



west virginia department of environmental protection

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

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

Monday, August 29, 2022
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit Modification Approval for HAGGARD 8H
47-103-03430-00-00

Changed well name and modified lateral leg

EQT PRODUCTION COMPANY

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: HAGGARD 4H
Farm Name: AMIE LEE HENDERSON
U.S. WELL NUMBER: 47-103-03430-00-00
Horizontal 6A New Drill
Date Modification Issued: 8/29/22

Promoting a healthy environment.

09/02/2022

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: 8H Well Pad Name: Haggard

3) Farm Name/Surface Owner: Amie Lee Henderson Public Road Access: CR 8/2

4) Elevation, current ground: 1,512' Elevation, proposed post-construction: 1,512'

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

6) Existing Pad: Yes or No Yes - Currently Under Construction

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 7,618', 47', 2,620 psi

8) Proposed Total Vertical Depth: 7,618'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 10,336'

11) Proposed Horizontal Leg Length: 2,219'

12) Approximate Fresh Water Strata Depths: 443'

13) Method to Determine Fresh Water Depths: Offset wells: 47-103-02236, 47-103-02647

14) Approximate Saltwater Depths: No deep water shows listed in offsets

15) Approximate Coal Seam Depths: 1,317'-1,320'; 1,415'-1,420'

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

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

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

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18)

CASING AND TUBING PROGRAM

<u>TYPE</u>	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	26	New	A252 GR3	85.6	40	40	50 ft ³ / CTS
Fresh Water	13 3/8	New	J-55	54.5	1470	1470	1325 ft ³ / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2908	2908	1100 ft ³ / CTS
Production	6	New	P-110	24	10336	10336	500' above intermediate casing
Tubing							
Liners							

Kenneth Greynolds Digitally signed by Kenneth Greynolds
 DN: cn = Kenneth Greynolds email = Kenneth.L.Greynolds@wv.gov c = AD O = WVDEP OU = Oil and Gas
 Date: 2022.08.04 09:08:47 -0400

<u>TYPE</u>	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	26	30	0.312	1000	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A / Type 1	1.13 - 1.19
Coal							
Intermediate	9 5/8	12 3/8	0.352	3520	2816	Class A / Type 1	1.13 - 1.19
Production	5 1/2	8 1/2	0.400	14580	11664	Class A/H	1.04 - 2.10
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 15.24 acres

22) Area to be disturbed for well pad only, less access road (acres): 8.84 acres

23) Describe centralizer placement for each casing string:

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

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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.

*Note: Attach additional sheets as needed.

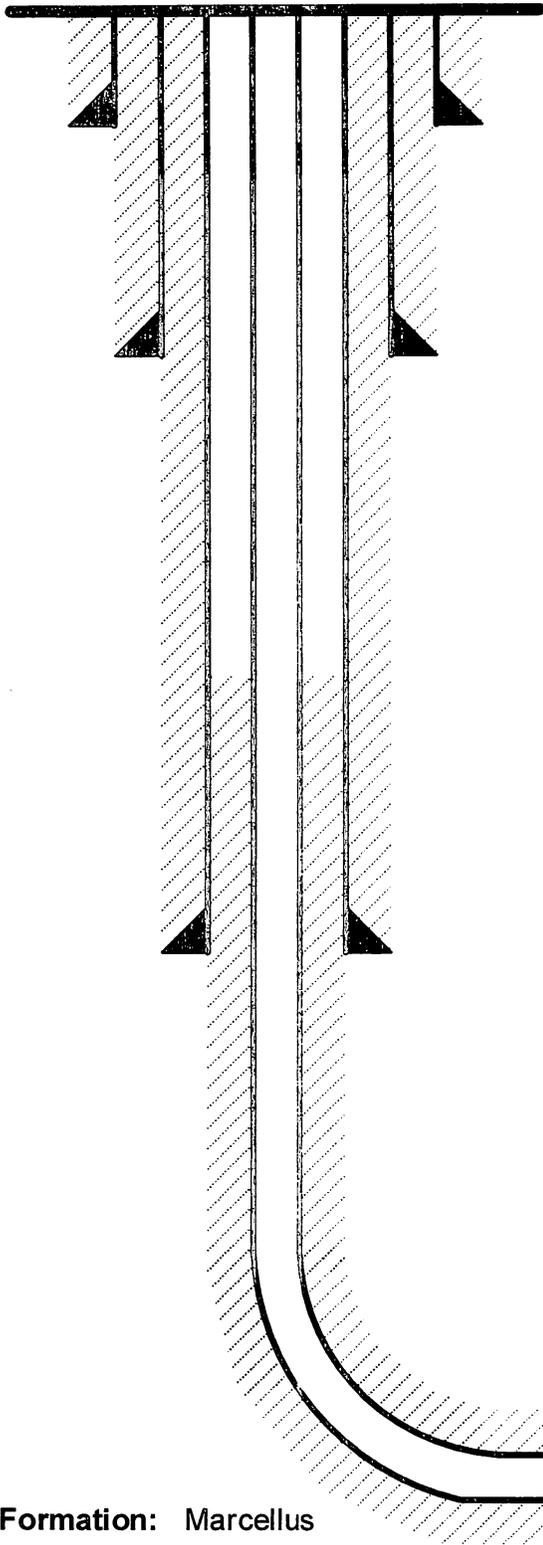
EQT Production

Wellbore Diagram

Well: Haggard 8H
Pad: Haggard
Elevation: 1512' GL 1525' KB

County: Wetzel
State: West Virginia

4710303430



Conductor @ 40'

26", 85.6#, A252 GR3, cement to surface w/ Class A

Surface @ 1,470'

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

Intermediate @ 2,908'

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

Production @ 10,336' MD / 7,618' TVD

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

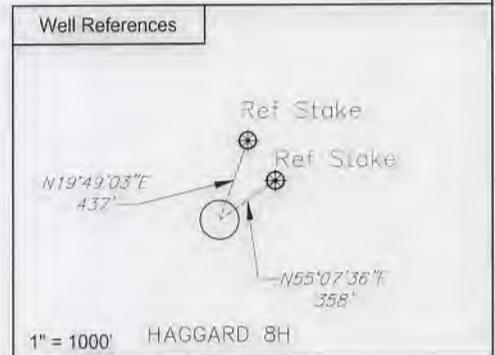
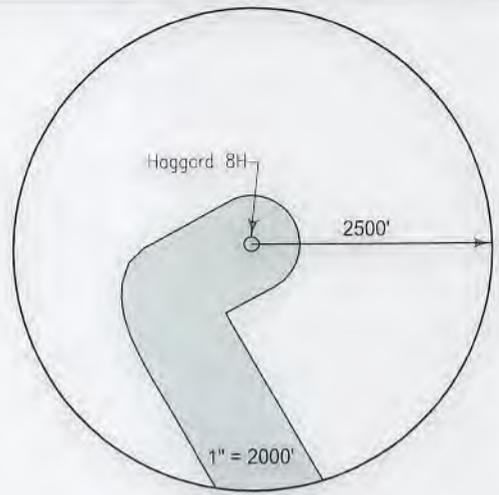
Formation: Marcellus

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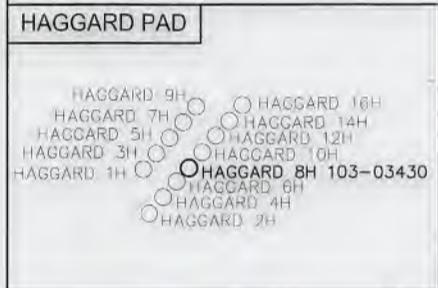
Haggard 8H
Haggard
EQT Production Company

Tract ID.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	10	36.0	Wetzel	Center	Amie Lee Henderson	45.50
2	10	37.0	Wetzel	Center	Amie Lee Henderson	14.50
3	10	52.0	Wetzel	Center	John G Miller ET AL	55.50
4	10	38.0	Wetzel	Center	Rusty Lee Morris	43.92
5	10	38.1	Wetzel	Center	David A & Mary A Morris	2.08
6	10	52.2	Wetzel	Center	John G Miller	3.02

Lease	Owner	Acres
186297001	Earnest Howard Cadle, et al.	95
110271016	Vivian Rine, a/k/a Vivian L. Rine, et al.	95.7
131545001	John G. Miller, et al.	55.495



Notes:
HAGGARD 8H coordinates are
NAD 27 N: 422,366.002 E: 1,684,574.817
NAD 27 Lat: 39.654239 Long: -80.620300
NAD 83 UTM N: 4,389,460.196 E: 532,590.256
HAGGARD 8H Landing Point coordinates are
NAD 27 N: 421,295.618 E: 1,683,929.416
NAD 27 Lat: 39.651278 Long: -80.622544
NAD 83 UTM N: 4,389,130.803 E: 532,399.059
HAGGARD 8H Bottom Hole coordinates are
NAD 27 N: 419,376.334 E: 1,685,044.110
NAD 27 Lat: 39.646047 Long: -80.618501
NAD 83 UTM N: 4,388,551.753 E: 532,748.408
West Virginia Coordinates system of 1927 (North Zone)
based upon Differential GPS Measurements
Plat orientation, Corner and well ties are based upon
the grid north meridian
Well location references are based upon the grid north
meridian.
UTM coordinates are NAD83, Zone 17, Meters.



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

L. L. S.
L. L. S. 687



FILE NO: W2192 (BK 65-61)
DRAWING NO:
SCALE: 1" = 1000'
MINIMUM DEGREE OF ACCURACY:
1:2500
PROVEN SOURCE OF ELEVATION:
NGS CORS Station



DATE: AUGUST 3 20 22
OPERATORS WELL NO: Haggard 8H
API WELL NO: 103 - 03430
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION ELEVATION: 1512' WATERSHED: LOWER WEST VIRGINIA FORK FISH CREEK QUADRANGLE: LITTLETON
DISTRICT: Center COUNTY: Wetzel
SURFACE OWNER: Amie Lee Henderson ACREAGE: 45.5 ±
ROYALTY OWNER: Earnest Howard Cadle, et al. LEASE NO: 186297001 ACREAGE: 95 ±
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,618'
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C Mallow
ADDRESS: 400 Woodcliff Drive ADDRESS: 427 Midstate Drive
Canonsburg, PA 15317 Clarksburg, WV 26301

09/02/2022

Haggard 8H
Haggard
EQT Production Company



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

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

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



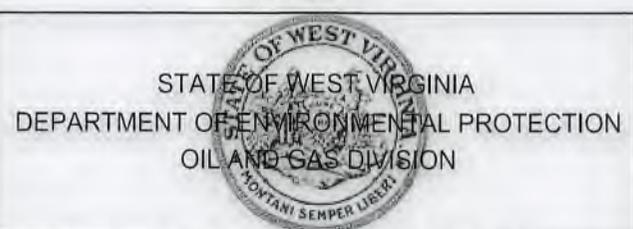
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Thomas C. Smit
L. L. S. 687



SEAL

FILE NO: W2175 (BK 59-37)
DRAWING NO:
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: AUGUST 3 20 22
OPERATORS WELL NO: Haggard 8H
API WELL NO: 47 - 103 - 03430
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION ELEVATION: 1512' WATERSHED: LOWER WEST VIRGINIA FORK FISH CREEK QUADRANGLE: LITTLETON
DISTRICT: Center COUNTY: Wetzel
SURFACE OWNER: Amie Lee Henderson ACREAGE: 45.5 ±
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 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,618'

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

**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
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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.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
<u>186297001</u>	<u>Earnest Howard Cadle, et al.</u> Earnest Howard Cadle, married dealing in his sole and separate property	95 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 273A/121
<u>110271016</u>	<u>Vivian Rine, a/k/a Vivian L. Rine, et al.</u> Vivian Rine, a/k/a Vivian L. Rine, a married woman dealing in her sole and separate property	95.7 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 183A/902
<u>131545001</u>	<u>John G. Miller, et al.</u> John G. Miller, married man dealing in his sole and separate property	55.495 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 192A/811

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WW-6A1 attachment

Operator's Well No.

Haggard 8H Addendum

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
<u>131545002</u>	<u>John G. Miller, et al.</u> John G. Miller, married man dealing in his sole and separate property	3.025 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 192A/813 01-10-52.2

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4710303430

4710303430



1-10-52.2
Lease No
131545002

22'

HAGGARD 8H

9'

1-10-52
Lease No
131545001

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DRAWING NO: 8H ADDENDUM
DRAWING NO:
SCALE: 1" = 100'
Date: AUGUST 11, 2022
DRAWN BY: HB
SHEET 1

KEYSTONE
CONSULTANTS, LLC
32 East Main Street
Carnegie, PA 15106
412-278-2100

09/02/2022



4710303430

August 17, 2022

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

Re: Haggard 8H 6A1 Addendum

Dear Mr. Brewer,

This letter and supporting documentation serve as EQT Production Company's addendum to the WW-6A1 form associated with this well. The lease included on this addendum is a lease in which EQT "claims the right to extract, produce or market the oil or gas", but does not propose to encounter the lease with the proposed wellbore. EQT would like to report this lease as part of our Well Work Permit Application, as it is located within 50' of our proposed permitted wellbore.

If EQT does encounter this lease, an application for a permit modification will be filed with the West Virginia DEP, Office of Oil and Gas.

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
Project Specialist - Permitting

Enc.

09/02/2022

4710303430

EQT Production
Hydraulic Fracturing Monitoring Plan
Pad ID: Haggard
County: Wetzel

August 15, 2022

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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 Haggard pad: 2H, 4H, 6H, 8H, 10H, 12H, 14H and 16H.

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.

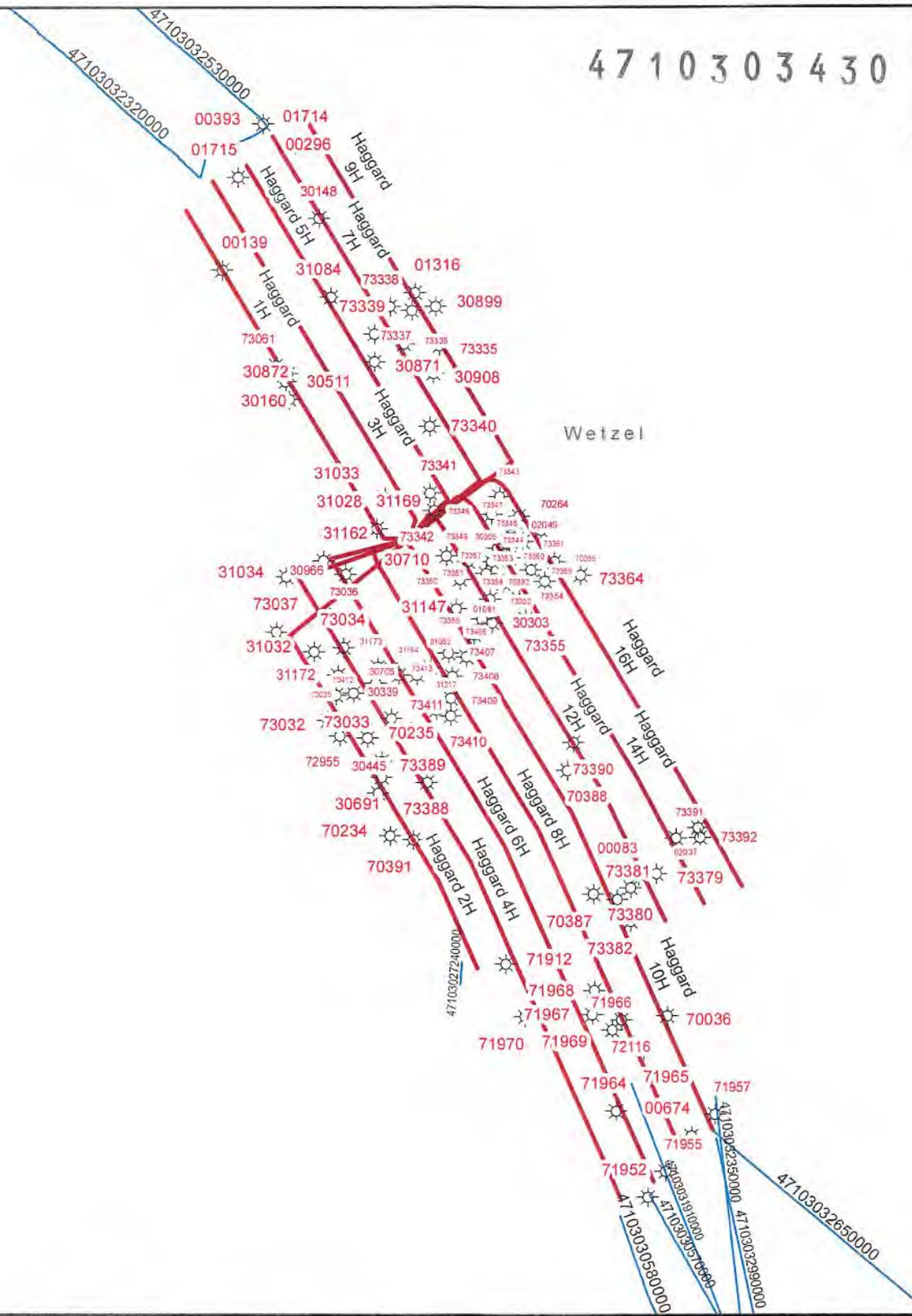
EQT will recommend to these operators at a minimum to:

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.

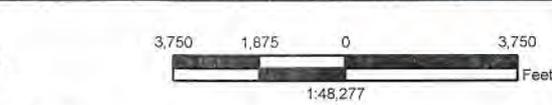
4710303430



EQT
EQT Corporation
625 Liberty Avenue
Pittsburgh, PA 15222

Haggard
Vertical Offsets and Foreign Laterals within 500'

- Legend**
- Foreign Offset Wells
 - 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.



09/02/2022

UWI	ACT_STATUS	CURR_OPER	FNL_CLASS	INIT_CLASS	LATITUDE	LONGITUDE	OPER_NAME	DATUM	ELEVATION	TOT_DEPTH	TVD
73343	Completed Wells	MANUFACTURERS LIGHT & HEAT	UNCLASSIFIED	UNCLASSIFIED	39.65737800	-80.61186000	MANUFACTURERS LIGHT & HEAT	NAD27	0.00	0.00	0.00
73411	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64010600	-80.62030500	UNKNOWN	NAD27	0.00	0.00	0.00
71952	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.60569700	-80.59794600	UNKNOWN	NAD27	0.00	0.00	0.00
73406	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.61562200	-80.61505000	UNKNOWN	NAD27	0.00	0.00	0.00
73338	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.67146800	-80.62218200	UNKNOWN	NAD27	0.00	0.00	0.00
73336	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65687100	-80.62086800	UNKNOWN	NAD27	0.00	0.00	0.00
73348	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65360400	-80.61204800	UNKNOWN	NAD27	0.00	0.00	0.00
71966	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.61803300	-80.60131800	UNKNOWN	NAD27	0.00	0.00	0.00
73358	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65287800	-80.61148500	UNKNOWN	NAD27	0.00	0.00	0.00
73353	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65099200	-80.61148500	UNKNOWN	NAD27	0.00	0.00	0.00
73061	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.66711400	-80.63307000	UNKNOWN	NAD27	0.00	0.00	0.00
73349	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65258800	-80.61486300	UNKNOWN	NAD27	0.00	0.00	0.00
73381	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.62762400	-80.60078700	UNKNOWN	NAD27	0.00	0.00	0.00
73359	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65200800	-80.60885700	UNKNOWN	NAD27	0.00	0.00	0.00
70387	Completed Wells	SOUTH PENN OIL	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.62806000	-80.60303900	SOUTH PENN OIL	NAD27	0.00	0.00	0.00
73354	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64983100	-80.60998300	UNKNOWN	NAD27	0.00	0.00	0.00
70234	Completed Wells	SOUTH PENN OIL	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.63241400	-80.62237000	SOUTH PENN OIL	NAD27	0.00	0.00	0.00
31172	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64431500	-80.62724900	UNKNOWN	NAD27	0.00	0.00	0.00
73355	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED	39.64837900	-80.60942000	HOPE NATURAL GAS	NAD27	0.00	0.00	0.00
73346	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65607200	-80.61261100	UNKNOWN	NAD27	0.00	0.00	0.00
73341	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65766800	-80.61842900	UNKNOWN	NAD27	0.00	0.00	0.00
71968	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.62093600	-80.60300400	UNKNOWN	NAD27	0.00	0.00	0.00
73350	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65128200	-80.61561300	UNKNOWN	NAD27	0.00	0.00	0.00
73357	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65316900	-80.61148500	UNKNOWN	NAD27	0.00	0.00	0.00
73339	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.66943600	-80.62368300	UNKNOWN	NAD27	0.00	0.00	0.00
71970	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.61904900	-80.60956100	UNKNOWN	NAD27	0.00	0.00	0.00
73379	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.62951100	-80.59703400	UNKNOWN	NAD27	0.00	0.00	0.00
31164	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64431500	-80.62143100	UNKNOWN	NAD27	0.00	0.00	0.00
73391	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.63212400	-80.59515700	UNKNOWN	NAD27	0.00	0.00	0.00
72955	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.63981600	-80.62706400	UNKNOWN	NAD27	0.00	0.00	0.00
73351	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65171700	-80.61317400	UNKNOWN	NAD27	0.00	0.00	0.00
73325	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64854900	-80.60854900	UNKNOWN	NAD27	0.00	0.00	0.00
73247	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65491000	-80.61148500	UNKNOWN	NAD27	0.00	0.00	0.00
71969	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.61919400	-80.60675100	UNKNOWN	NAD27	0.00	0.00	0.00
73352	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64983100	-80.61279800	UNKNOWN	NAD27	0.00	0.00	0.00
73392	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.63212400	-80.59290500	UNKNOWN	NAD27	0.00	0.00	0.00
70391	Completed Wells	SOUTH PENN OIL	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.63212400	-80.62011800	SOUTH PENN OIL	NAD27	0.00	0.00	0.00
73389	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.63792900	-80.62312000	UNKNOWN	NAD27	0.00	0.00	0.00
73388	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.63633300	-80.61880400	UNKNOWN	NAD27	0.00	0.00	0.00
71967	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.61919400	-80.60319100	UNKNOWN	NAD27	0.00	0.00	0.00
31169	Completed Wells	CASSADY WILLIAM	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.65505600	-80.62349600	CASSADY WILLIAM	NAD27	0.00	0.00	0.00
73337	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.67117800	-80.62011800	UNKNOWN	NAD27	0.00	0.00	0.00
73364	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65157200	-80.60416500	UNKNOWN	NAD27	0.00	0.00	0.00
73340	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.66260300	-80.61842900	UNKNOWN	NAD27	0.00	0.00	0.00
73390	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.63923500	-80.60491600	UNKNOWN	NAD27	0.00	0.00	0.00
31173	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64489600	-80.62349600	UNKNOWN	NAD27	0.00	0.00	0.00
73036	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64852400	-80.62800300	UNKNOWN	NAD27	0.00	0.00	0.00
73412	Completed Wells	SOUTH PENN OIL	UNCLASSIFIED	UNCLASSIFIED	39.64373500	-80.62368300	SOUTH PENN OIL	NAD27	0.00	0.00	0.00
73344	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65592600	-80.60998300	UNKNOWN	NAD27	0.00	0.00	0.00
30871	Completed Wells	QUAKER STATE OIL REFINING CORP	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.66740400	-80.62368300	QUAKER STATE OIL REFINING CORP	NAD27	0.00	0.00	0.00
73382	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.62602800	-80.59947300	UNKNOWN	NAD27	0.00	0.00	0.00
73407	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64591200	-80.61673900	UNKNOWN	NAD27	0.00	0.00	0.00
71912	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.62296800	-80.61143400	UNKNOWN	NAD27	0.00	0.00	0.00
73409	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64257400	-80.61655200	UNKNOWN	NAD27	0.00	0.00	0.00
71964	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.61208300	-80.60094300	UNKNOWN	NAD27	0.00	0.00	0.00
31162	Completed Wells	CASSADY WILLIAM	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.65273300	-80.62856300	CASSADY WILLIAM	NAD27	0.00	0.00	0.00
73410	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64126700	-80.61655200	UNKNOWN	NAD27	0.00	0.00	0.00
30305	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65258800	-80.61261100	UNKNOWN	NAD27	0.00	0.00	0.00
71957	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.61179200	-80.59157600	UNKNOWN	NAD27	0.00	0.00	0.00
73033	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64286400	-80.62744000	UNKNOWN	NAD27	0.00	0.00	0.00
73032	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64097700	-80.62819000	UNKNOWN	NAD27	0.00	0.00	0.00
70392	Completed Wells	SOUTH PENN OIL	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.65287800	-80.61092200	SOUTH PENN OIL	NAD27	0.00	0.00	0.00
73413	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64475100	-80.62218200	UNKNOWN	NAD27	0.00	0.00	0.00
73342	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65636200	-80.61805300	UNKNOWN	NAD27	0.00	0.00	0.00
73088	Completed Wells	SOUTH PENN OIL	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.63720300	-80.60547900	SOUTH PENN OIL	NAD27	0.00	0.00	0.00
73360	Completed Wells	MANUFACTURERS LIGHT & HEAT	UNCLASSIFIED	UNCLASSIFIED	39.65113700	-80.60754300	MANUFACTURERS LIGHT & HEAT	NAD27	0.00	0.00	0.00
73380	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.62849500	-80.59947300	UNKNOWN	NAD27	0.00	0.00	0.00
73035	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64300900	-80.62575100	UNKNOWN	NAD27	0.00	0.00	0.00
71955	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.60758300	-80.59626000	UNKNOWN	NAD27	0.00	0.00	0.00
70265	Completed Wells	SOUTH PENN OIL	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.62558600	-80.60660500	SOUTH PENN OIL	NAD27	0.00	0.00	0.00
72116	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.61875900	-80.60038100	UNKNOWN	NAD27	0.00	0.00	0.00
73037	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64750800	-80.63307000	UNKNOWN	NAD27	0.00	0.00	0.00
73361	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65404000	-80.60960800	UNKNOWN	NAD27	0.00	0.00	0.00
00083	Completed Wells	UNKNOWN	DEVELOPMENT WELL-DRY (INCLUDING TEMPORARILY ABANDONED WELL)	DEVELOPMENT WELL	39.62936600	-80.59872300	UNKNOWN	NAD27	1060.00	2984.00	0.00
70036	Completed Wells	SOUTH PENN OIL	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.61904900	-80.59607200	SOUTH PENN OIL	NAD27	1555.00	3392.00	0.00
73408	Completed Wells	MANUFACTURERS LIGHT & HEAT	UNCLASSIFIED	UNCLASSIFIED	39.64417000	-80.61636400	MANUFACTURERS LIGHT & HEAT	NAD27	0.00	0.00	0.00
31033	Completed Wells	MOSES WILLIAM	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.65708800	-80.62612300	MOSES WILLIAM	NAD27	1167.00	3134.00	0.00
30899	Completed Wells	QUAKER STATE OIL REFINING CORP	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.67146800	-80.61786600	QUAKER STATE OIL REFINING CORP	NAD27	1251.00	3247.00	0.00
31084	Completed Wells	UNKNOWN	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.67220600	-80.62781200	UNKNOWN	NAD27	1310.00	3125.00	0.00
31034	Completed Wells	MOSES WILLIAM	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.65157200	-80.63212900	MOSES WILLIAM	NAD27	1326.00	3306.00	0.00
70235	Completed Wells	SOUTH PENN OIL	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.63967100	-80.62443400	SOUTH PENN OIL	NAD27	0.00	0.00	0.00
02049	Completed Wells/AHCS	DIVERSIFIED PRODUCTION LLC	SUCCESSFUL OUTPOST EXTENSION	WILDCAT OUTPOST	39.65506460	-80.61073790	DAC CORP	NAD27	1162.00	3588.00	0.00
02037	Completed Wells/AHCS	ALLIANCE PETROLEUM CO LLC	NEW FIELD WILDCAT-DISCOVERY	NEW FIELD WILDCAT	39.63285810	-80.59309550	DAC CORP	NAD27	1240.00	3434.00	0.00
30330	Completed Wells	SOUTH PENN OIL	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.64122000	-80.62218200	SOUTH PENN OIL	NAD27	1297.00	3260.00	0.00
00393	Completed Wells	UNKNOWN	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.63978900	-80.63493000	UNKNOWN	NAD27	1288.00	2360.00	0.00
01081	Completed Wells	HORNER OIL & GAS PRODUCTION INC	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.64721800	-80.61430000	PENNZOIL CO INC	NAD27	1518.00	3401.00	0.00
30148	Completed Wells	UNKNOWN	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.67799900	-80.62894100	UNKNOWN	NAD27	1360.00	3395.00	0.00
31217	Completed Wells	CASSADY WILLIAM	UNCLASSIFIED	UNCLASSIFIED	39.64170300	-80.61786600	CASSADY WILLIAM	NAD27	0.00	0.00	0.00
30705	Completed Wells	RANDALL-ZOGG SUPPLY	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.64431500	-80.61974200	RANDALL-ZOGG SUPPLY	NAD27	1392.00	3350.00	0.00
01714	Completed Wells	HORNER OIL & GAS PRODUCTION INC	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.68351500	-80.63119300	HORNER CHARLES	NAD27	1350.00	3280.00	0.00

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30511	Completed Wells	RAAD SUPPLY CO	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.66594100	-80.63212900	RAAD SUPPLY CO	NAD27	1213.00	3269.00	0.00
01316	Completed Wells/WHCS	HORNER OIL & GAS PRODUCTION INC	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.67248090	-80.61979700	CHASE PETROLEUM CO	NAD27	1138.00	4200.00	0.00
01715	Completed Wells	HORNER OIL & GAS PRODUCTION INC	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.68104700	-80.63663600	HORNER CHARLES	NAD27	1380.00	3401.00	0.00
31147	Completed Wells	QUAKER STATE OIL REFINING CORP	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.64910500	-80.61598900	QUAKER STATE OIL REFINING CORP	NAD27	1468.00	3407.00	0.00
30303	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64808900	-80.61261100	UNKNOWN	NAD27	0.00	0.00	0.00
30966	Completed Wells	QUAKER STATE OIL REFINING CORP	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.65171700	-80.62650100	QUAKER STATE OIL REFINING CORP	NAD27	0.00	3011.00	0.00
73956	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64837900	-80.61354900	UNKNOWN	NAD27	0.00	0.00	0.00
00296	Completed Wells	HORNER OIL & GAS PRODUCTION INC	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.68549500	-80.63094900	SOUTH PENN OIL	NAD27	1348.00	3600.00	0.00
31028	Completed Wells	HOPE NATURAL GAS	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.65737800	-80.62274500	HOPE NATURAL GAS	NAD27	1485.00	3453.00	0.00
30908	Completed Wells	QUAKER STATE OIL REFINING CORP	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.66652200	-80.61805300	QUAKER STATE OIL REFINING CORP	NAD27	0.00	3286.00	0.00
30872	Completed Wells	QUAKER STATE OIL REFINING CORP	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.66463500	-80.63175400	QUAKER STATE OIL REFINING CORP	NAD27	1311.00	3310.00	0.00
30710	Completed Wells	RANDALL ZOGG SUPPLY	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.65302400	-80.61692700	RANDALL-ZOGG SUPPLY	NAD27	1252.00	3190.00	0.00
71965	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.61658200	-80.59832000	UNKNOWN	NAD27	0.00	0.00	0.00
00139	Completed Wells	EAGON G F	DEVELOPMENT WELL- DRY (INCLUDING TEMPORARILY ABANDONED WELL)	DEVELOPMENT WELL	39.67422600	-80.63813700	EAGON G F	NAD27	626.00	3362.00	0.00
30445	Completed Wells	SOUTH PENN OIL	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.63560700	-80.62349600	SOUTH PENN OIL	NAD27	1345.00	3310.00	0.00
31032	Completed Wells	MOSES WILLIAM	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.64605700	-80.62950100	MOSES WILLIAM	NAD27	991.00	2975.00	0.00
30691	Completed Wells	RANDALL-ZOGG SUPPLY	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.63676800	-80.63120000	RANDALL-ZOGG SUPPLY	NAD27	1400.00	3359.00	0.00
30160	Completed Wells	SOUTH PENN OIL	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.66653300	-80.63194400	SOUTH PENN OIL	NAD27	1218.00	3195.00	0.00
73034	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64634700	-80.62668900	UNKNOWN	NAD27	0.00	0.00	0.00
01082	Completed Wells	HORNER OIL & GAS PRODUCTION INC	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.64489600	-80.61842900	SOUTH PENN OIL	NAD27	1575.00	3503.00	0.00
70264	Completed Wells	SOUTH PENN OIL	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.65491000	-80.60791900	SOUTH PENN OIL	NAD27	0.00	0.00	0.00
00674	Completed Wells	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.61019600	-80.59382400	CONSOLIDATED GAS SUPPLY CORP	NAD27	0.00	2989.00	0.00

Horizontals												
UWI	ACT_STATUS	CURR_OPER	FNL_CLASS	INIT_CLASS	LATITUDE	LONGITUDE	OPER_NAME	DATUM	ELEVATION	TOT_DEPTH	TVD	WELL_NAME
47103030570000	Completed Wells	EQT PRODUCTION CO	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.58256300	-80.58408500	EQT PRODUCTION CO	NAD27	834.00	15279.00	6903.00	WV 512915 BIG 177
47103030580000	Completed Wells	EQT PRODUCTION CO	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.58257200	-80.58415500	EQT PRODUCTION CO	NAD27	834.00	15667.00	6894.00	WV 512916 BIG 177
47103032530000	Completed Wells	SWN PRODUCTION CO LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.68258340	-80.63975910	SWN PRODUCTION CO LLC	NAD27	1370.00	29554.00	7108.00	405H SWN A WTZ
47103031910000	Drilling	EQT PRODUCTION CO		DEVELOPMENT WELL	39.58255800	-80.58405000	EQT PRODUCTION CO	NAD27	811.00	0.00	0.00	H15 BIG 177
47103032350000	Drilling	EQT PRODUCTION CO		DEVELOPMENT WELL	39.59517800	-80.58894600	EQT PRODUCTION CO	NAD27	1296.00	0.00	0.00	BIG245H16 ET BLUE GRASS LLC
47103027240000	Completed Wells	ASCENT RESOURCES-MARCELLUS LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.62138330	-80.61570830	HG ENERGY LLC	NAD27	939.00	3312.00	3150.00	306 CRANE 5 L
47103032650000	Permit	EQT PRODUCTION CO		DEVELOPMENT WELL	39.59533200	-80.56900100	EQT PRODUCTION CO	NAD27	1430.00	0.00	0.00	H4 BIG245
47103032990000	Drilling	EQT PRODUCTION CO		DEVELOPMENT WELL	39.58247300	-80.58404900	EQT PRODUCTION CO	NAD27	811.00	0.00	0.00	H7 BIG 177
47103032320000	Completed Wells	SWN PRODUCTION CO LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.68250840	-80.63981210	SWN PRODUCTION CO LLC	NAD27	1370.00	18720.00	7177.00	3H SWN A WTZ

4710303430