

# 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, October 31, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for Haggard 2H 47-103-03526-00-00

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

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

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

James A Martin

Operator's Well Number: Haggard 2H

Farm Name: Amie Lee Henderson

U.S. WELL NUMBER: 47-103-03526-00-00

Horizontal 6A New Drill Date Issued: 10/31/2022

PERMIT CONDITIONS

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

# CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed
- 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-Sa (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
- 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 sutitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of phugging, 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
- 6. Pursuant to the requirements pertaining to the sampling of demestic water cupply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and say
- 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
- 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 comenting process, in the event coment does not return to the surface, the oil and gas

4710303526

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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, censuled of drilling, completion of any other parallel well work, and completion of the well. Such notice shall be provided by sounding an email to DEPOOGNotify@wv.gov.

4710303526 API NO. 47-
OPERATOR WELL NO. 2H
Well Pad Name: Haggard

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

1) Well Operator: EQ	T Production Compar	ny 306686	Wetzel	Center	Littleton
		Operator ID	County	District	Quadrangle
2) Operator's Well Nun	nber: 2H	Well P	ad Name: Hag	ggard	
3) Farm Name/Surface	Owner: Amie Lee Hend	erson Public R	oad Access: C	R 8/2	
4) Elevation, current gro	ound: 1,512'	Elevation, propose	d post-constru	ction: 1,512	1
5) Well Type (a) Gas Other	X Oil	Un	derground Sto	rage	
(b)If Ga	as Shallow X	Deep			
	Horizontal X		-		
6) Existing Pad: Yes or		er Construction			
<ol> <li>Proposed Target Form Marcellus, 7,618', 47',</li> </ol>		ticipated Thickness	and Expected	Pressure(s):	
8) Proposed Total Vertic	cal Depth: 6,805'		-	RECEIVED	
9) Formation at Total V	ertical Depth: Elk /			ce of Oil and Go	
10) Proposed Total Mea	sured Depth: 7,526'	/	Д	UG 2 2 2022	
11) Proposed Horizonta	l Leg Length: 0'			V Department conmental Prot-	
12) Approximate Fresh	Water Strata Depths:	443'			
13) Method to Determin	ne Fresh Water Depths:	Offset wells: 47-10	3-02236, 47-10	3-02647	
14) Approximate Saltwa	ater Depths: No deep w	ater shows listed in of	fsets		
15) Approximate Coal S	Seam Depths: 1,317'-1,3	320'; 1,415'-1,420'			
16) Approximate Depth		No. of the second	75.65		
17) Does Proposed well directly overlying or adj			1	No X	
(a) If Yes, provide Mir	ne Info: Name:				
	Depth:			RECEIVED	
	Seam:		0	ffice of Oil and G	
	Owner:			AUG 2 2 202	22

WW-6B (04/15) API NO. 47-47 10 30 3 5 2 6

OPERATOR WELL NO. 2H
Well Pad Name: Haggard

18)

# CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A252 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	7526	7526	500' above intermediate casing
Tubing							
Liners			7				

Kenneth Greynolds (San Or + Narroth Comprision and + Narroth L. Compression (San Or + Narroth Co

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	0.312	1000	18	Class A/L	1.04 - 1.20
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A/L	1.04 - 1.20
Coal							
Intermediate	9 5/8	12 3/8	0.352	3520	2816	Class A/L	1.04 - 1.20
Production	6	8 1/2	0.400	14580	11664	Class A/H/L	1.04 - 2.10
Tubing							
Liners							

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WV Department of Environmental Protection

Kind:		
Sizes:		
Depths Set:		

4	7.	1	0	3	0	3	5	2	6
А	PIR	11 1	4/-			-			

OPERATOR WELL NO. 224
Well Pad Name: 1490094

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.

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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.

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

Conductor: Class A no additives

Surface: Calcium Chloride. Used to speed the setting of cement slurries Intermediate: Calcium Chloride. Used to speed the setting of cement slurries.

Production: Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder,

Anti-Settling/Suspension Agent

25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.

Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.

Production: Perform a cleanup cycle by pumping 3-8 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

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<sup>\*</sup>Note: Attach additional sheets as needed



west virginia department of environmental protection

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

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

Sincerely,

James Peterson

Environmental Resources Specialist / Permitting

Office of Oil and Gas

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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 "I" Cement
  - 5.20 % Water
- 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

AUG 2 2 2022

WV Department of Environmental Protection

James Martin, Chief Office of Oil and Gas

11/04/2022



EQT PRODUCTION COMPANY 400 Woodcliff Drive | Canonsburg, PA 15317

August 15, 2022

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

Re: Casing on Haggard 2H

Dear Mr. Brewer,

The 13-3/8" surface casing will be set at 1,470' KB, 50' below the deepest workable coal seam and 1,027' below the deepest fresh water. The 9-5/8" intermediate string will be set at 2,908' 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,

John Zavatchan

Project Specialist - Permitting

Enc.

Office of Oil and Gas

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

Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.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 LEGISLATIVE RULE 35CSR8, SECTION 9.2.H.2.	)	ORDER NO.	2016-20
RELATING TO THE CEMENTING OF OIL AND GAS WELLS	)		

# REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas, has reviewed the proposed use of the Lafarge OneCem cement blend (OneCem) on the coal, intermediate and production casing strings.

# FINDINGS OF FACT

- On July 24, 2015, EQT Production Company (EQT) submitted a variance request for the use of OneCem, from Legislative Rule 35CSR8, Section 9.2.h.2.
- Laboratory analysis submitted by EQT on July 24, 2015, indicate OneCem meets or exceeds all other specific requirements found in Legislative Rule 35CSR8, Section 9.2.h.
- On May 13, 2016, the Office of Oil and Gas provided public notice of acceptance of
  public comments on the variance request. During the 30-day public comment period, no
  comments were received.

# CONCLUSIONS OF LAW

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

Pursuant to Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of this rule.

## ORDER

It is ordered that the Lafarge OneCem cement blend, referenced in MSDS Version 1.0 issued on April 21, 2014, is approved for use on the coal, intermediate and production casing strings for well drilling subject to the provisions of Legislative Rule 35CSR8. This approval does not apply to cementing of freshwater casing strings.

Dated this, the 20th day of July, 2016.

# 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



EQT PRODUCTION COMPANY
400 Woodcliff Drive | Canonsburg, PA 15317

September 28, 2022

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

Re: Class L Cement Variance Request

Haggard 2H Well

Center District, Wetzel County

Dear Mr. Brewer.

EQT Production Company (EQT) has been notified by our cement providers that they will no longer be providing Class A cement. As a result of this, EQT is requesting the option to utilize Class L cement, if necessary, in place of Class A cement for its cement jobs.

The variance request from Legislative Rule 35CSR8, Section 9.2.h.8, related to the use of Class L Cement, was approved by the Office of Oil and Gas on September 13, 2022. A copy of the variance is included with this request.

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

Sincerely,

John Zavatchan

Project Specialist - Permitting

Enc.

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WV Department of Environmental Protection

# 710303526

#### WEST VIRGINIA GEOLOGICAL PROGNOSIS

Pad Name

Horizontal Well HAGGARD

LIT68

Drilling Objectives: Marcellus
Quad: Littleton

County: Wetzel

Elevation: 1525 KB
Recommended Azimuth Degrees

1512 GL

Recommended total wellbore length:

Proposed Logging Suite: -No Pilot Hole Needed

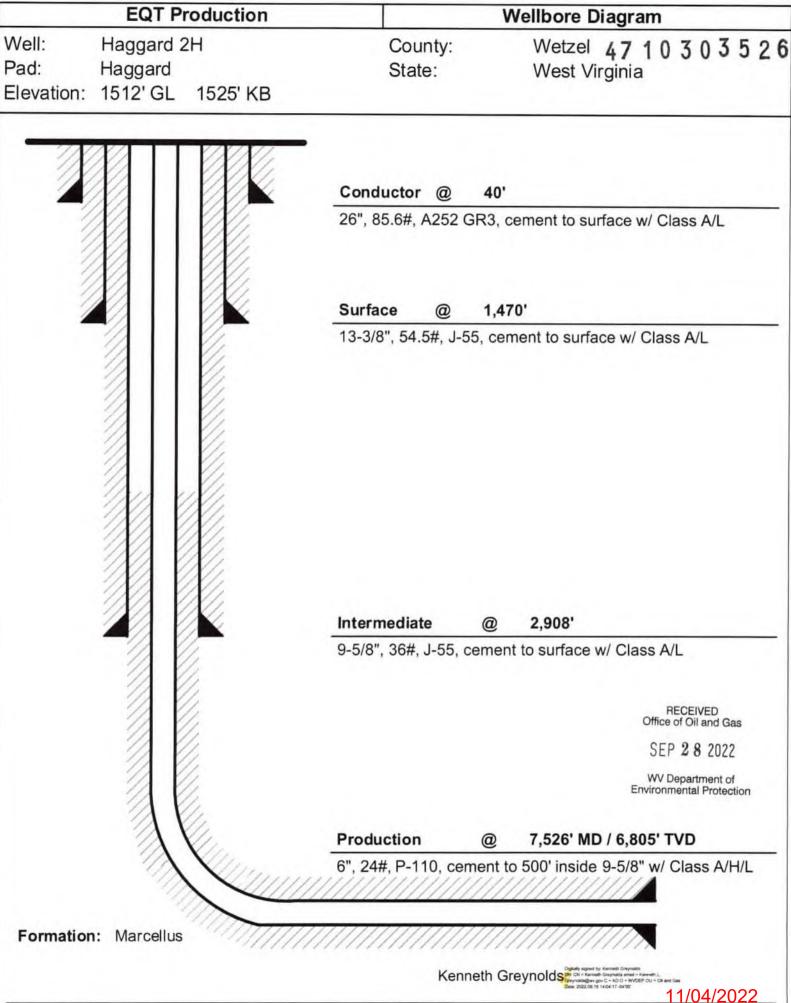
Coal requirements: Run a directional survey from the surface through the deepest coal seam

ESTIMATED FO	ORMATIC	OT NO	PS	4710302236	4710302647		
Formation				Top (TVD)	Base (TVD)		Comments
Fresh Water Zone				1	443		FW from offsets @ 443,
Sewickley Coal				1317	1320	Coal	RED ROCK SHOWS NOT LISTED IN OFFSETS
Pittsburgh Coal				1415	1420	Coal	No deep water shows listed in offsets
Big Injun				2733	2858	Sandstone	Hydrocarbon prod/show in offset @3170,3450,3603,3650,
Ir	nt. csg pt			2908			50 ft below Big Injun
Berea				3007	3248	Sandstone	and the same of th
Gantz				3366	3499	Silty sand	
Fifty foot				3521	3559	Silty sand	Outside of Storage Boundary
Thirty foot				3605	3626	Silty sand	oil shows in offsets, see depths above
Bayard				3673	3765	Sandstone	
Upper Speechley	m		Office of Oil and	4117	4178	Silty sand	
Speechley	3	77	=	4178	4262	Silty sand	
Balltown	35	AUG	OH	4262	4592	Silty sand	
Bradford	30	0	20	4592	5735	Silty sand	
Benson	60	10	Om	5735	6072	Silty sand	
Alexander	Tian and	5	m m	6072	6531	Silty sand	
Elk	PE	2 2022	1 30	6531	7222	Silty sand	
Sonyea	60	2	Gas	7222	7349	Gray shale	
Middlesex	00	7	S	7349	7383	Black Shale	
Genesee	5			7383	7450	Gray shale interbedded	
Geneseo	WV Department of Environmental Protection			7450	7479	Black Shale	
Tully				7479	7501	Limestone	
Hamilton				7501	7594	Gray shale with some	
Marcellus				7594	7641	Black Shale	
-Purcell				7614	7616	Limestone	
-Cherry Valley				7626		Limestone	
-Lateral Zone				761			
Onondaga				7641		Limestone	

#### Comments

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

RECOMMENDED CASING POINTS	2			Planned Depth	
Conductor:	CSG OD	24"	CSG DEPTH:	40	
Freshwater / Coal	CSG OD	13 3/8"	CSG DEPTH:	1470	50' below deepest mineable coal
Intermediate 1:	CSG OD	9 5/8"	CSG DEPTH:	2908	50' below Big Injun
Production:	CSG OD	5 1/2"	CSG DEPTH	(a) TD	22.514 (6.8.0)
				30 15	



NOT TO SCALE

1 Number 47 47 10 3 0 3 5 2 6

Operator's Well No. Haggard 2H

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

# FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_EQT Production Company OP Code 306686	
Watershed (HUC 10) Lower West Virginia Fork Fish Creek Quadrangle Littleton	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes	/ No
Will a pit be used? Yes No ✓	101
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 then prepared for transportation to an off-site disposal facility.	g fluid. The drill cuttings are
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See	e Attached
	Office of Oil and Gas
Additives to be used in drilling medium? See Attached	AUG 2 2 2022
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	Environmental Protection
-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 associate the Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permitten it was properly disposed.	ated waste rejected at any mittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL WATER Proposed on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Proprovisions of the permit are enforceable by law. Violations of any term or condition of the general polar or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the inapplication form and all attachments thereto and that, based on my inquiry of those individuals obtaining the information, I believe that the information is true, accurate, and complete. I am away penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature  Company Official Title  Project Specialist - Permitting	tection. I understand that the ermit and/or other applicable
Subscribed and sworn before me this 18th day of August . 2022	
Liberas XI	Commonwealth of Pennsylvania - Notary Sea
My commission expires March 9, 2024	Rebecca Shrum, Notary Public Beaver County My commission expires March 9, 2024 Commission number 1267706
	Member, Pennsylvania Age and Wetaries

#### WW-9 Attachment

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

 Air is used to drill the top-hole sections of the wellbore (surface, intermediate, and pilot). Water based mud may be necessary depending on hole conditions to stabilize and drill the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water based mud, or synthetic mud.

# Additives to be used in drilling medium?

- Air biodegradable oil lubricant, detergent, defoaming, water.
- Water based mud Barite, viscosifer, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates.
- Synthetic mud synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

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r			Production Water Pla						
Offsite Disposals for Unconventional Wells Facility Name Address Address 2 Little Seate 171-181-181-181-181-181-181-181-181-181-									
	Address	Address 2	City			Phone	County	State	Permit Number
WS Trucking Inc.	P.O. Box 391		Williamstown	WV	26187	740-516-3586	Noble	OH	3390
road Street Energy LLC	27.1/ P 151		<del></del>						<u> </u>
TOOK STREET ETIER BY LLC	37 West Broad Street	Suite 1100	Columbus	ОН	43215	740-516-5381	Washingotn	ОН	8462
AD Liquid Assets Disposal Inc.	226 Rankin Road		141		1	· <u>                                      </u>			
	ZEO RATIKIII NOSU	·-	Washington	PA	15301	724-350-2760	Ohio	WV	USEPA WV 0014
Triad Energy	PO Box 430		Reno	ОН	45773	740 546 5074	BI-LE.	-	
		<del></del>	neno	<del>                                      </del>	45773	740-516-6021 740-374-2940	Noble	ОН	4037
		-	<del></del>	<del>                                     </del>	<del> </del>	740-374-2540	<del>                                     </del>	<del> </del>	<u></u>
ri County Waste Water Management, Inc.	1487 Toms Run Road		Holbrook	PA	15341	724-627-7178	Greene	PA	TC-1009
		· · · · · · · · · · · · · · · · · · ·	<u> </u>	<del></del>	1	724-499-5647	CILLIC	<del> ' ^ </del>	10-1009
					1			<del>                                     </del>	
ing Excavating Co. Advance Waste Services	101 River Park Drive		New Castle	PA	16101	<u> </u>	Lawrence	PA	PAR000029132
Vaste Management - Meadowfill Landfill	Rt. 2, Box 68 Dawson Orive		Bridgeport	WV	16330	304-326-6027	Harrison	WV	SWF-1032-98
	<del></del>								Approval #100785WV
Vacta Managament - Northwestern Leadell	513 F. D. D. J.		<u> </u>		<u> </u>				
Vaste Management - Northwestern Landfill	512 E. Dry Road	<del></del>	Parkersburg	wv	26104	304-428-0602	Wood	W۷	SWF-1025 WV-0109400
APEX Landfill	11 County Road 78	PO Para EZ		<b>-</b>					
	11 County Road 78	PO Box 57	Amsterdam	ОН	43903	740-543-4389	Jefferson	ОН	06-08438
dvanced Disposal - Chestnut Valley Landfill	1184 McClellandtown Road	<del></del>	McClellandtown	<del> </del> -	15450	724 427 7246		<u> </u>	
	1104 Incerementation in read		Micciellandtown	PA	15458	724-437-7336	Fayette	PA	100419
Vestmoreland Sanitary Landfill	901 Tyrol Boulevard	<del></del>	Belle Vernon	PA	15012	724-929-7694	141		
		<del></del>	DEINE VEHION	rn	13012	724-929-7694	Westmoreland	PA	100277
ustin Master Services	801 North 1st Street		Martins Ferry	ОН	43935	740-609-3800	Relmont	OH:	2014-541
		·			17777	740-003-3800	DENTIONE		2014-541
Belmont Solids Control	77505 Cadiz-New Athers Road		Cadiz	ОН	43907	740-942-1739	Harrison	ОН	2015-511
									2013 322
Diversified Resources	3111 Braun Rd.		Belpre	ОН	45714	740-401-0413	Washington	ОН	
······································	<del> </del>		<u> </u>						
						740-610-1512			34-031-27177
tuokova Daina	33005 1/		Coshocton	ОН	43812	724-591-4393		он	34-031-27178
Buckeye Brine	23986 Airport Road			┵-		724-551-4353	Coshocton		34-031-27241
entral Environmental Services	120222 West Balan Office		- \ m	+				ļ <u>.</u>	
ential Environmental Services	28333 West Belpre Pike	<del></del>	Coolville	ОН	45723	304-488-0701	Athens	OH	
	10555 Veto Road		D-I		45.5				
luverra - Nichols	10333 VEIO NOAU		Beipre	OH	45714	330-232-5041	Washington	ОН	34-119-2-8776
uverra - Nichols				<b>_</b>	43767	330-232-5041	B. B b. C		
	9350 East Pike Road		Norwich	IOH			Miliskingum	ОН	34-167-2-3862
	9350 East Pike Road	<del>-</del>	Norwich	ОН	43707	330-232-3041			
luverra - Goff								OH	24 155 2 1002
luverra - Goff	9350 East Pike Road 5480 State Route 5		Newton Falls	ОН		330-232-5041		ОН	34-155-2-1893
uverra - Goff uverra - Wolf				ОН	44444	330-232-5041	Trumbull		
uverra - Goff uverra - Wolf uverra - Pander	5480 State Route 5		Newton Falls	ОН	44444		Trumbull	ОН	34-155-2-1893 34-155-2-3795
luverra - Nichols  luverra - Goff  luverra - Wolf  luverra - Pander  luverra - AnnaRock D-1  WV Capartmant of  VV Capartmant of	5480 State Route 5		Newton Falls	ОН	44444	330-232-5041 330-232-5041	Trumbull		

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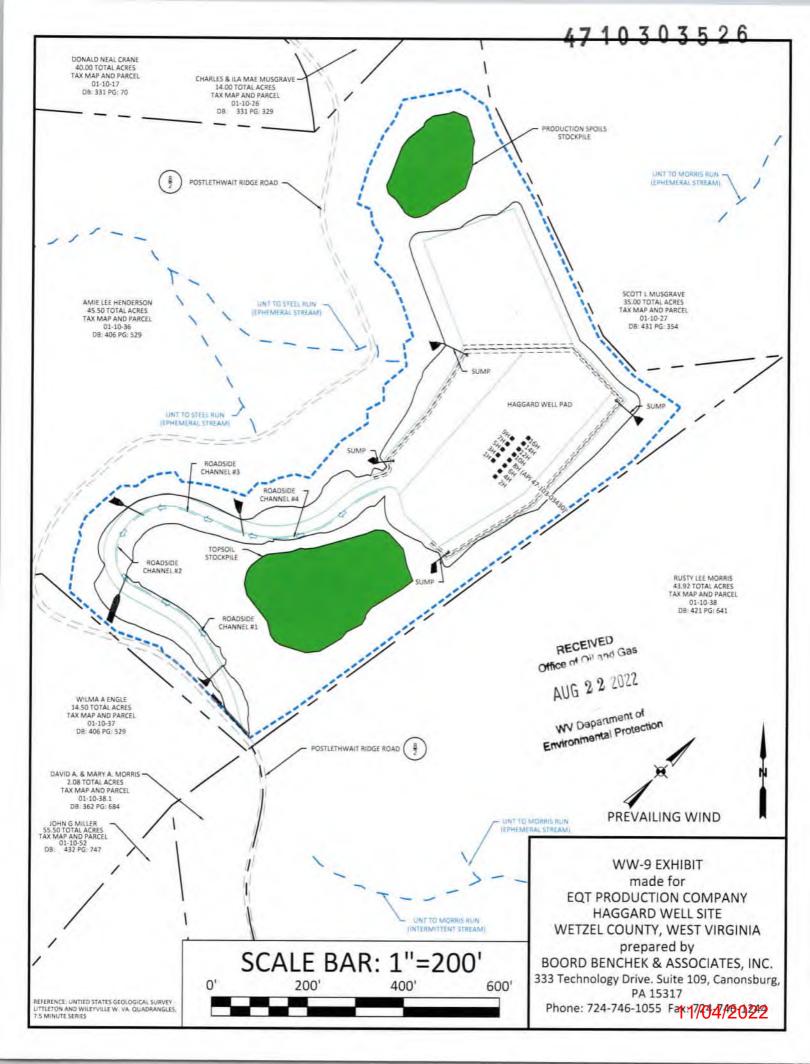
FQ Helen	199 Bowersock Road	Reno	ОН	45773	740-374-2940 412-443-4397 740-236-2135	Washington	ОН	34-167-2-9577
<del></del>				ļ	740-374-2940			0120723377
FQ Dexter	38505 Marietta Rd.	Dexter City	он	45727	412-443-4397 740-236-2135		ОН	34-121-24037 34-121-24086
FQ Ritchie	122 Lonesome Pine Rd	Ellenboro	wv	26346	740-374-2940 412-443-4397 740-236-2135	Ritchie	wv	47-085-09721
Q Mills	53610 TS Rd 706	Portland	ОН	45770	740-374-2940 412-443-4397 740-236-2135	Meigs	ОН	34-105-2-3619 34-105-2-3652 34-105-2-3637 34-105-2-3651
Petta Enterprises - OH	745 North 3rd Street	Cambridge	ОН	43725	614-477-1368	Guernsey	он	Ohio Chiefs Order 25-019
Petta Enterprises - WV	38 Technology Dr.	Tridelphia	wv	26059	740-255-5727	Ohio	wv	
Deep Rock Disposal	2341 OH-821	Marietta	ОН	45750	304-629-0176	Washington	ОН	34-167-2-9766

RECEIVED
Office of Oil and Gas

WV Department of Environmental Protection

Operator's Well No. Haggard 2H

Proposed Revegetation Trea	atment: Acres Disturbed	Prevegetation pl	
Lime 3	Tons/acre or to correct to		
Fertilizer type Gra	anular 10-20-20	_	
Fertilizer amount	500	_lbs/acre	
•		s/acre	
	<u>S</u>	eed <u>Mixtures</u>	
Te	emporary	Perma	nent
Seed Type <b>KY-31</b>	lbs/acre 40	Seed Type Orchard Grass	lbs/acre 15
Alsike Clover	5	Alsike Clover	
Annual Rye	15		
Maps(s) of road, location, pirrovided). If water from the creage, of the land application	on area	ication (unless engineered plans includ dimensions (L x W x D) of the pit, and	ing this info have been dimensions (L x W), and
creage, of the land application of involved by:  Kenn	on area  ved 7.5' topographic sheet.  peth Greynolds Optially somed by Kanner Greynolds Optial Chief Section (1993)	ication (unless engineered plans includ dimensions (L x W x D) of the pit, and the	ing this info have been dimensions (L x W), and
Maps(s) of road, location, pirovided). If water from the creage, of the land application of involvance section of involvance lan Approved by:    Comments: Pre-seed/I	on area  ved 7.5' topographic sheet.  peth Greynolds Of the Remed by Kanneth Greynolds Of the Remed Bryonol Garage Way of the Company of the	ication (unless engineered plans includ dimensions (L x W x D) of the pit, and Capture to Company t	ing this info have been dimensions (L x W), and
Maps(s) of road, location, pirovided). If water from the creage, of the land application of involvance section of involvance lan Approved by:    Comments: Pre-seed/I	on area  ved 7.5' topographic sheet.  peth Greynolds Of the Remed by Kanneth Greynolds Of the Remed Bryonol Garage Way of the Company of the	ication (unless engineered plans includ dimensions (L x W x D) of the pit, and the	ing this info have been dimensions (L x W), and
Maps(s) of road, location, pirovided). If water from the creage, of the land application of involvance section of involvance lan Approved by:    Comments: Pre-seed/I	on area  ved 7.5' topographic sheet.  peth Greynolds Of the Remed by Kanneth Greynolds Of the Remed Bryonol Garage Way of the Company of the	ication (unless engineered plans includ dimensions (L x W x D) of the pit, and Capture to Company t	ing this info have been dimensions (L x W), and
Maps(s) of road, location, pirovided). If water from the creage, of the land application of involvance section of involvance lan Approved by:    Comments: Pre-seed/I	on area  ved 7.5' topographic sheet.  peth Greynolds Of the Remed by Kanneth Greynolds Of the Remed Bryonol Garage Way of the Company of the	ication (unless engineered plans includ dimensions (L x W x D) of the pit, and Capture to Company t	ing this info have been dimensions (L x W), and



**EQT Production** 

Hydraulic Fracturing Monitoring Plan

Pad ID: Haggard

County: Wetzel

August 15, 2022

#### Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Wetzel County, WV prior to hydraulic fracturing at the following EQT wells on the 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**.

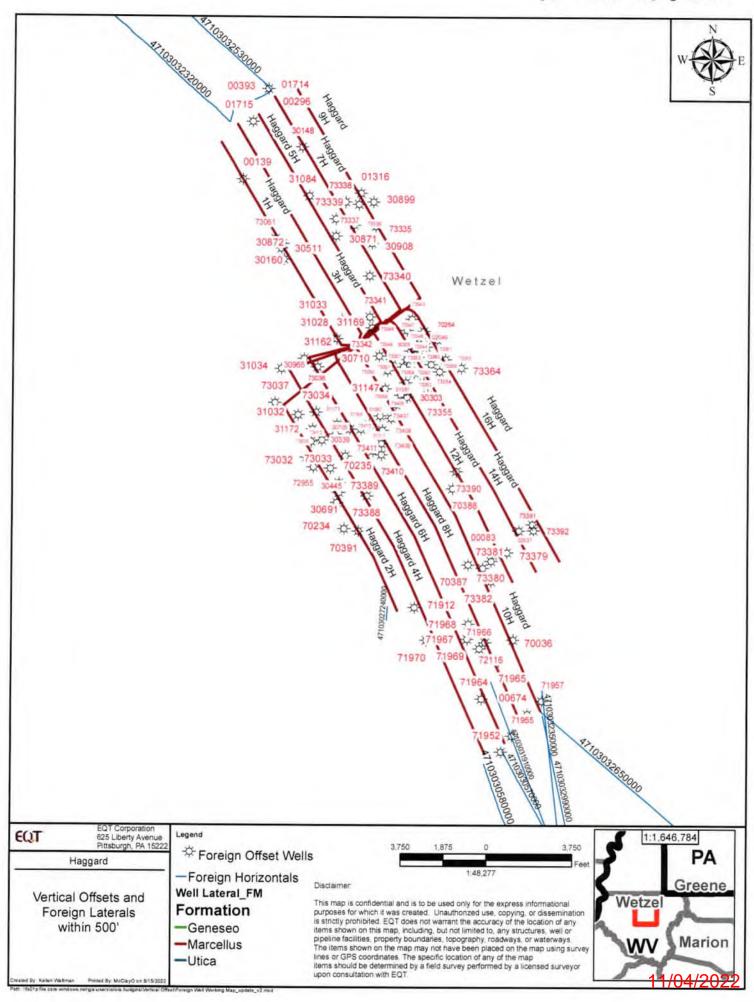
EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

EQT will recommend to these operators at a minimum to:

- Inspect their surface equipment prior to fracturing to establish integrity and establish prefrac well conditions
- Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- Inspect or install master valves or other necessary equipment for wellhead integrity capable
  of a pressure recommended by EQT
- 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.



OWI	ACT_STATUS	CURR OPER	FML CLASS	INIT_(LASS	CATITUDE 16	NGITUDE OPER NAME				
73343	Completed Wells	MANUFACTURERS LIGHT & HEAT	UNCLASSIFIED	UNCLASSIFIED	49 65737800	-80 61186000 MANUFACTURERS LIGHT & HEAT	NAD27	LEAVILUM II		
78461	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFED	29.64010600	-80.62030500 UNICHONNY	NAD27	0.00	0.00	0.00
21952	Completed Wells	MINENOWN	UNCLASSIFIED	LINCLASSICED	59.60569700	30 59394600 UNENOWN	MAD27	0.00	0.00	0.00
78406	Completed Wells	MACHOWN	INCLASSINO	UNCLASSIFED	39.64562200	-80 61505000 UNIXNOWN	MAD27	0.00	0.00	0.00
73130	Completed Wells	UNICHÓWIN	LIMICLASSIVILD	UNCLASSIFIED	39.64367200 39.67146800	#CA218200 UMONOWN	MAD27	0.00		0.00
79396	Completed Wells	WINKHOWN	UNCLASHING	UNCLASSIFED	39.66871000	80.67816200 UNKNOWN	MAD27	0.00	0.00	0.00
73348	Completed Wells	UNKHOWN	UNCLASHIND	UNCLASSIFED	39.65360400	30.61204800 UNIXNOWN	NAD27	0.00	0.00	0.00
71966	Completed Welk	UNIKNICANIN	UNDASSELO	UNCLASSITED	39.61803300	-80.50131600 UNKNOWN	NAD2)	0.00	0.00	600
7310	Completed Welk	NINKM CHANN	UNCLASSIFIED	UNCLASSIFIED	39.65287800	80.61148500 UNKNOWN	NAD27	0.00	0.00	0.00
73353	Completed Wells	LINKINGAAN	UNCLASSIFIED	UNCLASSIFIED	39.65099200	80.61148500 UNKNOWN	MAD27	0.00	0.00	0.00
7.8061	Completed Welk	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.66711400	80.63307000 UNKNOWN	MAD27	0.00	0.00	0.00
73349	Completed Wells	LINKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65256800	-80.61486300 UNKNOWN	MAD2/	000	0.00	0.00
J11/61	Completed Wells	LINICHONAN	INCLASSION	UNCLASSIFED	39.62762400	-80 60078700 UHKNOWN	NAD27	0.00	0.00	0.00
73359	Completed Wells	UNIDIOWN	UNCLASSHIED	UNCIASSITEO	39.65200800	BC 6CHES ACO UNICHONIN	MAD27	0.00	0.00	0.00
20347	Completed Wells	SOUTH PENN OR	PSEUDO ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.62806000	80 60303900 SOUTH PENN CHI	MAD27	0.00	000	0.00
73354	Completed Wells	INNOVCHAN	LIMICLASSICATO	UNCLASSIFED	49.64983100	80 60996300 UNITHOWN	MAD27	0.00	000	000
70734	Completed Wells	SOUTH PEMIN OIL	PSEUDO ONGMAL WELL UNKNOWN CLASS	PSCUDO DRIGINAL WELL - UNKNOWN CLASS	39 63241400	-60.62737000 SOUTH PENN OIL	MAD?	0.00	0.00	000
31177	Completed Wells	LAGUNISAN	UNCLASSIFIED	UNCLASSIFICD	39.64431500	80.62724900 UNEMOWN	NAD27	0.00	0.00	0.00
73355	Completed Wells	HOPE HATURAL GAS	UNCLASSIFIED	UNCLASSIFIED	39.64837900	80.60942080 HOPE NATURAL GAS	NAD2/	0.00	0.00	0.00
73346	Completed Welk	LINKNOWN	UNCLASSIFIED	UNCLASSIFICD	39.65607700	BO.61761100 UNKNOWN	NAD27	0.00	0.00	0.00
73341	Completed Wells	UNKNOWN	UNCLASSIFIED	MNCL ASSIFIED	39.65756800	60 61842900 UNKNOWN	NAD2/	0.00	0.00	0.00
71968	Completed Wells	UNENCAUN	LINCLASSIFIED	UNCLASSIFIED	39.6209.6600	-80.60300400 UNKNOWN	MAD27	0.00	0.00	0.00
73350	Completed Wells	UNKROWN	UNCLASSIFIED	UNCLASSIFIED	39.65128200	80 61561300 UNKNOWN	MAD27	9.90	0.00	0.00
73357	Completed Wells	LINKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65316900	#0.61148500 UNKNOWN	NAO27	0.00	0.00	0.00
73339	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSFIED	39 6694 3600	EO ES IER SOS UNINOVAN	NAD27	0.00	0.00	0.00
/19/0	Completed Wells	UWKNOWN	SHACT YSSEM D	UNICLASSIFED	39.61904900	80 60956100 UMRNOWN	NAO21	000	0.00	0.00
13179	Completed Wells	UNKALOWIN	UNCLASS#4D	UNCLASSITED	39 62951100	BO 5970 FROM UNKNOWN	MAD27	9.00	0.00	0.00
11364	Completed Wells	UNIKACIWA	UNCLASSIFILD	UNCLASSIFICO	39,64431500	80 62143100 UNIXAOWN	MADZZ	0.00	0.00	0.00
19391	Completed Weth	UNKHOWN	UNCLASSIFILD	UNCLASSIFIE	39 63212400	80 595 IS 700 UNKNOWN	MAD27	900	0.00	0.00
72955	Completed Welk	UNKNOWN	DWCTASSILIED	LINCLASSIFILD	39.63981600	.80.62706400 UNIXNOWY	NAD27	000	0.00	0.00
73351	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFILD	39.65171700	80.61317400 UNKNOWN	MAD27	9.00	0.00	0.00
73315	Completed Welk	UNKNOWN	LINICLASSIFIED	UNICLASSIFIED	39.66856500	-86.61749090 UNKNOWN	MAD27	9 00	0.00	0.00
/9347	Completed Wells	UNKNOWN	UNICLASSIFIED	UNCLASSITIED	39.65491000	80 61148500 UNKNOWN	NAD27	0.00	0.00	0.00
71969	Completed Wells	UNENCHAN	UNCLASSIFIED	UNICLASSIFIED	39.61919400	80 GOGZELOO LINKNOWN	MAD27	0.00	0.00	0.00
71152	Completed Wells	UNKHOWN	LINCLASSIFIED	UNCLASSIFIED	39.64981100	-80.61279800 UNKNOWN	NAO27	0.00	0.00	0.00
71192	Completed Wells	UNKNOWN	UNCLASSE II D	OHE LASSALIND	39.63212400	80 \$9290500 UHKNOWN	NAD27	0.00	0.00	0.60
70391	Completed Wells	SOUTH PENN ON	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO ORIGINAL WELL UNKNOWN CLASS	39.63712400	80 62011800 SOUTH PHINH CIL	HAD27	0.00	990	0.00
73149	Completed Wells	LARCHOWN	UNCLASSIFIC	UNK LASSIN HD	39.61792900	80 62/1/2000 UNKNOWN	NAD27	000	000	0.00
718 <b>0</b> A	Completed Wells	UNIOROMAN	UNICLASSIFIED	ENK LASSIFIED	39.63612300	BO ALABORCO LINEWOWN	MADZZ	0.00	0.00	0.00
71967	Completed Weth	UNKHOWN	URCLASSEILD	MKINZINIO	39.61919400	80.60319100 UNKNOWN	MADE!	0.00	0.00	0.00
31169	Completed Wells	CASSADY WILLIAM	PSEUDO ORIGINAL WILL UNKNOWN CLASS	PSCUDO ORIGINAL WELL UNKNOWN CLASS	39.65505600	BO.62 34960D CANSAUY WILLIAM	MAD27	0.00	0.00	0.00
7,5337	Completed Wells	UNKNOWN	UNCLASSIND	UNCLASSIFIED	39.67117800	80.62011800 UNKNOWN	NAD27	9.00	0.00	0.00
73364	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.65157700	BO GO416560 UNKNOWN	MAD27	0.00	0.00	0.00
73340	Completed Wells	UNKNETATN	LNCLASSIFIED	UNCLASSIFIED	39.66260300	80 61842900 UNKNOWN	NAD27	9 00	0.00	0.00
7.5390	Completed Wells	UNKNOWN	LANCLASSIFIED	UNCLASSIFIED	39.63923900	80 60491600 UNKNOWN	NAD27	0.00	0.00	0.00
31171	Completed Wells	UNKHOWN	UNICLASSIFIED	UNCLASSIFIED	39.64489600	80 95349600 UNKNOWN	NAD27	0.00	0.00	0.00
7,0016	Completed Wells	UNENCAVIN	EMCLASS# IED	UNCLASSFIED	39.6485.7400	80 62800390 UNKNOWN	NAD27	9.00	0.00	0.00
73412	Completed Week	SOUTH PENN CAL	UNCLASSMILD	UNCLASSIFIED	39 64373500	BO 62 564 300 SOUTH PENN OIL	NAD27	0.00	0.00	0.00
71344	Completed Wells	UNKKOWN	UNCLASSIFIED	UNCLASSIFIED	39.65593600	80 60998300 UNIXNOWN	MAD27	9.00	0.00	000
30671	Completed Welk	QUAKER STATE OIL M HINING CORP	PSEUDO ORIGINAL WELL - UNIONOWIN CLASS	PS UDO ORIGINAL WELL - LINKNOWN CLASS	39 66740400	BO 6236E300 CHAKER STATE ON RITHHING CORP	MAD27	000	0.00	000
7.1382	Completed Wells	UNKNOWN	UNICLASSIFIED	UNICIASSIFICO	39.62002800	80.59947300 URKNOWN	MAD27	0.00	0.00	0.00
73407	Completed Welk	UNKNOWN	UNCLASSI N 17	ONCIASSION	39 64591200	60.61673900 UNKNOWN	HAD27	0.00	0.00	0.00
71912	Completed Wells	LINKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.62296800	80.61143400 UNKNOWN	NAD27	0.00	0.00	0.00
73402	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.64757400	80.61655200 UNKNOWN	NAD27	600	0.00	0.00
/1964	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39 61208300	-80.60994300 UNKNOWN	MAD2/	900	0.00	0.00
31.162	Completed Wells	CASSADY WILLIAM	PSEUDO ORIGINAL WILLE UNKNOWN CLASS	PSEUDO-ORIGINAL WELL UNKNOWN (TAVS	39.652/3300	BO 62856300 CASSADY WILLIAM	NAD27	9.00	0.00	0.00
71410	Completed Wells	UNKNOWN	UNCLASSIFIED	LINCLASSIFIED	39 64126700	BO 61655200 UNKNOWN	NAD27	900	0.00	0.00
10 105	Completed Wells	UNKNOWN	UNCLASSITEO	UNCLASSITEO	39.65258800	80 61261100 UNKNOWN	NA027	0.00	000	0.00
71957	Completed Wells	UNRNOWN	UNCLASSIFED	UNCLASSING	39 61179200	80 59157600 UNKNOWN	MAD?/	0.00	9.00	0.00
/1013	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSITED	19.64786400	80.62744000 UHRINOWN	MAD27	0.00	0.00	0.00
21032	Completed Wells	UNUNOWN	UNCLASSIFIC	UNCLASSINO	39 64097700	8G 62819000 UNKNOWN	HAD??	0.00	0.00	0.00
20392	Completed Wells	SOUTH PENN ON	PSEUDO ORIGINAI WELL - UNKNOWN CLASS	PSEUDO ORIGINAL WELL UNKNOWN (LASS	39.65287800	BO.61092200 SOUTH PHAM ON	NAD27	0.00	0.00	0.00
734[3	Completed Webs	UNEADWN	UNITIASSUM D	UNITESALIMU	39.64475100	\$0,64218700 UNKNOWN	HAD?/	0.00	0.00	0.00
73347	Completed Wells	LINENOWN	UNCLASSITIED	UNCLASSILLD	39.65636200	80.61805300 UNKNOWN	NAD27	000	0.00	0.00
70388	Completed Wells	SOLITH PENN ON	PSEUDO-ORIGINAL WELL LINKNOWN CLASS	PSEUDO ORIGINAL WEEL LINKNOWN CLASS	49.63.770300	-80.60547900 SOUTH PENN DIL	NAD27	0.00	0.00	0.00
73360	Completed Wells	MANUFACTURERS LIGHT & HEAT	UNCLASSIFICD	UNCLASSIFIED	39.65113700	80.60754300 MANUFACPURERS IN MEDIAT	NAD27	0.00	0.00	0.00
/3380	Completed Wells	UNKNOWN	UNCLASSIFM D	UNCLASSIFIED	89 67849500	80.59947300 UNKNOWN	NAD27	0.00	0.00	0.00
73045	Completed Wells	LINENOWN	UNCLASSIFIED	UNCLASSIFIED	39.64300900	80 625/5100 UNKNOWN	NAD2/	6 00	0.00	0.00
/1955	Completed Wells	UNICHOWN	UNCLASSIFIED	UNCLASSIFIED	39 60758 300	DO 59625000 UNKNOWN	NAD27	8.00	0.00	0.00
70765	Completed Welk	SOUTH PENN OIL	PSEUDO-ORIGINAL WILL - UHKNOWH CLASS	PSILIDO ORIGINAL WELL - UNENOSON CLASS	39 65258800	-BO 60660500 SOUTH PENN (X)	MAD27	0.00	0.00	0.00
12116	Completed Wells	UNKNOWN	UNCLASSIFED	UNCLASSITED	39 618 75900	NO 600 J8100 UNKNOWN	HAD27	0.00	0.00	0.00
13031	Completed Wells	UNIXAONIA	UNCLASSIFIED	UNCLASSINED	39 64750800	BO 43 907000 UNKNOWN	HAD27	000	0.00	0 00
73363	Completed Wells	UNKNONN	UNCLASSITED	UNCLASSINED	39.65404000	NO.509G0BOD UNIKNOWN	HAD27	0.00	0.00	9.00
00083	Completed Wells	UNKNIDAN	DEVELOPMENT WILL USY (INCLUDING 15 MPORABLY AGANDONED WELL)	DEVITOPMENT WELL	39.62936600	80.59872300 UNKNOWN	NAD22	1060.00	2984.00	000
70036	Completed Wells	SOUTH PENN OIL	DEVELOPMENT WILL OIL	DEVITOPMENT WELL	39.61904900	80.59607200 SOUTH PLNN DII	NA027	1555.00	3492.00	0.00
7 540H	Completed Wells	MANUFACTURERS LIGHT & HEAT	UNICLASSMIED	UNCLASSMILD	19 84417000	80,61646400 MANUFACTURERS HONE & HEAT	NAD27	0.00	0.00	0.00
41014	Completed Wells	MOSES WILLIAM	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.657008000	80.62612300 MOSES WILLIAM	NAD27	1167.00	1134.00	0.00
10899	Completed Wells	CHARLER STATE OIL RETINING CORP.	DEVELOPMENT WELL-CHL	DEVELOPMENT WELL	79 67146800	\$0,51786600 QUAKER STATE OIL REFINING CORP	NAD//	1251.00	3247.00	0.00
J1084	Completed Wells	UNKNOWN	DEVELOPMENT WELL-OIL	DEVILOPMENT WELL	39.67220600	BO.527B1200 -UNKNOWN	NA027	1110.00	1125 00	0.00
31014	Completed Wells	MOSES WILLIAM	DEVELOPMENT WELL-OIL	DEVILOPMENT WELL	19 65157200	#0 6 1212903 MOSES WILLIAM	NAD27	1126 00	3 706.00	0.00
/0215	Completed Wells	SOUTH PENN ON	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL LIHKNOWN CLASS	39.63967100	80 62443400 SOUTH PENM ON	NAD27	0.00	0.00	0.00
02049	Completed Wells/WHCS	DIVERSIFIED PRODUCTION U.C.	SUCCESSFUL OUTPOST LYTERSION	WI(DCAT OUTPUST	19.65506460	80 61073790 EAC.CORP	HAD27	1165.00	3586 00	0.00
02037	Completed Wells/WHCS	ALLIANCE PETROLEUM COLLC	NEW FIELD WILDCAT-DISCOVERY	SEM LICTO ANTOCM	39.63265810	00 59309550 DAC CORP	MAD27	1240 00	3434.00	0.00
303.19	Completed Wells	SOUTH PENN ON	DEVELOPMENT WELL ON	DEVELOPMENT WELL	39.64117200	#0.62218200 SOUTH PENHICKL	MAD27	1797 00	3260.00	0.00
00193	Completed Wells	UNKHOWN	DEVELOPMENT WELL-GAS	DEVITOPMENT WELL	39.58497800	80.63419300 UHKNOWN	HAD27	1289 00	2360.00	0.00
01001	Completed Wells	HORNER DIE & GAS PROCHE HON INC.	DEVELOPMENT WELL ON	DEVITOPMENT WELL	39.64771800	80.61450000 PENNYCHLEGING	NAD27	1518 00	3401.00	0.00
30146	Completed Wells	UNKNOWN	DEVELOPMENT WELL ON	DEVILOPMENT WELL	39.67799900	\$0.52894100 UNKNOWN	NAD)/	1160 00	3395.00	0.00
31217	Completed Wells	CASSADY WILLIAM	UNICI ASSIFIED	UNCLASSMIED	39.641/0300	80.61786600 CASSADY WILLIAM	NAD27	0.00	0.00	0.00
30/05	Completed Wells	RANDALL-ZOGG SUPPLY	DEVELOPMENT WELL-CHE	DEVITOPMENT WELL	39 64431500	-80 51974700 HANDALL-ZOGG SUPPLY	MAD27	1192.00	3350.00	0.00
01/14	Completed Wells	HORINER CITE & GAS PRODUCTION INC	DEVELOPMENT WELL-CIL	DEVELOPMENT WELL	39.68351500	BO 63119300 HORNER CHARLES	NAD27	1 550.00	1720.00	0.00
	•									

30511	Completed Wells	RAAD SUPPLY CO	DEVELOPMENT WELL-OIL	DEVELOPMENT WILL	39.66594100	-80 63212900 RAAD SUPPLY CO	NAZ)27	1213.00	72 <del>69</del> 00	0.00
01316	Completed Wells/WrICS	HORNER OIL & GAS PRODUCTION INC	DÉVELOPMENT Y/ELL CHI	DEVELOPMENT WELL	39.67248090	IDO 619 79 700 CHASE PETROLEUM CO	NAD27	1138.00	4200.00	0.00
01/15	Completed Wells	HORNER CHL & GAS PRODUCTION INC	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.68104700	#0 63663600 HORNER CHARLIS	NAD27	1300.00	3401.00	0.00
31147	Completed Wells	QUAKER STATE OR REEMING CORP	DEAETONWENI MISTE CIT	DEVILOPMENT WELL	39.64910500	40 61598900 QUAKER STATE OIL REFUNING CORP	NAD27	1466 00	3407.00	0.00
30303	Completed Wells	FWWOHOWAN	UNCLASSIFIED	CHICLASSIFIED	39.64806900	-00-61761100 UNKKOWN	NAD27	0.00	0.00	000
30966	Completed Wells	QUAKER STATE OIL REFIRMING CORP	DO 13)W IW)WHO (39 KI	DEVITOPMENT WILL	39.65171700	80.62650(00 TRUMER STATE OR REFINING CORP	HA027	0.00	3011.00	0.00
73356	Completed Wells	<b>MANCHAM</b>	UNICLASSITIFO	UNICLASSIFIED	39.64617900	40.61354900 UNIONOWN	NMD27	0.00	9.00	0.00
00296	Completed Welk	HORNER OIL & GAS PRODUSTION INC	DEVELOPMENT WITE OR	DÉVECOPMENT WELL	39.68549500	40.63094900 SOLITH PENN CH,	NAD77	1348.00	3600.00	0.00
31026	Completed Wells	HOPF NATURAL GAS	DEVELOPINENT WITH ON	DEVICOPMENT WELL	39.65737800	#0.62774500 HOPE NATURAL GAS	NAD27	1485.00	3453.00	0.00
30908	Completed Wells	QUAKER STATE OIL REFINING EORP	DEVELOPMENT WILL OIL	DEVILOPMENT WELL	39.66652200	60.61805300 QUAKERSTATE OIL RETINING CORP	NAI127	0.00	9286.00	0.00
30672	Completed Wells	CHAKER STATE DIL REFINING CORP	DEVELOPMENT WELL-OIL	DE VEI OPMENT WELL	39.66463500	#0.63175400 QUAKER STATE OIL REFINING CORP	NAD27	1311.00	3310.00	0.00
30/1D	Completed Wells	RANDALL-20GG SUPPLY	DEVELOPMENT WILL OIL	DEVELOPMENT WELL	39.65302400	60.61692700 RANDALL ZUGG SUPPLY	NAD27	1252.00	3190.00	0.00
71965	Completed Wells	LINKHONAN	UNCLASSIFIED	UNCLASSIFIED	39.51558200	\$0.59842000 UNIONOWN	NAD27	0.00	0.00	0.00
00139	Completed Wells	EAGON G F	DEVELOPMENT WELL-DRY (INCLUDING TEMPORABILY ABANDONED WELL)	DEVELOPMENT WELL	39.67422600	40 63813700 EAGON G F	NAD27	616.00	1367 00	0.00
30445	Completed Wells	\$DUITH PENN CO.	DEVELOPMENT WELL OIL	DEVILOPMENT WELL	39 64560700	#0.63349600 SOUTH PENN ON	NAD27	1345 00	3310.00	0.00
31032	Completed Wells	MOSES WILLIAM	DEVELOPMENT WELL OIL	DEVILOPMENT WILL	39.64605700	80 62950100 MOSES WILLIAM	NAD27	99) 00	7975.00	0.00
30691	Completed Wells	BANDALL-206G SUPPLY	DEVELOPMENT WELL OIL	DEVITOPMENT WELL	59.63676800	80 62313000 KANDALL-20GG SUPPLY	HUUD27	1400 00	3359 00	0.00
30160	Completed Wells	SOUTH PENM OIL	DEVELOPMENT WILLI-GAS	DEVITOPMENT WELL	39.66653300	40.63194400 SOUTH PENN OIL	NAD27	1718.00	3195.00	0.60
73034	Completed Wells	OHIOLOWN	UNCLASSIFIC	UNICLASSIFIED	39.64634700	80.62668900 UNKNYWW	NAD27	0.00	0.00	0.00
01082	Completed Wells	HORNER OIL & GAS PRODUCTION INC	DEVELOPMENT WELL OIL	DIVITOPMENT WELL	39.54489600	-80 61847900 SOUTH PENN OIL	NAD27	1575.00	3503.00	0.00
20264	Completed Wells	SOUTH PENN OIL	PSEUDO-ORIGINAL WELL - DINKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.65491000	80.60791900 SOUTH PENN OIL	NADZZ	0.00	0.00	0.00
00674	Completed Wells	DIVERSIFIED PRODUCTION INC	DEVELOPMENT WELL: GAS	DEVELOPMENT WELL	39.51019600	-BO 59387400 CONSOLIDATED GAS SUPPLY CORP	NAD27	0.00	2989.00	D.MD
Horizontals										
UMI	ACT_STATUS	CURR_OPER	FNL_CLASS	INIT CLASS	LATITUDE LOS	HGITUDE OPER_NAME	DATUM	ELEVATION I	от_ <b>ос</b> ети п	TVD WELL_NAME
4710303057000	O Completed Wells	EQT PRODUCTION CO	DEVELOPMENT WITH GAS	DEVELOPMENT WALL	19 58256300	BOALGOESON FOT PRODUCTION CO	NA027	834.00	15279.00	903 00 WY 512915 BIG 177
4710303058000	0 Completed Wells	EQT PRODUCTION CO	DEVELOPMENT WELL GAS	DEVITORMENT WILL	39.58257300	80 584 15500 EQT PRODUCTION CO	NAD27	\$34.00	19667 00 (	8894.00 WV 512936.8KG 177
4710303753000	O Completed Wells	SAM PRODUCTION COLLC	DEVELOPMENT WITH GAS	DEVELOPMENT WELL	39.68758340	40.63976910 SWN PRODUCTION COLLC	NA027	1320.00	25954.00	7108.00 405H SWN A WITZ
4710303191000	0 Drilling	FOT PRODUCTION CO		DCALCOAMENT METT	39.58255600	80 58405000 EQT PRODUCTION CO	NUCL 27	\$13.00	0.00	0.00 H15 BIG 177
4710303735000	O Dellarge	EGT PRODUCTION CO		DEVELOPMENT WELL	39.59517000	\$9 \$4894600 EQT PRODUCTION CO	NAD27	1796-00	0.00	0.00 BIG24SH16 ET BLUE GRASS ITC
4710302724000	0 Completed Welk	ASCENT RESOURCES MARCHINGS INC.	DEVELOPMENT VALUE GAS	DEVELOPMENT WELL	39.62138330	80 61570830 HG ENERGY (LC)	NAD27	939.00	3317.00	1150.00 306 CRANÉ S I
4710393765000	0 Permit	EQT PRODUCTION CD		DEVILOPMENT WELL	39.59533200	80.56900300 FOT PRODUCTION CO	NAD27	1430.00	0.00	0.00 H4 BIG245
4710303299000	O Onthing	EQT PRODUCTION CO		DEVELOPMENT WELL	39.58247300	80.58404900 EQT PRODUCTION CO	NAD27	A11 00	0.00	0.00 H7 BIG 177
A710303237000	O Completed Wells	SWN PRODUCTION COLLC	DEVCLOPMENT WILLIGAS	DEVELOPMENT WELL	49.68250#40	BO-639B1710 SWIN PRODUCTION COLLC	NAC27	1370.00	18720.00	7177.00 3H SWN A WTZ



# SITE SAFETY AND ENVIRONMENTAL PLAN

Haggard Well Pad

Littleton Wetzel County, WV

Wells: 2H, 4H (47-103-03430), 6H, 8H, 10H, 12H, 14H, 16H

Prepared By: Donny Prater, CSP, Health and Safety Sciences, LLC

Approved By: Scott M. Held, Senior Safety Coordinator

Created Date: 7-Aug-20

John F Zavatchan Jr John Zavatchan

Project Specialist - Permitting EQT Production Company

Kenneth Greynolds Organity signed by Kenneth (Preymoids Dist CM = Kenneth Greynoids erreit = Kenneth it. Oreynoids (Byrr gov C = AD C vigl/OEP OU = Oil and Gas.

Ken Greynolds

Oil and Gas Inspector West Virginia DEP

evision #	<u>Date</u>	<u>Change/s</u>
1	1/29/2020	Plan total revision and reformat.
		·
an Administrator:		prover;
ott M. Held, CSP		rrover: :hael Lauderbaugh
nior Safety Coordi		e President of EHS

4710303526 Topo Quad: Littleton 1"=1000" Scale: Wetzel June 24, 2021 County: Date: Center District: Project N0: HAGGARD WELL PAD Water 11 Potential Water Sources Within 2500' Oil Wel Site B (W Site 7(W Access Road Week 8(W Oi Well LEGEND HAGGARD WATER 15720 Oll Well



Creek or Drain

- WV State Route

WV County Route

Keystone Consultants, LLC

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

Prepared For:

NAD 27 N:

Elevation:

WGS 84 Lat: 39.654178

422,314.723

1,512

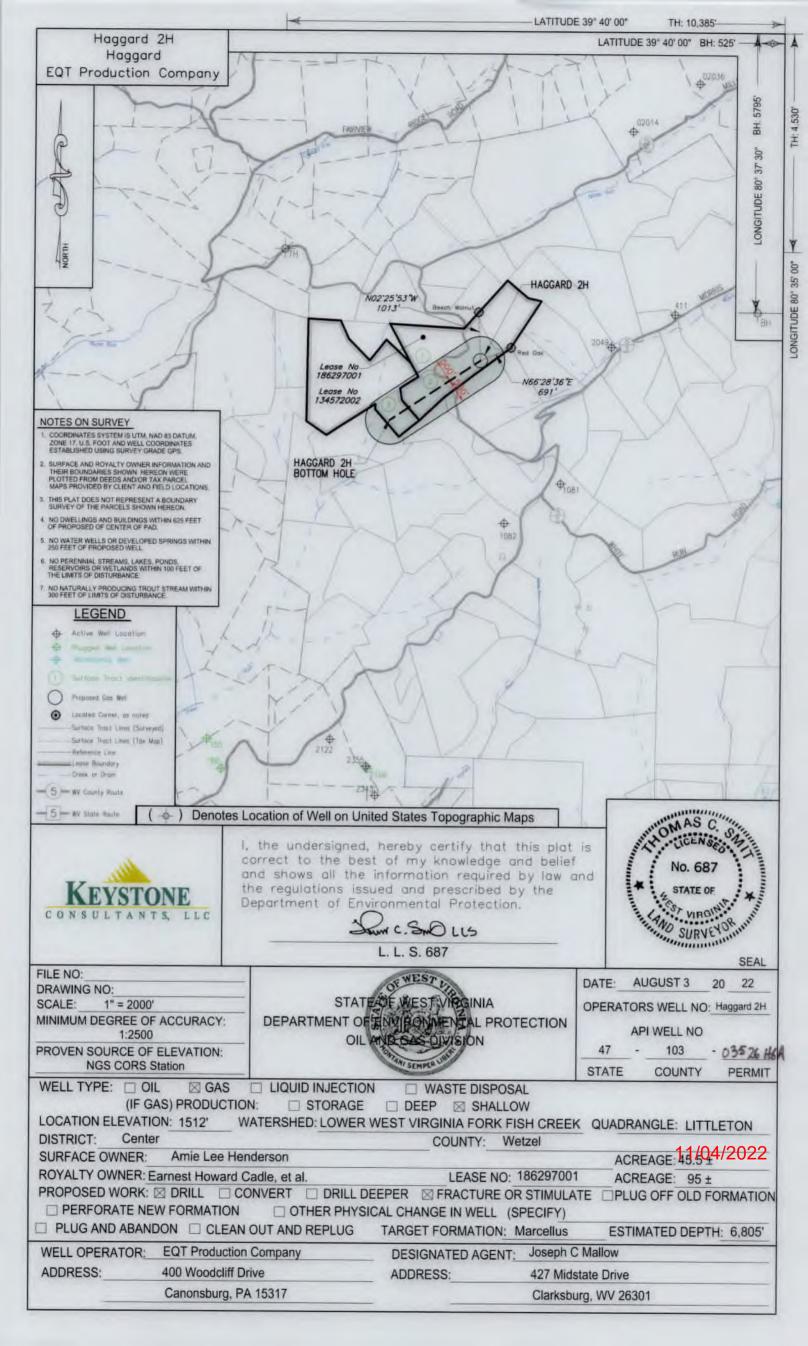
# **EQT Production Company**

400 Woodcliff Drive Canonsburg, PA 15317



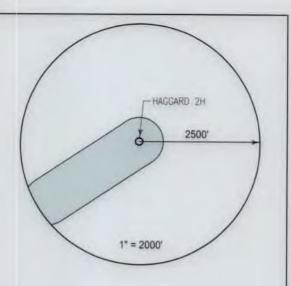
E: 1,684,542,363

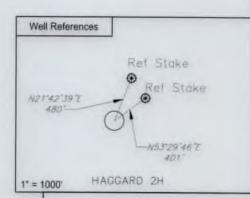
Long: -80.620223



# Haggard 2H 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	51.0	Wetzel	Center	Sharon J McMillen	10.00	
Lea	se			Owner		Acres	
18629	7001	E	Earnest Howard Cadle, et al.		e, et al.	95	
13457	2002		Dale	E. Long, et:	al.	92	





HAGGARD 2H coordinates are

NAD 27 N: 422,331,750 E 1,684,545,631

NAD 27 Lat: 39,654144 Long: 80,620402

NAD 83 UTM N: 4,389,449,612 E: 532,581,539

HAGGARD 2H Bottom Hole coordinates are NAD 27 N: 421.091.200 E 1.682.657.075 NAD 27 Lat 39.650673 Long -80.627053 NAD 83 UTM N: 4,389.062.041 E: 532.012.459

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.



HAGGARD 9H O HAGGARD 16H
HAGGARD 5H O HAGGARD 12H
HAGGARD 3H O HAGGARD 10H
HAGGARD 1H O HAGGARD 8H 103-03430
HAGGARD 4H
OHAGGARD 2H

HAGGARD PAD

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. 687

OM AS C No. 687 STATE OF NO SURVEYOR SEAL

FILE NO:	-	WEST			AUGUST 3	20 22	
DRAWING NO:	STATES	EWEST WARGINIA		DATE.			
SCALE: 1" = 1000' MINIMUM DEGREE OF ACCURACY: 1:2500	DEPARTMENT OF	WIRONMENTAL PI	ROTECTION	OPERATORS A	WELL NO:	Haggard 2	н
PROVEN SOURCE OF ELEVATION: NGS CORS Station	12	D GAS DIVISION		47 STATE	- 103 COUNTY	- 0352 PERM	
WELL TYPE:  OIL  GAS  (IF GAS) PRODUCTION:  LOCATION ELEVATION: 1512'  DISTRICT: Center  SURFACE OWNER: Amie Lee H	☐ LIQUID INJECTION ☐ STORAGE  [ATERSHED: LOWER WE]	☐ WASTE DISPO ☐ DEEP ☑ SHAI EST VIRGINIA FORI COUNTY:	LLOW	2 33333	11	LITTLETO /04/20:	-
ROYALTY OWNER: Earnest Hov	vard Cadle, et al.  ONVERT		OR STIMULA	1 ACR		5 ±	ION
☐ PLUG AND ABANDON ☐ CLEAN	OUT AND REPLUG T	ARGET FORMATION	: Marcellus	ESTI	MATED DEP	PTH: 6,80	5'
WELL OPERATOR: EQT Production ADDRESS: 400 Woodcliff D		DESIGNATED AGE ADDRESS:	Contract of	C Mallow state Drive			
Canonsburg, PA	A 15317		Clarksbi	urg, WV 263	301		

WW-6A1 (5/13) Operator's Well No. Haggard 2H

# 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, 1 depose and say that 1 am the person who signed the Notice and Application for the Applicant, and that -

- 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

RECEIVED
Office of Oil and Gas

AUG 2 2 2022

WV Department of Environmental Protection

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

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

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

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: EQT Production Company

By: John Zavatchan

Its: Project Specialist - Permitting

Page 1 of 2

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
<u> 186297001</u>	Earnest Howard Cadle, et al.  Earnest Howard Cadle, married dealing in his sole and			"at least 1/8th per WV Code 22-6-8"	
	separate property	95 ac	EQT Production Company		OG 273A/121
				"at least 1/8th per	
134572002	<u>Dale E. Long, et al.</u> Dale E. Long	92 ac	EQT Production Company	WV Code 22-6-8"	OG 212A/908

ALCENTED and Gas Office of Oil and Gas AUG 2 2 2022

AUG 2 2 2022

WV (Laboration Protection Environmental Protection



EQT PRODUCTION COMPANY 400 Woodcliff Drive | Canonsburg, PA 15317

August 15, 2022

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

Re:

Haggard 2H Gas Well

Center District, Wetzel County, WV

Dear Mr. Brewer,

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

Sincerely,

John Zavatchan

Project Specialist - Permitting

REC.

AUG 1 2 . JZ2

WV Department of Environmental Protection

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

Date of Notic	ce Certification: 08/18/2022	API N	API No. 47 Operator's Well No. 2H Well Pad Name: Haggard			
		<u>-</u>				
Notice has l	oeen given:					
		§ 22-6A, the Operator has provided th	e required parties v	with the Notice Forms listed		
	tract of land as follows:					
State:	West Virginia	UTM NAD 83 Easting				
County:	Wetzel	Northi	ng: 4389449.61			
District:	Center	Public Road Access:	CR 8/2	· <del>-</del> · · · ·		
Quadrangle:	Littleton	Generally used farm nan	ie: Haggard			
Watershed:	Lower West Virginia Fork Fish Creek					
it has provide information r of giving the requirements Virginia Code	ed the owners of the surface descri- equired by subsections (b) and (c), so surface owner notice of entry to so of subsection (b), section sixteen of	shall contain the following information bed in subdivisions (1), (2) and (4), ection sixteen of this article; (ii) that the arvey pursuant to subsection (a), sect of this article were waived in writing tender proof of and certify to the secre- int.	subsection (b), se ne requirement was ion ten of this art by the surface or	ction ten of this article, the s deemed satisfied as a result icle six-a; or (iii) the notice wner; and Pursuant to West		
	West Virginia Code § 22-6A, the Operator has properly served the require	perator has attached proof to this Not	ce Certification			
	ECK ALL THAT APPLY			OOG OFFICE USE ONLY		
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BE SEISMIC ACTIVITY WAS CON		RECEIVED/ NOT REQUIRED		
☐ 2. NO	FICE OF ENTRY FOR PLAT SUR	VEY or 🔳 NO PLAT SURVEY WA	S CONDUCTED	☐ RECEIVED		
■ 3. NO	FICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BE NOTICE OF ENTRY FOR PLATS WAS CONDUCTED or		☐ RECEIVED/ NOT REQUIRED		
		☐ WRITTEN WAIVER BY SUI (PLEASE ATTACH)				
■ 4. NO	TICE OF PLANNED OPERATION	RECE Office of O	Pauli (1992	☐ RECEIVED		
■ 5. PUE	BLIC NOTICE	AUG 2	<b>2</b> 202 <b>2</b>	☐ RECEIVED		
■ 6. NO	TICE OF APPLICATION	Eukkouwe MA Det	ariment of Ital Protection	RECEIVED		

## Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

# Certification of Notice is hereby given:

THEREFORE, I John Zavatchan , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

**EQT Production Company** By: John Zavatchan

Its: Project Specialist - Permitting

Telephone: 412-584-3132 Address: 400 Woodcliff Drive Canonsburg, PA 15317

Facsimile: 412-395-2974

Email: zavatchan@eqt.com

Commonwealth of Pennsylvania - Notary Seal Rebecca Shrum, Notary Public **Beaver County** My commission expires March 9, 2024

Commission number 1267706 Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 18th day of August, 2622

Notary Public

My Commission Expires March 9, 2024

# Oil and Gas Privacy Notice:

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

WW-6A (9-13) API NO. 477 10 3 0 3 5 2 6
OPERATOR WELL NO. 2H
Well Pad Name: Haggard

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

Noti	ce Time Requirem	nent: notice shall be provid	led no later the	an the filing date of permit app	lication.	
	e of Notice: 08/18/2022 ice of:	Date Permit Applicat	ion Filed: 08-18	2022		
Ø	PERMIT FOR AN	<del></del>		PROVAL FOR THE AN IMPOUNDMENT OR PIT		
Deli	very method purs	uant to West Virginia Co	de § 22-6A-10	D(b)		
	PERSONAL   REGISTERED   METHOD OF DELIVERY THAT REQUIRES A					
_	SERVICE	MAIL	RECE	IPT OR SIGNATURE CONFIR	MATION	
regis sediri the s oil al desci open more well impo have prov prop subs recon prov Code wate	stered mail or by any ment control plan recourface of the tract or and gas leasehold being ribed in the erosion at a coal seams; (4) The work, if the surface bundment or pit as do a water well, spring ide water for consumptions of the sheriff requision of this article to eR. § 35-8-5.7.a recompared to the coal seams.	rmethod of delivery that required by section seven of the which the well is or is propagated by the proposed and sediment control plan selevent the tract of land on we owners of record of the surtract is to be used for the plescribed in section nine of the gor water supply source location by humans or domes with is to take place. (c)(1) If the time to be maintained purson the contrary, notice to a liquired, in part, that the operate owner subject to notice and	uires a receipt nis article, and posed to be loce ed well work, in ubmitted pursus thich the well purface tract or tracement, constant his article; (5) hated within one tic animals; and formore than throads, the application uant to section en holder is no ator shall also put and water testing	it as required by this article shall or signature confirmation, copies the well plat to each of the follow ated; (2) The owners of record of the surface tract is to be used for ant to subsection (c), section severables to be drilled is located [stacts overlying the oil and gas leas ruction, enlargement, alteration, rangement, alteration, rangement at thousand five hundred feet of the definition of the operator of any natural great tenants in common or other continuous may serve the documents require ight, article one, chapter elevent notice to a landowner, unless the provide the Well Site Safety Plant as provided in section 15 of this	of the application, the erosion aring persons: (1) The owners of rithe surface tract or tracts overlying roads or other land disturbance and of this article; (3) The coal owich is known to be underlain by cheold being developed by the property of the property of the well pad which is gas storage field within which the owners of interests described in red upon the person described in a of this code. (2) Notwithstandiction holder is the landowner. We "WSSP") to the surface owner a rule.	nd ecord of ing the as ner, one or oposed of any nt to used to e  the ng any V. Va.
	••		S Plan Notice	e		
	JRFACE OWNER	(s)		COAL OWNER OR LESSI	E.E.	
	ress:		<u>.</u>	Name: See Attached List Address:	Office of Oil and Gas	
			_	- COAL OPERATION		
Nan	ne:		-	COAL OPERATOR	AUG 2 2 2022	
Add	ress:		_	Name:		
	TREACE OWNER	(s) (Road and/or Other Dis	- eturbanca)	Address:	WV Department of	
_				ZI SURFACE OWNER OF W	ATER WELL	**
Add	ress:			AND/OR WATER PURVEY	OR(s)	
				Name: See Attached List		
Nan				Address:		
Add	ress:					_
			_		TURAL GAS STORAGE FIEI	رD.
		(s) (Impoundments or Pits)		Name:		
Nan	ne:	<del></del>	-	Address:	<del></del>	
Add	ress:		_	*Please attach additional form	ns if necessary	

API NO. 447 1.0 3 0 3 5 2 6 OPERATOR WELL NO. 2H Well Pad Name: Haggard

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.

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Additional information related to horizontal drilling may be obtained from the Secretary, antibe Will Beparament 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. and-gas pages default.aspx.

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty of measured decision tally from any existing water well or developed spring used for human and developed spring used for hum 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

API NO. 4747 1-0 3 0 3 5 2 6

Well Pad Name: Haggard

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 application 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

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WV Department of Environmental Protection

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.

API NO. 447 1-0 3 0 3 5 2 6 OPERATOR WELL NO. 24

Well Pad Name: Haggard

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

Permit Denial or Condition

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

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

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

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

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WV Dapartment of
Environmental Protection

4710303526

API NO. 47OPERATOR WELL NO. 2H
Well Pad Name: Haggard

Notice is hereby given by:

Well Operator: EQT Production Company

Telephone: 412-584-3132 Email: Janvatchan@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 <a href="deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

Commonwealth of Pennsylvania - Notary Seal Rebecca Shrum, Notary Public Beaver County

My commission expires March 9, 2024 Commission number 1267706

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 18th day of August, 2022

Notary Public

My Commission Expires March 9, 2024

Office of Con Gas

Enviro

### Haggard

### Surface Owner (All Disturbance):

Amie Lee Henderson 470 Travis Drive Bridgeport, WV 26330

### Water Supply Owners within 1,500'

Charles & lia Mae Musgrave 5050 Postlethwait Ridge Rd, Wileyville, WV 26581

David A & Mary A Morris 4459 Postlethwait PDG Road, Wileyville, WV 26581

Donald Neal Crane 47980 Fredricktown Clarkson Rd Negley, Ohio 44441

Scott L Musgrave & Charles & Ila Mae Musgrave 5050 Postlethwait Ridge Rd, Wileyville, WV 26581

### **Coal Owners**

Consol RCPC LLC 1000 Consol Energy Drive Canonsburg, PA 15317

Blackrock Enterprises, LLC PO Box 342 Salem, WV 26424

Amie Lee Henderson 470 Travis Drive Bridgeport, WV 26330

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# Table 1 - Water Source Identification

EQT Well Pad Name:	Haggard (4H) Submittal Date:	1/15/2021
EQT Well Number:		
Survey/Engineering Company:	Keystone Consultants, LLC.	
Site Number:	1	Landowner Requested
Distance from Gas Well (Ft):	1191±	Sampling
Surface Owner/ Occupant:	Charles & Ila Mae Musgrave	Landowner Decline
Address:	5050 Postlethwait Ridge Rd, Wileyville, WV 26581	Sampling
Phone #:	304-775-2392	Unable to Contact
Field Located Date:	11/2/2020	(Further Contact attempts to be
Owner Home during Survey (Y/N)	No	made by EQT's 3rd party pre-dril sampling lab)
Coordinates: (decimal degrees NAD83)	39.657040, -80.621911	sampling lab)
Contact Attempts (Date):	1st: 8/25/2020 2nd: 10/30/2020 Door Hanger Left:	
Comments:	WATER WELL - Located about 81 ft. from road. Certified mail se 11/02/2020.	ent 7/23/2020. Field visit
Site Number:	2	Landowner Requested
Distance from Gas Well (Ft):	1678±	Sampling
Surface Owner/ Occupant:	Charles & lla Mae Musgrave	Landowner Decline
Address:	5050 Postlethwait Ridge Rd, Wileyville, WV 26581	Sampling
Phone #:	304-775-2392	Unable to Contact
Field Located Date:	11/2/2020	(Further Contact attempts to be
Owner Home during Survey (Y/N)	Yes	made by EQT's 3rd party pre-dri
Coordinates: (decimal degrees NAD83)	39.658674, -80.620565	sampling lab)
Contact Attempts (Date):	1st: 8/25/2020 2nd: 10/30/2020 Door Hanger Left:	
Comments:	SPRING - Located near spring holding tank. Certified mail sent 11/02/2020.	7/23/2020. Field visit
Site Number:	3	Landowner Requested
Distance from Gas Well (Ft):	1671±	Sampling
Surface Owner/ Occupant:	Charles & Ila Mae Musgrave	Landowner Decline
Address:	5050 Postlethwait Ridge Rd, Wileyville, WV 26581	Sampling
Phone #:	304-775-2392	Unable to Contact
Field Located Date:	11/2/2020	(Further Contact attempts to be
Owner Home during Survey (Y/N)	Yes	made by EQT's 3rd party pre-dri sampling lab)
Coordinates: (decimal degrees NAD83)	39.658652, -80.620613	semping and
Contact Attempts (Date):	1st: 8/25/2020 2nd: 10/30/2020 Door Hanger Left:	
Comments:	SPRING HOLDING TANK - Near spring. Certified mail sent 7/23/ 11/02/2020.	/2020. Field visit

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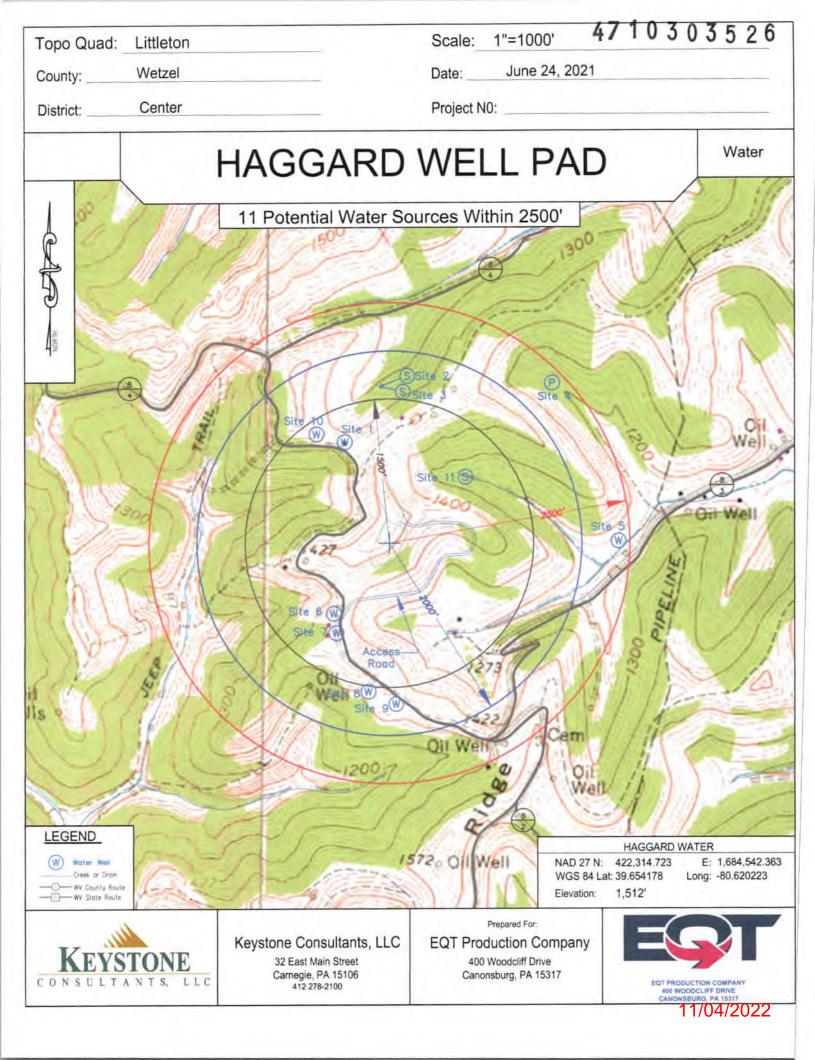
WV Department of Environmental Protection

Site Number:	4		Landowner Requested
Distance from Gas Well (Ft):	2377±		Sampling
Surface Owner/ Occupant:	Calvin T Jr. & Monica L Morris	1	Landowner Decline
Address:	711 Morris Run Road, Wileyville, WV 26581	🗆	Sampling
Phone #:	304-775-2029	1_	
Field Located Date:	1/11/2021		Unable to Contact (Further Contact attempts to be
Owner Home during Survey (Y/N)	Yes	1	made by EQT's 3rd party pre-drill
Coordinates: (decimal degrees NAD83)	39.658803, -80.614285	1	sampling lab)
Contact Attempts (Date):	1st: 8/25/2020 2nd: Door Hanger Left:		
Contact Attempts (Date).	POND - Certified mail sent 7/23/2020. Field visit 1/11/2021.	<b>i</b>	
Comments:	, Chib dictions (100) (100)		
	:	_	
Site Number:	5	l ☑	Landowner Requested Sampling
Distance from Gas Well (Ft):	2352±	ł	Landowner Decline
Surface Owner/ Occupant:	Calvin T Jr. & Monica L Morris		Sampling
Address:	711 Morris Run Road, Wileyville, WV 26581	ł	<b>-</b>
Phone #:	304-775-2029		Unable to Contact
Field Located Date:	1/11/2021	ł	(Further Contact attempts to be made by EQT's 3rd party pre-drill
Owner Home during Survey (Y/N)	Yes 20 664214 90 611764	1	sampling lab)
Coordinates: (decimal degrees NAD83)	39.654314, -80.611764 1st: 8/25/2020 2nd: 1/8/2021 Door Hanger Left:	<b>-</b>	
Contact Attempts (Date):	1st: 8/25/2020 2nd: 1/8/2021 Door Hanger Left: WATER WELL - Certified mail sent 7/23/2020. Field visit 01/11/		
Comments:	WATER WELL - Certified mail sent 7/23/2020. Field visit 01/11/	2021.	
	<u></u>		
Site Number:	6	<b>.</b>	Landowner Requested
Distance from Gas Well (Ft):	9241		Sampling
Surface Owner/ Occupant:	David A & Mary A Morris	$  \Box  $	Landowner Decline
Address:	4459 Postlethwait PDG Road, Wileyville, WV 26581	,	Sampling
Phone #:	304-775-4301		Unable to Contact
Field Located Date:	8/27/2020		(Further Contact attempts to be
Owner Home during Survey (Y/N)	Yes	Į.	made by EQT's 3rd party pre-drill sampling lab)
Coordinates: (decimal degrees NAD83)	39.652150, -80.622240	<u> </u>	
Contact Attempts (Date):	1st: <b>8/25/2020</b> 2nd: Door Hanger Left:	.i	***************************************
Comments:	WATER WELL - Located about 85 ft. from road. Certified mail so 08/27/2020/.	ent 7/	23/2020. Field visit
Site Number:	7	_	Landowner Requested
	1070±	· 🕢	Sampling
Distance from Gas Well (Ft):	David A & Mary A Morris	·l	Landowner Decline
Surface Owner/ Occupant:	4459 Postlethwait PDG Road, Wileyville, WV 26581	· 🗆	Sampling
Address: Phone #:	304-775-4301	1	
Field Located Date:	***************************************	· 🗆	Unable to Contact
***************************************	8/27/2020 Yes	1	(Further Contact attempts to be made by EQT's 3rd party pre-drill
Owner Home during Survey (Y/N)	19 \$ 19 19 19 19 19 19 19 19 19 19 19 19 19	1	sampling lab)
Coordinates: (decimal degrees NAD83)	39.651594, -80.622136  1st: 8/25/2020 2nd: Door Hanger Left:		
Contact Attempts (Date):	1st:  8/25/2020   2nd:   Door Hanger Left:   WATER WELL - Located about 54 ft. from road. Certified mail so	i7/	22/2020 Field visit
Comments		-iii //	
Comments:	08/27/2020.		RECEIVED

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Site Number:	8		Landowner Requested
Distance from Gas Well (Ft):	1528±		Sampling
Surface Owner/ Occupant:	John G. Miller, et al		Landowner Decline
Address:	4337 Postlethwait Ridge Rd, Wileyville, WV 26581	_	Sampling
Phone #:	304-775-5373		Unable to Contact
Field Located Date:	1/11/2021	<u> </u>	(Further Contact attempts to be
Owner Home during Survey (Y/N)	Yes	]	made by EQT's 3rd party pre-drill sampling lab)
Coordinates: (decimal degrees NAD83)	39.649936, -80.620934		25 անիու <b>և</b> «Եր
Contact Attempts (Date):	1st: 8/25/2020 2nd: Door Hanger Left:		
	WATER WELL - Located about 150 ft. from road. Certified mail s	ent 7/	/23/2020. Field visit
Comments:	01/11/2021.		
Site Number:	9		Landowner Requested
Distance from Gas Well (Ft):	1636±	🖆	Sampling
Surface Owner/ Occupant:	John G. Miller	] [	Landowner Decline
Address:	4337 Postlethwait Ridge Rd, Wileyville, WV 26581	1 🗀	Sampling
Phone #:	304-775-5373	1 _	
Field Located Date:	1/11/2021	1 —	Unable to Contact (Forther Contact attempts to be
Owner Home during Survey (Y/N)	Yes	1	made by EQT's 3rd party pre-drill
Coordinates: (decimal degrees NAD83)	39.649592, -80.619899	<b>i</b> _	sampling lab)
Contact Attempts (Date):	1st: 8/25/2020 2nd: 1/8/2021 Door Hanger Left:		
CONTROL CITATION ( C.	WATER WELL - Located about 70 ft. from road. Certified mail se	i7/7	23/2020. Field visit
Comments:	1/11/2021.		
Site Number:	10		Landowner Requested
Distance from Gas Well (Ft):	±	' 🗹	Sampling
IDISTANCE ITOM Gas Wen (Ft).			- 1
Surface Owner/ Occupant:	Donald Neal Crane	1	Landowner Decline
** P4	Donald Neal Crane Postlethwait Ridge Rd Littleton, WV 26581		Landowner Decline Sampling
Surface Owner/ Occupant:	CONTRACTOR OF THE PROPERTY OF		Sampling
Surface Owner/ Occupant: Address:	Postlethwait Ridge Rd Littleton, WV 26581		
Surface Owner/ Occupant: Address: Phone #:	Postlethwait Ridge Rd Littleton, WV 26581		Sampling  Unable to Contact (Further Contact attempts to be made by EQT's 3rd party pre-drill
Surface Owner/ Occupant: Address: Phone #: Field Located Date: Owner Home during Survey (Y/N)	Postlethwait Ridge Rd Littleton, WV 26581		Sampling  Unable to Contact (Further Contact attempts to be
Surface Owner/ Occupant: Address: Phone #: Field Located Date: Owner Home during Survey (Y/N) Coordinates: (decimal degrees NAD83)	Postlethwait Ridge Rd Littleton, WV 26581 234-567-0889		Sampling  Unable to Contact (Further Contact attempts to be made by EQT's 3rd party pre-drill
Surface Owner/ Occupant: Address: Phone #: Field Located Date: Owner Home during Survey (Y/N)	Postlethwait Ridge Rd Littleton, WV 26581  234-567-0889  1st: 8/25/2020 2nd: 1/8/2021 Door Hanger Left:		Sampling  Unable to Contact (Further Contact attempts to be made by EQT's 3rd party pre-drill sampling lab)
Surface Owner/ Occupant: Address: Phone #: Field Located Date: Owner Home during Survey (Y/N) Coordinates: (decimal degrees NAD83) Contact Attempts (Date):	Postlethwait Ridge Rd Littleton, WV 26581  234-567-0889  1st: 8/25/2020 2nd: 1/8/2021 Door Hanger Left: WATER WELL - 1 Water well. Not field located. Landowner liste	ed 5 sp	Sampling  Unable to Contact (Further Contact attempts to be made by EQT's 3rd party pre-drill sampling lab)
Surface Owner/ Occupant: Address: Phone #: Field Located Date: Owner Home during Survey (Y/N) Coordinates: (decimal degrees NAD83)	Postlethwait Ridge Rd Littleton, WV 26581  234-567-0889  1st: 8/25/2020 2nd: 1/8/2021 Door Hanger Left:	ed 5 sp	Sampling  Unable to Contact (Further Contact attempts to be made by EQT's 3rd party pre-drill sampling lab)
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Surface Owner/ Occupant: Address: Phone #: Field Located Date: Owner Home during Survey (Y/N) Coordinates: (decimal degrees NAD83) Contact Attempts (Date):  Comments:	Postlethwait Ridge Rd Littleton, WV 26581  234-567-0889  1st:   8/25/2020   2nd:   1/8/2021   Door Hanger Left:   WATER WELL - 1 Water well. Not field located. Landowner liste   Questionnaire. They were not field located. Certified mail sent	ad 5 sp	Sampling Unable to Contact (Further Contact attempts to be made by EQT's 3rd party pre-drill sampling lab)  prings on 2020.
Surface Owner/ Occupant: Address: Phone #: Field Located Date: Owner Home during Survey (Y/N) Coordinates: (decimal degrees NAD83) Contact Attempts (Date): Comments: Site Number: Distance from Gas Well (Ft):	Postlethwait Ridge Rd Littleton, WV 26581  234-567-0889  1st:   8/25/2020   2nd:   1/8/2021   Door Hanger Left:   WATER WELL - 1 Water well. Not field located. Landowner liste   Questionnaire. They were not field located. Certified mail sent   11	ed 5 sp	Sampling Unable to Contact (Further Contact attempts to be made by EQT's 3rd party pre-drill sampling lab)  prings on 2020.
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AUG 2 2 2022



# 4710303526

## 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.

ate of Notic		Da	ided at least TEN (10) days prior to filing a ste Permit Application Filed: 08:18:2022	
Delivery met	hod pursuant i	o West Virginia C	ode § 22-6A-16(b)	
☐ HAND		CERTIFIED MAIL		
DELIVE	ERY	RETURN RECEIF	T REQUESTED	
eceipt reques frilling a hor of this subsec- ubsection ma	sted or hand del izontal well: Pa tion as of the da ay be waived in	ivery, give the surfa rovided, That notice ate the notice was pro- writing by the surfa	ten days prior to filing a permit application, ce owner notice of its intent to enter upon the given pursuant to subsection (a), section te ovided to the surface owner: <i>Provided, how</i> ice owner. The notice, if required, shall inclu- mail address of the operator and the operator	ne surface owner's land for the purpose of n of this article satisfies the requirements rever. That the notice requirements of this ude the name, address, telephone number
Votice is he	rehy provide	to the SURFAC	FOWNER(s)	RECEIVED
	Lee Henderson	to the SUKFAC	Name:	Office of Cill and Gas
Address: 470			Address:	AUG 2 2 2022
	geport, WV 26330		7.tdd.co.	HOU 2 2 2022
ursuant to V			notice is hereby given that the undersigned	
Pursuant to V he surface ov State:	Vest Virginia Co wner's land for t West Virginia		ng a horizontal well on the tract of land as fo Easting:	Environmental Protection well operator has an intent to enter upor llows: 532581 54
Pursuant to V he surface ov State: County:	Vest Virginia Co wner's land for the West Virginia Wetzel		ng a horizontal well on the tract of land as fo  UTM NAD 83  Easting: Northing:	Environmental Protection well operator has an intent to enter upor llows: 532581.54 4389449.61
Pursuant to V he surface ov state: County: District:	Vest Virginia Co wner's land for the West Virginia Wetzel Center		urg a horizontal well on the tract of land as fo UTM NAD 83 Easting: Northing: Public Road Access:	Environmental Protection well operator has an intent to enter upor llows: 532581 54 4389449.61 CR 8/2
Pursuant to V he surface ov	Vest Virginia Co wner's land for the West Virginia Wetzel	he purpose of drilling	ng a horizontal well on the tract of land as fo  UTM NAD 83  Easting: Northing:	Environmental Protection well operator has an intent to enter upor llows: 532581.54 4389449.61
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Pursuant to Vene surface of tate: County: District: Quadrangle: Vatershed:  This Notice Pursuant to Vene acsimile nurelated to horocated at 600 Notice is he Vell Operato Address:	Vest Virginia Covner's land for the West Virginia Wetzel Center Littleton Lower West Virginia West Virginia Conber and electrizontal drilling 157th Street, SE  reby given by The EOT Production 400 Woodcliff D Canonsburg, PA 15	he purpose of drilling a Fork Fish Creek  Code § 22-6A-16(bonic mail address of may be obtained from the company of the compan	ng a horizontal well on the tract of land as fo  UTM NAD 83  Easting: Northing: Public Road Access: Generally used farm name:  ), this notice shall include the name, address authorized the operator and the operator's authorized om the Secretary, at the WV Department of 5304 (304-926-0450) or by visiting www.de  Authorized Representative: Address:	Environmental Protection well operator has an intent to enter upor illows: 532561 54 4389449.51 CR 8/2 Haggard  ess, telephone number, and if available ed representative. Additional information f Environmental Protection headquarters ep.wv.gov/oil-and-gas/pages/default.aspx.  John Zavatchan 400 Woodcliff Drive Canonsburg, PA 15317

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.

# 4710303526 STATE OF WEST VIRGINIA

# DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time I Date of Notic	Requirement: notice shall be e: OB18/2022 Date	e provided no te Permit A	pplication Filed: 08/19	date of permit	application.
Delivery met	hod pursuant to West Virgi	nia Code §	22-6A-16(c)		
■ CERTIF	FIED MAIL		HAND		
	N RECEIPT REQUESTED		DELIVERY		
return receipt the planned of required to be drilling of a h damages to th (d) The notice of notice.  Notice is here	requested or hand delivery, g peration. The notice require provided by subsection (b), norizontal well; and (3) A pro- e surface affected by oil and as required by this section shares by provided to the SURFA	give the surfaced by this si section ten or oposed surfagas operationall be given to	this article to a surface use and compens ace use and compens as to the extent the da to the surface owner a	will be used for de: (1) A copy ace owner whos ation agreement mages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the address	s listed in the records of the s				
Name: Amie Lee			Name:		
Address: 470 T			Address	X	
Bridgeport, WV 26	330				
operation on State: County: District:	the surface owner's land for West Virginia Wetzel Center	the purpose of	of drilling a horizonta  UTM NAD 8  Public Road	Easting: Northing:	act of land as follows: 532581 54 4389449 61 CR 8/2
Quadrangle:	Littleton		Generally use	ed farm name:	Haggard
Watershed:	Lower West Virginia Fork Fish Creek				
Pursuant to W to be provide horizontal we surface affect information re	d by W. Va. Code § 22-6A ill; and (3) A proposed surface ed by oil and gas operations elated to horizontal drilling located at 601 57th Street,	e use and co to the exter may be obta	surface owner whose empensation agreement the damages are co- tined from the Secret	land will be on the containing are compensable und ary, at the WV	code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional / Department of Environmental Protection or by visiting

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 departure volticer (a) way gov

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Office of Oil and Gas AUG 2 2 2022



## WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways** 

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

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

June 21, 2022

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

Subject: DOH Permit for the Haggard Pad, Wetzel County Haggard 2H Well Site

Dear Mr. Martin.

D. Alan Reed, P.E.

This well site will be accessed from a DOH permit #06-2021-0206 which has been issued to EOT Production Company for access to the State Road for a well site located off Wetzel County Route 8/2 SLS MP 0.80.

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

Very Truly Yours.

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Jany K. Clayton

Cc: John Zavatchan

**EQT Production Company** 

CH, OM, D-6

File

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AUG 2 2 2022

WV Department of Environmental Protection

# Anticipated Frac Additives Chemical Names and CAS Numbers

<u>Material</u>	Ingredient	CAS Number
Sand (Proppant)	Silica Substrate	14808-60-7
Water	Water	7732-18-5
Hydrochloric Acid (HCI)	Hydrogen Chloride	7647-01-0
Friction Reducer	Copolymer of 2-propenamide	Proprietary
	Petroleum Distillate	64742-47-8
	Oleic Acid Diethanolamide	93-83-4
	Alcohols, C12-16, ethoxylated	68551-12-2
	Ammonium chloride ((NH4)Cl)	12125-02-9
Biocide	Glutaraldehyde	111-30-8
	Alkyl dimethyl benzyl ammonium chloride	68391-01-5
	Didecyl dimethyl ammonium chloride	7173-51-5
	Non-hazardous substances	Proprietary
Scale Control	Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid)(BHMT)	34690-00-1
	Non-hazardous substances	Proprietary
Acid Chelating Agent	Citric Acid	77-92 <del>-</del> 9
Corrosion Inhibitor	Methanol	67-56-1
	pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	68909-18-2
	Nonoxynol-9	127087-87-0
	2-ethyl-1-hexanol	104-76-7
	4-nonylphenyl, ethoxylated	26027-38-3

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Office of Oil and Gas

AUG 2 2 2022

WV Department of Environmental Protection WW-6A7 (6-12)

OPERATOR:_	EQT Production Company	WELL NO: 2H
PAD NAME:_	Haggard	- 1000
REVIEWED B	BY: John Zavatchan	_ SIGNATURE:

# WELL RESTRICTIONS CHECKLIST

# HORIZONTAL 6A WELL

Well Restr	ictions
$\checkmark$	At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
	DEP Waiver and Permit Conditions
$\checkmark$	At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
	DEP Waiver and Permit Conditions
$\checkmark$	At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
	DEP Waiver and Permit Conditions
$\checkmark$	At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
	Surface Owner Waiver and Recorded with County Clerk, OR
	DEP Variance and Permit Conditions
$\checkmark$	At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
	Surface Owner Waiver and Recorded with County Clerk, OR
	DEP Variance and Permit Conditions
$\checkmark$	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
	Surface Owner Waiver and Recorded with County Clerk, OR
	DEP Variance and Permit Conditions

### PLANS PREPARED BY: SHEET INDEX BOORD BENCHEK & ASSOCIATES, INC. I. TOTAL SPEET 2-3. EVACUATION ROUTE/PREVAILING WIND ENGINEERING, SURVEYING, CONSTRUCTION AND MINING SERVICES SOUTHPOINTE, PA 15317 PHONE, 724-746-1055 4 FAS CONTROL LAYOUT OVERVIEW 5-6 E&S CONTROL LAYOUT 7 EAS CONTROL AND SITE PLAN OVERVIEW E-9 E&S CONTROL AND SITE PLAN 10. WILL PAD PROFILES 11 ACCESS HOAD PROFILE 12-15 ACCESS ROAD CROSS-SECTIONS 16-19 DETAILS **APPROVED** 20. RECLAMATION PLAN OVERVIEW 21-22 RECLAMATION PLAN WVDEP OOG 8/18/2021 TOTAL UMITS OF DISTURBANCE, 15-24 AC ACCESS ROAD DISTURBANCE AREA 6 40 AC WELL PAD DISTURBANCE AREA & 84 AC. ANDREW BENCHEX PROPERTY PROJECT BOUNDARY ACREAGE AMELIEF WINDSHICK (TAX MAP AND PARCEL DE NY 96). 25 24 AC DTM (NADBILZON), 17 METERS COORDINATES N 4389465 275 E 532582 923 % \$389,850 \$19 8 \$32590 258 CENTER OF PAD (NAD-83) 5 532593 162 LAT 39 654420" 537585 R29 LONG 80.6202091 4389670:211 N 4381467:237 532588.755 6 512590:067 (NAD 27) LAT 39 654069" LONG 80.620462 N. 4750471.855 % 4350470.760 4. 342301.640 E. 512598.975 SITE ENTRANCE (NAD 83) LAT 39 652791" IN ACCORDANCE WITH WY 35 CS# 8. LONG. 80.622102" THE FOLEDWING ERDSION & SEDIMENT CONTROL PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH BEST MAPINGEMENT PRACTICES ESTABLISHED BY THE CHIEF AND PROVIDED IN THE OFFICE'S EXISSION (NAD 27)

LONG -80 622131"

SHEET

OF 22

HAGGARD WELL SITE CENTER DISTRICT, WETZEL COUNTY, WV APRIL 2021

TWO WORKING DAYS PRIOR TO EXCAVATION. THE

CONTRACTOR MUST CONTACT THE WV ONE CALL

SYSTEM, INC., 1-800-245-4848

(WV ONE CALL TICKET #2005785596)

OWNER

400 WOODCLIFF DRIVE.

CANONSBURG, PA 15117

\* PROJECT LOCATION

REVISIONS

AND SEDIMENT CONTROL HILD MANUAL, A GENERAL CONSTRUCTION SEQUENCE, DESCRIPTION OF STABILIZATION METHODS, AND DETAILS IS SPECIFICATIONS FOR EXPONENT ACSI

TITLE SHEET

HAGGARD WILL LITE CENTER DISTRICT, WITZEL COURTY, WV

MANAGEMENT PRACTICES HAVE BEEN INCLUDED IN THE PROVIDED BETAIL SHEETS.

