



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

Thursday, May 14, 2020
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for PRINE 13H
47-103-03343-00-00

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", is positioned above the printed name and title.

James A. Martin
Chief

Operator's Well Number: PRINE 13H
Farm Name: HOWARD M. HENDERSON
U.S. WELL NUMBER: 47-103-03343-00-00
Horizontal 6A New Drill
Date Issued: 5/14/2020

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.

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.

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:

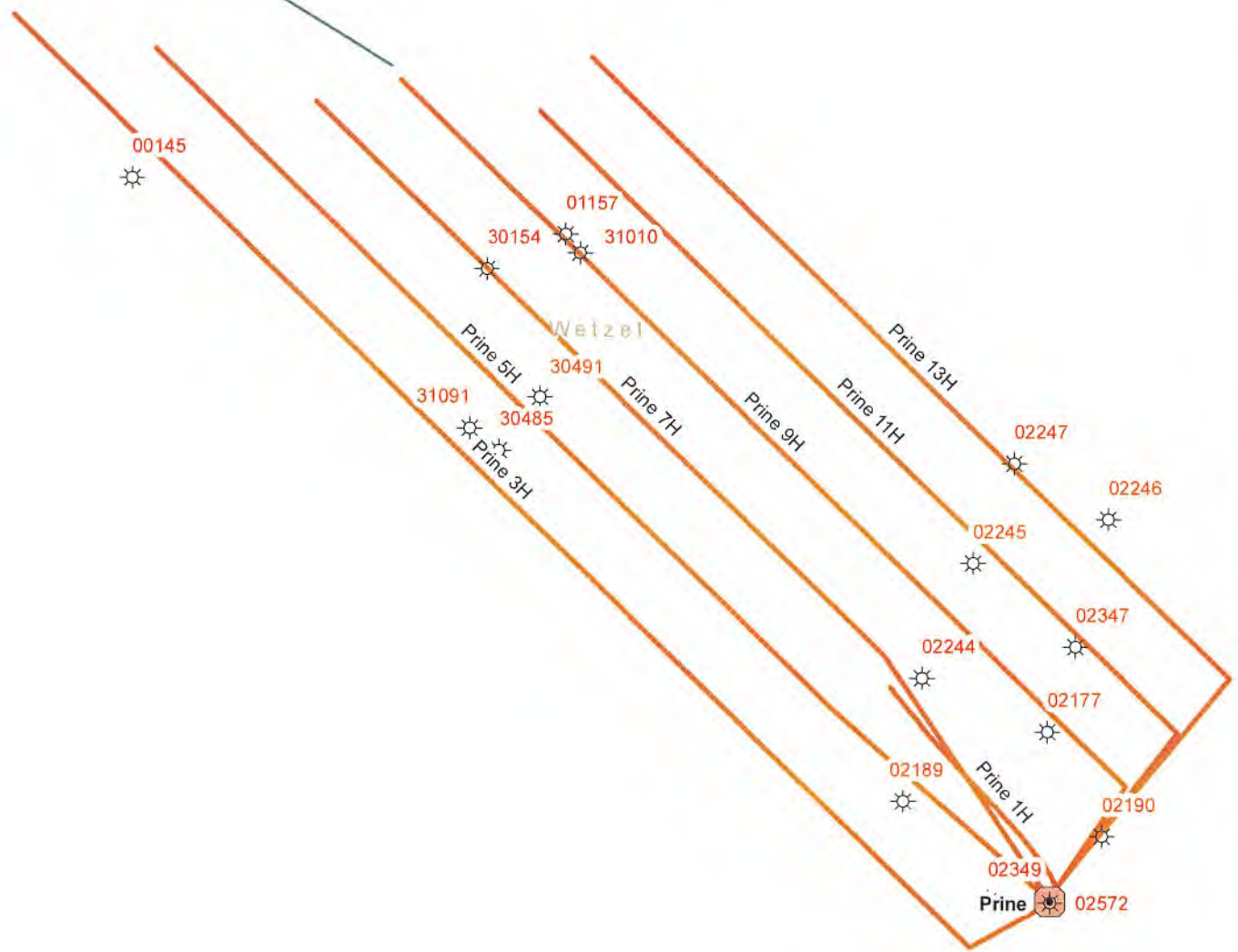
1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
3. Inspect or install master valves or other necessary equipment for wellhead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



471030320501



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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.



WellID	WellStatus	date	FmatTD	Permit	RemarksPRO	Operator	Longitude	Latitude	DatumEleva	TotalDepth-SS	Total Depth	
4710300145	UNK	6/23/1937		00145		VALLEY RUN O&G	-80.6175		39.6964	1184.0000	-1045.0000	2229.0000
4710301157	UNK	12/17/1923		01157		W M BISSETT	-80.5968		39.6943	1268.0000	-1938.0000	3206.0000
4710302177	UNK	6/28/2006		02177	BNJ	D A C	-80.5739		39.6760	1473.0000	-2226.0000	3699.0000
4710302189	GAS	8/30/2006		02189	BNJ/GDN	D A C	-80.5808		39.6735	0.0000	-3605.0000	3605.0000
4710302190	GAS	9/8/2006		02190	BNJ/GDN	D A C	-80.5713		39.6721	0.0000	-3500.0000	3500.0000
4710302244	GAS	7/9/2007		02244	BNJGDN5SDBYD	D A C	-80.5799		39.6780	1361.0000	-2282.0000	3643.0000
4710302245	GAS	8/4/2007		02245	BNJ/GDN	D A C	-80.5775		39.6822	1386.0000	-2149.0000	3535.0000
4710302246	GAS	7/16/2007		02246	BNJ/GDN	D A C	-80.5710		39.6838	1439.0000	-2269.0000	3708.0000
4710302247	GAS	7/21/2007		02247	BNJ/GDN	D A C	-80.5755		39.6859	1534.0000	-2152.0000	3686.0000
4710302347	GAS	5/15/2008		02347	BNJGDN	D A C	-80.5726		39.6791	1361.0000	-2315.0000	3676.0000
4710302349	GAS	8/23/2008		02349	GDN	D A C	-80.5768		39.6698	1362.0000	-2240.0000	3602.0000
4710302572	GAS	7/29/2010		02572		GRENADIER ENERGY PARTNERS	-80.5738		39.6697	1332.0000	-5168.0000	6500.0000
4710330154	OIL			30154		OPER IN MIN.OWN	-80.6006		39.6930	1173.0000	-1944.0000	3117.0000
4710330485	OIL GS	8/9/1900		30485		JENNINGS BRTHRS	-80.6000		39.6864	1105.0000	-1999.0000	3104.0000
4710330491	OIL GS	8/10/1917		30491		JENNINGS BRTHRS	-80.5981		39.6883	972.0000	-1954.0000	2926.0000
4710331010	GAS	8/15/1934	LOWER HURON SHALE	31010		CARNEGIE NAT GAS	-80.5961		39.6936	1260.0000	-1946.0000	3206.0000
4710331091	UNK		LOWER HURON SHALE	31091		OPER IN MIN.OWN	-80.6014		39.6872	1200.0000	-1945.0000	3145.0000

Foreign Horizontals

WellID	DatumEleva	Deviated	WellStatus	Name	Spuddate	Operator
471030320501	1411.0000		1 GAS	210H DURIG DANIEL WTZ	11/18/2017	SWN PRODUCTION

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 Environmental Protection

WW-6B
(04/15)

API NO. 47- _____
OPERATOR WELL NO. 13H _____
Well Pad Name: Prine

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: 13H 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 X Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow X Deep _____
Horizontal X

DMA/4/7/20 ✓

6) Existing Pad: Yes or No Yes

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: 20,930' ✓

11) Proposed Horizontal Leg Length: 11,919' ✓

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 X

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

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WW-6B
(04/15)

API NO. 47- _____
OPERATOR WELL NO. 13H
Well Pad Name: Prine

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	20930	20930 ✓	500' above intermediate
Tubing							
Liners							

DMH 4/7/20

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:				RECEIVED Office of Oil and Gas
Sizes:				APR 10 2020
Depths Set:				WV Department of Environmental Protection

WW-6B
(10/14)

API NO. 47- _____ - _____

OPERATOR WELL NO. 13H _____

Well Pad Name: Prine

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

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



DMA 4/7/20

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

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



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

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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.

WV Department of Environmental Protection

*Note: Attach additional sheets as needed.



west virginia department of environmental protection

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

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

- Type 1 (2% Calcium Chloride-Accelerator, 0.25% Super Flake-Lost Circulation, 5.2% Water, 94% Type "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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west virginia department of environmental protection

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

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

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

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

REPORT OF THE OFFICE

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

FINDINGS OF FACT

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

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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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WEST VIRGINIA GEOLOGICAL PROGNOSIS

Horizontal Well
Prine 3H

v 2017.4

Enertia # 0

Drilling Objectives: Marcellus
County: Wetzel
Quad: Littleton
Elevation: 1345 KB
Surface location Northing: 0.00 Easting: 0.00 1332 GL
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

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

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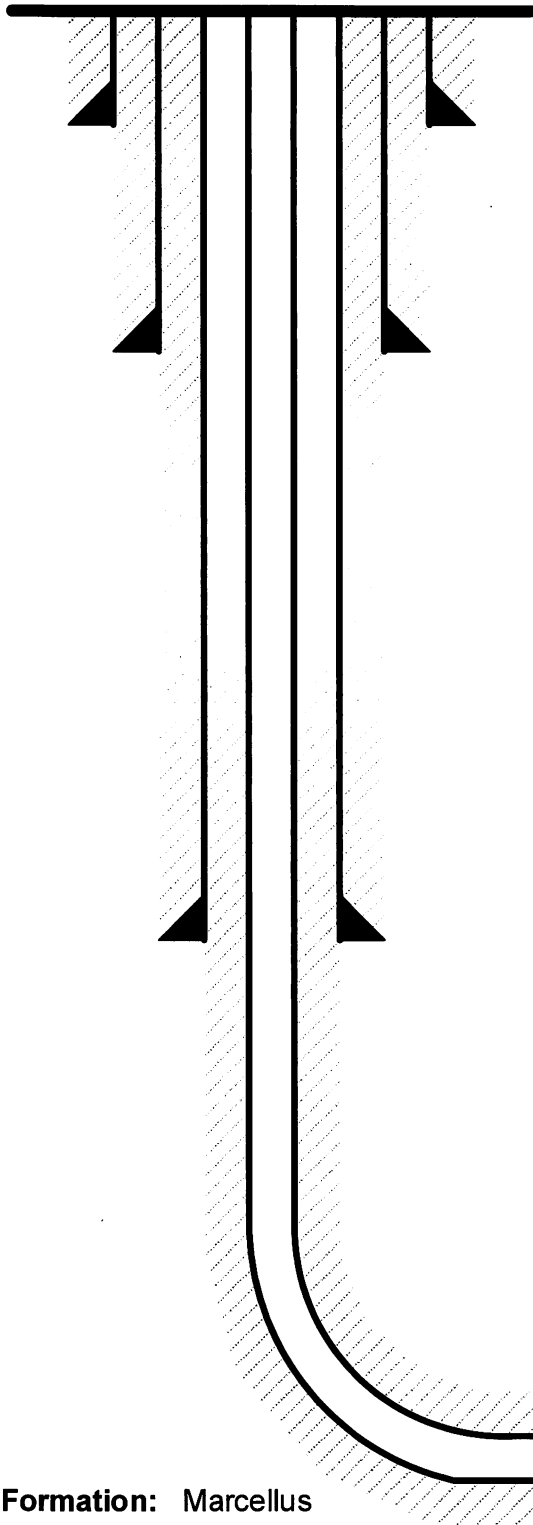
WV Department of
 Environmental Protection

EQT Production

Wellbore Diagram

Well: Prine 13H
Pad: Prine
Elevation: 1332' GL 1345' KB

County: Wetzel
State: West Virginia



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

Production @ 20,930' MD / 7,500' TVD ✓

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

Formation: Marcellus

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DMH 4/7/20



March 26, 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 13H

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.

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4710303343

WW-9
(4/16)

API Number 47 - _____ - _____
Operator's Well No. Prime 13H

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

RECEIVED
Office of Oil and Gas

APR 10 2020

WV Department of
Environmental Protection

Subscribed and sworn before me this 26th day of March, 2020

[Signature] Notary Public

My commission expires October 25th, 2023

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

WW-9
(4/16)

API Number 47 - _____ - _____
Operator's Well No. Primo 13H

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 _____)
- DWAH 4/7/20*

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

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

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

Additives to be used in drilling medium? See Attached

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

WV Department of Environmental Protection

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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WV Department of
Environmental Protection

4710303343

Form WW-9

Operator's Well No. Prine 13H

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: _____

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APR 10 2020

WV Department of
Environmental Protection

Title: Oil & Gas Inspector

Date: 4/7/20

Field Reviewed? Yes No

4710303343



1-B-43
HOWARD HENDERSON

1-B-44
WILLIAM HENDERSON

KIRK RIDGE ROAD

UNDEVELOPED WATER SOURCE

ASSUMED GAS LINE
RIGHT-OF-WAY

PROPOSED MANIFOLD PAD

PROPOSED GAS WELL
(6 TYP.)

EXISTING EQT GAS LINE
(SURVEYED)
(DIAMETER UNKNOWN)

EXISTING WILLIAMS
12" GAS LINE
(SURVEYED)

PROPOSED AST PAD

EXISTING FENCE

SUMP

PROPOSED LIMITS
OF DISTURBANCE

EXISTING LLOYD PRINE
1H GAS WELL
(47-103-02572)

LLOYD PRINE
WELL PAD

SUMP

PROPOSED FENCE

EXCESS/TOPSOIL
STOCKPILE

EXISTING STRUCTURE

1-B-45
RAY SAFF

DWA 4/7/20

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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

SCALE : 0 400 ft.

SCALE: 1:400 PLOTTED: 3/26/2020 11:10 PM FILE: X:\OIL AND GAS\EQ12019119070-088 LLOYD PRINE\CADD (K DRIVE) - PA\COMMON\LLOYD PRINE EXHIBIT_01.31.20.DWG

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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4710303343

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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APR 10 2020
WV Department of
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4710303343



Where energy meets innovation.™

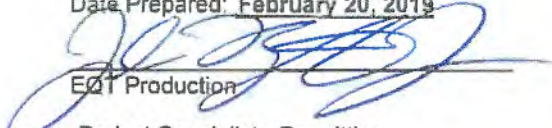
Site Specific Safety and Environmental Plan

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

3/26/2020
Date


Derek M. Haught
WV Oil and Gas Inspector

Oil and Gas Inspector
Title

4/7/20
Date

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'



LEGEND

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

NAD 27, North Zone
N:427869.69
E:1697722.20

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



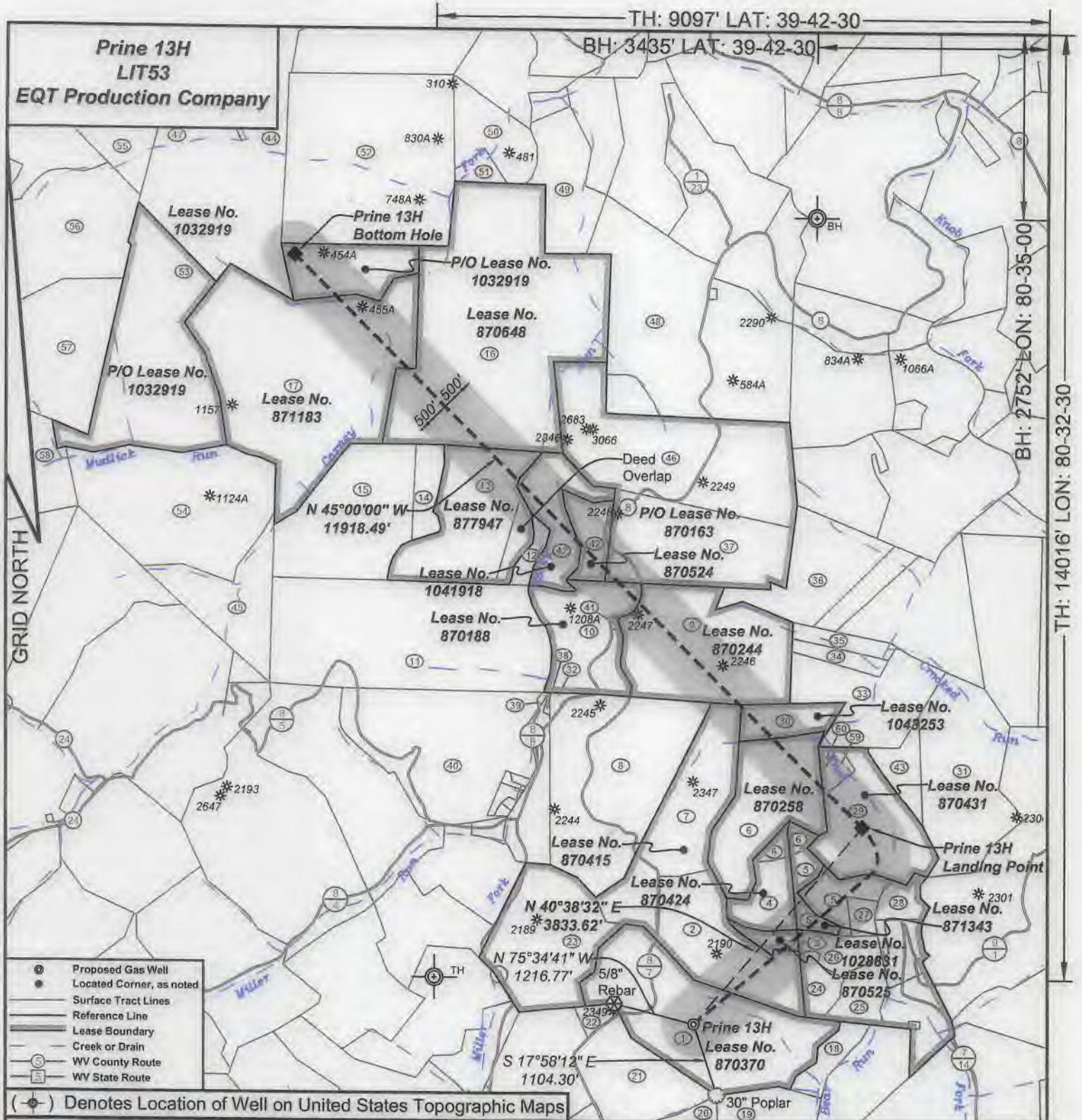
SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.

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



- 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



FILE NO: 289-16
DRAWING NO: Prine 13H
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

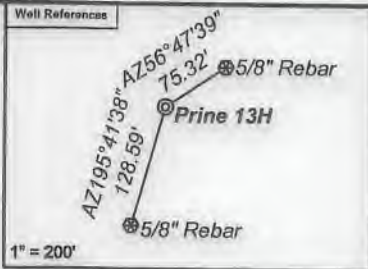
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: April 3 20 20
OPERATOR'S WELL NO.: Prine 13H
API WELL NO. W.A
47 - 103 - 03343
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: _____

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

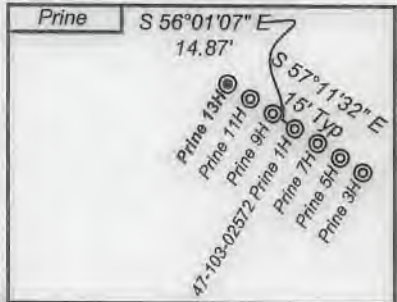
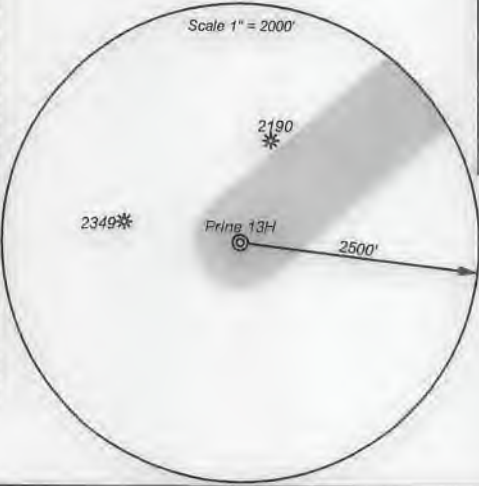
**Prine 13H
LIT53
EQT Production Company**



Notes:
 Prine 13H coordinates are
 NAD 27 N: 427,894.07 E: 1,697,662.38
 NAD 27 Lat: 39.669854 Long: -80.573984
 NAD 83 UTM N: 4,391,211.19 E: 536,555.62
 Prine 13H Landing Point coordinates are
 NAD 27 N: 430,802.98 E: 1,700,179.35
 NAD 27 Lat: 39.877921 Long: -80.565237
 NAD 83 UTM N: 4,392,110.15 E: 537,301.60
 Prine 13H Bottom Hole coordinates are
 NAD 27 N: 439,230.63 E: 1,691,751.71
 NAD 27 Lat: 39.700779 Long: -80.595542
 NAD 83 UTM N: 4,394,634.77 E: 534,691.20
 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	45	Wetzel	Center	Howard Henderson	5.50
4	8	31.1	Wetzel	Center	Howard Henderson	16.43
5	8	53	Wetzel	Center	Ashley Murphy, et al.	20.38
6	8	31	Wetzel	Center	Howard Henderson	64.76
7	8	28	Wetzel	Center	Howard M. & William D. Henderson	57.00
8	8	28	Wetzel	Center	Matthew J. Rice	108.00
9	8	11	Wetzel	Center	Howard M. Henderson	91.50
10	8	8	Wetzel	Center	Lillian M. Pitzer & Jason L. Wright	57.00
11	8	7	Wetzel	Center	EQT Production Company	150.00
12	8	3.1	Wetzel	Center	Dallport Lumber Inc	15.66
13	8	2	Wetzel	Center	EQT Production Company	72.43
14	5	24	Wetzel	Center	EQT Production Company	12.50
15	8	1	Wetzel	Center	EQT Production Company	81.50
16	5	15	Wetzel	Center	Howard M. Henderson	226.00
17	5	23	Wetzel	Center	Robert Long, et al.	172.50
18	11	9	Wetzel	Center	Howard M. Henderson	10.10
19	11	8	Wetzel	Center	James B. & Margie L. Montgomery	52.00
20	11	6.1	Wetzel	Center	Larry L. & Lois J. Deem	94.50
21	11	8	Wetzel	Center	Ray S. & Timmy R. Sapp	60.50
22	11	6.2	Wetzel	Center	Roger L. & Sandra K. Wade	4.00
23	8	42	Wetzel	Center	Jeffrey R. & Howard M. Henderson	67.00
24	8	55	Wetzel	Center	Ashley Murphy, et al.	9.43
25	8	47	Wetzel	Center	Howard M. Henderson	14.75
26	8	46	Wetzel	Center	Howard M. Henderson	13.20
27	8	52	Wetzel	Center	Ashley Murphy, et al.	3.35
28	8	31	Wetzel	Clay	Howard M. Henderson	8.20
29	8	39	Wetzel	Center	Ashley Murphy, et al.	47.25
30	8	30	Wetzel	Center	Howard M. Henderson	18.00
31	5	56	Wetzel	Clay	Riverside Development Association	61.76
32	8	27	Wetzel	Center	Evan H. & Janet L. Backinger	1.80
33	8	12	Wetzel	Center	Howard Henderson	42.65
34	8	13	Wetzel	Center	Howard M. Henderson	9.50
35	8	14	Wetzel	Center	Howard M. Henderson	9.50
36	8	5	Wetzel	Center	Howard Henderson	56.00
37	8	4	Wetzel	Center	Howard M. Henderson	60.23
38	8	26	Wetzel	Center	Evan H. & Janet L. Backinger	0.25
39	8	25	Wetzel	Center	Evan H. & Janet L. Backinger	0.44
40	8	17	Wetzel	Center	Evan H. & Janet L. Backinger	01.00
41	8	10	Wetzel	Center	Howard M. Henderson	190 x 250
42	8	3	Wetzel	Center	Howard M. Henderson	38.00
43	8	80	Wetzel	Center	James B. Burch	11.00
44	5	3.2	Wetzel	Center	Larry G. & Jana L. Rine	62.40
45	8	6	Wetzel	Center	David Wood	44.00
46	5	26	Wetzel	Center	Howard M. Henderson	125.14
47	5	3.1	Wetzel	Center	Larry G. & Jana L. Rine	68.60
48	5	28	Wetzel	Center	Terry L. Riter	162.00
49	5	16	Wetzel	Center	Jack A. & Laura A. Cartwright	37.80
50	5	8	Wetzel	Center	None	None
51	5	8	Wetzel	Center	William E. & William J. Renner	5.10
52	5	4	Wetzel	Center	William E. Renner	149.54
53	5	14	Wetzel	Center	Benjamin E. Yaber	234.00
54	5	22	Wetzel	Center	Mike Ross Inc	103.75
55	5	2	Wetzel	Center	Susan Miller, et al.	40.00
56	5	13	Wetzel	Center	Susan Miller, et al.	60.00
57	5	21	Wetzel	Center	Susan Miller, et al.	69.25
58	4	52	Wetzel	Center	James L. Musgrave, et al.	127.72
59	8	51	Wetzel	Center	Howard M. Henderson	4.00
60	8	50	Wetzel	Center	Howard M. Henderson	0.75

Lease No.	Owner	Acres
870415	Howard Henderson, et al.	189
870525	Nancy E. Jolliffe	5.5
870424	Nancy E. Jolliffe, et al.	26
871343	Thomas J. Iacoboni, et al.	4.75
1028831	AMP Fund III, LP, et al.	132.6
870431	Mary Kathleen Moore, et al.	52
870258	Glen E. Burnette, Jr., et al.	59
1043253	BRC Minerals, LP & BRC Appalachian Minerals I LLC, et al.	59
870244	Howard Henderson, et al.	91.5
870188	Carol Louise Saunik Eltringham	57
870163	Howard Henderson, et al.	321.79
870524	Green Dot Farm, Inc.	12
1041918	Ronald R. Reiter, et al.	26.89
877947	EQT Production Company, et al.	72
870648	Delorse A. Horner, et al.	226
871183	Oakey Ray Long & Joyce Lee Long, et al.	172.5
1032919	Benjamin Yaber, et ux.	136.595184 of 224

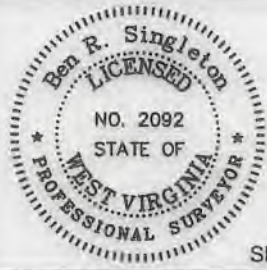


- ⊙ Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- ⊖ WV County Route
- ⊖ WV State Route



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



FILE NO: 289-16
 DRAWING NO: Prine 13H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: April 3 20 20
 OPERATOR'S WELL NO.: Prine 13H
 API WELL NO: 46A
 47 - 103 - 03343
 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: _____
 WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
 ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280
 Canonsburg, PA 15317 Bridgeport, WV 26330

WW-6A1
(5/13)

Operator's Well No. Prine 13H

**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

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	**	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	**	OG 85A/306 OG 124A/9 & 136A/538 OG 138A/54 OG 138A/1 OG 175A/707
✓ 870525	Nancy E. Jolliffe Joe Jolliffe 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	**	OG 101A/387 OG 103A/88 & 135A/350 OG 138A/54 OG 138A/1 OG 175A/707
✓ 870424	Nancy E. Jolliffe, et al. Joe B. Jolliffe 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	**	OG 101A/134 OG 103A/88 & 135A/350 OG 138A/54 OG 138A/1 OG 175A/707
✓ 871343	Thomas J. Iacoboni, et al Thomas J. Iacoboni, a married man dealing in his sole/sep. property Statoil USA Onshore Properties Inc.	Statoil USA Onshore Properties Inc. EQT Production Company	**	OG 169A/844 OG 175A/707

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✓	1028831	<u>AMP Fund III, LP, et al</u>	**	
		Harvey David Ekus, and Shirley Bellowe Century		Drilling Appalachian Corporation
		Drilling Appalachian Corporation		Grenadier Energy Partners, LLC
		Drilling Appalachian Corporation		Statoil USA Onshore Properties Inc.
		Grenadier Energy Partners, LLC		Statoil USA Onshore Properties Inc.
		Statoil USA Onshore Properties Inc.		EQT Production Company
				OG 111A/937
				OG 116A/878 & 135A/359
				OG 138A/54
				OG 138A/1
				OG 175A/707
✓	870431	<u>Mary Kathleen Moore, et al</u>	**	
		Mary Kathleen Moore, single		Statoil USA Onshore Properties Inc.
		Statoil USA Onshore Properties Inc.		EQT Production Company
				OG 145A/133
				OG 175A/707
✓	870258	<u>Glen E. Burnette, Jr., et al.</u>	**	
		Glen E. Burnette, Jr.		Drilling Appalachian Corporation
		Drilling Appalachian Corporation		Grenadier Energy Partners, LLC
		Drilling Appalachian Corporation		Statoil USA Onshore Properties Inc.
		Grenadier Energy Partners, LLC		Statoil USA Onshore Properties Inc.
		Statoil USA Onshore Properties Inc.		EQT Production Company
				OG 86A/473
				OG 124A/9 & 136A/538
				OG 138A/54
				OG 138A/1
				OG 175A/707
✓	1043253	<u>BRC Minerals LP & BRC Appalachian Minerals I LLC, et al</u>	**	
		BRC Appalachian Minerals I LLC & BRC Minerals LP		BRC Working Interest Company LLC
		BRC Appalachian Minerals I LLC & BRC Minerals LP		BRC Working Interest Company LLC
		BRC Working Interest Company LLC		Chesapeake Appalachia, L.L.C.
		Chesapeake Appalachia, L.L.C.		Statoil USA Onshore Properties Inc.
		Chesapeake Appalachia, L.L.C.		SWN Production Company
		Statoil USA Onshore Properties Inc., et al		EQT Production Company
				OG 102A/505
				OG 103A/320
				OG 103A/470
				OG 120A/109
				OG 157A/540
				OG 193A/657
				(Amended and Restated)
✓	870244	<u>Howard Henderson, et al.</u>	**	
		Maxine Henderson		Drilling Appalachian Corporation
		Drilling Appalachian Corporation		Grenadier Energy Partners, LLC
		Drilling Appalachian Corporation		Statoil USA Onshore Properties Inc.
		Grenadier Energy Partners, LLC		Statoil USA Onshore Properties Inc.
		Statoil USA Onshore Properties Inc.		EQT Production Company
				OG 86A/282
				OG 124A/9 & 136A/538
				OG 138A/54
				OG 138A/1
				OG 175A/707
✓	870188	<u>Carol Louise Saunik Eltringham</u>	**	
		A. Karl Saunik		Drilling Appalachian Corporation
				OG 102A/430

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Drilling Appalachian Corporation
Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.

Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.
Statoil USA Onshore Properties Inc.
EQT Production Company

OG 103A/88 & 135A/350
OG 138A/54
OG 138A/1
OG 175A/707

✓ **870163** 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

OG 85A/302
OG 124A/9 & 136A/538
OG 138A/54
OG 138A/1
OG 175A/707

✓ **870524** Green Dot Farm, Inc.
Green Dot Farm, Inc.
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

OG 101A/773
OG 103A/88 & 135A/350
OG 138A/54
OG 138A/1
OG 175A/707

✓ **1041918** Ronald R. Reiter, et al
Ronald R. Reiter, married, dealing in his sole and separate property

**
EQT Production Company

OG 232A/537

✓ **877947** EQT Production Company, et al.
Evan H. Backinger and Janet L. Backinger, both single
Statoil USA Onshore Properties Inc.; Statoil Pipelines LLC

Fee
Statoil Pipelines LLC
EQT Production Company

DB 447/569
DB 457/267

✓ **870648** Delorse A. Horner, et al
Charles E. Horner & Delorse A. Horner, h/w, &
John M. Horner & Teresa L. Horner, h/w
Grenadier Energy Partners, LLC
Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.

**
Grenadier Energy Partners, LLC
Drilling Appalachian Corporation
Statoil USA Onshore Properties Inc.
Statoil USA Onshore Properties Inc.
EQT Production Company

OG 135A/341
OG 135A/538
OG 138A/54
OG 138A/1
OG 175A/707

✓ **871183** Oakey Ray Long and Joyce Lee Long, et al.
Oakey Ray Long and Joyce Lee Long,
Statoil USA Onshore Properties Inc.

**
Statoil USA Onshore Properties Inc.
EQT Production Company

OG 164A/184
OG 175A/707

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✓ **1032919 Benjamin Yarber, et ux.**

Benjamin Yarber and Maria Yarber, h/w
Drilling Appalachian Corporation
Chesapeake Appalachia, L.L.C.
Chesapeake Appalachia, L.L.C.
Statoil USA Onshore Properties Inc.
SWN Exchange Title Holder LLC
SWN Production Company, LLC
Antero Exchange Properties LLC
Antero Resources Corporation

**

Drilling Appalachian Corporation OG 92A/544
Chesapeake Appalachia, L.L.C. OG 103A/187
Statoil USA Onshore Properties Inc. OG 124A/437
SWN Production Company, LLC OG 157A/540
SWN Exchange Title Holder LLC OG 158A/801
SWN Production Company, LLC Corp. Book 13/296
Antero Exchange Properties LLC OG 177A/533
Antero Resources Corporation Corp. Book 13/311
EQT Production Company OG 208A/605

** Per West Virginia Code Section 22-6-8.

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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

March 26, 2020

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

Re: Prine 13H 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 'John Zavatchan', is written over a light blue horizontal line.

John Zavatchan
Landman - Permitting

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

Date of Notice Certification: 04/08/2020

API No. 47- _____ - _____

Operator's Well No. 13H

Well Pad Name: Prine

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>536555.62</u>
County: <u>Wetzel</u>		Northing: <u>4391211.19</u>
District: <u>Center</u>	Public Road Access: <u>CR 8/7</u>	
Quadrangle: <u>Littleton</u>	Generally used farm name: <u>Howard M. Henderson</u>	
Watershed: <u>Tributary of Bear Run</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>OOG OFFICE USE ONLY</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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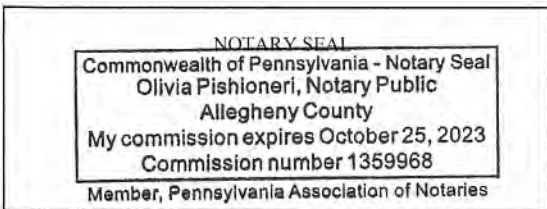
Required Attachments:

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 *[Signature]*, 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 8th day of April, 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.

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WW-6A
(9-13)

API NO. 47- _____
OPERATOR WELL NO. 13H _____
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: 4/8/2020 **Date Permit Application Filed:** 4/8/2020

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: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: See AttachedList

Address: _____

Name: _____

Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: See AttachedList

Address: _____

COAL OPERATOR

Name: _____

Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: See AttachedList

Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____

Address: _____

*Please attach additional forms if necessary

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4710303343

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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WW-6A
(8-13)

API NO. 4710303343
OPERATOR WELL NO. 13H
Well Pad Name: Prine

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

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(8-13)

API NO. 47- -
OPERATOR WELL NO. 13H
Well Pad Name: Prine

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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Office of Oil and Gas

APR 10 2020

WV Department of
Environmental Protection

WW-6A
(8-13)

API NO. 47- _____
OPERATOR WELL NO. 13H _____
Well Pad Name: Prine

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

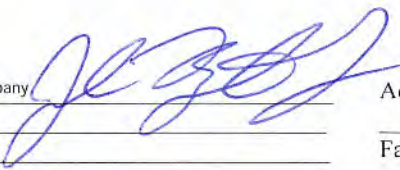
Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the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

WW-6A
(8-13)

API NO. 47- _____
OPERATOR WELL NO. 13H _____
Well Pad Name: Prine

Notice is hereby given by:

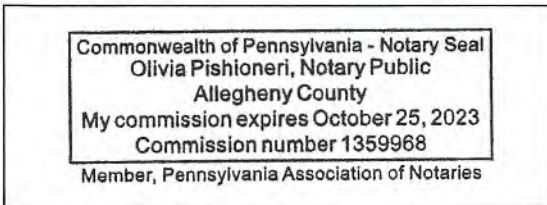
Well Operator: EQT Production Company
Telephone: 724-746-9073
Email: jzavatchan@eqt.com



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 8th day of April, 2020.
Olivia Pishioneri Notary Public
My Commission Expires October 25, 2023

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APR 10 2020
WV Department of
Environmental Protection

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'



LEGEND

- Red Symbol - Declined Sampling
- Blue Symbol - Requested Sampling / Unable to Contact
- Access Road
- ⊕ Well
- ⊙ Spring
- ▲ Pond
- 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

APR 10 2020
 WV Department of Environmental Protection

**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:** 04/08/2020

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: West Virginia UTM NAD 83 Easting: 536555.62
County: Wetzel Northing: 4391211.19
District: Center Public Road Access: CR 7/6
Quadrangle: Littleton Generally used farm name: Howard W. Henderson
Watershed: Tributary of Bear Run

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: 724-743-4681

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

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Office of Oil and Gas
APR 10 2020

WV Department of
Environmental Protection

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

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

Date of Notice: 04/08/2020 **Date Permit Application Filed:** 04/08/2020

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

- CERTIFIED MAIL HAND
- RETURN RECEIPT REQUESTED DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: <u>Howard M. Henderson</u>	Name: _____
Address: <u>4721 Low Gap Run Road</u>	Address: _____
<u>Littleton, WV 26581</u>	_____

Notice is hereby given:

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

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>536555.62</u>
County: <u>Wetzel</u>		Northing: <u>4391211.19</u>
District: <u>Center</u>	Public Road Access: <u>CR 8/7</u>	
Quadrangle: <u>Littleton</u>	Generally used farm name: <u>Harold M. Henderson</u>	
Watershed: <u>Tributary of Bear Run</u>		

This Notice Shall Include:

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

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

Oil and Gas Privacy Notice:

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

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Office of Oil and Gas
APR 10 2020
WV Department of
Environmental Protection



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 9H

Prine 5H
 Prine 11H

Prine 7H
 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

Cc: John Zavatchan
 EQT Production Company
 CH, OM, D-6
 File

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APR 10 2020

WV Department of
 Environmental Protection

4710303343

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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APR 10 2020
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Environmental Protection

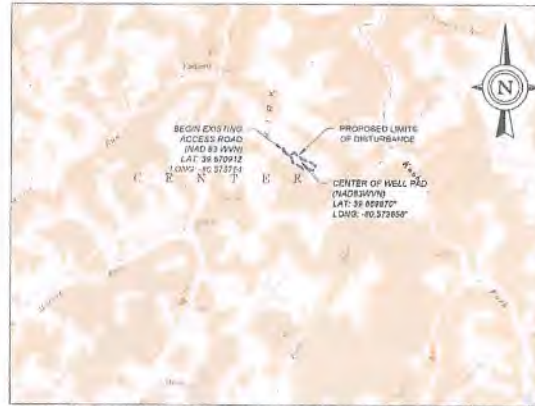
ASSIGNED WELL ID	API #	LAT(NAD83)	LONG(WAD83)	NORTHING(NAD83)	EASTING(EAD83)	NORTHING(NAD83)	EASTING(EAD83)	NORTHING(NAD83)	EASTING(EAD83)	NORTHING(NAD83)	EASTING(EAD83)
111	87 0942517	39° 40' 11.5322"	80° 34' 25.1831"	427891.244	168622.642	427891.244	167721.131	427891.244	167721.131	427891.244	167721.131
124		39° 40' 11.7591"	80° 34' 25.4207"	427891.244	168622.642	427891.244	167721.131	427891.244	167721.131	427891.244	167721.131
114		39° 40' 11.6924	80° 34' 25.4207"	427891.244	168622.642	427891.244	167721.131	427891.244	167721.131	427891.244	167721.131
50		39° 40' 11.61205	80° 34' 25.3756"	427891.244	168622.642	427891.244	167721.131	427891.244	167721.131	427891.244	167721.131
74		39° 40' 11.45439	80° 34' 25.0036"	427891.244	168622.642	427891.244	167721.131	427891.244	167721.131	427891.244	167721.131
54		39° 40' 11.37536	80° 34' 24.8346"	427891.244	168622.642	427891.244	167721.131	427891.244	167721.131	427891.244	167721.131
34		39° 40' 11.22677	80° 34' 24.67593"	427891.244	168622.642	427891.244	167721.131	427891.244	167721.131	427891.244	167721.131

EROSION & SEDIMENT CONTROL PLAN

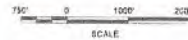
APPROVED
WVDEP OOG
4/28/20

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

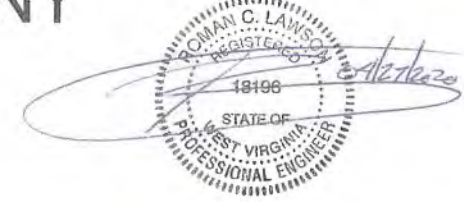


REFERENCE: UNITED STATES GEOLOGICAL SURVEY - LITTLETON QUADRANGLE, WV, 7.5 MINUTE SERIES



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

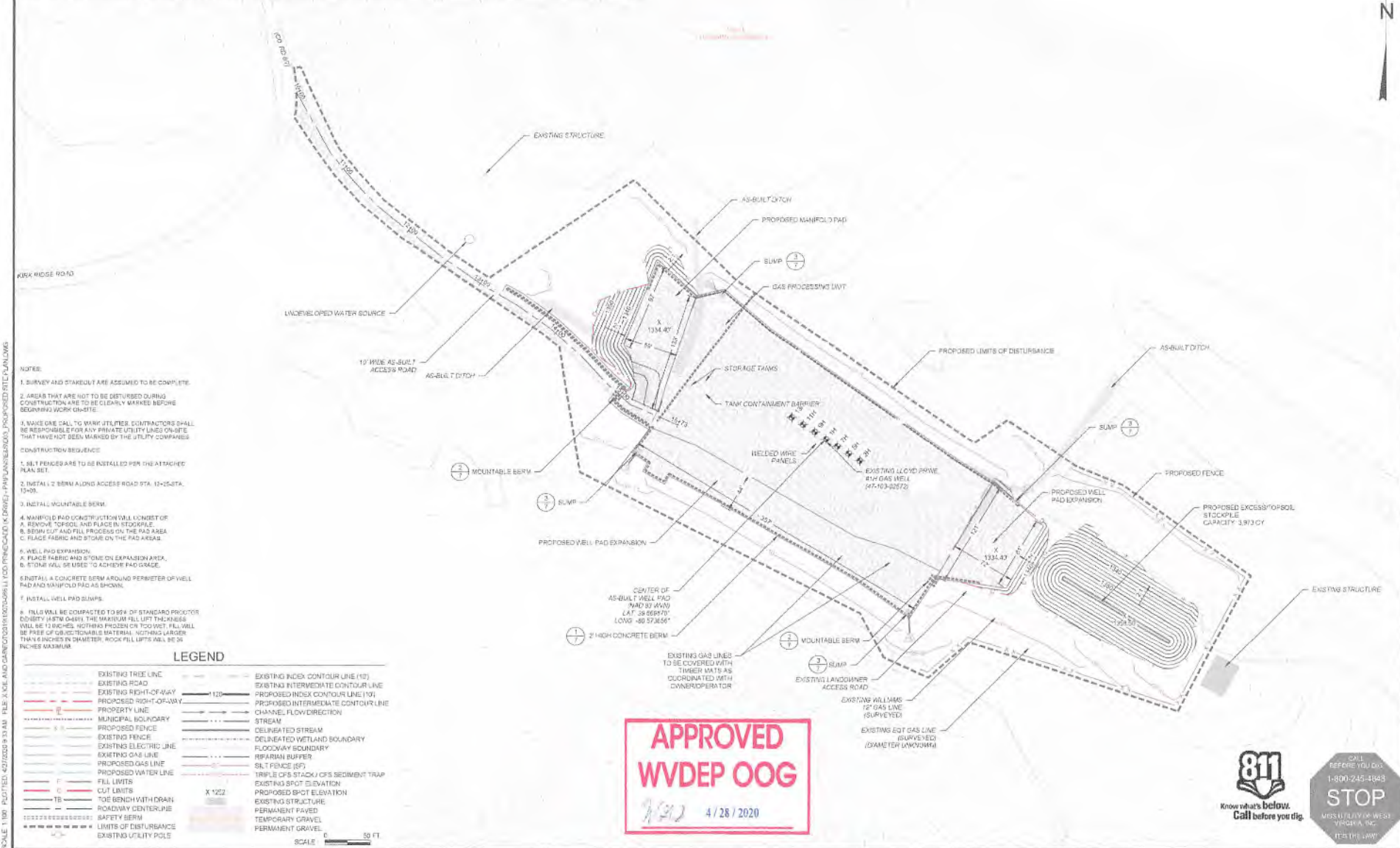


PROJECT: LLOYD PRINE WELL SITE
OWNER: EQT PRODUCTION COMPANY
LOCATION: CENTER DISTRICT, WETZEL COUNTY, WEST VIRGINIA

TMR DRAWN
BLS CHECKED
RCL APPROVAL
JAN 2020 DATE
19070-088 PROJECT NO.
DIEFFENBAUCH & HRITZ, LLC
1000 Oregon Road, Suite 500
Wetzel County, West Virginia 26062
P. 304.923.3828 F. 304.923.2727

CLAY
EQT PRODUCTION COMPANY
TITLE SHEET
1

WELL LOCATIONS									
ASSIGNED WELL ID	API #	LAT (NAD83)	LONG (NAD83)	NORTHING (NAD83)	EASTING (NAD83)	NORTHING (NAD83)	EASTING (NAD83)	NORTHING (NAD83)	EASTING (NAD83)
3H	47-104-02372	39° 47' 11.53332"	80° 34' 22.35333"	427907.154	1666282.642	427899.687	1667200.199	4191203.942	536997.267
13H		39° 47' 11.78971"	80° 34' 22.05277"	427901.036	1666284.620	427894.070	1667082.376	4191211.187	536990.620
13H		39° 47' 11.69039"	80° 34' 22.46827"	427923.409	1666237.427	427885.942	1667604.984	4191208.776	536928.928
9H		39° 47' 11.62267"	80° 34' 22.37367"	427913.261	1666233.028	427877.214	1667207.291	4191206.164	536969.184
7H		39° 47' 11.45439"	80° 34' 22.00089"	427899.037	1666229.243	427883.359	1667732.806	4191203.543	536971.143
3H		39° 47' 11.37210"	80° 34' 24.81840"	427890.899	1666307.637	427884.482	1667745.414	4191199.129	536975.031
3H		39° 47' 11.29078"	80° 34' 24.67297"	427882.772	1666320.464	427845.304	1667738.021	4191196.736	536978.913



- NOTES:
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 WAP, UTILITIES, CONTRACTORS SHALL BE RESPONSIBLE FOR ANY PRIVATE UTILITY LINES ON-SITE THAT HAVE NOT BEEN MARKED BY THE UTILITY COMPANIES.
- CONSTRUCTION SEQUENCE:
1. SALT FENCES ARE TO BE INSTALLED PER THE ATTACHED PLAN SET.
 2. INSTALL 2' BERM ALONG ACCESS ROAD STA. 13+25.25 TO 13+00.
 3. INSTALL MOUNTABLE BERM.
 4. MANHOLE 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 MANHOLE 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 HIGH AND PROCEED ON TO NEXT FILL WILL BE FREE OF OBJECTS/DEBRIS MATERIAL WITHIN 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 INDEX CONTOUR LINE (10')
—●—●—●—	PROPOSED RIGHT-OF-WAY	—●—●—●—	PROPOSED INTERMEDIATE CONTOUR LINE
—●—●—●—	PROPERTY LINE	—●—●—●—	CHANNEL FLOW DIRECTION
—●—●—●—	MUNICIPAL BOUNDARY	—●—●—●—	STREAM
—●—●—●—	PROPOSED FENCE	—●—●—●—	DELEGATED STREAM
—●—●—●—	EXISTING FENCE	—●—●—●—	DELEGATED WETLAND BOUNDARY
—●—●—●—	EXISTING ELECTRIC LINE	—●—●—●—	FLOODWAY BOUNDARY
—●—●—●—	EXISTING GAS LINE	—●—●—●—	RIPARIAN BUFFER
—●—●—●—	PROPOSED GAS LINE	—●—●—●—	SALT FENCE (S/F)
—●—●—●—	PROPOSED WATER LINE	—●—●—●—	TRIPLE CR'S STACK/C'S SEDIMENT TRAP
—●—●—●—	FILL LIMITS	—●—●—●—	EXISTING SPOT ELEVATION
—●—●—●—	CUT LIMITS	—●—●—●—	PROPOSED SPOT ELEVATION
—●—●—●—	TOE BENCH WITH DRAIN	—●—●—●—	EXISTING STRUCTURE
—●—●—●—	ROADWAY CENTERLINE	—●—●—●—	PERMANENT PAVED
—●—●—●—	SAFETY BERM	—●—●—●—	TEMPORARY GRAVEL
—●—●—●—	LIMITS OF DISTURBANCE	—●—●—●—	PERMANENT GRAVEL
—●—●—●—	EXISTING UTILITY POLES		

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NO.	DATE	DESCRIPTION	
1	04/27/20	DESIGN/STAKEOUT RESPONSE	
TERR			
SPAWN			
EX.LB			
CHG.CTS			
CELL			
MPROJECT			
JAN 2020			
10270-028			
K08101.00			
PROJECT			
LLOYD PRIME WELL SITE			
CENTER DISTRICT			
WETZEL COUNTY, WEST VIRGINIA			
PROPOSED SITE PLAN			
3			

DIEFFENBAUGH & HERTZ, LLC
 1000 Charleston Road, Suite 200
 Charleston, WV 25301
 P: 304.336.0222 F: 304.336.0227

WELL LOCATIONS									
ASSIGNED WELL ID	API #	LAT(NAD83)	LOX(NAD83)	NORTHING(NAD83)	EASTING(NAD83)	NORTHING(NAD27)	EASTING(NAD27)	NORTHING(NAD 83 UTM METERS)	EASTING(NAD 83 UTM METERS)
1H	47-103-02572	39° 40' 11.53322"	80° 34' 25.16333"	427907.154	1666282.642	427869.687	1697720.199	4391203.952	536567.267
13H		39° 40' 11.76971"	80° 34' 25.65073"	427931.536	1666244.820	427894.070	1697682.376	4391211.187	536555.620
11H		39° 40' 11.69088"	80° 34' 25.48827"	427923.409	1666257.427	427885.942	1697694.984	4391208.776	536559.502
9H		39° 40' 11.61205"	80° 34' 25.32580"	427915.281	1666270.035	427877.814	1697707.591	4391206.364	536563.384
7H		39° 40' 11.45439"	80° 34' 25.00086"	427899.027	1666295.249	427861.559	1697732.806	4391201.540	536571.149
5H		39° 40' 11.37556"	80° 34' 24.83840"	427890.899	1666307.857	427853.432	1697745.414	4391199.128	536575.031
3H		39° 40' 11.29673"	80° 34' 24.67593"	427882.772	1666320.464	427845.304	1697758.021	4391196.716	536578.913

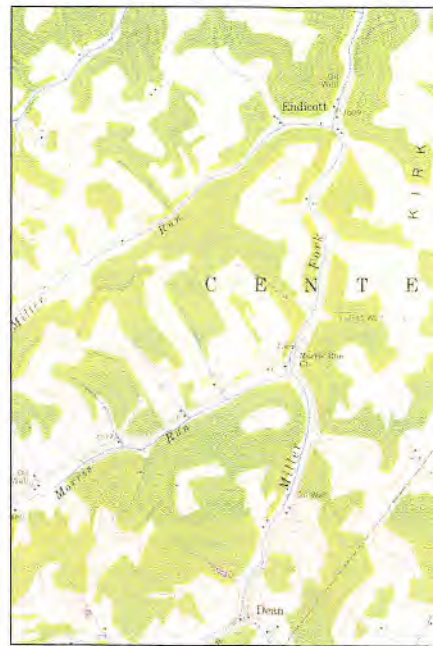
EROSION & SEDIMENTATION

LLOYD PRINCE

CENTER DISTRICT, WYOMING

FOR

EQT PRODUCT



REFERENCES: UNITED STATES GEOLOGICAL SURVEY - LITTLETON

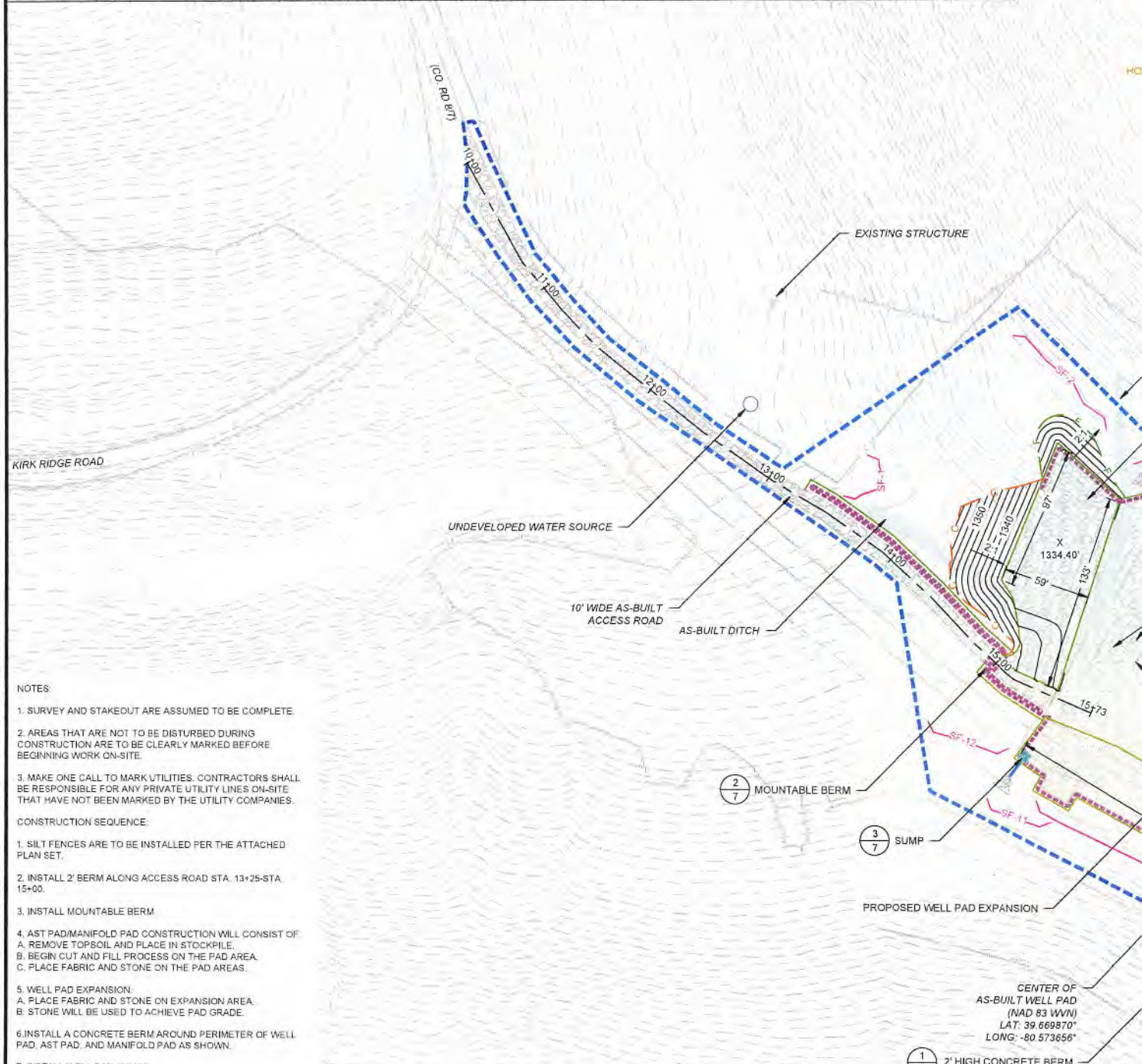


PROJECT NO.
JANUARY

DIEFFENBAUCH

WELL LOCATIONS

ASSIGNED WELL ID	API #	LAT(NAD83)	LOX(NAD83)	NORTHING(NAD83)	EASTING(NAD83)	NORTHING(NAD27)	EASTING(NAD27)	NORTHING(NAD 83 UTM METERS)	EASTING(NAD 83 UTM METERS)
1H	47-103-02572	39° 40' 11.53322"	80° 34' 25.16333"	427907.154	1666282.642	427869.687	1697720.199	4391203.952	536567.267
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NOTES

1. SURVEY AND STAKEDOUT 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. SILT FENCES ARE TO BE INSTALLED PER THE ATTACHED PLAN SET.
2. INSTALL 2' BERM ALONG ACCESS ROAD STA. 13+25-STA. 15+00.
3. INSTALL MOUNTABLE BERM
4. AST PAD/MANIFOLD PAD CONSTRUCTION WILL CONSIST OF:
 - A. REMOVE TOPSOIL AND PLACE IN STOCKPILE.
 - B. BEGIN CUT AND FILL PROCESS ON THE PAD AREA.
 - C. PLACE FABRIC AND STONE ON THE PAD AREAS.
5. WELL PAD EXPANSION:
 - A. PLACE FABRIC AND STONE ON EXPANSION AREA.
 - B. STONE WILL BE USED TO ACHIEVE PAD GRADE.
6. INSTALL A CONCRETE BERM AROUND PERIMETER OF WELL PAD, AST PAD, AND MANIFOLD PAD AS SHOWN.
7. INSTALL WELL PAD SUMPS.

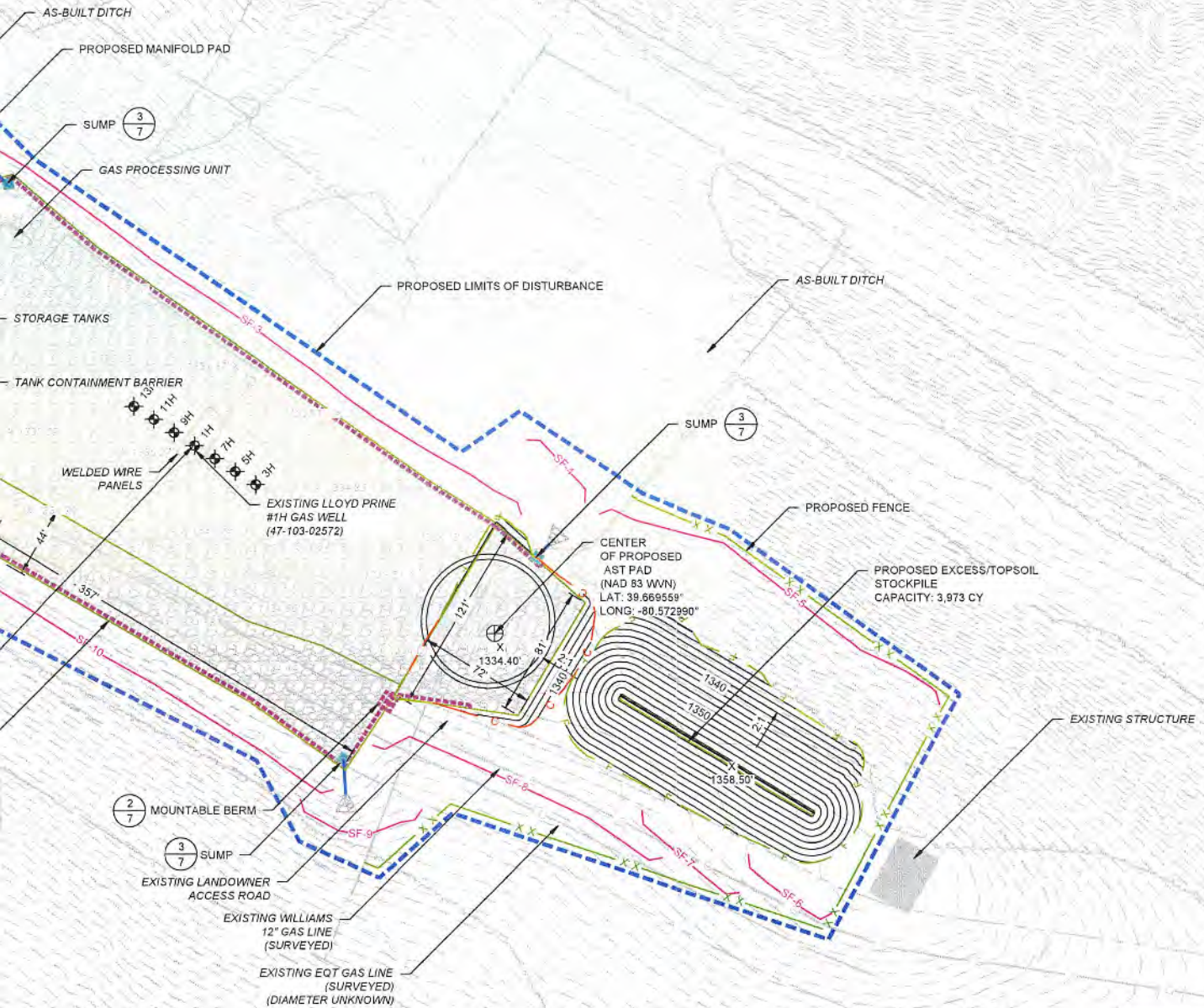
LEGEND

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

SCALE: 0 50 FT.

SCALE: 1:100 PLOTTED: 1/28/2020 9:10 AM FILE: X:OIL AND GAS/EQT/20191907D-088 LLYOD PRINECADD (K DRIVE) - PAIPLANS&S/D03_PROPOSED SITE PLAN.DWG

1-8-43
RD HENDERSON



DWH 4/7/20



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NO.	REVISION
	DATE
TMR DRAWN	
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JAN 2020	
DATE	
19070-088	
PROJECT NO.	
CLIENT EQT PRODUCTION COMPANY	
PROJECT LLOYD PRINE WELL SITE CENTER DISTRICT WETZEL COUNTY, WEST VIRGINIA	
TITLE PROPOSED SITE PLAN	
3	
DRAWING NO.	

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 www.dieffengr.com
 P: 304.985.5555 F: 304.985.5557