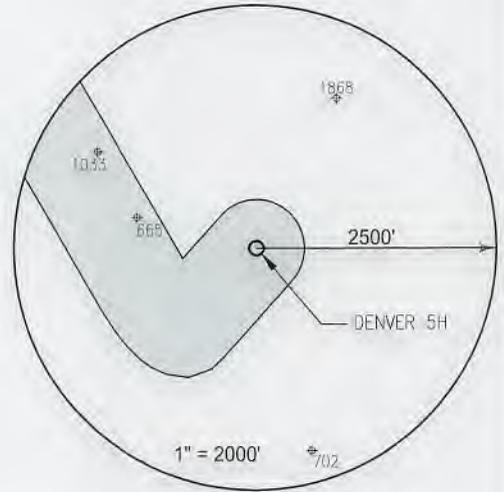
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION ELEVATION: 1,352' WATERSHED: LOWER WEST VIRGINIA FORK FISH CREEK QUADRANGLE: LITTLETON
DISTRICT: Center COUNTY: Wetzel
SURFACE OWNER: Audrey L. Lavelle ACREAGE: 117.39 ±
ROYALTY OWNER: Bounty Minerals LLC LEASE NO: 124506 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: 7,478'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C Mallow
ADDRESS: 400 Woodcliff Drive ADDRESS: 427 Midstate Drive
Canonsburg, PA 15317 Clarksburg, WV 26301

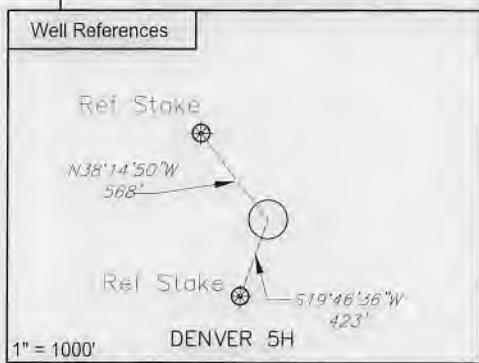
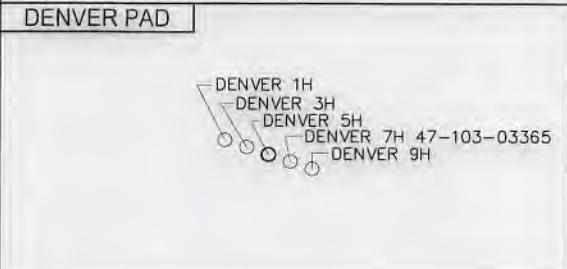
Denver 5H
Denver
EQT Production Company

Tract ID.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	16	38.0	Wetzel	Center	John Edward LaVelle	117.39
2	15	41.0	Wetzel	Center	Margo Coman	39.00
3	15	40.0	Wetzel	Center	Donald D. & Desiree J. Shreve	31.25
4	15	25.2	Wetzel	Center	Kevin Pyles	24.37
5	15	25.0	Wetzel	Center	Donald E. & Misty D. Moore	26.81
6	15	24.0	Wetzel	Center	Robert Blake & Marcella	36.50
7	15	6.0	Wetzel	Center	Billy L. White	53.39
8	15	7.0	Wetzel	Center	Steven P. Barbe & James R. Barbe	99.00
9	11	37.0	Wetzel	Center	Ray S. Sapp	57.50
10	11	35.0	Wetzel	Center	Ray S. Sapp	17.75
11	11	34.0	Wetzel	Center	Timmy Ray Sapp Sr. & Stanley Ray Sapp	21.75
12	11	33.0	Wetzel	Center	Ray S Sapp	22.50
13	11	32.0	Wetzel	Center	Edith Miller EST	20.00
14	11	20.0	Wetzel	Center	Green Dot Farm Inc	108.00

Lease	Owner	Acres
124506	Bounty Minerals, LLC, et al	128
122168	Ridgetop Royalties, LLC	40
105860	Stone Hill Minerals Holdings, LLC	1,694.69
119074	Bounty Minerals, LLC, et al	71
107690	Beulah Deloris Ballard, et al	40
186113	William H. Wood, et al	53
185999	William H. Wood, et al	99
105048025	Ray S. Sapp, et al	57.5
123971	Ray S. Sapp, et al	17.75
107263	Ray S. Sapp, et al	21.75
105048024	Ray S. Sapp, et al	22.125
166879	Shiben Estates, Inc	20
129400	Timothy J. Ashcraft, et al	398



Notes:
DENVER 5H Top Hole coordinates are
NAD 27 N: 415,397,168 E: 1,701,485,965
NAD 27 Lat: 39.635671 Long: -80.559950
NAD 83 UTM N: 4,387,423,239 E: 537,777.873
DENVER 5H Landing Point coordinates are
NAD 27 N: 415,046,092 E: 1,700,279,097
NAD 27 Lat: 39.634668 Long: -80.564220
NAD 83 UTM N: 4,387,310,129 E: 537,411.961
DENVER 5H Bottom Hole coordinates are
NAD 27 N: 424,145,215 E: 1,694,994,445
NAD 27 Lat: 39.659474 Long: -80.583372
NAD 83 UTM N: 4,390,055,355 E: 535,755.727
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. Smit
L. L. S. 687



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

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

DATE: JUNE 28 20 22
OPERATORS WELL NO: Denver 5H
API WELL NO: H6A
47 - 103 - 03515
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION ELEVATION: 1,352' 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: 124506 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: 7,478'
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C Mallow
ADDRESS: 400 Woodcliff Drive ADDRESS: 427 Midstate Drive
Canonsburg, PA 15317 Clarksburg, WV 26301

WW-6A1
(5/13)

Operator's Well No. Denver 5H

**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
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

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
				"at least 1/8th per WV Code 22-6-8"	
✓ <u>124506</u>	<u>Bounty Minerals, LLC, et al.</u> John Lavelle and Sarah Lavelle, his wife R. L. Hoskinson Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas, Inc. Blazer Energy Corp. Eastern States Oil & Gas, Inc. Equitable Production-Eastern States, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company Appalachian Natural Gas Trust	128 ac	R.L. Hoskinson Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas, Inc. Blazer Energy Corp. Eastern States Oil & Gas, Inc. Equitable Production-Eastern States, Inc. Appalachian Natural Gas Trust Equitable Production Company EQT Production Company EQT Production Company		OG 7A/70 OG 8A/91 DB 233/387 OG 66A/69 Corp. Book 13/151 OG 76A/232 Corp. Book 12/253 Corp. Book 12/259 WV SOS OG 79A/244 WV SOS Corp. Book 13/14 Misc. Book 96/505
✓ <u>122168</u>	<u>Ridgetop Royalties, LLC</u> Nathan Cross and Elizabeth Cross, his wife South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas, Inc. Blazer Energy Corp. Eastern States Oil & Gas, Inc. Equitable Production-Eastern States, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company Appalachian Natural Gas Trust	40 ac	South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas, Inc. Blazer Energy Corp. Eastern States Oil & Gas, Inc. Equitable Production-Eastern States, Inc. Appalachian Natural Gas Trust Equitable Production Company EQT Production Company EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 46/318 OG 9A/230 DB 233/387 OG 66A/69 Corp. Book 13/151 OG 76A/232 Corp. Book 12/253 Corp. Book 12/259 WV SOS OG 79A/244 WV SOS Corp. Book 13/14 Misc. Book 96/505
✓ <u>105860</u>	<u>Stone Hill Minerals Holdings, LLC</u> Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Antero Exchange Properties LLC Antero Resources Corporation	1,694.69 ac	SWN Production Company, LLC Antero Exchange Properties LLC Antero Resources Corporation EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 166A/931 OG 177A/533 Corp. Book 13/311 OG 231A/59

✓ <u>119074</u>	<u>Bounty Minerals, LLC, et al.</u> Violet M. Payne Drilling Appalachain Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc., et al	71 ac	Drilling Appalachain Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 81A/403 OG 124A/9 & 136A/538 OG 138A/1 OG 138A/54 OG 175A/707
✓ <u>107690</u>	<u>Beulah Deloris Ballard, et al.</u> Jane Blake South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas, Inc. Blazer Energy Corp. Eastern States Oil & Gas, Inc. Equitable Production-Eastern States, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company Appalachian Natural Gas Trust	40 ac	South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas, Inc. Blazer Energy Corp. Eastern States Oil & Gas, Inc. Equitable Production-Eastern States, Inc. Appalachian Natural Gas Trust Equitable Production Company EQT Production Company EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 46/352 OG 9A/230 DB 233/387 OG 66A/69 Corp. Book 13/151 OG 76A/232 Corp. Book 12/253 Corp. Book 12/259 WV SOS OG 79A/244 WV SOS Corp. Book 13/14 Misc. Book 96/505
✓ <u>186113</u>	<u>William H. Wood, et al.</u> William H. Wood, a married man dealing in his sole and separate property	53 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 277A/302
✓ <u>185999</u>	<u>William H. Wood, et al.</u> William H. Wood, a married man dealing in his sole and separate property	99 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 270A/279
✓ <u>105048025</u>	<u>Ray S. Sapp, et al.</u> Ray S. Sapp, a single man Statoil USA Onshore Properties Inc., et al	57.5 ac	Statoil USA Onshore Properties Inc. EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 171A/637 OG 185A/916
✓ <u>123971</u>	<u>Ray S. Sapp, et al.</u> Ray S. Sapp, a single man Statoil USA Onshore Properties Inc., et al	17.75 ac	Statoil USA Onshore Properties Inc. EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 171A/628 OG 185A/916

✓ <u>107263</u>	<u>Ray S. Sapp, et al.</u> Ray S. Sapp, a single male TH Exploration, LLC	21.75 ac	TH Exploration, LLC EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 192A/417 OG 258A/333
✓ <u>105048024</u>	<u>Ray S. Sapp, et al.</u> Ray S. Sapp, a single man Statoil USA Onshore Properties Inc., et al	22.125 ac	Statoil USA Onshore Properties Inc. EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 171A/631 OG 185A/916
✓ <u>166879</u>	<u>Shiben Estates, Inc.</u> Shiben Estates, Inc.	20 ac / 523.298750 ac lease total	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 264A/693
✓ <u>129400</u>	<u>Timothy J. Ashcraft, et al.</u> Timothy J. Ashcraft, a married man dealing in his sole and separate property	398 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 252A/706



4710303515

EQT PRODUCTION COMPANY
400 Woodcliff Drive | Canonsburg, PA 15317

June 25, 2022

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

Re: Denver 5H 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,

A handwritten signature in blue ink, appearing to read 'J. Zavatchan'.

John Zavatchan
Project Specialist - Permitting

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

Date of Notice Certification: 6/29/22

API No. 47- _____
Operator's Well No. 5H
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>537777.873</u>
County: <u>Welzel</u>	Northing: <u>4387423.239</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		OOG OFFICE USE ONLY
<input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED		<input type="checkbox"/> RECEIVED/ NOT REQUIRED
<input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED		<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)		<input type="checkbox"/> RECEIVED/ NOT REQUIRED
<input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION		<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 5. PUBLIC NOTICE		<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<input type="checkbox"/> RECEIVED

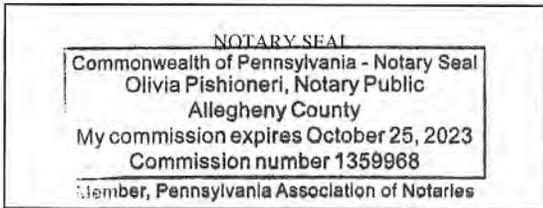
Required Attachments:

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 29th day of June, 2022.

[Signature] Notary Public

My Commission Expires October 25, 2023

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.

WW-6A
(9-13)

API NO. 47- _____
OPERATOR WELL NO. 5H _____
Well Pad Name: Denver

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: 6/29/22 Date Permit Application Filed: 6/29/22

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



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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting 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

WW-6A
(8-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. 5H _____
Well Pad Name: Denver _____

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 57th St. SE
Charleston, WV 25304
(304) 926-0450

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.

47 10 3035 15

WW-6A
(8-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. 5H _____
Well Pad Name: Denver

Notice is hereby given by:

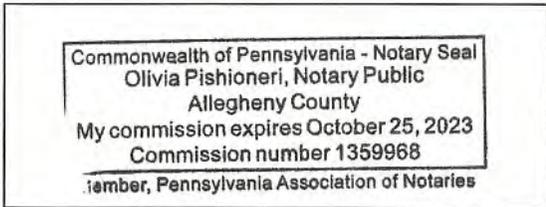
Well Operator: EQT Production Company
Telephone: 724-746-9073
Email: jzavatchan@eqt.com



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 depprivacyofficer@wv.gov.



Subscribed and sworn before me this 29th day of June, 2022.
Olivia Pishioneri Notary Public
My Commission Expires October 25, 2023

Topo Quad: Littleton

Scale: 1"=1000'

County: Wetzel

Date: October 14, 2020

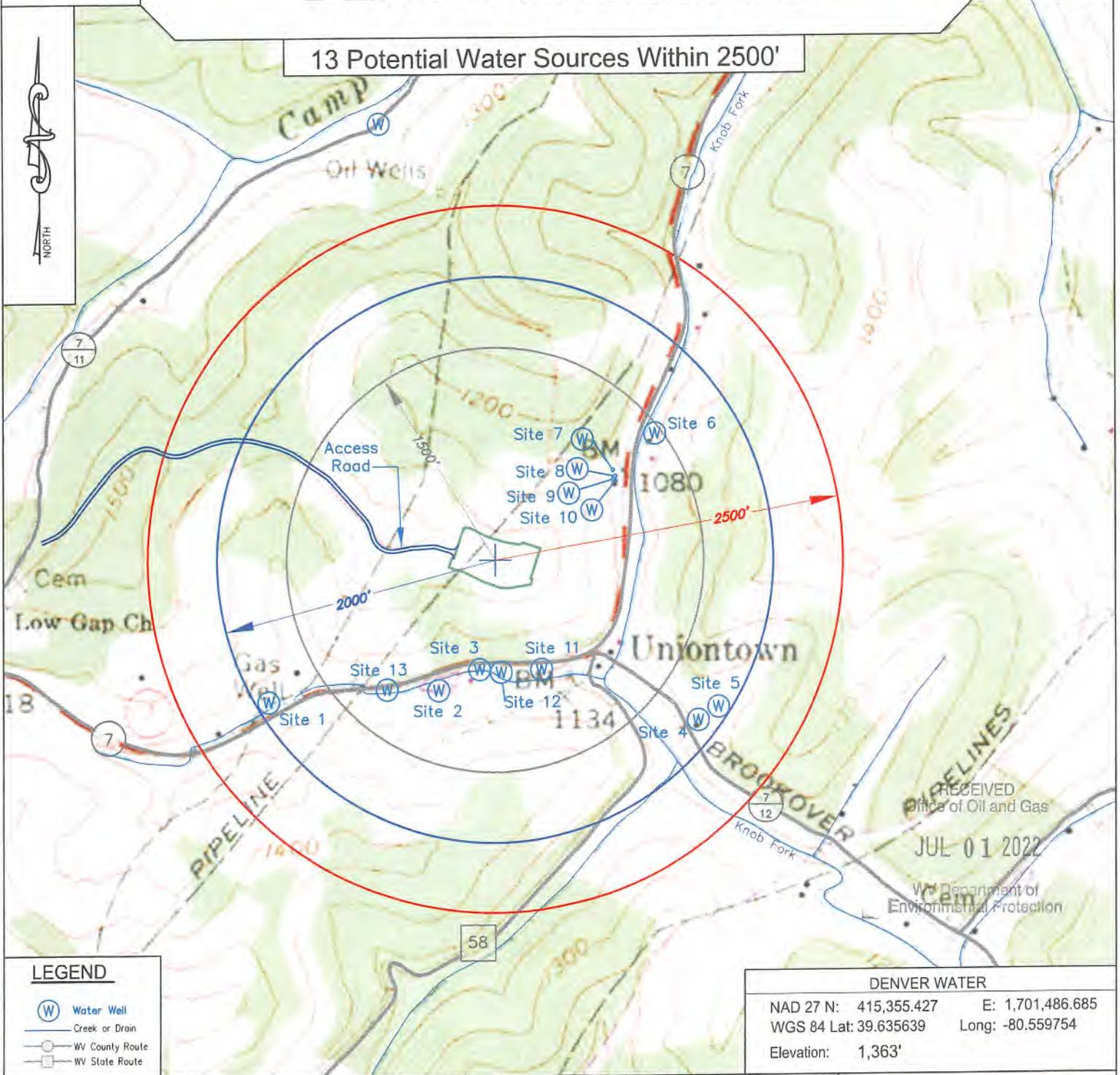
District: Center

Project NO: _____

DENVER WELL PAD

Water

13 Potential Water Sources Within 2500'



LEGEND

- Water Well
- Creek or Drain
- WV County Route
- WV State Route

DENVER WATER

NAD 27 N: 415,355.427 E: 1,701,486.685
 WGS 84 Lat: 39.635639 Long: -80.559754
 Elevation: 1,363'

RECEIVED
 Office of Oil and Gas
 JUL 01 2022
 WV Department of
 Environmental Protection



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

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



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 26186

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

Denver**Surface Owners:**

- 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

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: 06/29/2022 **Date Permit Application Filed:** 06/29/2022

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: <u>See Attached List</u>	Name: _____
Address: _____	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>537777.873</u>
County: <u>Wetzel</u>		Northing: <u>4387423.239</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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: <u>EQT Production Company</u>	Address: <u>400 Woodcliff Drive</u>
Telephone: <u>724-746-9073</u>	<u>Canonsburg, PA 15317</u>
Email: <u>jzavatchan@eqt.com</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.

Denver Well Site – WW-6A5 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



47 10303515

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

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

D. Alan Reed, P.E.
State Highway Engineer

Jimmy Wriston, P. E.
Secretary of Transportation
Commissioner of Highways

May 12, 2022

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

Subject: DOH Permit for the Denver Pad, Wetzel County
Denver 5H 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 SLS MP 0.13.

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. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

A handwritten signature in blue ink that reads "Gary K. Clayton".

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

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>
Sand (Proppant)	Silica Substrate	14808-60-7
Water	Water	7732-18-5
Hydrochloric Acid (HCl)	Hydrogen Chloride	7647-01-0
Friction Reducer	Copolymer of 2-propenamide	Proprietary
	Petroleum Distillate	64742-47-8
	Oleic Acid Diethanolamide	93-83-4
	Alcohols, C12-16, ethoxylated	68551-12-2
	Ammonium chloride ((NH₄)Cl)	12125-02-9
Biocide	Glutaraldehyde	111-30-8
	Alkyl dimethyl benzyl ammonium chloride	68391-01-5
	Didecyl dimethyl ammonium chloride	7173-51-5
	Non-hazardous substances	Proprietary
	Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid)(BHMT)	34690-00-1
Scale Control	Non-hazardous substances	Proprietary
Acid Chelating Agent	Citric Acid	77-92-9
Corrosion Inhibitor	Methanol	67-56-1
	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

DENVER WELL LOCATIONS								
WELL DESIGNATION	LAT(NAD83)	LONG(NAD83)	NORTHING(NAD83)	EASTING(NAD83)	NORTHING(NAD27)	EASTING(NAD27)	NORTHING(NAD 83 UTM METERS)	EASTING(NAD83 UTM METERS)
2H	39 38 08.81761	80 33 36.68840	415448.8445	1669926.224	415411.386	1701364.221	4387426.850	537740.706
4H	39 38 08.79243	80 33 36.50578	415444.1030	1669940.455	415406.644	1701378.452	4387425.528	537745.069
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	415397.180	1701406.914	4387422.835	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
14H	39 38 08.56643	80 33 35.59271	415420.3956	1670011.608	415382.915	1701449.607	4387418.717	537766.867
16H	39 38 08.52123	80 33 35.41009	415415.6541	1670025.839	415378.153	1701463.839	4387417.345	537771.227
18H	39 38 08.47603	80 33 35.22747	415410.9126	1670040.070	415373.391	1701478.071	4387415.973	537775.587
20H	39 38 08.43083	80 33 35.04485	415406.1711	1670054.301	415368.629	1701492.302	4387414.601	537779.947
22H	39 38 08.38563	80 33 34.86223	415401.4296	1670068.532	415363.867	1701506.534	4387413.229	537784.307
24H	39 38 08.34043	80 33 34.67961	415396.6881	1670082.763	415359.105	1701520.765	4387411.857	537788.667
26H	39 38 08.29523	80 33 34.49699	415391.9466	1670097.000	415354.343	1701535.000	4387410.485	537793.027

EROSION & SEDIMENT CONTROL PLAN

DENVER WELL SITE

WETZEL COUNTY, WEST VIRGINIA

FOR

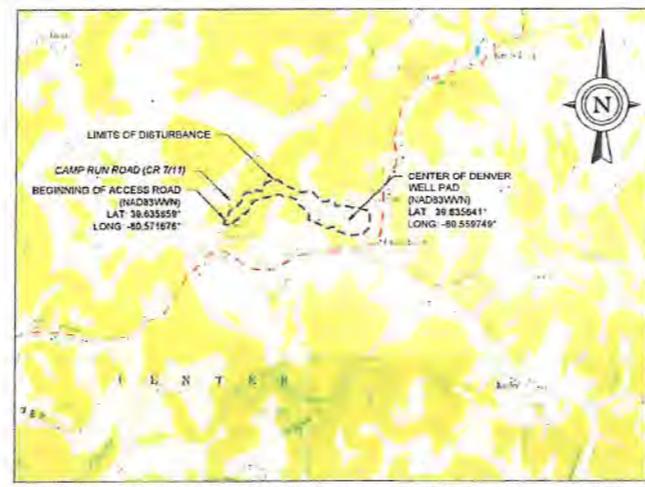
EQT PRODUCTION COMPANY

APPROVED

WVDEP OOG

[Signature]

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	3.88	N/A	N/A	3.88
KEVIN PYLEE 52-01-0015-0025-0005	1.10	N/A	N/A	1.10
KEVIN PYLEE 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 LYNN CHILDERS 52-01-0015-0025-0000	0.60	N/A	0.35	0.95
DONALD D. & DESIREE J. SHREVE 52-01-0015-0049-0000	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 52-01-0015-0038-0000	N/A	9.88	4.47	14.35
TOTALS:	23.86	11.05	12.27	47.18

INDEX	
DRAWING NO.	TITLE
1	TITLE SHEET
2	GENERAL NOTES
3	EXISTING SITE PLAN
4	OVERALL ESS 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	ESS TYPICAL SECTIONS
27-30	ESS DETAILS

PROJECT NO. 20070-004

OCTOBER 2020

DIEFFENBAUCH & HRITZ, LLC

SCALE: 1/400 PLOTTED: 1/21/2020 11:43 AM FILE: X:\C\1 AND GABECO\2020\0070-004 - DENVERWELL.DWG - DRIVE: \\WVPLANS\BSS\001_TITLE SHEET.DWG



NO.	DATE	REVISION	FWH DRAWN BLB CHECKED RCL APPROVED OCT 2020 DATE 20070-004 PROJECT NO.
CLIENT EQT PRODUCTION COMPANY			PROJECT DENVER WELL SITE WETZEL COUNTY, WV
TITLE TITLE SHEET			
DRAWING NO. 1			DRAWING NO.

DIEFFENBAUCH & HRITZ, LLC
 1000 Chapman Road, Suite 200
 Wetzel, WV 26061
 www.dieffenbauch.com
 P: 304.895.5585 F: 304.895.5557

EARTHWORK QUANTITIES (CY)			
TOPSOIL STOCKPILE	CUT	FILL	28.7%
WELL PAD	75,116	60,328	
WELL PAD ACCESS ROAD	36,026	27,323	
OVERALL CUT/FILL BALANCE	111,142	87,651	23,391
SOL STOCKPILE#1			23,391
GRAVEL			1,876

- EXCESS MATERIAL STOCKPILES DESIGNED ASSUMING AT LEAST A 10% SWELL FACTOR IN ADDITION TO THE QUANTITIES LISTED ABOVE
- ESTIMATED TOPSOIL DEPTH = 12"
- EARTHWORK QUANTITIES REFLECT SUBGRADE ELEVATIONS IN AREAS PLANNED TO BE STONED

- EXISTING NOTES:**
- TOPOGRAPHIC INFORMATION OBTAINED FROM BLUE MOUNTAIN INC.
 - PROPERTY LINE INFORMATION OBTAINED FROM TAX MAPS AND SURVEYED BY DIEFFENBAUGH & HRTTZ, LLC AND SHOULD BE USED AS REFERENCE ONLY.
 - THE PROPERTIES AFFECTED BY THIS DEVELOPMENT ARE LOCATED ON FIRM MAP NUMBER 84010201000 DATED 4/25/2009. THE LIMITS OF DISTURBANCE PROVIDED WITH THIS DEVELOPMENT IS LOCATED IN ZONING AS DEFINED BY THE FIRM.
 - RECEIVING STREAMS: THIRTEEN (13) UNNAMED TRIBUTARIES TO KNOB FORK; AND THREE (3) UNNAMED TRIBUTARIES TO CAMP RUN.
 - GEOTECHNICAL INVESTIGATIONS WERE CONDUCTED BY GEOTECH ENGINEERING, INC. AS PART OF THIS DESIGN. REFER TO GEOTECH ENGINEERING, INC. GEOTECHNICAL REPORT FOR A DETAILED DATA (PROJECT CENTER WELL NED DATED SEPT 1, 2020). ADJUSTMENTS TO CUT AND FILL VALUES SHOULD NOT BE MADE UNLESS REVIEWED BY GEOTECH ENGINEERING, INC. AND DIEFFENBAUGH & HRTTZ, LLC.
 - LIMITS OF DISTURBANCE AS ACREAGE

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
	CHANNEL FLOW DIRECTION		STREAM
	PROPERTY LINE		DELINEATED STREAM
	MUNICIPAL BOUNDARY		DELINEATED WETLAND BOUNDARY
	PROPOSED FENCE		RIPARIAN BUFFER
	EXISTING FENCE		SILT FENCE (5%)
	EXISTING ELECTRIC LINE		TRIPLE OPS STACK / OPS SEDIMENT TRAP
	EXISTING GAS LINE		EXISTING SPOT ELEVATION
	PROPOSED GAS LINE		CUT LIMITS
	PROPOSED WATER LINE		TOP BENCH WITH DRAIN
	FILL LIMITS		ROADWAY CENTERLINE
	CUT LIMITS		SAFETY BERM
	TOP BENCH WITH DRAIN		LIMITS OF DISTURBANCE
	ROADWAY CENTERLINE		EXISTING UTILITY POLE
	SAFETY BERM		
	LIMITS OF DISTURBANCE		
	EXISTING UTILITY POLE		

DENVER WELL LOCATIONS

WELL DESIGNATION	LAT(NAD83)	LONG(WAD83)	NORTHING(NAD83)	EASTING(EAD83)	NORTHING(NAD27)	EASTING(NAD27)	NORTHING(NAD83)	EASTING(NAD83)	UTM METERS	UTM METERS
2H	39 38 06.69769	80 33 36.68842	415448.8495	1659916.274	415311.265	1701364.221	4387426.950	537746.708		
4H	39 38 06.75243	80 33 36.50578	415444.1020	1659940.455	415406.644	1701378.452	4387425.578	537745.068		
5H	39 38 06.74723	80 33 36.32317	415435.8635	1659954.886	415401.907	1701392.868	4387424.206	537748.428		
6H	39 38 06.70203	80 33 36.14056	415434.6701	1659958.917	415397.120	1701409.914	4387422.833	537753.757		
10H	39 38 06.65683	80 33 35.95753	415429.8780	1659961.148	415392.435	1701421.144	4387421.461	537758.147		
12H	39 38 06.61163	80 33 35.77533	415425.1371	1659971.378	415387.677	1701435.375	4387420.089	537762.507		
1H	39 38 06.60175	80 33 35.49529	415444.1138	1659919.512	415406.653	1701457.507	4387425.983	537760.153		
3H	39 38 06.75654	80 33 35.31268	415439.3723	1659939.749	415401.911	1701471.738	4387424.611	537773.513		
5H	39 38 06.71135	80 33 35.13006	415434.6300	1659947.974	415397.165	1701485.969	4387423.233	537777.873		
7H	39 38 06.66615	80 33 34.94745	415429.8694	1659967.205	415392.427	1701500.199	4387421.867	537782.232		
9H	39 38 06.62095	80 33 34.76484	415425.1479	1659976.435	415387.665	1701514.430	4387420.495	537786.592		



REVISION: _____ DATE: _____
 TMR: _____
 CASH: _____
 BLD: _____
 CHECKED: _____
 RCL: _____
 APPROVED: _____
 OCT 2020
 DATE: _____
 2007B-004
 PROJECT NO: _____
 DIEFFENBAUGH & HRTTZ, LLC
 1185 Cheate Road, Suite 200
 Wheeling, WV 26061
 www.dieffenbaugh.com
 P-304.865.5555 F-304.865.5557

EOT PRODUCTION COMPANY
 DENVER WELL SITE
 WETZEL COUNTY, WV
 OVERALL E&S SITE PLAN
 4