



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Monday, August 3, 2020
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for PRINE 7H
47-103-03357-00-00

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

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

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

A handwritten signature in blue ink, appearing to read "James A. Martin".

James A. Martin
Chief

Operator's Well Number: PRINE 7H
Farm Name: HOWARD M HENDERSON
U.S. WELL NUMBER: 47-103-03357-00-00
Horizontal 6A New Drill
Date Issued: 8/3/2020

Promoting a healthy environment.

PERMIT CONDITIONS

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

CONDITIONS

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

PERMIT CONDITIONS

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

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

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

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

3) Farm Name/Surface Owner: Howard M. Henderson Public Road Access: CR 8/7

4) Elevation, current ground: 1,335' (built) Elevation, proposed post-construction: 1,335'

5) Well Type (a) Gas Oil Underground Storage

Other _____

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No Yes *DMAH 6/22/20*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 7,500', 48', 2,620 psi

8) Proposed Total Vertical Depth: 7,500'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 8,875'

11) Proposed Horizontal Leg Length: 0'

12) Approximate Fresh Water Strata Depths: 143'

13) Method to Determine Fresh Water Depths: Offset Wells - 47-103-02572, 47-103-02349, 47-103-02190, 47-103-02189, 47-103-02244

14) Approximate Saltwater Depths: 1,976', 2,110'

15) Approximate Coal Seam Depths: 842'-845', 1,071'-1,075', 1,180'-1,185'

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 ³ / CTS
Fresh Water	13 3/8	New	J-55	54.5	1235	1235	1073 ft ³ / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2879	2879	465 ft ³ / CTS
Production	5 1/2	New	P-110	20	8875	8875	500' above intermediate casing
Tubing							
Liners							

DWH 6/22/20

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	0.395	3950	3160	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							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

Drill a new well in the Marcellus Formation. Drill the vertical, kick-off and drill curve. Drill to the Marcellus. Cement casing. This wellbore will be drilled to accommodate future horizontal development.

DMA 6/22/20

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

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.1%) of chemicals (including 15% Hydrochloric acid, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10,000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000-600,000 pounds of proppant per stage.
Note: The well will not be completed until future horizontal drilling is complete.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 4.89 acres (partially built)

22) Area to be disturbed for well pad only, less access road (acres): 1.79 acres (1.29 acres existing)

23) Describe centralizer placement for each casing string:

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

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

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

25) Proposed borehole conditioning procedures:

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

*Note: Attach additional sheets as needed.

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WEST VIRGINIA GEOLOGICAL PROGNOSIS

Horizontal Well
Prine 3H

v 2017.4
Enertia # 0

Drilling Objectives: Marcellus
County: Wetzel
Quad: Littleton
Elevation: 1345 KB 1332 GL
Surface location Northing: 0.00 Easting: 0.00
Landing Point Northing: 0.00 Easting: 0.00
Toe location Northing: 0.00 Easting: 0.00
Recommended Azimuth 315 Degrees

TVD: 7500
Recommended LP to TD: 0,000'

Well	LP TVD	LP SS	Azimuth
Prine 3H	7500	6155	315
Prine 5H	7500	6155	315
Prine 7H	7500	6155	315
Prine 9H	7500	6155	315
Prine 11H	7500	6155	315
Prine 13H	7500	6155	315

ESTIMATED FORMATION TOPS

Formation	Top (TVD)	Base (TVD)	Lithology	Comments
Fresh Water Zone	1	143		FW @ 143,
Waynesburg	842	845	Coal	
Sewickley	1071	1075	Coal	
Pittsburgh	1180	1185	Coal	
Big Lime	2451	2562	Limestone	SW @ 1976,2110, .
Big Injun	2562	2829	Sandstone	Offset Production
Int. csg pt	2879			
Weir	2774		Sandstone	Outside of Storage
Gordon	3229		Silty Sand	Offset Production
Bayard	3446		Silty Sand	
Alexander	5885		Silty Sand	
Elks	6328	7067	Gray Shales and Silts	
Sonyea	7067	7214	Gray shale	
Middlesex	7214	7251	Shale	
Genesee	7251	7325	Gray shale interbedded	
Genesee	7325	7353	Black Shale	
Tully	7353	7376	Limestone	
Hamilton	7376	7477	Gray shale with some	
Marcellus	7477	7525	Black Shale	
Purcell	7497	7500	Limestone	
-Lateral Zone	7500			
Cherry Valley	7510	7513	Limestone	
Onondaga	7525		Limestone	

Top RR Base RR
No Red Rock listed in offsets
Reviewed wells within 5000'

Offset well produces from the Marcellus

Target Thickness	48 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.
 The estimated landing point TVD is 7499.5', rig geologist may adjust landing point. After the well is landed, drill to reported bed dips/ geologists' recommendation. The geologic structure is unknown at this time.

LATERAL DRILLING TOLERANCES

Mapview - Lateral: Deviate as little as possible to the left or right of the planned wellbore.
Mapview - TD: DO NOT EXTEND beyond recommended wellbore to avoid lease line.

RECOMMENDED CASING POINTS

Fresh Water/Coal	CSG OD	13 3/8	CSG DEPTH:	1235	Beneath the Pittsburgh
Intermediate 1:	CSG OD	9 5/8	CSG DEPTH:	2879	Beneath the Big Injun formation
Production:	CSG OD	5 1/2	CSG DEPTH:	@ TD	



4710303357

June 12, 2020

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

Re: Casing on Prine 7H

Dear Mr. Brewer,

The 13-3/8" surface casing will be set at 1,235' KB, 50' below the deepest workable coal seam and 1,092' below the deepest fresh water. The 9-5/8" intermediate string will be set at 2,879' KB, 50' below the base of the Big Injun formation.

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

Sincerely,

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

John Zavatchan
Landman - Permitting

Enc.

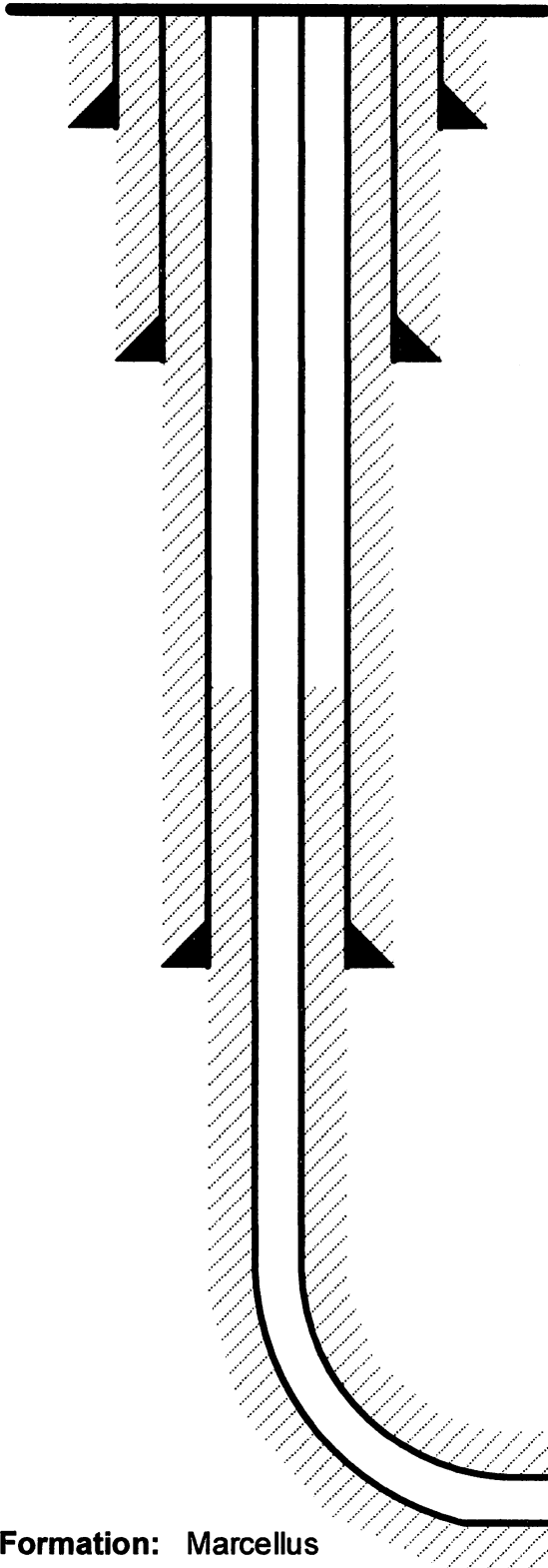
EQT Production

Wellbore Diagram

Well: Prine 7H
Pad: Prine
Elevation: 1332' GL 1345' KB

County: Wetzel
State: West Virginia

4710303357



Conductor @ 40'
26", 85.6#, A-500, cement to surface w/ Class A

Surface @ 1,235'
13-3/8", 54.5#, J-55, cement to surface w/ Class A/Type I

Intermediate @ 2,879'
9-5/8", 40#, A-500, cement to surface w/ Class A/Type I

DMH 6/22/20

Production @ 8,875' MD / 7,495' TVD
5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H

Formation: Marcellus

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EQT Production
Hydraulic Fracturing Monitoring Plan
Pad ID: Prine (LIT53)
County: Wetzel

March 26, 2020

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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 Prine (LIT53) pad: 3H, 5H, 7H, 9H, 11H, and 13H.

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:

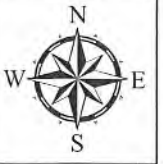
1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
3. Inspect or install master valves or other necessary equipment for wellhead 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

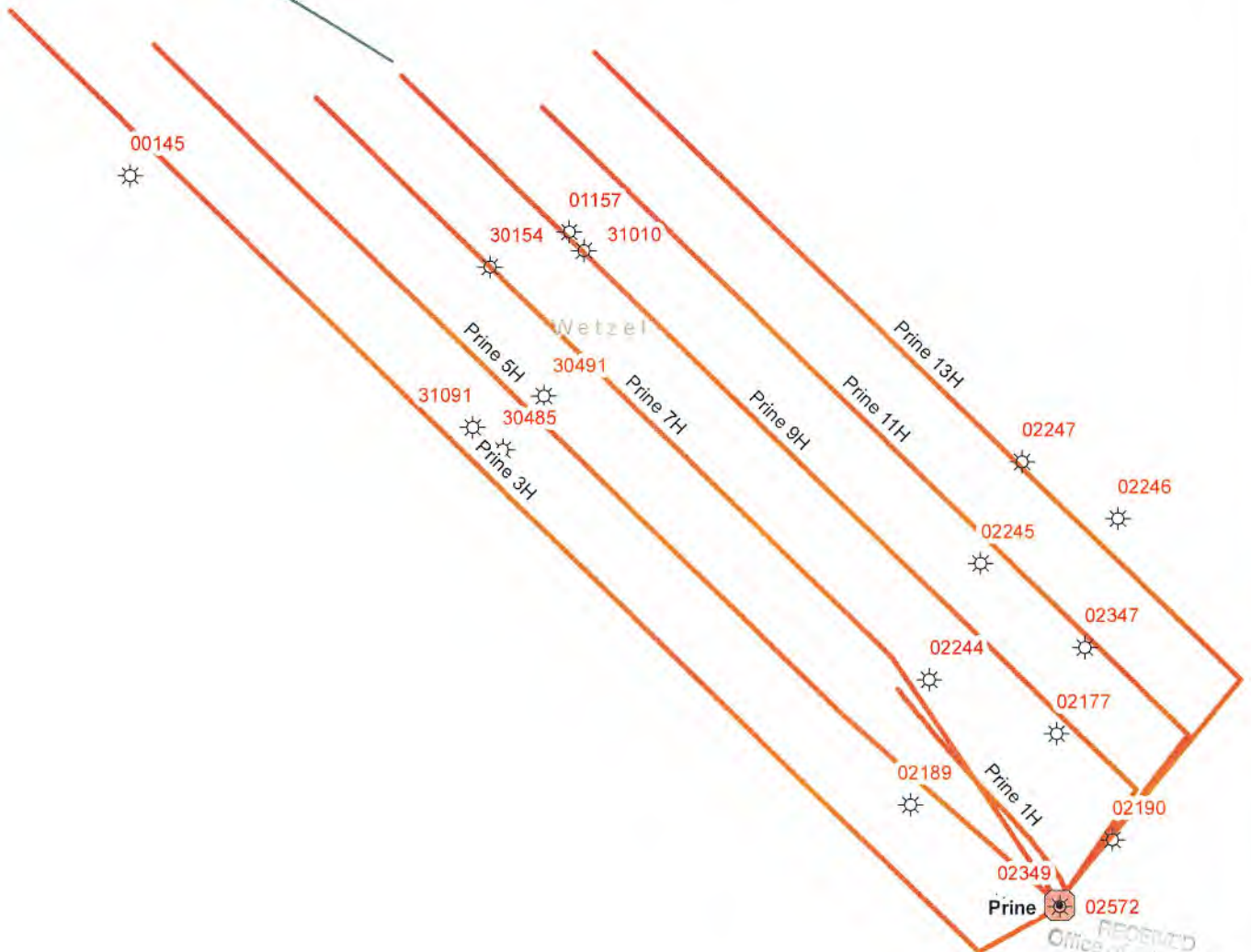
EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

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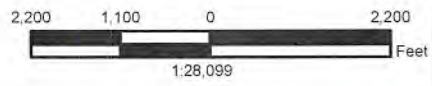
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EQT
EQT Corporation
625 Liberty Avenue
Pittsburgh, PA 15222

Prine

Vertical Offsets and Foreign Laterals within 500'

- Legend**
- Foreign Well Offset
 - Well Pad Sites
 - Foreign Horizontals
 - Well Lateral_FM Formation**
 - Genesee
 - 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.



4710303357

WellID	date	FmatTD	Permit	RemarksPRO	Operator	Longitude	Latitude	DatumEleva	TotalDepth-SS	Total Depth	
4710300145	6/23/1937		00145		VALLEY RUN O&G	-80.6175		39.6964	1184.0000	-1045.0000	2229.0000
4710300157	12/17/1923		01157		W M BISSETT	-80.5966		39.6943	1266.0000	-1938.0000	3206.0000
4710302177	6/28/2006		02177		D A C	-80.5739		39.6760	1473.0000	-2226.0000	3699.0000
4710302189	8/30/2006		02189	BNJ	D A C	-80.5808		39.6735	0.0000	-3605.0000	3605.0000
4710302190	9/8/2006		02190	BNJ/GDN	D A C	-80.5713		39.6721	0.0000	-3500.0000	3500.0000
4710302244	7/9/2007		02244	BNJ/GDN	D A C	-80.5799		39.6780	1361.0000	-2282.0000	3643.0000
4710302245	8/4/2007		02245	BNJ/GDN	D A C	-80.5775		39.6822	1386.0000	-2149.0000	3535.0000
4710302246	7/16/2007		02246	BNJ/GDN	D A C	-80.5710		39.6838	1439.0000	-2269.0000	3708.0000
4710302247	7/21/2007		02247	BNJ/GDN	D A C	-80.5755		39.6859	1534.0000	-2152.0000	3686.0000
4710302347	5/15/2008		02347	BNJ/GDN	D A C	-80.5726		39.6791	1361.0000	-2315.0000	3676.0000
4710302349	8/23/2008		02349	GDN	D A C	-80.5768		39.6698	1362.0000	-2240.0000	3602.0000
4710302572	7/29/2010		02572		GRENADIER ENERGY PARTNERS	-80.5738		39.6697	1332.0000	-5168.0000	6500.0000
4710303154	8/9/1900		30154		OPER IN MIN.OWN	-80.6006		39.6930	1173.0000	-1944.0000	3117.0000
47103030485	8/10/1917		30485		JENNINGS BRTHRS	-80.6000		39.6864	1105.0000	-1999.0000	3104.0000
47103030491	8/10/1917		30491		JENNINGS BRTHRS	-80.5981		39.6883	972.0000	-1954.0000	2926.0000
47103031010	8/15/1934		31010		CARNEGIE NAT GAS	-80.5961		39.6936	1260.0000	-1946.0000	3206.0000
4710331091			31091		OPER IN MIN.OWN	-80.6014		39.6872	1200.0000	-1945.0000	3145.0000

Foreign Horizontals
WellID 471030320501

WellStatus 1 GAS
Name 210H DURIG DANIEL WTZ
SpudDate 11/18/2017
Operator SWN PRODUCTION

DatumEleva 1411.0000
Deviated

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WW-9
(4/16)

API Number 47 - _____ - _____
Operator's Well No. Prime 7H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) Tributary of Bear Run Quadrangle Littleton

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

Will a pit be used? Yes No

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

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

Additives to be used in drilling medium? See Attached

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

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

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

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

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

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

Company Official Signature [Signature]

Company Official (Typed Name) John Zavatchan

Company Official Title Project Specialist - Permitting

Subscribed and sworn before me this 11th day of June, 20 20

[Signature] Notary Public

My commission expires October 25, 2023

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West Virginia Department of Environmental Protection

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

WW-9 Attachment

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

- Air is used to drill the top-hole sections of the wellbore (surface, intermediate, and pilot). Water based mud may be necessary depending on hole conditions to stabilize and drill the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water based mud, or oil based 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. Oil based mud – synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

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EQT Production Company

Proposed Revegetation Treatment: Acres Disturbed No additional disturbance Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 1/3 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

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

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Derek M. Haught

Comments: _____

Title: Oil & Gas Inspector

Date: 6/22/20

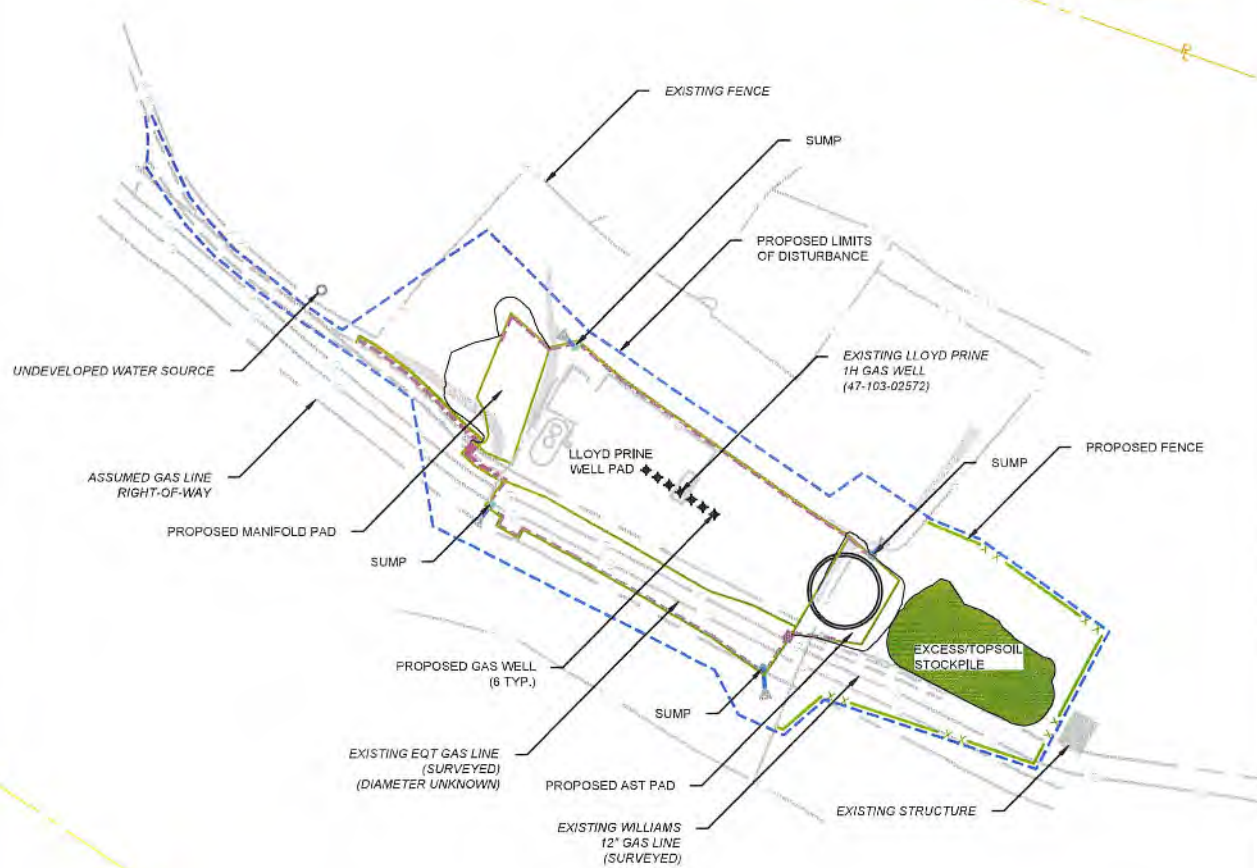
Field Reviewed? Yes No



1-8-43
HOWARD HENDERSON

1-8-44
WILLIAM HENDERSON

1-11-8
RAY SAPP



SCALE: 1:400 PLOTTED: 1/31/2020 2:30 PM FILE: X:\OIL AND GAS\EQT\20191907D-888 LLOYD PRINE\CADD (K DRIVE) - PA\COMMON\LLOYD PRINE EXHIBIT_01.31.20.DWG

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Office of Oil and Gas
JUN 17 2020
WV Department of Environmental Protection

EXHIBIT 1
made for
EQT PRODUCTION COMPANY
LLOYD PRINE WELL SITE
CENTER DISTRICT,
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



4710303357

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

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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.		Tridelphia	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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JUN 17 2020

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SSP on Q: 6/18/20-WS



Where energy meets innovation.™

Site Specific Safety and Environmental Plan

EQT

LIT53 Pad

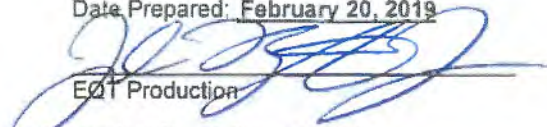
Center

Wetzel County, WV

For Wells:

1H _____ 3H _____ 5H _____ 7H _____ 9H _____ 11H _____ 13H _____

Date Prepared: February 20, 2019



EQT Production

Project Specialist - Permitting

Title

3/23/2020
Date

Derek M. Haught
WV Oil and Gas Inspector

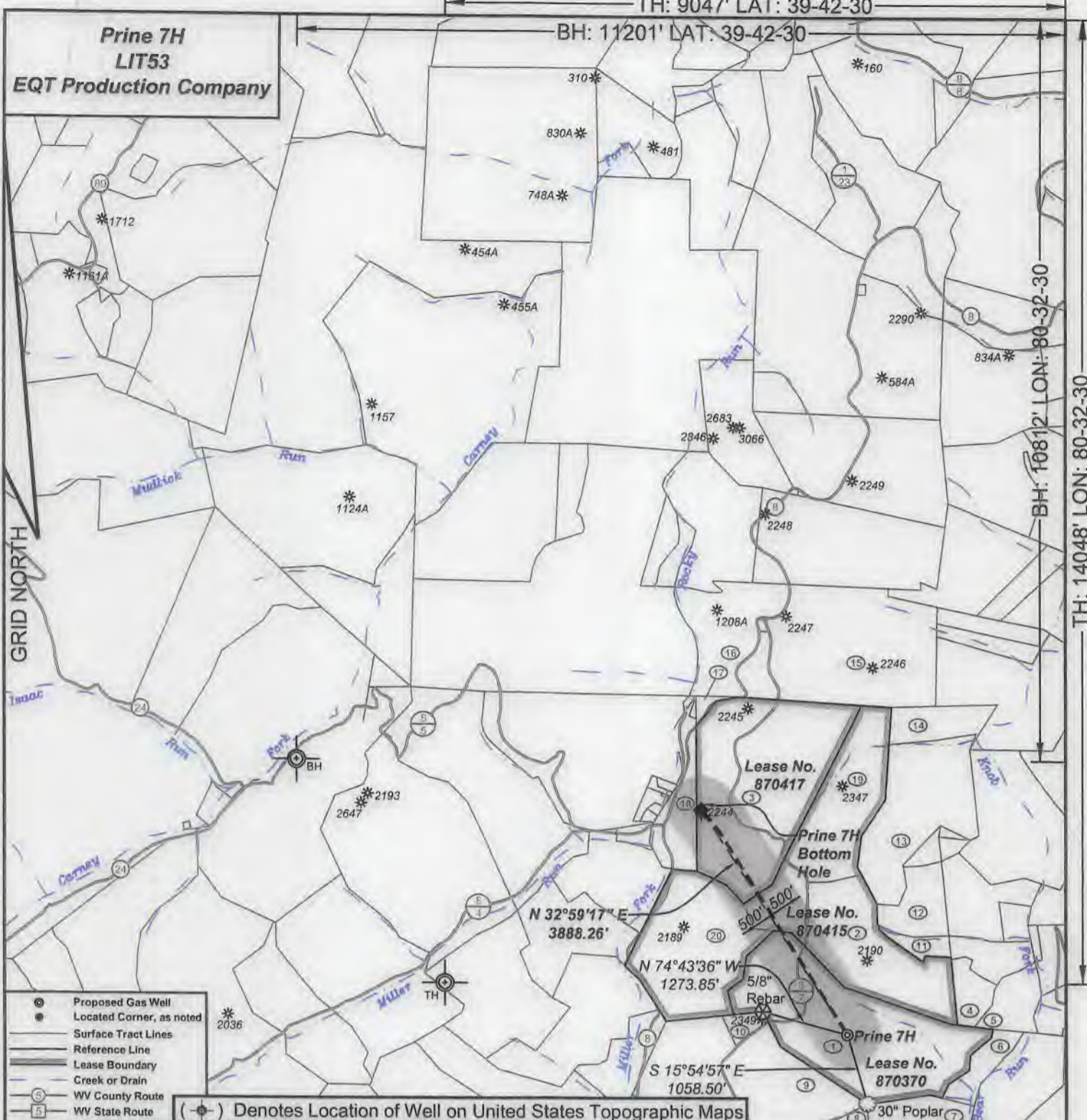
Oil and Gas Inspector

Title

4/7/20

Date

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- ⊙ Proposed Gas Well
- Located Corner, as noted
- 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.

Ben R. Singleton
P.S. 2092



SEAL

FILE NO: 289-16
DRAWING NO: Prine 7H
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

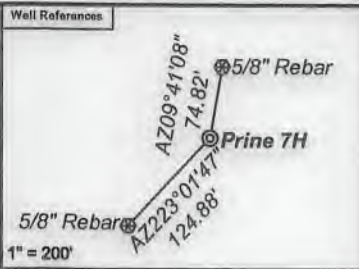


DATE: June 12 20 20
OPERATOR'S WELL NO.: Prine 7H
API WELL NO HGA
47 - 103 - 03357
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1335' WATERSHED Tributary of Bear Run QUADRANGLE: Littleton
DISTRICT: Center COUNTY: Wetzel
SURFACE OWNER: Howard M. Henderson ACREAGE: 112
ROYALTY OWNER: Jamie Joe Prine, et al LEASE NO: 870370 ACREAGE: 111
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,500'

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

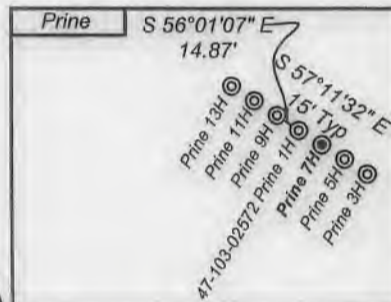
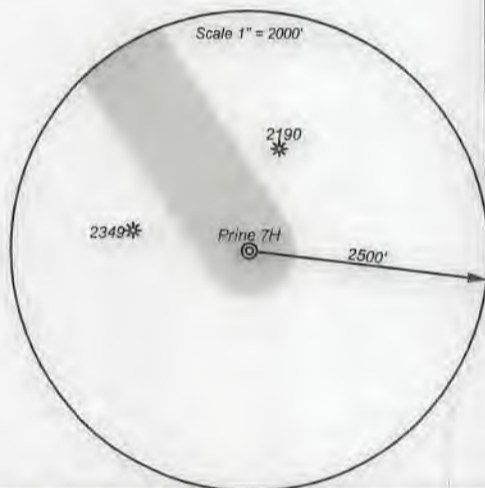
**Prine 7H
LIT53
EQT Production Company**



Notes:
 Prine 7H coordinates are
 NAD 27 N: 427,861.56 E: 1,697,732.81
 NAD 27 Lat: 39.669766 Long: -80.573804
 NAD 83 UTM N: 4,391,201.54 E: 536,571.15
 Prine 7H Bottom Hole coordinates are
 NAD 27 N: 431,122.97 E: 1,695,615.80
 NAD 27 Lat: 39.678650 Long: -80.581463
 NAD 83 UTM N: 4,392,184.38 E: 535,909.61
 West Virginia Coordinate 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.

Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	8	43	Wetzel	Center	Howard M. Henderson	112.00
2	8	44	Wetzel	Center	William D. Henderson	65.00
3	8	28	Wetzel	Center	Matthew J. Rice	108.00
4	8	55	Wetzel	Center	Ashley Murphy, et al.	9.43
5	8	47	Wetzel	Center	Howard M. Henderson	14.75
6	11	9	Wetzel	Center	Howard M. Henderson	10.10
7	11	8	Wetzel	Center	James B. & Margie L. Montgomery	52.00
8	11	6.1	Wetzel	Center	Larry L. & Lois J. Deem	94.50
9	11	6	Wetzel	Center	Ray S. & Timmy R. Sapp	90.50
10	11	8.2	Wetzel	Center	Roger L. & Sandra K. Wade	4.00
11	8	45	Wetzel	Center	Howard Henderson	5.50
12	8	31.1	Wetzel	Center	Howard Henderson	18.43
13	8	31	Wetzel	Center	Howard Henderson	84.76
14	8	30	Wetzel	Center	Howard M. Henderson	18.00
15	8	11	Wetzel	Center	Howard M. Henderson	01.50
16	8	8	Wetzel	Center	Lillian M. Pitzer & Jason L. Wright	57.00
17	8	27	Wetzel	Center	Evan H. & Janet L. Backinger	1.80
18	8	24	Wetzel	Center	Charles P. & Fanny P. Wade	10.44
19	8	29	Wetzel	Center	Howard M. & William D. Henderson	57.00
20	8	42	Wetzel	Center	Jeffrey P. & Howard M. Henderson	67.00

Lease No.	Owner	Acres
870415	Howard Henderson, et al.	189
870417	Sherry Lynn Cheffren, et al.	108

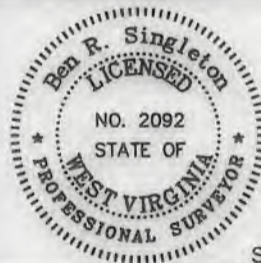


- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- WV County Route
- WV State Route



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.

Ben R. Singleton
 P.S. 2092



SEAL

FILE NO: 289-16
 DRAWING NO: Prine 7H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 1:2500
 PROVEN SOURCE OF ELEVATION:
 NGS CORS Station

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

DATE: June 12 20 20
 OPERATOR'S WELL NO.: Prine 7H
 API WELL NO: HGA
 47 - 103 - 03357
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 1335' WATERSHED Tributary of Bear Run QUADRANGLE: Littleton
 DISTRICT: Center COUNTY: Wetzel
 SURFACE OWNER: Howard M. Henderson ACREAGE: 112
 ROYALTY OWNER: Jamie Joe Prine, et al LEASE NO: 870370 ACREAGE: 111
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,500'

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

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
----------------------	-----------------------	-----------------------	---------	-----------

See Attached

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

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

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

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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

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4710303357

WW-6A1 attachment

Operator's Well No.

Prine 7H

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
870370	Jamie Joe Prine, et al. Lloyd Joe Prine and Betty M. Prine, h/w Drilling Appalachian Corporation Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc.	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company	at least 1/8th per WV Code 22-6-8	OG 85A/380 OG 124A/9 & 136A/538 OG 138A/54 OG 138A/1 OG 175A/707
870415	Howard Henderson, et al. Maxine Henderson Drilling Appalachian Corporation Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc.	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company	at least 1/8th per WV Code 22-6-8	OG 85A/306 OG 124A/9 & 136A/538 OG 138A/54 OG 138A/1 OG 175A/707
870417	Sherry Lynn Chefren, et al. Sherry Lynn Chefren Drilling Appalachian Corporation Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc.	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company	at least 1/8th per WV Code 22-6-8	OG 86A/352 OG 124A/9 & 136A/538 OG 138A/54 OG 138A/1 OG 175A/707

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EQT Production Company
400 Woodcliff Drive
Canonsburg, PA 15317
www.eqt.com

John Zavatchan
Project Specialist - Permitting
O:724-746-9073
jzavatchan@eqt.com

June 12, 2020

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

Re: Prine 7H Gas Well
Center District, Wetzel County

Dear Mr. Brewer,

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

Sincerely,

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

John Zavatchan
Project Specialist - Permitting

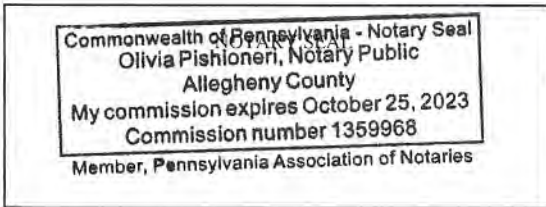
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WV Department of
Environmental Protection

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: EQT Production Company
By: John Zavatchan
Its: Project Specialist - Permitting
Telephone: 724-746-9073

Address: 400 Woodcliff Drive
Canonsburg, PA 15317
Facsimile: 412-395-2974
Email: jzavatchan@eqt.com



Subscribed and sworn before me this 16th day of June, 2020.
[Signature] Notary Public
My Commission Expires October 25, 2023

Oil and Gas Privacy Notice:

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

Office of Oil and Gas
JUN 17 2020
Enrico

WW-6A
(9-13)

4710303357
API NO. 47- _____
OPERATOR WELL NO. 7H _____
Well Pad Name: Prine

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

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

Date of Notice: 6/15/2020 **Date Permit Application Filed:** 6/16/2020

Notice of:

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

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

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

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

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

SURFACE OWNER(s)
Name: See AttachedList
Address: _____
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: See AttachedList
Address: _____
 COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: See AttachedList
Address: _____
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: See AttachedList
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

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JUN 17 2020
WV Department of
Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

Oil and Gas
JUN 17 2012
WV Department of Environmental Protection

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

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JUN 17 2020
WV Department of
Environmental Protection

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.

1710303357
7H
Prine

4710303357

WW-6A
(8-13)

API NO. 47- _____
OPERATOR WELL NO. 7H _____
Well Pad Name: Prine _____

Notice is hereby given by:

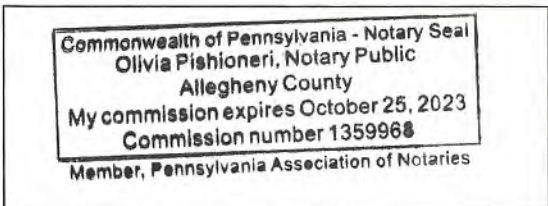
Well Operator: EQT Production Company
Telephone: 724-746-9073
Email: jzavatchan@eqt.com

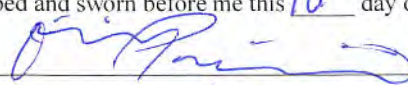


Address: 400 Woodcliff Drive
Canonsburg, PA 15317
Facsimile: 412-395-2974

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 16th day of June, 2020
 Notary Public
My Commission Expires October 25, 2023

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Office of Oil and Gas
JUN 17 2020
WV Department of
Environmental Protection

4710303357

Surface Owners:

Howard M. Henderson
4721 Low Gap Run Road
Littleton, WV 26581

Surface Owners (road, AST, or other disturbance):

Howard M. Henderson
4721 Low Gap Run Road
Littleton, WV 26581

Water Supply Owners within 1,500'

Howard M. Henderson
4721 Low Gap Run Road
Littleton, WV 26581

Coal Owners

Consol RCPC, LLC
1000 CONSOL Energy Drive
Canonsburg, PA 15317

DDE, LLC
12088 Middle Island Road
Alma, WV 26320-7211

Howard M. Henderson
4721 Low Gap Run Road
Littleton, WV 26581

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Topo Quad: Littleton Scale: 1" = 1000'

County: Wetzel Date: December 16, 2019

District: Center - 01 Project No: 289-34-C-16

Water

LIT 53 PRINE PAD

9 Potential Water Sources within 2500'



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LEGEND

- Red Symbol - Declined Sampling
- Blue Symbol - Requested Sampling / Unable to Contact
- Red Line - Access Road
- Well Symbol - Well
- Spring Symbol - Spring
- Pond Symbol - Pond
- Building Symbol - Building

NAD 27, North Zone
N:427869.69
E:1697722.20

WGS 84
LAT:39.669870
LONG:-80.573656
ELEV:1,335



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:
EQT Production Company
 2400 Ansys Drive, Suite 200
 Canonsburg, PA 15317

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

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

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

Date of Notice: 02/10/2020 **Date Permit Application Filed:** 06/16/2020

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

HAND DELIVERY CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

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

Name: Howard M. Henderson

Address: 4721 Low Gap Run Road
Littleton, WV 26581

Name: _____

Address: _____

Notice is hereby given:

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

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>536571.15</u>
County: <u>Wetzel</u>	Northing: <u>4391201.54</u>
District: <u>Center</u>	Public Road Access: <u>CR 7/6</u>
Quadrangle: <u>Littleton</u>	Generally used farm name: <u>Howard W. Henderson</u>
Watershed: <u>Tributary of Bear Run</u>	

This Notice Shall Include:

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

Notice is hereby given by:

Well Operator: EQT Production Company
Address: 400 Woodcliff Drive
Canonsburg, PA 15317
Telephone: 724-746-9073
Email: jzavatchan@eqt.com
Facsimile: 412-395-2974

Authorized Representative: John Zavatchan
Address: 400 Woodcliff Drive
Canonsburg, PA 15317
Telephone: 724-746-9073
Email: jzavatchan@eqt.com
Facsimile: 412-395-2974

Office of Oil and Gas

JUN 17 2020

WV Department of Environmental Protection

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.



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

January 15, 2020 ✓

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

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

Subject: DOH Permit for the Prine Pad, Wetzel County

Prine 3H

Prine 5H

Prine 7H ✓

Prine 9H

Prine 11H

Prine 13H

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2010-0167 which has been assigned to EQT Production Company for access to the State Road for a well site located off Tyler County Route 8/7 SLS.

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

Very Truly Yours,

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

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WV Department of
Environmental Protection

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>
Water		
Sand	Hydrotreated light petroleum distillate	14808-60-7
	Tributyl tetradecyl phosphonium chloride	64742-47-8
Friction Reducer	Ammonium chloride	81741-28-8
Biocide	Hydrochloric Acid	12125-02-9
Scale Inhibitor	Propargyl Alcohol	7647-01-0
15% Hydrochloric Acid	Methanol	107-19-7
Corrosion Inhibitor	Guar Gum	67-56-1
Corrosion Inhibitor	Sodium Persulfate	9000-30-0
Gelling Agent	Potassium Carbonate	7775-27-1
Oxidizing Breaker		584-08-7
Buffering Agent		

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Environmental Protection

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WV
Environmental

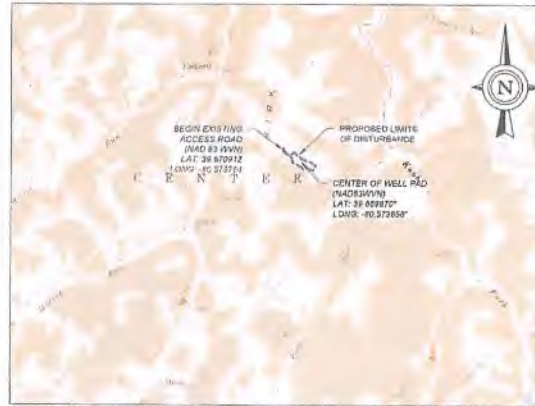
ASSIGN'D WEL #	API #	(UTM EAST)	(UTM NORTH)	(UTM EAST)	(UTM NORTH)	(UTM EAST)	(UTM NORTH)	(UTM EAST)	(UTM NORTH)
111	87 0942517	19 40 11.5322	87 34 25.1834	427891.244	166822.642	427891.244	167121.131	429128.924	516591.267
124		19 40 11.75917	87 34 25.42072	427891.000	166244.820	427891.000	167029.170	429121.187	516314.820
114		19 40 11.69284	87 34 25.42027	427891.409	166825.427	427891.409	167034.984	429128.726	516591.502
50		19 40 11.61205	87 34 25.37567	427891.281	166691.035	427877.814	167087.501	429126.464	516481.184
74		19 40 11.42489	87 34 25.00006	427891.027	166629.249	427861.593	167271.806	429120.140	516571.149
54		19 40 11.37536	87 34 24.83467	427891.899	166507.817	427851.432	167074.414	429119.328	516375.031
34		19 40 11.22677	87 34 24.67593	427889.772	166320.464	427845.104	167078.021	429116.776	516078.913

EROSION & SEDIMENT CONTROL PLAN

**APPROVED
WVDEP OOG**
4/28/2020

LLOYD PRINE WELL SITE CENTER DISTRICT, WETZEL COUNTY, WV FOR EQT PRODUCTION COMPANY

LADOWNER	LANDOWNER DISTURBANCE BREAKDOWN			TOTAL
	DISTURBANCE FROM ACCESS ROAD (ACRES)	DISTURBANCE FROM WEL PAD (ACRES)	DISTURBANCE FROM STOCKPILE (AUNRES)	
HOWARD HENDERSON	0.44	3.44	1.30	4.88

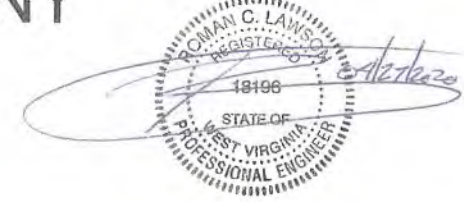


REFERENCE: UNITED STATES GEOLOGICAL SURVEY - LITTLETON QUADRANGLE, WV, 7.5 MINUTE SERIES



PROJECT NO. 19070-088
JANUARY 2020

DIEFFENBAUCH & HRITZ, LLC



INDEX	
DRAWING NO.	TITLE
1	TITLE SHEET
2	AS-BUILT SITE PLAN
3	PROPOSED SITE PLAN
4	PROPOSED RESTORATION PLAN
5	AS-BUILT ACCESS ROAD PROFILE
6	EAS TYPICAL SECTIONS
7	EAS DETAILS



PROJECT: LLOYD PRINE WELL SITE
COUNTY: WETZEL COUNTY, WEST VIRGINIA

CLIENT: EQT PRODUCTION COMPANY

DATE: 1/20/20

TMR: 19070-088

BLD CHECKED: []

RCI APPROVAL: []

JAN 2020 DATE: []

19070-088 PROJECT NO. []

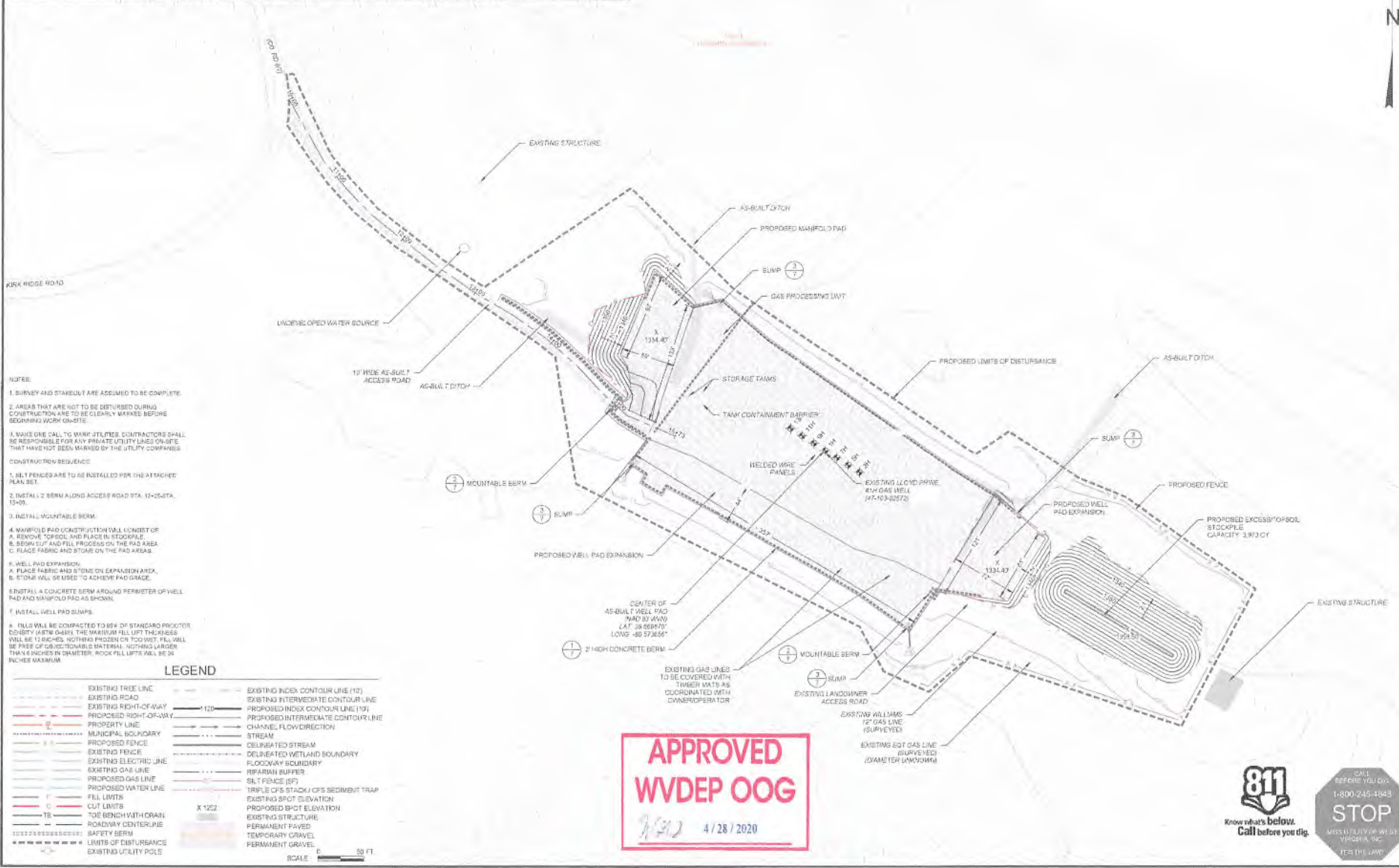
DIEFFENBAUCH & HRITZ, LLC
1015 Oregon Road, Suite 500
Wetzel County, West Virginia
P. 304.923.3828 F. 304.923.2727

TITLE SHEET

1

SCALE: 1"=80' PLOTTED: 4/27/2020 9:33 AM FILE: X:\E-FILE AND GARDEN/0318102009-11-100-PRIME-PRIME-WVDEP-PROPOSED SITE PLAN.DWG

ASSIGNED WELL ID	API #	LAT (NAD83)	LONG (NAD83)	NORTHING (NAD83)	EASTING (NAD83)	NORTHING (NAD83)	EASTING (NAD83)	NORTHING (NAD83)	EASTING (NAD83)	NORTHING (NAD83)	EASTING (NAD83)
1H	47-104-02372	39° 47' 11.53332"	80° 34' 22.35333"	427907.154	1666282.642	427899.687	1667220.199	4191203.942	536597.267		
13H		39° 47' 11.78971"	80° 34' 22.05277"	427791.036	1666244.620	427884.070	1667082.376	4191211.187	536550.620		
13H		39° 47' 11.69039"	80° 34' 22.48827"	427523.409	1666237.427	427885.942	1667094.984	4191208.776	536528.502		
9H		39° 47' 11.62267"	80° 34' 22.37367"	427513.261	1666233.028	427877.214	1667207.291	4191206.164	536509.134		
7H		39° 47' 11.45439"	80° 34' 22.00087"	427389.037	1666229.243	427863.359	1667325.806	4191203.543	536571.143		
3H		39° 47' 11.37310"	80° 34' 24.81847"	427390.899	1666307.637	427854.482	1667345.414	4191199.129	536575.031		
3H		39° 47' 11.29571"	80° 34' 24.67297"	427382.772	1666320.464	427845.304	1667358.021	4191196.736	536578.913		



- NOTE:
1. SURVEY AND STAKEOUT ARE ASSUMED TO BE COMPLETE.
 2. AREAS THAT ARE NOT TO BE DISTURBED DURING CONSTRUCTION ARE TO BE CLEARLY MARKED BEFORE BEGINNING WORK ON-SITE.
 3. MAKE ONE CALL TO MARK UTILITIES. CONTRACTORS SHALL BE RESPONSIBLE FOR ANY PRIVATE UTILITY LINES ON-SITE THAT HAVE NOT BEEN MARKED BY THE UTILITY COMPANIES.
- CONSTRUCTION SEQUENCE:
1. ALL FENCES ARE TO BE INSTALLED PER THE ATTACHED PLAN SET.
 2. INSTALL 2' BERM ALONG ACCESS ROAD STA. 13+25.254 TO 13+00.
 3. INSTALL MOUNTABLE BERM.
 4. MANGOLD PAD CONSTRUCTION SHALL CONSIST OF:
 - A. REMOVE TOPSOIL AND PLACE IN STOCKPILE.
 - B. BERM CUT AND FILL PROCESS ON THE PAD AREA.
 - C. PLACE FABRIC AND STONE ON THE PAD AREA.
 5. WELL PAD EXPANSION:
 - A. PLACE FABRIC AND STONE ON EXPANSION AREA.
 - B. STONE WALL BE USED TO ACHIEVE PAD GRADE.
 6. INSTALL A CONCRETE BERM AROUND PERIMETER OF WELL PAD AND MANGOLD PAD AS SHOWN.
 7. INSTALL WELL PAD SUMPS.
 8. FILL WILL BE COMPACTED TO 85% OF STANDARD PROCTOR DENSITY WITH OVER THE MAXIMUM FILL LIFT THE AREAS WILL BE 12 INCHES. NOTHING PROCESSED TO 10" DEPT. FILL WILL BE FREE OF OBJECTS/DEBRIS MATERIAL. NOTHING UNDER THAN 6 INCHES IN DIAMETER, ROCK FILL LIFTS WILL BE 24 INCHES MAXIMUM.

LEGEND

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

APPROVED
WVDEP OOG
 1/20 4/28/2020

811
Know what's below.
Call before you dig.

CALL BEFORE YOU DIG:
1-800-245-4843

STOP

MISS JUDITH A. WEST
VIRGINIA, INC.
IT'S THE LAW

NO.	DATE	DESCRIPTION	DRAWN	CHECKED	DATE	DESCRIPTION
TIER SPAIN E.L.B. SHEETS WELL PROJECT JAN 2020 SHEET 10070-038 W-01 OF 01						
DIFFENBAUGH & HERTZ, LLC 1000 Charleston Road, Suite 200 Charleston, WV 25301 P: 304.336.0222 F: 304.336.0227						
EOT PRODUCTION COMPANY						
LLOYD PRIME WELL SITE CENTER DISTRICT WETZEL COUNTY, WEST VIRGINIA						
PROPOSED SITE PLAN						
3						