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west virginia department of environmental protection

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

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

Wednesday, June 16, 2021  
WELL WORK PERMIT  
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY  
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for CASH 1H  
47-103-03398-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin  
Chief

Operator's Well Number: CASH 1H  
Farm Name: JOHN R. & PHYLLIS R. BOHRI  
U.S. WELL NUMBER: 47-103-03398-00-00  
Horizontal 6A New Drill  
Date Issued: 6/16/2021

# PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

## CONDITIONS

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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](mailto: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: 1H Well Pad Name: Cash

3) Farm Name/Surface Owner: John R. & Phyllis R. Bohrer Public Road Access: CR-8 Low Gap Run Road

4) Elevation, current ground: 1,501' Elevation, proposed post-construction: 1,490'

5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_  
(b) If Gas Shallow  Deep \_\_\_\_\_  
Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus, 7,617', 49', 2,620 PSI

8) Proposed Total Vertical Depth: 6,944'

9) Formation at Total Vertical Depth: Elk

10) Proposed Total Measured Depth: 6,962'

11) Proposed Horizontal Leg Length: 0'

12) Approximate Fresh Water Strata Depths: 155'

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13) Method to Determine Fresh Water Depths: Offset Wells, 47-103-02537, 47-103-02648

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14) Approximate Saltwater Depths: 2,107'

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15) Approximate Coal Seam Depths: 1,168'-1,171', 1,270'-1,276'

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

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

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

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	A-500	85.6	40	40	60 ft <sup>3</sup> / CTS
Fresh Water	13 3/8	New	J-55	54.5	1326	1326	1150 ft <sup>3</sup> / CTS
Coal							
Intermediate	9 5/8	New	J-55	40	2798	2798	1100 ft <sup>3</sup> / CTS
Production	5 1/2	New	P-110	20	6962	6962	500' above intermediate casing
Tubing							
Liners							

*Buyer Hani*  
4-8-21

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	1050	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A / Type 1	1.13 - 1.19
Coal							
Intermediate	9 5/8	12 3/8	0.352	3520	2816	Class A / Type 1	1.13 - 1.19
Production	5 1/2	8 1/2	0.361	14360	11488	Class A/H	1.04 - 2.098
Tubing							
Liners							

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PACKERS

Kind:				
Sizes:				
Depths Set:				

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

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

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): 27.91

22) Area to be disturbed for well pad only, less access road (acres): 7.83

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

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

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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

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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.



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Office of Oil and Gas  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304  
(304) 926-0460  
(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 I (2% Calcium Chloride-Accelerator, 0.25% Super Flake-Lost Circulation, 5.2% Water, 94% Type "I" 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

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06/18/2021



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Earl Ray Tomblin, Governor  
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**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.

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**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

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EQT PRODUCTION COMPANY  
400 Woodcliff Drive | Canonsburg, PA 15317

April 7, 2021

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

Re: Casing on Cash 1H

Dear Mr. Brewer,

The 13-3/8" surface casing will be set at 1,326' KB, 50' below the deepest workable coal seam and 1,171' below the deepest fresh water. The 9-5/8" intermediate string will be set at 2,798' 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.

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**WEST VIRGINIA GEOLOGICAL PROGNOSIS**

LIT69

Horizontal Well  
 Pad Name: **CASH 1H  
 LIT69**

**Drilling Objectives:**

**Quad:** Marcellus  
**County:** Littleton  
**Elevation:** Wetzel  
**Recommended Azimuth:** 1501 KB  
 315 Degrees

1501 KB  
 315 Degrees

1488 GL  
 Recommended total wellbore length:

**Proposed Logging Suite:** -No Pilot Hole Needed

**Coal requirements:** Run a directional survey from the surface through the deepest coal seam

**ESTIMATED FORMATION TOPS**

Formation	Derived from wells		Lithology	Comments
	Top (TVD)	Base (TVD)		
Fresh Water Zone	1	155		FW from offsets @ 155, . . . .
Sewickley Coal	1168	1171	Coal	
Pittsburgh Coal	1270	1276	Coal	SW @ 2107, . . .
Big Injun	2624	2748	Sandstone	Hydrocarbon prod/show in offset @ 1005,2013,2365,2592,3561, . . .
Int. csq pt	2798			50 ft below Big Injun
Berea	2893	3190	Sandstone	
Gantz	3253	3397	Silty sand	
Fifty foot	3419	3461	Silty sand	Outside of Storage Boundary
Thirty foot	3494	3520	Silty sand	
Bayard	3562	3683	Sandstone	
Upper Speechley	4012	4065	Silty sand	
Speechley	4075	4156	Silty sand	
Balltown	4156	4482	Silty sand	
Bradford	4482	5127	Silty sand	
Benson	5615	6001	Silty sand	
Alexander	6001	6457	Silty sand	
Elk	6457	7183	Silty sand	
Sonyea	7183	7330	Gray shale	
Middlesex	7330	7366	Black Shale	
Genesee	7366	7441	Gray shale interbedded	
Genesee	7441	7468	Black Shale	
Tully	7468	7492	Limestone	
Hamilton	7492	7593	Gray shale with some	
Marcellus	7593	7641	Black Shale	
-Purcell	7612	7614	Limestone	
-Cherry Valley	7625	7627	Limestone	
<b>-Lateral Zone</b>	<b>7617</b>			
Onondaga	7641		Limestone	

Top RR Base RR  
 RED ROCK SHOWS NOT LISTED !!

Target Thickness	49 feet
Max Anticipated Rock Pressure	2620 PSI

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

**RECOMMENDED CASING POINTS**

	CSG OD		CSG DEPTH:	Planned Depth
<b>Conductor:</b>	24"			40
<b>Freshwater / Coal:</b>	13 3/8"			1326 50' below Pittsburgh
<b>Intermediate 1:</b>	9 5/8"			2798 50' below big injun
<b>Production:</b>	5 1/2"			@ TD

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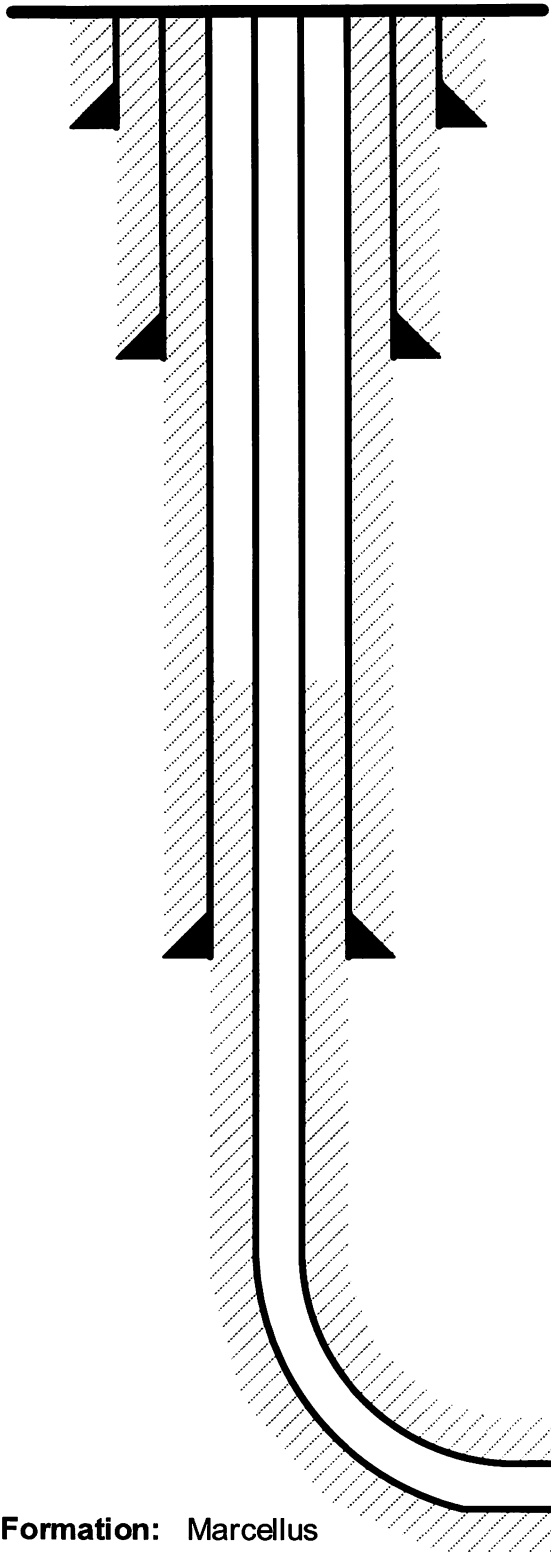
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**EQT Production**

**Wellbore Diagram**

Well: Cash 1H  
Pad: Cash  
Elevation: 1488' GL 1501' KB

County: Wetzel  
State: West Virginia



**Conductor @ 40'**

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

**Surface @ 1,326'**

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

**Intermediate @ 2,798'**

9-5/8", 40#, J-55, cement to surface w/ Class A/Type I

**Production @ 6,962' MD / 6,944' TVD**

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

**Formation: Marcellus**

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WW-9  
(4/16)

API Number 47 - 103 - 03398 H6A  
Operator's Well No. Cash 1H

**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) Little Fishing 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.

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I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]

Company Official (Typed Name) John Zavatchan

Company Official Title Project Specialist - Permitting

Subscribed and sworn before me this 20<sup>th</sup> day of April, 2021

[Signature] Notary Public

My commission expires October 25, 2023

Commonwealth of Pennsylvania - Notary Seal  
Olivia Pishoneri, Notary Public  
Allegheny County  
My commission expires October 25, 2023  
Commission number 193398  
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.

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Proposed Revegetation Treatment: Acres Disturbed \_\_\_\_\_ Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 500 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: Bryce Hamri

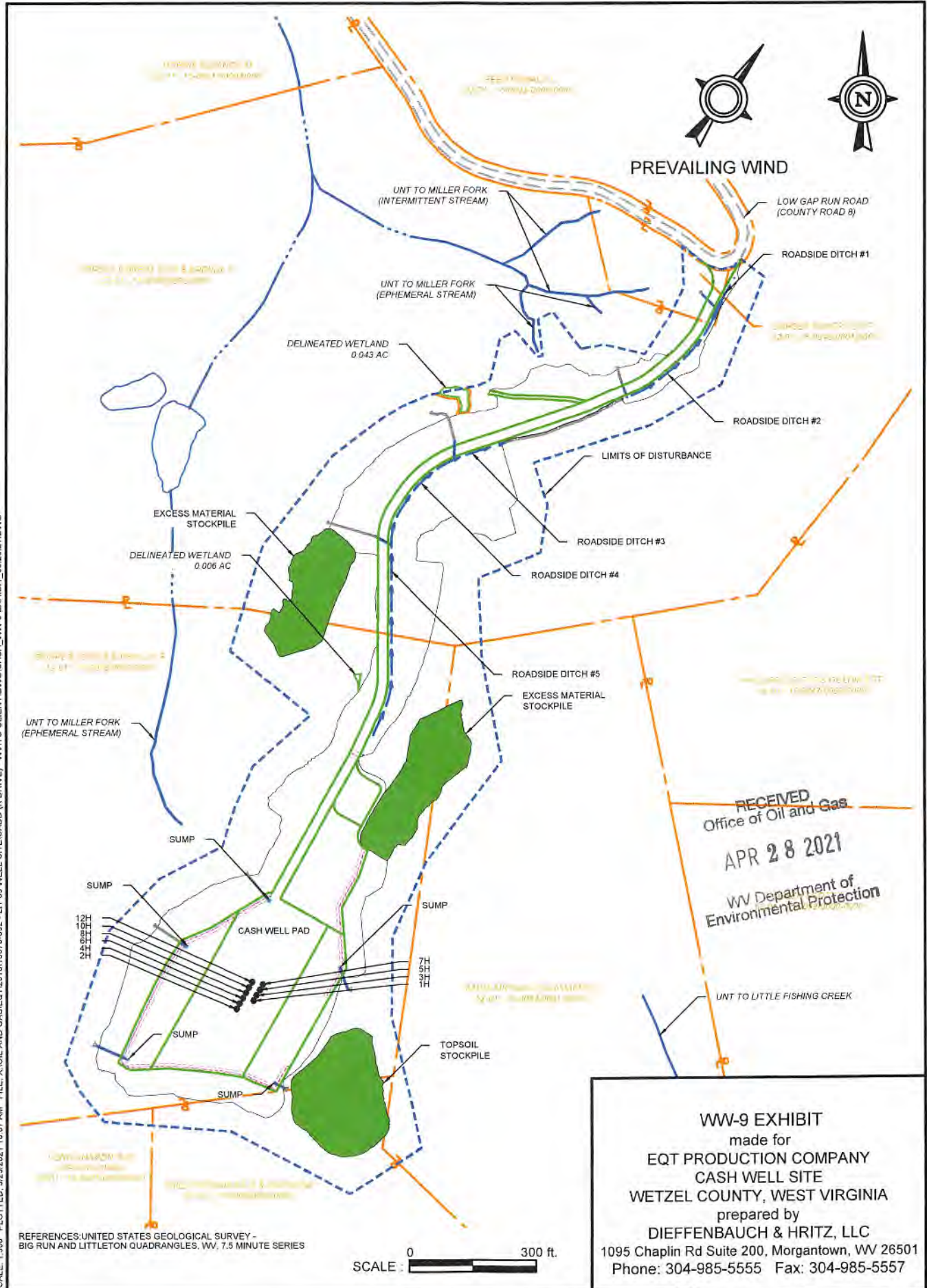
Comments: Pre-seed/mulch all disturbed areas as soon as reasonably possible, per regulation. Upgrade E&S as necessary per WV DEP E&S Manual.

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Title: Inspector Date: 4-8-21

Field Reviewed? (  ) Yes (  ) No

SCALE: 1:300 PLOTTED: 3/25/2021 10:07 AM FILE: X:\OIL AND GAS\EQT\2018\18070-052 - LIT 69 WELL SITE\CADD (K DRIVE) - W\TO CLIENT\DWG\CASH\_WW-9 EXHIBIT\_03.25.21.DWG



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

**WW-9 EXHIBIT**  
 made for  
**EQT PRODUCTION COMPANY**  
**CASH 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

06/18/2021



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		Wesley	OH	44418	330-232-5041	Trumbull	OH	34-155-2-2403

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Office of Oil and Gas

FOIA b7D

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

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EQT Production  
Hydraulic Fracturing Monitoring Plan

Pad ID: Cash

County: Wetzel

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July 22, 2020

## 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 Cash pad: 1H, 3H, 5H & 7H

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.

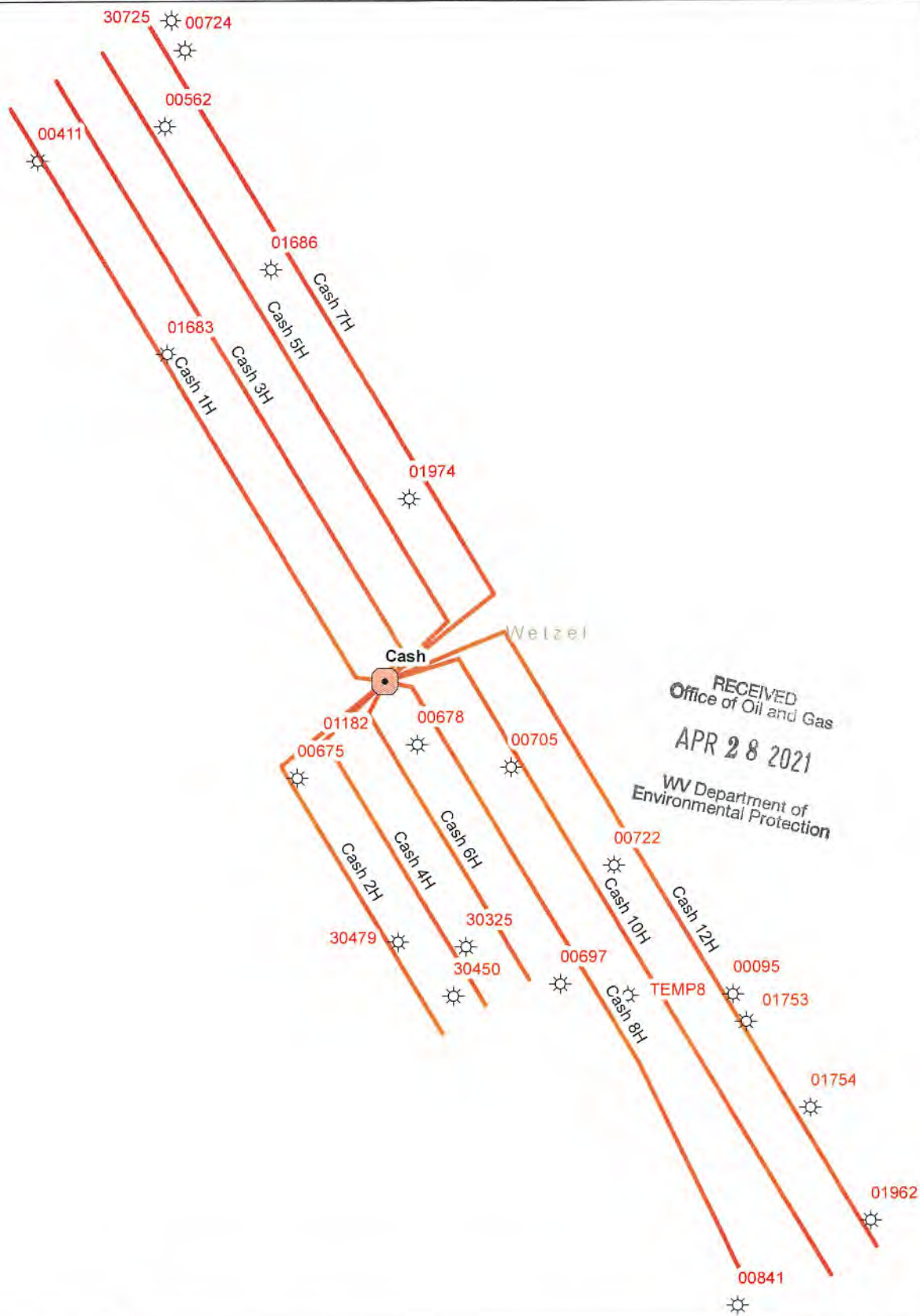
EQT will recommend to these operators at a minimum to:

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.

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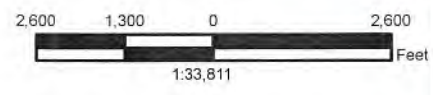


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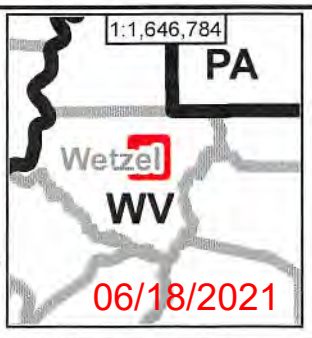
**EQT**  
EQT Corporation  
625 Liberty Avenue  
Pittsburgh, PA 15222

Cash  
  
Vertical Offsets and  
Foreign Laterals  
within 500'

**Legend**  
 Foreign Offset Wells  
 Well Pad Sites  
**Well Lateral\_FM**  
 Geneseo  
 Marcellus  
 Utica



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



WellID	WellStatus	date	FmatTD	Permit	RemarksPRO	Operator	Longitude	Latitude	TargetFm	DatumEleva	TotalDepth-SS	Total Depth
4710300095	GAS	4/10/1919		00095	BNJGDN	EPC	-80.5610	39.6142		1120.0000	-1857.0000	2977.0000
4710300411	GAS	6/10/1955		00411		L & M OIL & GAS	-80.6064	39.6568		1120.0000	-1990.0000	3110.0000
4710300562	GAS	10/16/1964		00562		WILLIAM CASSADY	-80.5980	39.6585		1133.0000	-1317.0000	2450.0000
4710300675	UNK	11/21/1904		00675	GDN	EPC	-80.5896	39.6253		0.0000	-3124.0000	3124.0000
4710300678	GAS	2/1/1906		00678	GDN	EPC	-80.5817	39.6270		0.0000	-2996.0000	2996.0000
4710300697	P&A			00697		CNG	-80.5724	39.6148		1121.0000	-1813.0000	2934.0000
4710300705	GAS	8/27/1917		00705	BNJGDSGDN	EPC	-80.5756	39.6258		1310.0000	-1843.0000	3153.0000
4710300722	GAS	9/28/1905		00722	MXBNJ	MANUFACTURERS L& H	-80.5688	39.6208		1480.0000	-890.0000	2370.0000
4710300724	GAS	4/12/1924		00724		MANUFACTURERS L& H	-80.5966	39.6624		1170.0000	-1080.0000	2250.0000
4710300841	GAS-P	9/14/1903		00841	NCR	EPC	-80.5608	39.5983		1020.0000	-99999.0000	101019.0000
4710301182	P&A			01182	NCR	WEST VIRGINIA	-80.5879	39.6267		1075.0000	-99999.0000	101074.0000
4710301683	GAS	8/10/1995		01683	GNZ30FGDN	OHIO L & M	-80.5980	39.6469		1158.0000	-2149.0000	3307.0000
4710301686	GAS	8/10/1995		01686	GDN	OHIO L & M	-80.5911	39.6512		1093.0000	-2017.0000	3110.0000
4710301753	GAS	11/14/1997		01753	BNJ	D A C	-80.5601	39.6128		988.0000	-1362.0000	2350.0000
4710301754	GAS	11/6/1997		01754	BNJBVD	D A C	-80.5560	39.6084		1022.0000	-2366.0000	3388.0000
4710301962	GAS	10/14/2003		01962	KNRGDNBYD	EXCEL ENERGY	-80.5521	39.6026		1325.0000	-2308.0000	3633.0000
4710301974	GAS	9/16/2003		01974	BNJ/GDN	D A C	-80.5821	39.6395		1441.0000	-2212.0000	3653.0000
4710330325	GAS	5/17/1905	LOWER HURON SHALE	30325	LFP5L2BNJ	MANUFACT LIGHT	-80.5786	39.6167		1283.0000	-1735.0000	3018.0000
4710330450	GAS	3/22/1905		30450	SLBNJGDN4SD	CARNEGIE NAT GAS	-80.5794	39.6142		1190.0000	-374.0000	1564.0000
4710330479	GAS	2/21/1906		30479	BNJGDN	MANUFACT LIGHT	-80.5831	39.6169		1358.0000	-1007.0000	2365.0000
4710330725	GAS	11/30/1925	LOWER HURON SHALE	30725		CARNEGIE NAT GAS	-80.5975	39.6639		1282.0000	-2030.0000	3312.0000
47103TEMP8	UNK			TEMP8			-80.5679	39.6142		0.0000	-99999.0000	99999.0000

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# SITE SAFETY AND ENVIRONMENTAL PLAN

Cash Well Pad  
Littleton  
Wetzel County, WV

Prepared By: Donny Prater, CSP, Health and Safety Sciences, LLC  
Approved By: Scott M. Held, Senior Safety Coordinator  
Created Date: 7-Aug-20

- Wells:
- Cash 1H
- Cash 3H
- Cash 5H
- Cash 7H

\_\_\_\_\_  
John Zavatchan  
EQT Production Co.

\_\_\_\_\_  
Bryan Harris  
Oil and Gas Inspector  
West Virginia DEP

*Bryan Harris*  
*4-8-21*

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47-103-03398 SSP  
SIGNED  
*Z*

RECORD OF REVISION AND CHANGES		
Revision #	Date	Change/s
1	1/29/2020	Plan total revision and reformat.
Plan Administrator: Scott M. Held, CSP Senior Safety Coordinator		Approver: Michael Lauderbaugh Vice President of EHS

Topo Quad: Littleton

Scale: 1"=1000'

County: Wetzel

Date: April 22, 2021

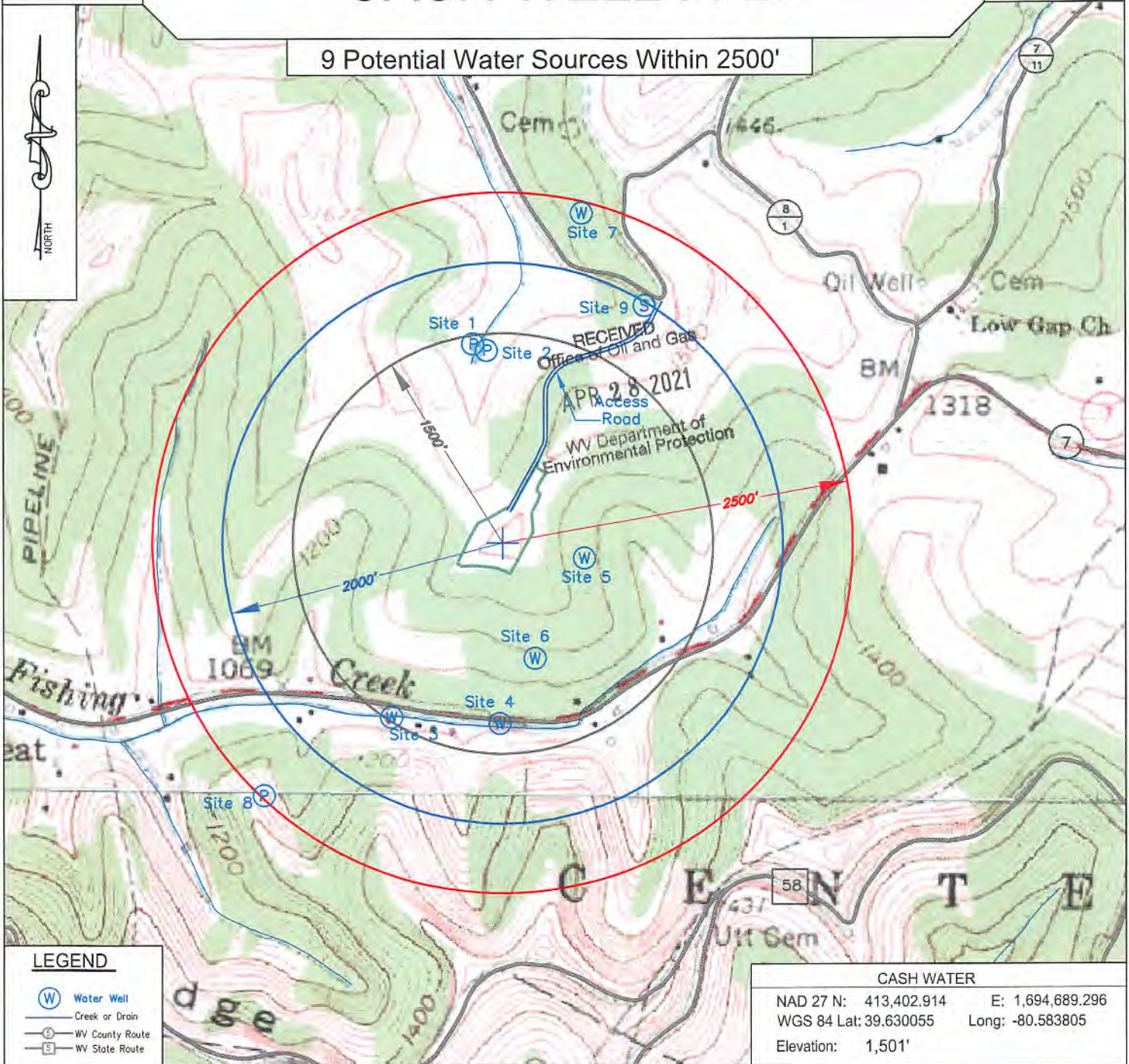
District: Center

Project NO: \_\_\_\_\_

# CASH WELL PAD

Water

9 Potential Water Sources Within 2500'



### LEGEND

- W Water Well
- Creek or Drain
- C WV County Route
- S WV State Route

### CASH WATER

NAD 27 N: 413,402.914      E: 1,694,689.296  
 WGS 84 Lat: 39.630055      Long: -80.583805  
 Elevation: 1,501'



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

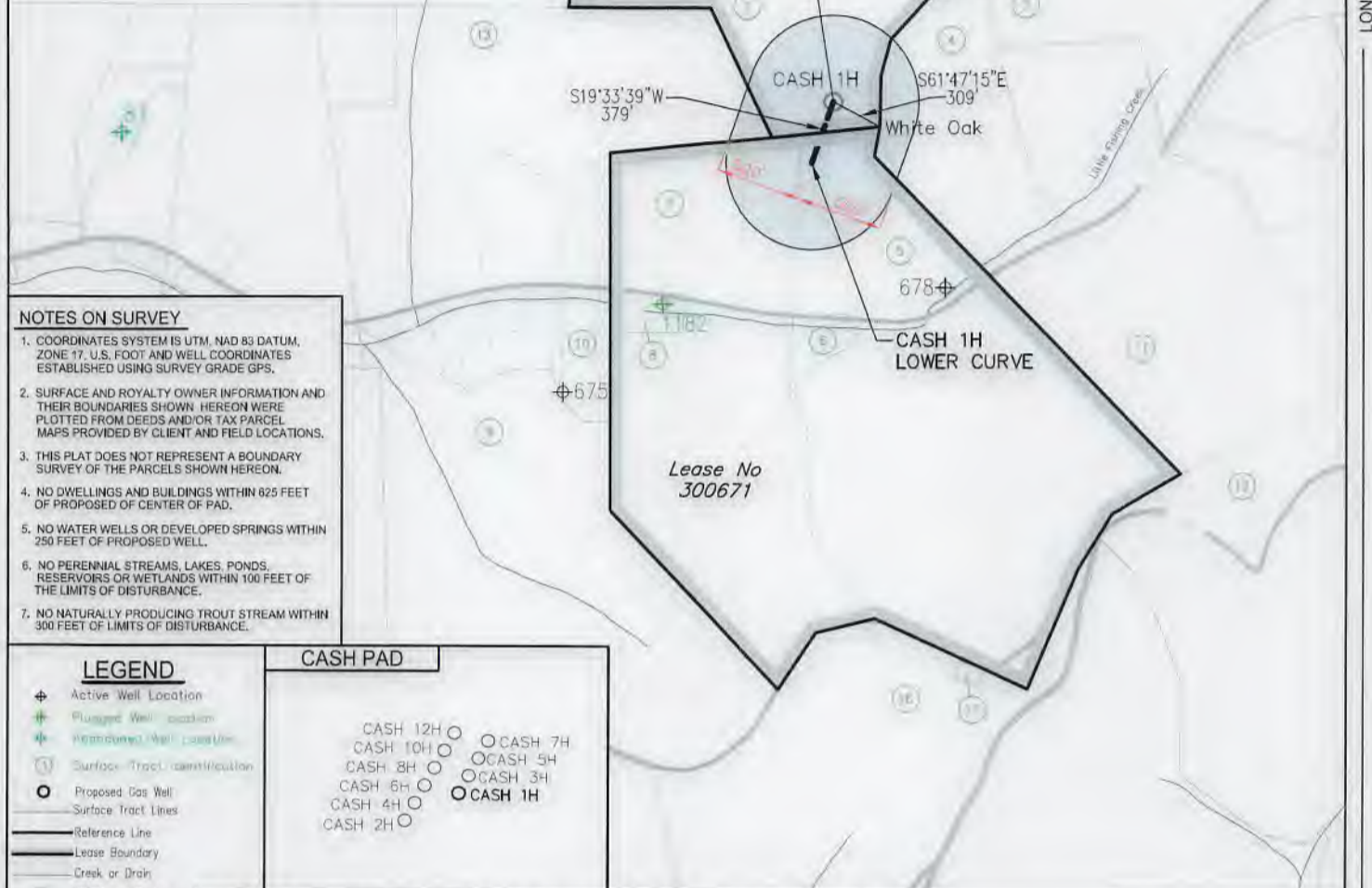
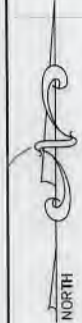
Prepared For:  
 EQT Production Company  
 400 Woodcliff Drive  
 Canonsburg, PA 15317



06/18/2021

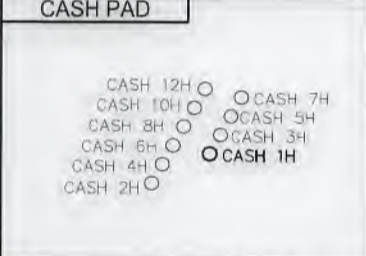


Cash 1H  
Cash  
EQT Production Company



- 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 825 FEET OF PROPOSED 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
  - Plugged Well Location
  - Abandoned Well Location
  - Surface Tract Identification
  - Proposed Gas Well
  - Surface Tract Lines
  - Reference Line
  - Lease Boundary
  - Creek or Drain
  - WV County Route
  - WV State Route



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



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

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



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



DATE: March 29 20 21  
OPERATORS WELL NO: Cash 1H  
API WELL NO: 47 - 103 - 03318  
STATE COUNTY PERMIT

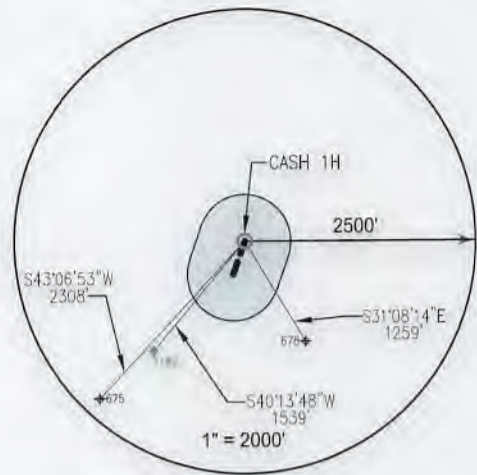
WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION ELEVATION: 1501' WATERSHED: Little Fishing Creek QUADRANGLE: Littleton  
DISTRICT: Center COUNTY: Wetzel  
SURFACE OWNER: John R. & Phyllis R. Bohrer ACREAGE: 52.95 ±  
ROYALTY OWNER: Diana Dawn Van Horn, et al. LEASE NO: 870876 ACREAGE: 369.34 ±  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6,944' TVD

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

06/18/2021

Cash 1H  
Cash  
EQT Production Company

Tract ID.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	15	58.0	Wetzel	Center	John R. & Phyllis R. Bohrer	52.95
2	15	46.0	Wetzel	Center	Robert E., Sr. & Brenda Sue Dorsey	82.00
3	15	47.0	Wetzel	Center	Shuman & Anna Marie Haynes	47.30
4	15	59.1	Wetzel	Center	Michael D. & Amber N. Amos	24.74
5	19	8.0	Wetzel	Center	Charles O. & Sherlene Phillips	89.94
6	19	8.1	Wetzel	Center	Brian & Julie Phillips	2.36
7	19	7.0	Wetzel	Center	Sharon Sue Long & Diana L. Briggs	67.11
8	19	7.1	Wetzel	Center	Larry & Sharon Long	2.63
9	19	6.0	Wetzel	Center	William L. & Lisa D. Wharton	81.38
10	15	57.1	Wetzel	Center	Karen S Morris	4.68
11	15	59.0	Wetzel	Center	Scott T Olsen	73.51
12	3	4.0	Wetzel	Center	Papp Margie J Living Trust	90.29
13	15	56.0	Wetzel	Center	John R. & Phyllis R. Bohrer	42.75
14	15	44.0	Wetzel	Center	John R. & Phyllis R. Bohrer	43.80
15	15	45.0	Wetzel	Center	John R. & Phyllis R. Bohrer	17.00
16	3	2.0	Wetzel	Center	Joseph F & Gay K Blake	194.00
17	3	3.0	Wetzel	Center	Board Of Education	0.34
18	15	31.0	Wetzel	Center	Eleanor M Morris	30.00
19	15	32.0	Wetzel	Center	Ronald L Reed	19.58
20	15	46.1	Wetzel	Center	Robert E Dorsey Sr.	1.00
21	15	19.0	Wetzel	Center	Gary & Linda Kay Wilson	12.04
22	15	18.0	Wetzel	Center	Gary & Linda Kay Wilson	7.05
23	15	30.0	Wetzel	Center	Owen E & Saloma D Schmucker	25.75



Lease	Owner	Acres
300671	Jeanne Anne Lambert, et al.	150.00

**Notes:**  
 Cash 1H Tophole coordinates are  
 NAD 27 N: 413,402,914 E: 1,694,689,297  
 NAD 27 Lat: 39.629973 Long: -80.583995  
 NAD 83 UTM N: 4,386,781.032 E: 535,717.278  
 Cash 1H Lower Curve coordinates are  
 NAD 27 N: 413,045,816 E: 1,694,562,430  
 NAD 27 Lat: 39.628989 Long: -80.584430  
 NAD 83 UTM N: 4,386,671.592 E: 535,680.438  
 West Virginia Coordinates system of 1927 (North Zone)  
 based upon Differential GPS Measurements  
 Plat orientation, Corner and well ties are based upon  
 the grid north meridian  
 Well location references are based upon the grid north  
 meridian.  
 UTM coordinates are NAD83, Zone 17, Meters.



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

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



SEAL

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



DATE: March 29 20 21  
 OPERATORS WELL NO: Cash 1H  
 API WELL NO: ~~H-49~~  
 47 - 103 - 03398  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION ELEVATION: 1501' WATERSHED: Little Fishing Creek QUADRANGLE: Littleton  
 DISTRICT: Center COUNTY: Wetzel  
 SURFACE OWNER: John R. & Phyllis R. Bohrer ACREAGE: 52.95 ±  
 ROYALTY OWNER: Diana Dawn Van Horn, et al. LEASE NO: 870876 ACREAGE: 369.34 ±  
 PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6,944' TVD  
 WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow  
 ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280  
 Canonsburg, PA 15317 Bridgeport, WV 26330

06/18/2021

**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
870876	See Attached			

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

APR 28 2021

WV Department of  
Environmental Protection

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

Operator's Well No.

Cash 1H

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<b>870876</b>	<b><u>Diana Dawn Van Horn, et al.</u></b> Diana Dawn Van Horn, a married woman dealing in her sole and separate property Statoil USA Onshore Properties Inc.	369.34 ac Statoil USA Onshore Properties Inc. EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 141A/326 OG 175A/707
<b>300671</b>	<b><u>Jeanne Anne Lambert, et al.</u></b> Daniel Lambert and M. J. Lambert, his wife South Penn Oil Company Tri-State Gas Company 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. Eastern States, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company	150 ac South Penn Oil Company Tri-State Gas Company 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. Eastern States, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 53/380 DB 59/425 DB 73/310 DB 96/296 DB 233/387 DB 311/184 Corp. Book 13/151 OG 76A/232 Corp. Book 12/253 Corp. Book 12/259 WV SOS WV SOS WV SOS Corp. Book 13/14

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April 22, 2021

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

Re: Cash 1H Gas Well  
Center District, Wetzel County, WV

Dear Mr. Brewer,

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

Sincerely,



John Zavatchan  
Project Specialist - Permitting

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06/18/2021

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

Date of Notice Certification: 4/24/2021

API No. 47- 103 - 03398  
Operator's Well No. 1H  
Well Pad Name: Cash

**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>535717.278</u>
County:	<u>Wetzel</u>		Northing:	<u>4386781.032</u>
District:	<u>Center</u>	Public Road Access:	<u>CR-8</u>	
Quadrangle:	<u>Littleton</u>	Generally used farm name:	<u>Cash</u>	
Watershed:	<u>Little Fishing 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.

<p>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:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><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</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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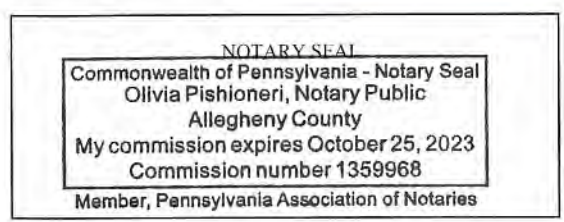
**Required Attachments:**

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.

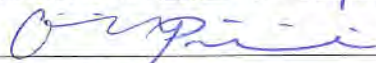
**Certification of Notice is hereby given:**

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 20<sup>th</sup> day of April, 2021.

 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](mailto:depprivacyofficer@wv.gov).

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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: 4/26/21 Date Permit Application Filed: 4/26/21

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

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**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

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

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

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**Well Location Restrictions**

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

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

**Water Well Testing:**

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

**Water Testing Laboratories:**

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

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

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

**Written Comment:**

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

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

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.

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WW-6A  
(8-13)

API NO. 47- 103 - 03398  
OPERATOR WELL NO. 1H  
Well Pad Name: Cash

**Notice is hereby given by:**

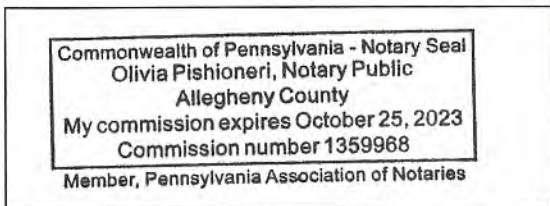
Well Operator: EQT Production Company  
Telephone: 724-746-9073  
Email: jzavatchan@eqt.com



Address: 400 Woodcliff Drive  
Canonsburg, PA 15317  
Facsimile: 412-395-2974

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at [deprivacyofficer@wv.gov](mailto:deprivacyofficer@wv.gov).



Subscribed and sworn before me this 26 day of April, 2021.

Olivia Pishioneri Notary Public

My Commission Expires October 25, 2023

Topo Quad: Littleton

Scale: 1"=1000'

County: Wetzel

Date: April 22, 2021

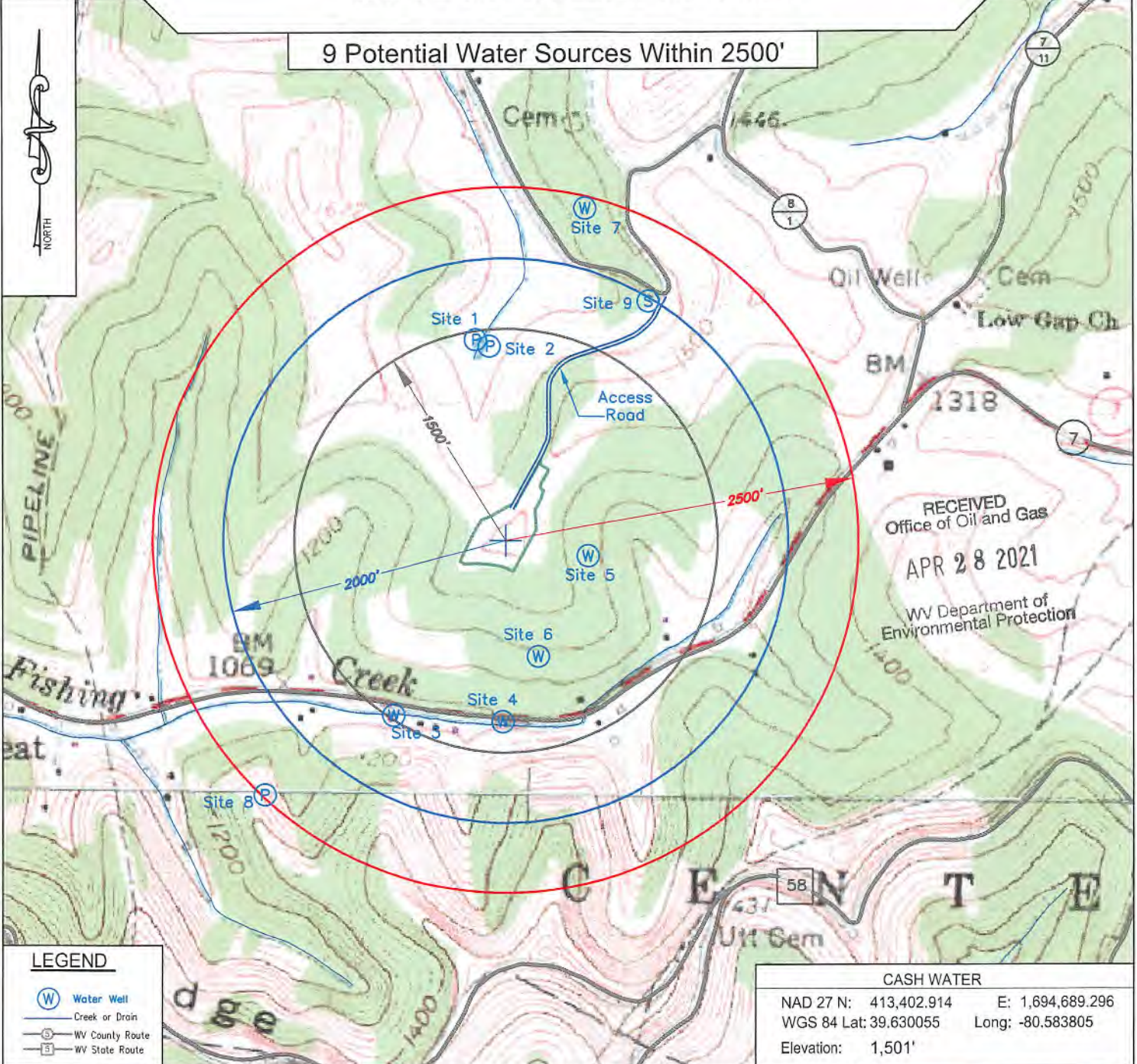
District: Center

Project NO: \_\_\_\_\_

# CASH WELL PAD

Water

9 Potential Water Sources Within 2500'



### LEGEND

- W Water Well
- Creek or Drain
- S WV County Route
- 5 WV State Route

### CASH WATER

NAD 27 N: 413,402.914      E: 1,694,689.296  
 WGS 84 Lat: 39.630055      Long: -80.583805  
 Elevation: 1,501'

**KEYSTONE**  
CONSULTANTS, LLC

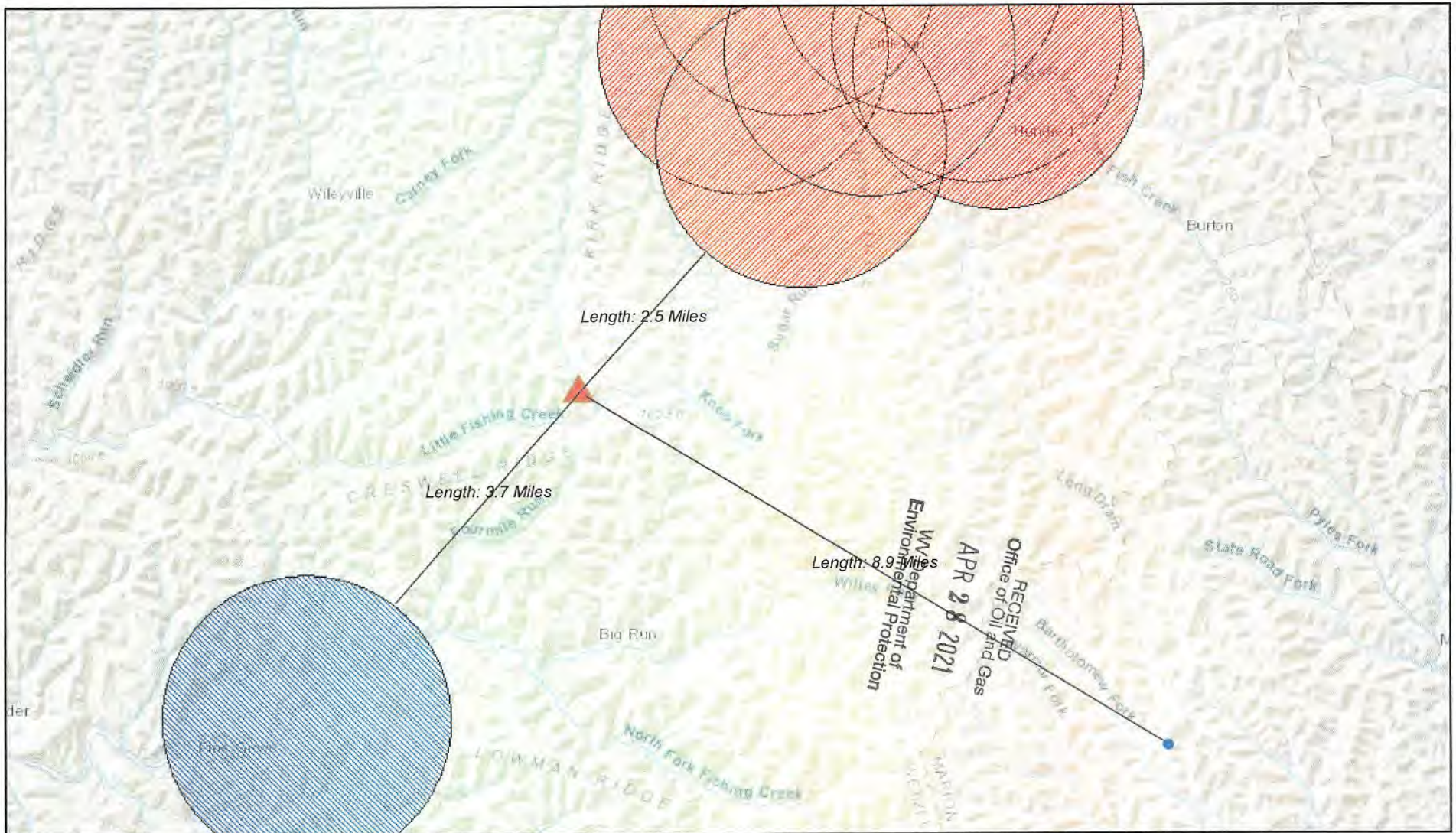
Keystone Consultants, LLC  
 32 East Main Street  
 Carnegie, PA 15106  
 412 278-2100

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






**EQT**  
 EQT PRODUCTION COMPANY  
 400 WOODCLIFF DRIVE  
 CANONSBURG, PA 15317

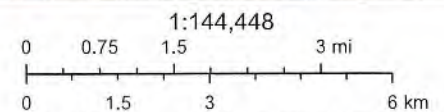
06/18/2021

# Cash Water Resources



9/9/2020, 10:40:28 AM

-  Surface Water Intake (public water supply)
-  Groundwater Intake (public water supply)
-  Groundwater Intake (non-public water supply)
-  Surface Water Intake (non-public water supply)
-  Documented Springs



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

Cash Well Site – WW-6A Attachment

Surface Owners (All Disturbance):

- Robert E. Dorsey, Sr. and Brenda S. Dorsey ✓

2052 Miller Run Rd.

Littleton, WV 26581

01-15-46 / 01-15-46.1

- Michael D. and Amber N. Amos ✓

21299 Mountaineer HWY.

Littleton, WV 26581

01-15-59.1

- Charles O. and Sherlene Phillips ✓

21228 Mountaineer HWY.

Wileyville, WV 26581

01-19-8

- John R. and Phyllis R. Bohrer ✓

121 Barnhart St.

Weirton, WV 26062

01-15-58

- Sharon Sue Long and Diana Briggs ✓

19324 Mountaineer HWY.

Wileyville, WV 26581

01-19-7

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06/18/2021

**Coal Owners:**

- New Gauley Coal Corporation ✓  
5260 Irwin Rd.  
Huntington, WV 26062
- Consol RCPC LLC ✓  
1000 Consol Energy Dr.  
Canonsburg, PA 15317

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

- Robert E., Sr. & Brenda Sue Dorsey ✓  
9794 Low Gap Run Rd.  
Littleton, WV 26581
- Sharon Sue Long & Diana L. Briggs ✓  
19324 Mountaineer Hwy.  
Wileyville, WV 26581
- Brian & Julie Phillips ✓  
21082 Mountaineer Hwy.  
Wileyville, WV 26581

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### Table 1 - Water Source Identification

EQT Well Pad Name:	Cash (1H)	Submittal Date:	1/15/2021
EQT Well Number:			
Survey/Engineering Company:	Keystone Consultants, LLC.		

Site Number:	1			<input checked="" type="checkbox"/> Landowner Requested Sampling
Distance from Gas Well (Ft):	1437±			<input type="checkbox"/> Landowner Decline Sampling
Surface Owner/ Occupant:	Robert E., Sr. & Brenda Sue Dorsey			<input type="checkbox"/> Unable to Contact <small>(Further Contact attempts to be made by EQT's 3rd party pre-drill sampling lab)</small>
Address:	9794 Low Gap Run RD Littleton, WV 26581			
Phone #:	304-775-2896			
Field Located Date:	11/2/2020			
Owner Home during Survey (Y/N)	Y			
Coordinates: (decimal degrees NAD83)	39.633949, -80.584621			
Contact Attempts (Date):	1st: 8/24/2020	2nd: 10/28/2020	Door Hanger Left:	
Comments:	POND - Certified mail sent 7/17/2020. Field visit 11/2/2020.			

Site Number:	2			<input checked="" type="checkbox"/> Landowner Requested Sampling
Distance from Gas Well (Ft):	1380±			<input type="checkbox"/> Landowner Decline Sampling
Surface Owner/ Occupant:	Robert E., Sr. & Brenda Sue Dorsey			<input type="checkbox"/> Unable to Contact <small>(Further Contact attempts to be made by EQT's 3rd party pre-drill sampling lab)</small>
Address:	9794 Low Gap Run RD Littleton, WV 26581			
Phone #:	304-775-2896			
Field Located Date:	11/2/2020			
Owner Home during Survey (Y/N)	Y			
Coordinates: (decimal degrees NAD83)	39.633826, -80.584272			
Contact Attempts (Date):	1st: 8/24/2020	2nd: 10/28/2020	Door Hanger Left:	
Comments:	POND - Certified mail sent 7/17/2020. Field visit 11/2/2020.			

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Site Number:	3			<input checked="" type="checkbox"/> Landowner Requested Sampling
Distance from Gas Well (Ft):	1471±			<input type="checkbox"/> Landowner Decline Sampling
Surface Owner/ Occupant:	Sharon Sue Long & Diana L. Briggs			<input type="checkbox"/> Unable to Contact <small>(Further Contact attempts to be made by EQT's 3rd party pre-drill sampling lab)</small>
Address:	19324 Mountaineer HWY Wileysville, WV 26581			
Phone #:	304-889-2496, 304-887-2546			
Field Located Date:	11/2/2020			
Owner Home during Survey (Y/N)				
Coordinates: (decimal degrees NAD83)	39.626631, -80.586574			
Contact Attempts (Date):	1st: 8/24/2020	2nd: 10/28/2020	Door Hanger Left:	
Comments:	WATER WELL - Certified mail sent 7/17/2020. Field visit 11/2/2020. Water source found on parcel 1-19-7			

Site Number:	4			<input checked="" type="checkbox"/> Landowner Requested Sampling <input type="checkbox"/> Landowner Decline Sampling <input type="checkbox"/> Unable to Contact <small>(Further Contact attempts to be made by EQT's 3rd party pre-drill sampling lab)</small>
Distance from Gas Well (Ft):	1283±			
Surface Owner/ Occupant:	Brian & Julie Phillips			
Address:	21082 Mountaineer HWY Wileyville, WV 26581			
Phone #:	304-889-2813			
Field Located Date:	8/27/2020			
Owner Home during Survey (Y/N)	Y			
Coordinates: (decimal degrees NAD83)	39.626532, -80.583827			
Contact Attempts (Date):	1st: 8/24/2020	2nd:	Door Hanger Left:	
Comments:	WATER WELL - Certified mail sent 7/17/2020. Field visit 8/27/2020.			

Site Number:	5			<input checked="" type="checkbox"/> Landowner Requested Sampling <input type="checkbox"/> Landowner Decline Sampling <input type="checkbox"/> Unable to Contact <small>(Further Contact attempts to be made by EQT's 3rd party pre-drill sampling lab)</small>
Distance from Gas Well (Ft):				
Surface Owner/ Occupant:	Michael D. & Amber N. Amos			
Address:	21299 Mountaineer HWY Littleton, WV 26581			
Phone #:				
Field Located Date:				
Owner Home during Survey (Y/N)				
Coordinates: (decimal degrees NAD83)				
Contact Attempts (Date):	1st: 8/25/2020	2nd: 1/8/2021	Door Hanger Left:	
Comments:	WATER WELL - Certified mail sent 7/17/2020. Did Not Field Locate			

Site Number:	6			<input checked="" type="checkbox"/> Landowner Requested Sampling <input type="checkbox"/> Landowner Decline Sampling <input type="checkbox"/> Unable to Contact <small>(Further Contact attempts to be made by EQT's 3rd party pre-drill sampling lab)</small>
Distance from Gas Well (Ft):				
Surface Owner/ Occupant:	Charles O. & Sherlene Phillips			
Address:	21228 Mountaineer HWY Wileyville, WV 26581			
Phone #:	304-889-2688			
Field Located Date:				
Owner Home during Survey (Y/N)				
Coordinates: (decimal degrees NAD83)				
Contact Attempts (Date):	1st: 8/24/2020	2nd: 1/8/2021	Door Hanger Left:	
Comments:	WATER WELL - Certified mail sent 7/17/2020. Did Not Field Locate			

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Site Number:	7			<input checked="" type="checkbox"/> Landowner Requested Sampling <input type="checkbox"/> Landowner Decline Sampling <input type="checkbox"/> Unable to Contact <small>(Further Contact attempts to be made by EQT's 3rd party pre-drill sampling lab)</small>
Distance from Gas Well (Ft):				
Surface Owner/ Occupant:	Ronald L. Reed			
Address:	Low Gap Run Rd Littleton, WV 26581			
Phone #:	330-895-4135			
Field Located Date:				
Owner Home during Survey (Y/N)				
Coordinates: (decimal degrees NAD83)				
Contact Attempts (Date):	1st: 8/24/2020	2nd: 1/8/2021	Door Hanger Left:	
Comments:	WATER WELL - Certified mail sent 7/17/2020. Did Not Field Locate			

Site Number:	8			<input checked="" type="checkbox"/> Landowner Requested Sampling <input type="checkbox"/> Landowner Decline Sampling <input type="checkbox"/> Unable to Contact <small>(Further Contact attempts to be made by EQT's 3rd party pre-drill sampling lab)</small>
Distance from Gas Well (Ft):				
Surface Owner/ Occupant:	William L. & Lisa D. Wharton			
Address:	20574 Mountaineer HWY Littleton, WV 26581			
Phone #:	304-889-2888			
Field Located Date:				
Owner Home during Survey (Y/N)				
Coordinates: (decimal degrees NAD83)				
Contact Attempts (Date):	1st: 8/24/2020	2nd: 1/8/2021	Door Hanger Left:	
Comments:	1 Water Well & 1 POND - Certified mail sent 7/17/2020. Did Not Field Locate			

Site Number:	9			<input checked="" type="checkbox"/> Landowner Requested Sampling <input type="checkbox"/> Landowner Decline Sampling <input type="checkbox"/> Unable to Contact <small>(Further Contact attempts to be made by EQT's 3rd party pre-drill sampling lab)</small>
Distance from Gas Well (Ft):				
Surface Owner/ Occupant:	Robert E. Dorsey, Sr.			
Address:	9794 Low Gap Run RD Littleton, WV 26581			
Phone #:	304-775-2896			
Field Located Date:				
Owner Home during Survey (Y/N)				
Coordinates: (decimal degrees NAD83)				
Contact Attempts (Date):	1st: 8/24/2020	2nd: 10/28/2020	Door Hanger Left:	
Comments:	SPRING - Certified mail sent 7/17/2020. Did Not Field Locate.			

Site Number:				<input checked="" type="checkbox"/> Landowner Requested Sampling <input type="checkbox"/> Landowner Decline Sampling <input type="checkbox"/> Unable to Contact <small>(Further Contact attempts to be made by EQT's 3rd party pre-drill sampling lab)</small>
Distance from Gas Well (Ft):	±			
Surface Owner/ Occupant:				
Address:				
Phone #:				
Field Located Date:				
Owner Home during Survey (Y/N)				
Coordinates: (decimal degrees NAD83)				
Contact Attempts (Date):	1st:	2nd:	Door Hanger Left:	
Comments:				

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Site Number:				<input checked="" type="checkbox"/> Landowner Requested Sampling <input type="checkbox"/> Landowner Decline Sampling <input type="checkbox"/> Unable to Contact <small>(Further Contact attempts to be made by EQT's 3rd party pre-drill sampling lab)</small>
Distance from Gas Well (Ft):	±			
Surface Owner/ Occupant:				
Address:				
Phone #:				
Field Located Date:				
Owner Home during Survey (Y/N)				
Coordinates: (decimal degrees NAD83)				
Contact Attempts (Date):	1st:	2nd:	Door Hanger Left:	
Comments:				

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Cash

Surface Owners:

- Robert E. Dorsey, Sr. and Brenda S. Dorsey  
2052 Miller Run Rd.  
Littleton, WV 26581  
01-15-46 / 01-15-46.1 ✓
- Michael D. and Amber N. Amos ✓  
21299 Mountaineer HWY.  
Littleton, WV 26581  
01-15-59.1
- Charles O. and Sherlene Phillips ✓  
21228 Mountaineer HWY.  
Wileyville, WV 26581  
01-19-8
- John R. and Phyllis R. Bohrer ✓  
121 Barnhart St.  
Weirton, WV 26062  
01-15-58
- Sharon Sue Long and Diana Briggs ✓  
19324 Mountaineer HWY.  
Wileyville, WV 26581  
01-19-7

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways**

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

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

February 17, 2021

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

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

Subject: DOH Permit for the Cash Pad, Wetzel County  
Cash 1H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2020-0262 which has been issued to EQT Production Company for access to the State Road for a well site located off Wetzel County Route 8 MP 0.83 SLS.

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

Very Truly Yours,

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

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Cc: John Zavatchan  
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

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# EROSION & SEDIMENT CONTROL PLAN

## CASH WELL SITE

### WETZEL COUNTY, WEST VIRGINIA

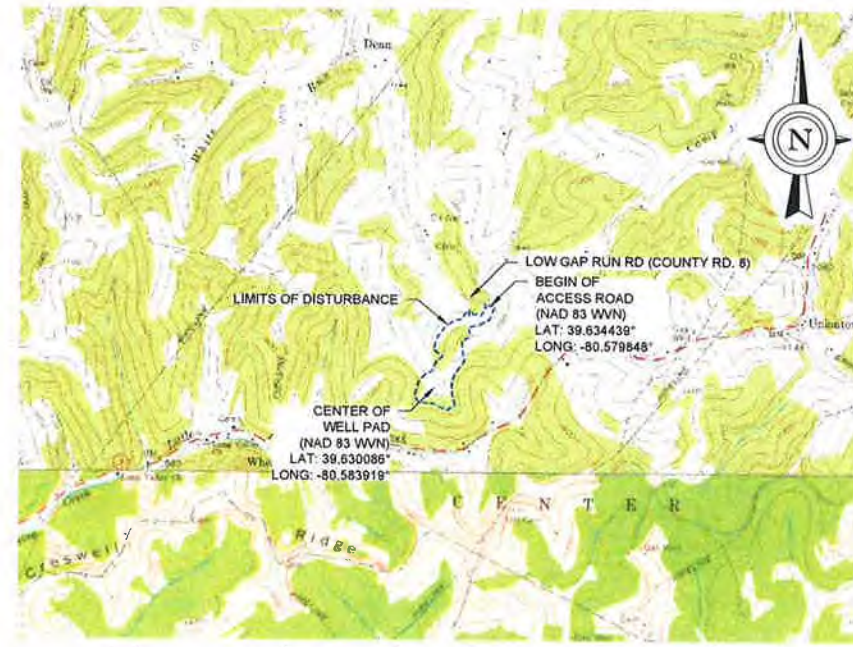
#### FOR

# EQT PRODUCTION COMPANY

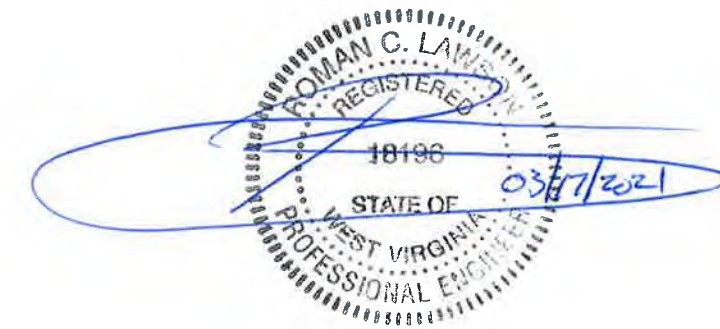
**APPROVED**  
**WVDEP OOG**  
*[Signature]* 6/15/2021

CASH WELL LOCATIONS						
WELL DESIGNATION	LAT(NAD83)	LO(NAD83)	NORTHING(NAD83)	EASTING(NAD83)	NORTHING(NAD27)	EASTING(NAD27)
12H / L-007060	39 37 48.64292	80 35 01.74851	413485.1312	1663247.769	413447.862	1694685.999
10H / L-003883	39 37 48.51279	80 35 01.84039	413472.0534	1663240.422	413434.784	1694678.653
8H / L-003882	39 37 48.38267	80 35 01.93227	413458.9756	1663233.076	413421.707	1694671.307
6H / L-003886	39 37 48.25255	80 35 02.02415	413445.8978	1663225.729	413408.629	1694663.961
4H / L-003887	39 37 48.12243	80 35 02.11603	413432.82	1663218.382	413395.552	1694656.615
2H / L-003888	39 37 47.99231	80 35 02.20791	413419.7422	1663211.036	413382.474	1694649.269
7H / L-003504	39 37 48.58882	80 35 01.42232	413479.35	1663273.221	413442.08	1694711.451
5H / L-002951	39 37 48.45891	80 35 01.51470	413466.2942	1663265.836	413429.025	1694704.066
3H / L-007912	39 37 48.32900	80 35 01.60707	413453.2383	1663258.451	413415.969	1694696.682
1H / L-007911	39 37 48.19909	80 35 01.69945	413440.1825	1663251.065	413402.914	1694689.297

LANDOWNER DISTURBANCE BREAKDOWN				
LADOWNER	DISTURBANCE FROM ACCESS ROAD (ACRES)	DISTURBANCE FROM WELL PAD (ACRES)	DISTURBANCE FROM STOCKPILE (ACRES)	TOTAL
DORSEY, ROBERT E. SR 52-01-15-0046-0001-0000	0.25	0.00	0.00	0.25
DORSEY, ROBERT E. SR & BRENDA S. 52-01-15-0046-0000-0000	8.51	0.00	1.23	9.74
BOHRER, JOHN R & PHYLLIS R. 52-01-15-0058-0000-0000	3.34	7.12	2.49	12.95
BOHRER, JOHN R & PHYLLIS R. 52-01-15-0044-0000-0000	0	0.54	0	0.54
AMOS, MICHAEL D. & AMBER N. 52-01-015-0058-0001-0000	0.00	0.43	1.42	1.85
LONG, SHARON SUE & BRIGGS, DIANA 52-01-19-0007-0000-0000	0.00	0.42	0.00	0.42
PHILLIPS, CHARLES O. & SHERLENE 52-01-19-0008-0000-0000	0.00	0.92	1.24	2.16
<b>TOTAL</b>	<b>12.10</b>	<b>9.43</b>	<b>6.38</b>	<b>27.91</b>



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



INDEX	
DRAWING NO.	TITLE
1	TITLE SHEET
2	GENERAL NOTES
3	OVERALL EXISTING SITE PLAN
4	OVERALL E&S SITE PLAN
5-6	PROPOSED E&S SITE PLAN
7	OVERALL E&S REVEGETATION SITE PLAN
8	OVERALL SITE RESTORATION PLAN
9	SOILS PLAN
10	ACCESS ROAD PROFILES
11-15	ACCESS ROAD SECTIONS
16-18	E&S TYPICAL SECTIONS
19-20	E&S DETAILS

PROJECT NO. 20070-003  
MARCH 2021

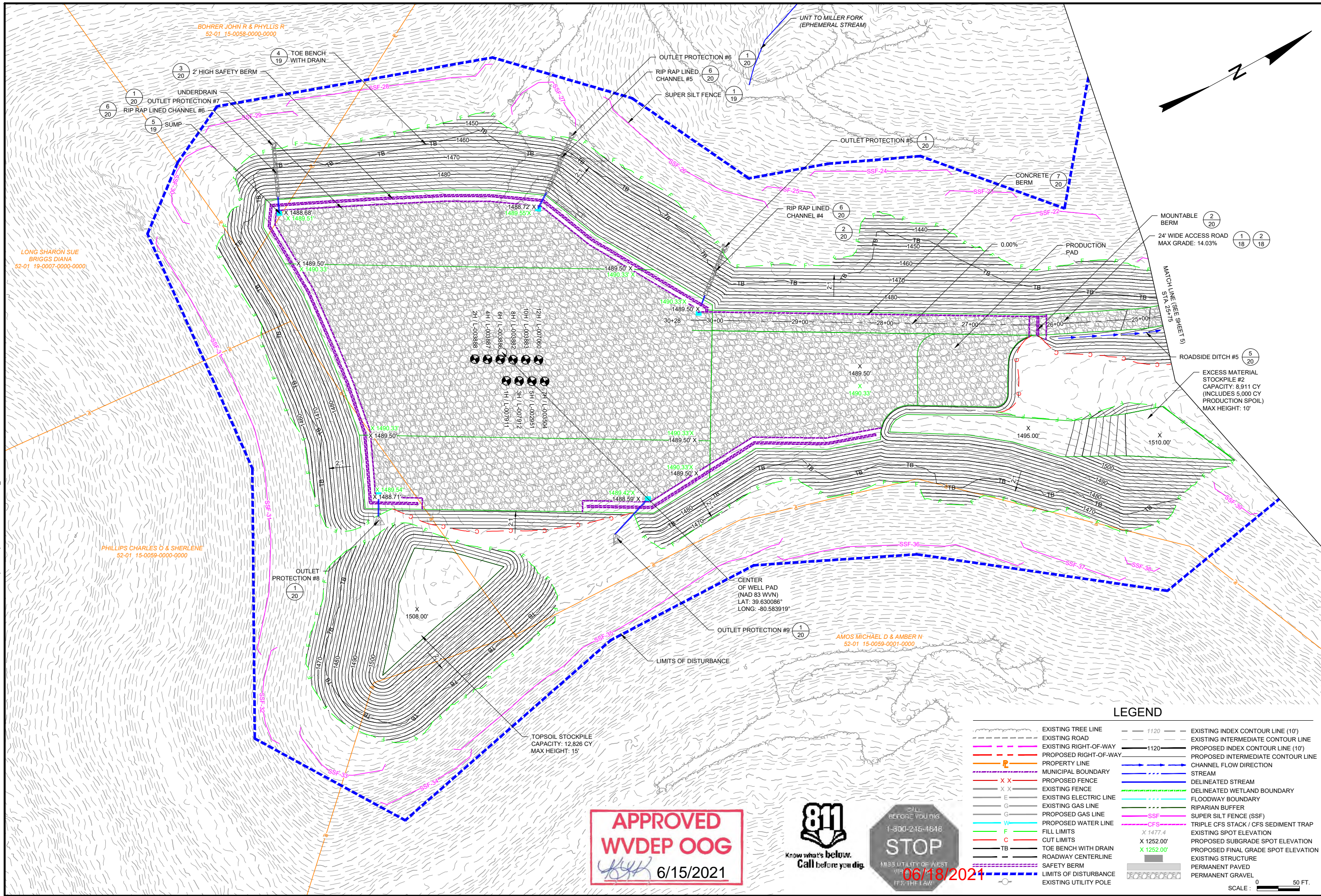
**DIEFFENBAUCH & HRITZ, LLC**

06/18/2021



REVISION  
DATE  
NO.  
SBS DRAWN  
BLB CHECKED  
RCL APPROVED  
MAR 2021 DATE  
20070-03 PROJECT NO  
DIEFFENBAUCH & HRITZ, LLC  
1095 Charlin Road, Suite 200  
Morgantown, WV 26501  
www.dieffendbauch.com  
P. 304.985.5555 F. 304.985.5557  
CLIENT: EQT PRODUCTION COMPANY  
PROJECT: CASH WELL SITE WETZEL COUNTY, WV  
TITLE: TITLE SHEET  
DRAWING NO.: 1

SCALE: 100 PLOTTED: 3/17/2021 11:30 AM FILE: X:\OIL AND GAS\EQT2018\18070-052 - LIT 69 WELL SITE\CADD (K DRIVE) - W\PLANS\ES\SD06 - PROPOSED SITE PLAN.DWG



LONG SHARON SUE  
BRIGGS DIANA  
52-01 19-0007-0000-0000

BOHRER JOHN R & PHYLLIS R  
52-01 15-0058-0000-0000

PHILLIPS CHARLES O & SHERLENE  
52-01 15-0059-0000-0000

AMOS MICHAEL D & AMBER N  
52-01 15-0059-0001-0000

- 12H / L-007060
- 10H / L-003883
- 8H / L-003882
- 6H / L-003886
- 4H / L-003887
- 2H / L-003888
- 2H / L-003894
- 5H / L-002951
- 3H / L-007912
- 6H / L-003886
- 4H / L-003887
- 2H / L-003888

**APPROVED**  
**WVDEP OOG**  
6/15/2021



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

SCALE: 0 50 FT.

NO.	DATE	REVISION

SBS DRAWN  
BLB CHECKED  
RCL APPROVED  
MAR 2021 DATE  
20070-003 PROJECT NO.

CLIENT: EQT PRODUCTION COMPANY  
PROJECT: CASH WELL SITE WETZEL COUNTY, WV

TITLE: PROPOSED E&S SITE PLAN

DRAWING NO: 6

DIFFENBAUGH & HRITZ, LLC  
105 Chapman Road, Suite 200  
Morgantown, WV 26501  
www.dandhengineers.com  
P: 304.985.5555 F: 304.985.5557