

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

Friday, September 10, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re: Permit approval for HAGGARD 4H

47-103-03430-00-00

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.

Operator's Well Number: HAGGARD 4H

Farm Name: AMIE LEE HENDERSON

U.S. WELL NUMBER: 47-103-03430-00-00

Horizontal 6A New Drill Date Issued: 9/10/2021

API	Number:	

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

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

API Number:	
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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, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

471	03	034	3 0
API NO. 47			
OPERATOR WE	LL NO.	4H /	
Well Pad Name	e: Hagga	ard -	

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

1) Well Operator	EQT Produ	ction Compar	ıy	306686	Wetzel /		Littleton /
-				Operator ID	County	District	Quadrangle
2) Operator's We	ell Number: 4H	<u> </u>		Well Pad	Name: Hagga	ard /	
3) Farm Name/Su	urface Owner:	Amie Lee Her	nde	rson Public Road	d Access: CR	8/2	
4) Elevation, curi	rent ground:	1512'	Ele	vation, proposed p	post-construction	on: 1512'	
5) Well Type (a) Gas X	Oil		Unde	erground Storag	ge	
C	Other						
(,			Deep			
		rizontal X					
6) Existing Pad: `				. 1001:1			
<i>'</i> •	et Formation(s 2', 47', 2620 PS		itici	pated Thickness a	nd Expected Pr	essure(s):	
8) Proposed Tota	l Vertical Dept	h: 7592'/					
9) Formation at T	Total Vertical D	Depth: Marcel	lus				
10) Proposed Tot	al Measured D	epth: 10,444	.' /				
11) Proposed Ho	rizontal Leg Le	ength: 2,477"					
12) Approximate	Fresh Water S	trata Depths:		443' /			
13) Method to De	etermine Fresh	Water Depths:	0	offset Wells, 47-1	03-02236, 47-	103-02647	,
14) Approximate	Saltwater Dep	ths: No deep	wat	er shows listed in	offsets		
15) Approximate	Coal Seam De	epths: 1317' -	132	0', 1415' - 1420'			
16) Approximate	Depth to Poss	ible Void (coal	mir	ne, karst, other):	N/A		
17) Does Propose directly overlying				ns Yes	No	<u>x</u>	
(a) If Yes, prov	ide Mine Info:	Name:					
,		Depth:					
		Seam:					RECEIVED
		Owner:			<u>-</u>		JUL 0 6 2021
							JOL OO LOL!

WV Department of Environmental Protection

WW-6B	
(04/15)	

API NO. 47-103 - 63430	
OPERATOR WELL NO. 4H	
Woll Rad Name: Haggard	

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A-500	85.6	40	40 -	50 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1470	1470	1350 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2882	2882	1100 ft^3 / CTS
Production	5 1/2	New	P-110	20	10444	10444	500' above intermediate casing
Tubing	11.00						
Liners	12.1		1 = 3				

Buyan Harms 6-23-21

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	0.312	1050	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A / Type 1	1.13 - 1.19
Coal							
Intermediate	9 5/8	12 3/8	0.352	3520	2816	Class A / Type 1	1.13 - 1.19
Production	5 1/2	8 1/2	0.361	14360	11488	Class A/H	1.04 - 2.10
Tubing							
Liners							

PACKERS

Kind:	
Sizes:	
Depths Set:	
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API NO. 47- 103	_ 03430
OPERATOR WE	
Well Pad Nam	e: Haggard

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

Drill well to the Marcellus formation. Drill the vertical, kickoff, and partially drill curve. This operation will be completed to accommodate future marcellus drilling.

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

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

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

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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*Note: Attach additional sheets as needed.

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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

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)

Sincerely

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

annat &

James Peterson Environmental Resources Specialist / Permitting

Promoting a healthy environment.

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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 "1" 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 easing of oil and gas wells in the State as may be requested by oil and gas operators. The waiting time on the cement blend shall be 8 hours. The cement blend shall be mixed in strict accordance with the specifications for each blend and weight measurements made on-site to assure the cement slurries meet the minimum weight specifications. A sample shall be collected and, if after 8 hours the cement is not set up, additional time will be required. Nabors Completion & Production Services Co. shall keep a record of cement blend jobs in which the cement blend approved under this order is to be used and made available to the Office of Oil and Gas upon request.

Dated this, the 18th day of March, 2014.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

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WV Department of Environmental Protection

09/10/2021



June 16, 2021

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

Re: Casing on Haggard 4H

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 2,882' 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.

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09/10/2021

Formation: Marcellus

NOT TO SCALE

WEST VIRGINIA GEOLOGICAL PROGNOSIS

Horizontal Well HAGGARD 4H LIT68H4 L-003871

Drilling Objectives:
Quad:
County:
Elevation:
Recommended Azimuth

Marcellus Littleton Wetzel

1525 KB 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 FORMATION TOPS	Determined from v	vells:	4710302236	4710302647
Formation	Top (TVD)	Base (TVD)	Lithology	Comments
Fresh Water Zone	1	443		FW from offsets a 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	2707	2832	Sandstone	Hydrocarbon prod/show in offset @3170,3450,3603,3650,
Int. csg pt	2882			50 ft below Big Injun
Berea	2981	3222	Sandstone	
Gantz	3340	3473	Silty sand	
Fifty foot	3495	3533	Silty sand	Outside of Storage Boundary
Thirty foot	3579	3600	Silty sand	oil shows in offsets, see depths above
Bayard	3647	3739	Sandstone	
Upper Speechley	4091	4152	Silty sand	
Speechley	4152	4236	Silty sand	
Balltown	4236	4566	Silty sand	
Bradford	4566	5709	Silty sand	
Benson	5709	6046	Silty sand	
Alexander	6046	6505	Silty sand	
Elk	6505	7196	Silty sand	
Sonyea	7196	7323	Gray shale	
Middlesex	7323	7357	Black Shale	
Genesee	7357	7424	Gray shale interhedded	
Geneseo	7424	7453	Black Shale	
Tully	7453	7475	Limestone	
Hamilton	7475	7568	Gray shale with some	
Marcellus	7568	7615	Black Shale	
-Purcell	7588	7590	Limestone	
-Cherry Valley	7600	7602	Limestone	
-Lateral Zone	7592			
Onondaga	7615		Limestone	
Target Thickness	47 feet		1	
Max Anticipated Rock Pressure	2620 PSI			

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				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:	2882	50' below Big Injun
Production:	CSG OD	5 1/2"	CSG DEPTH:	a TD	10 VVV

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LIT68H4

API Number 47 -	103	-	03430
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Operator's Well No. Haggard 4H

Member, Pennsylvania Association of Notaries

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 V No
Will a pit be used? Yes □ No ✓
If so, please describe anticipated pit waste: N/A
Will a synthetic liner be used in the pit? Yes No ✓ If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:
The state of the s
Land Application Underground Injection (UIC Permit Number 0014, 8462, 4037)
Reuse (at API Number Various
Off Site Disposal (Supply form WW-9 for disposal location)
Other (Explain_
Will closed loop system be used? If so, describe: Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Altached
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud
Additives to be used in drilling medium? See Attached
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? See Attached List
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.
Company Official Signature
Company Official (Typed Name) Erin Spine
Company Official (Typed Name) Erin Spine Company Official Title Supervisor - Subsurface Permitting Office of Oil and Gas
11 0 6 2021
Subscribed and sworn before me this day of July . 2021 W Department of Environmental Protection
Notary Public Commonwealth of Pennsylvania - Notary Seal
My commission expires October 25, 2023 Commonwealth of Pennsylvania - Notary Seal Olivia Pishioneri, Notary Public Allegheny County, My commission explosed by Commission number 1359968

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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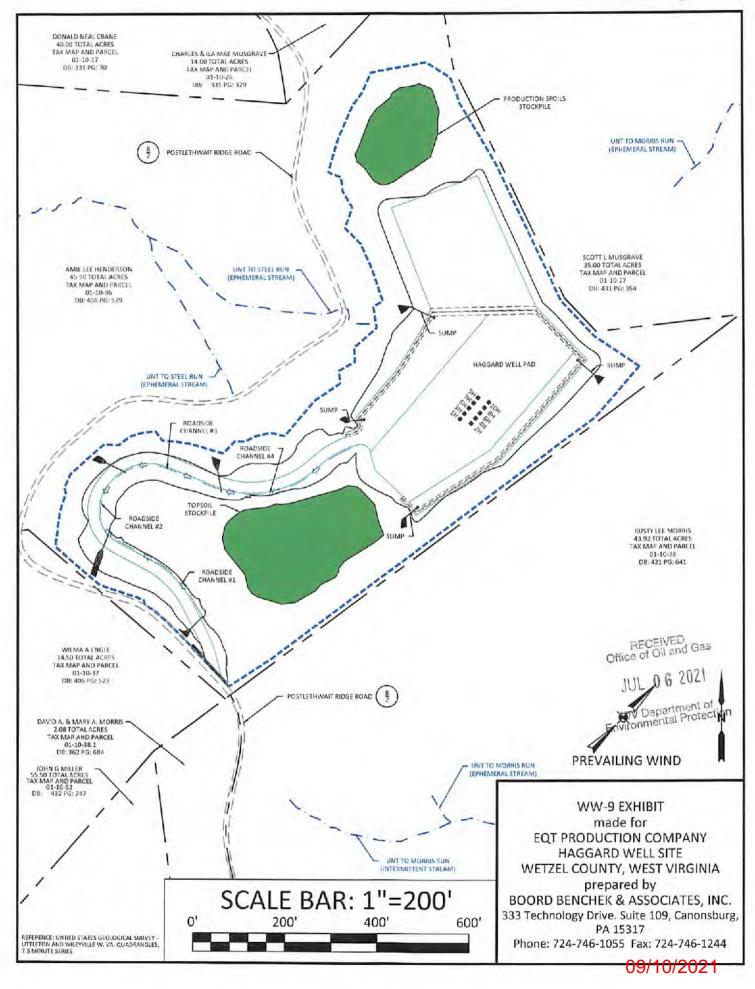
WV Department of Environmental Protection

09/10/2021

Operator's Well No. Haggard 4H

09/10/2021

EQT Production Co	ompany		
Proposed Revegetation Trea	atment: Acres Disturbed	Prevegetation pH	I
Lime 3	Tons/acre or to correct to	pH 6.5	
Fertilizer type Gra	anular 10-20-20		
Fertilizer amount	500	_lbs/acre	
Mulch 2	Tor	ns/acre	
	s	eed Mixtures	
Т	emporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		
	mulch all disturbed a	areas as soon as reasona essary per WV DEP E&S	ably possible,
per regulation.	pgrado Edo do nooc	booking por VVV BEY Eac	Warraci.
~			
Title: Inspect	* 17	4	
	· OK	Date: 623-21	REGEN OFFICE of Oil
Field Reviewed?) Yes (X	Date: 6-23-21	REGEN Office of Oil
Field Reviewed?		,	Office of Oil JUL 0 WV Deparence of Environment



EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: Haggard

County: Wetzel

June 29, 2021

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WV Department of Environmental Protection

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Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Wetzel County, WV prior to hydraulic fracturing at the following EQT wells on the Haggard pad: 2H, 4H, 6H, 8H, 10H.

Due to the requirements under 35CSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation.

A report is required to be submitted along with a well work permit application.

The plan is being implemented as an additional safety measure to be utilized in conjunction with existing best management practices and emergency action plans for the site. These additional measures include coordination with well operators of the timing and location of the hydraulic fracturing, establishment of measures well operators should implement, and assurance that the OOG is notified of the timeline, as well as any issues that may arise during fracturing.

1. **Communications with Well Operators**

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known wells and well operators within 500 feet of this pad and the lateral sections that are known or could reasonably be expected to be within range of the fracture propagation. A map showing these wells along with a list of the wells and operators is included in Attachment A.

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

EQT will recommend to these operators at a minimum to:

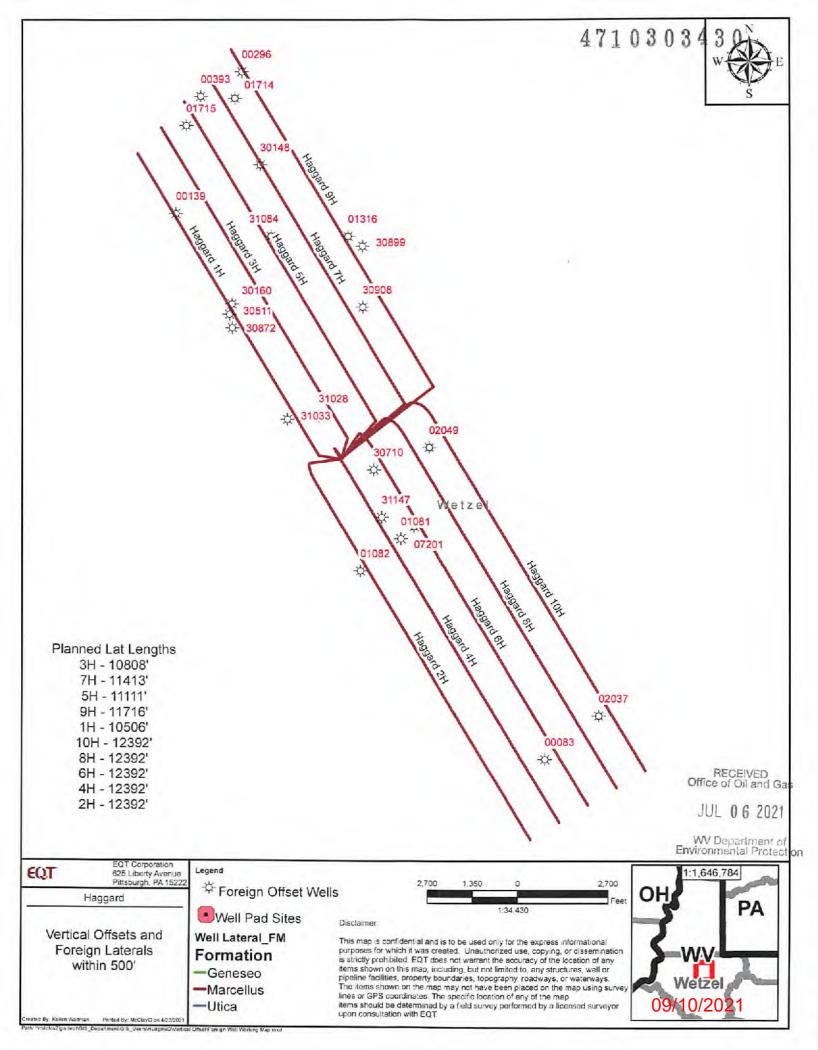
- 1. Inspect their surface equipment prior to fracturing to establish integrity and establish prefrac well conditions
- 2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- 3. Inspect or install master valves or other necessary equipment for wellhead integrity capable of a pressure recommended by EQT
- 4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

2. Reporting

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Office of Oil and Gas 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 JUL 06 2021 noted abnormalities.

WV Department of **Environmental Protection**

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### ### ### ### ### ### ### ### ### ##	WellD	WellStatus	date	FmatTD	Permit	RemarksPRQ	Operator	Longitude latitude	Targeti	Fm	DatumEleva	TotalDepth-SS	Total Depth
# 1000000000000000000000000000000000000	4710300083	DRY	3/29/1935				PAUL J BLANK	-80.5989	39.6293		1036.0000	-99999.0000	101035.00
#TIDIOCO256 ORG	4710300139	DRY	11/2/1936		00139		G EAGON	-80.6379	39.6741		1340.0000	-2022.0000	3362.00
471000039		046	3/3/1944		00296		PERNZOIL	-80.6308	39.6857		~1348.000	-2252,0000	3600.00
4710307051	4710300393	GAS-P	6/22/1926		00393		COLUMBIA	-80.6352	39.6837		₩.000	-1971.0000	3260.00
#710301082 OIL 775/1904 OIGS FERRICOL 40.6189 39.6448 Ö			12/31/1903		01081		PENNZOIL	-EO 6141	39.6474	(f)	- := :su.coc	-1935.0000	3453.00
47103031315 OBG 112/1994 OBG 112/1996 OBG 112/1996 OBG OFF OFF OFF OFF OFF OFF OFF OFF OFF OF			7/5/1904		01082		PERINZOIL	-80.6184	39.6449	Ö	C Us75.000	-1925.0000	3500.00
#108001715 OAG \$\frac{1}{2}\frac{1}\frac{1}{2}\frac{1}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\	4710301316	08G	12/2/1984		01316		CHASE PETROLEUM	-80.6196	39.6722		Ŭ128.0000	-3072.0000	4200.00
4710310715 OBG 471871975 OTT 5 GDN HOMER OIL & EAS 40.6567 97.96.413 OFT 5 GDN HOMER OIL & EAS 40.6567 97.96.4			5/10/1926		01714	GDN	HORNER OIL & GAS	-80.6316	39.6435		~ 7350.000	-1930.0000	3280.00
471030007 GAS 97447004 0007 BNGGN DAC 49.0511 39.5539 UT 0 2194.0000 MIAO 471030009 GAS 11/197004 0009 GDN DAC 40.0511 39.5540 UT 0 2194.0000 MIAO 47103000701 GAS 11/197004 0009 GDN DAC ASCENT REMOVEMENT 40.0517 39.5444 UT 0 40.0517 39.5400 UT 0 40.0517 39.5500 UT 0 40.0517 39.0500 UT 0 40.0517 39.5500 UT 0 40.0517 39.0500			4/28/1925		01715	GDN	HORNER OIL & GAS	-80.6367	39.6813				3401.00
#11090070701 GAS 11/19/20015 0/2011 ASCENT RESOURCE-MARCELLUS 40.617 39.644 UP 4710305164 OIL 55450000 39.600 1642.200 1			9/26/2004		02037	ENIGON	DAC	-80.5932	39.6329	m 5 (7	⊂ On w ww	-2194,0000	3434.00
4710330104 OIL 55 10/47/0015 O7201 ASCENT RESOURCES-MARKEUUS 4-0.6127 9-3.6444 OPEN MINONIN 40.628 9-3.6.770 UIG GROUND 15/48,0000 16/42/0000 15/48,0000 16/42/0000 1			11/19/2004		02049	GDN	DAC	-80.6111	39.6549		~ →167.000		3570.00
#10330148 OIL 65 #10330148 OIL 65 #10330149 OFTEN MENLOWN 4.0 CLSP 93.6787 OFTEN MENLOWN 4.0 CLSP 93.6781 OFTEN MENLOWN 4.0 CLSP 93.6782 OFTEN MENLOWN 4.0					07201		ASCENT RESOURCES-MARCELLUS	-80.6127	39.6484		₩ . Bet 0000	-15458.0000	16822.00
4710339150 GAS 7714/1970 90100 SOUTH PRINN 4.0.6.131 9.56.667 Up 0 1012.0000 1977.0000 319.0000 1977.0000 319.0000 1977.0000 319.0000 1977.0000 319.0000 1977.0000 319.0000 19					30148		OPER IN MIN.OWN	-80.6289	39.6720	#O 👄	% <u>G</u> 66000	-2035.0000	3395.00
4710330977 OIL 1/14/1906 30877 QUAKER STATE 4.0.6119 93.6647 Q G (G)11.0000 1.999.0000 3310.00 471033099 OIL 3/12/1901 30899 QUAKER STATE 4.0.6181 93.664 Q (G)11.0000 1.999.0000 324.00 471033096 OIL 5/19/1901 5098 QUAKER STATE 4.0.6181 93.664 Q (G)11.0000 1.999.0000 324.00 4710330028 OIL 4/12/1905 LOWER HURON SHALE 31028 HOPE HAIT CAS 4.0.6278 93.6575 G (G)1.0000 1.996.0000 324.000 4710331039 OIL 1/15/1903 LOWER HURON SHALE 31031 WILLIAM MOSES 4.0.6278 93.6572 LUBS 7.0000 1.996.0000 3125.00 4710331034 OIL LOWER HURON SHALE 31034 OPER IN MINLOWN 4.0.6278 93.6572 LUBS 7.0000 1.915.0000 13125.00			7/14/1920		30160		SOUTH PENN	-EQ 6319	39.6667	O+ -			
4710330977 OIL 1/14/1906 30877 QUAKER STATE 4.0.6119 93.6647 Q G (G)11.0000 1.999.0000 3310.00 471033099 OIL 3/12/1901 30899 QUAKER STATE 4.0.6181 93.664 Q (G)11.0000 1.999.0000 324.00 471033096 OIL 5/19/1901 5098 QUAKER STATE 4.0.6181 93.664 Q (G)11.0000 1.999.0000 324.00 4710330028 OIL 4/12/1905 LOWER HURON SHALE 31028 HOPE HAIT CAS 4.0.6278 93.6575 G (G)1.0000 1.996.0000 324.000 4710331039 OIL 1/15/1903 LOWER HURON SHALE 31031 WILLIAM MOSES 4.0.6278 93.6572 LUBS 7.0000 1.996.0000 3125.00 4710331034 OIL LOWER HURON SHALE 31034 OPER IN MINLOWN 4.0.6278 93.6572 LUBS 7.0000 1.915.0000 13125.00					30511		RAAD SUPPLY	-80.6322	39.6658	шо,	~ 20 m m m	-2056,0000	3269.00
4710330977 OIL 1/14/1906 30877 QUAKER STATE 4.0.6119 93.6647 Q G (G)11.0000 1.999.0000 3310.00 471033099 OIL 3/12/1901 30899 QUAKER STATE 4.0.6181 93.664 Q (G)11.0000 1.999.0000 324.00 471033096 OIL 5/19/1901 5098 QUAKER STATE 4.0.6181 93.664 Q (G)11.0000 1.999.0000 324.00 4710330028 OIL 4/12/1905 LOWER HURON SHALE 31028 HOPE HAIT CAS 4.0.6278 93.6575 G (G)1.0000 1.996.0000 324.000 4710331039 OIL 1/15/1903 LOWER HURON SHALE 31031 WILLIAM MOSES 4.0.6278 93.6572 LUBS 7.0000 1.996.0000 3125.00 4710331034 OIL LOWER HURON SHALE 31034 OPER IN MINLOWN 4.0.6278 93.6572 LUBS 7.0000 1.915.0000 13125.00			7/10/1908		30710		RANDALL-ZOGG	-80.6169	39.6531	~ ~ _	— 78 55,000	-1935,0000	3190.00
4710330599 OIL \$71271901 \$0899 QUAKER \$71ATE 4.0.6131 39.6574 ₹ \$\$\$1.000 1.9285.0000 1247.00 \$1247.00					30872		QUAKER STATE	-80.6319	39.6647				
4710330908 OIL \$/19/1901 30908 QUAKER STATE -\$0.6181 39.6664					30899		QUAKER STATE	-20.6181	39.6714				
4710331028 OIL 4727/1995 LOWER-HUMON SHALE 31028 HOPE NAT CAS -40.6278 91.6575 EAS.0000 1968.0000 M53.00 4710331033 OIL 1/33/19903 LOWER-HUMON SHALE 31031 WRILLIAM MOSES -40.6278 91.6572 LIB-1,0000 1917.0000 3127.00 4710331034 OIL LOWER-HUMON SHALE 31034 OPER NI MINLOWN -40.6278 91.6722 1310.0000 1917.000 3127.00							QUAKER STATE	-80.6181	39.6664	* *			
4710331033 OIL 1/15/1903 LOWER HUNON SHALE 31033 WILLIAM MOSES 40.6261 39.6572 LL\$67,0000 -1967,0000 3134,00 4710331084 OIL LOWER HUNON SHALE 31084 OPER IN MINI-OWN 40.6278 39.6722 1310,0000 -1815,0000 3125,00				LOWER HURON SHALE			HOPE NAT GAS	-80.6228	39.6575	0			
4710331094 OIL LOWS R HURON SHALE 31094 OPER IN MINLOWN 40,6478 39,6722 1310,0000 1315,0000 3125,00													
								-80.6278					
	4710331147	O&G	7/5/1904		31147		QUAKER STATE	-80.6161	39.6492		1468.0000		3407.00



SITE SAFETY AND ENVIRONMENTAL PLAN

Haggard Well Pad

Littleton Wetzel County, WV

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

Approved By: Scott M. Held, Senior Safety Coordinator

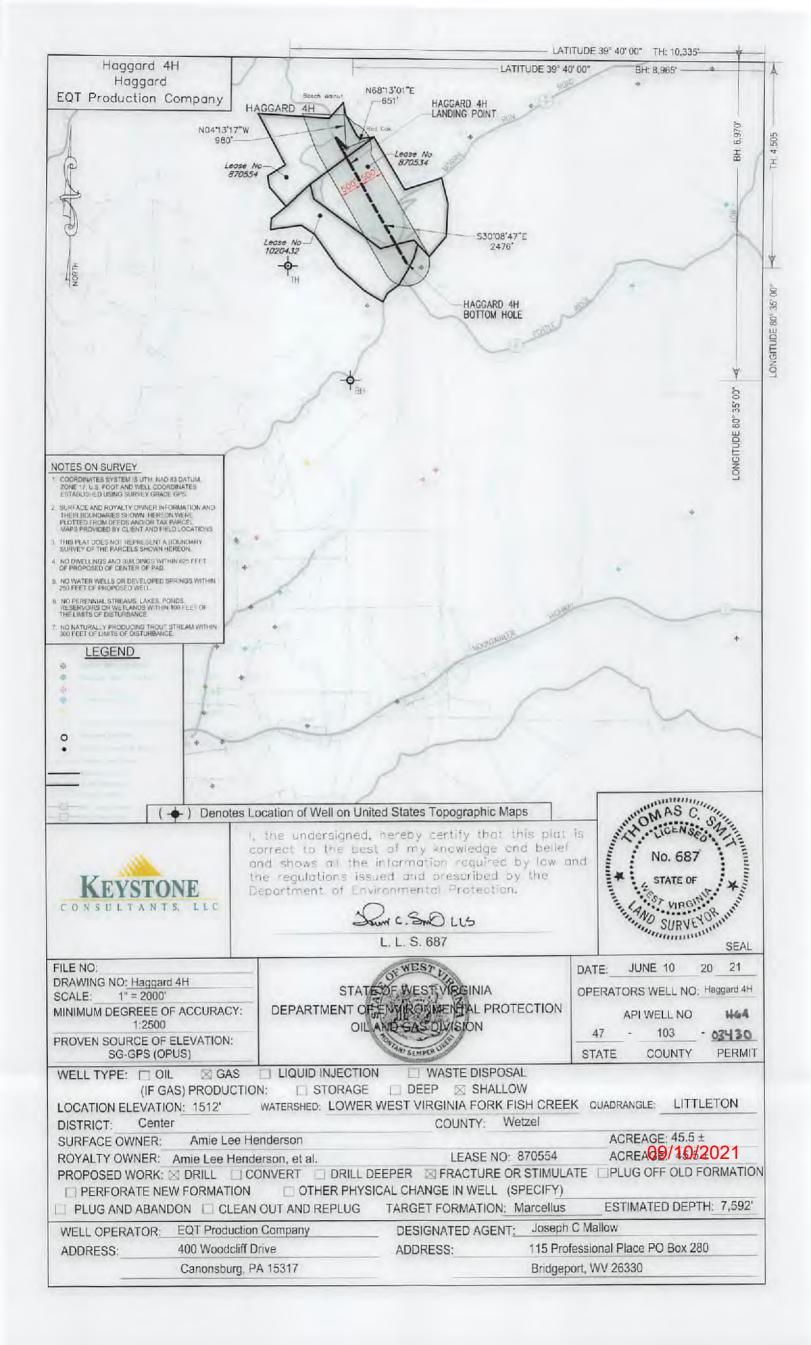
Created Date: 7-Aug-20

Bages Harn' 6.23-21

Revision #	<u>Date</u>	<u>Change/s</u>
1	1/29/2020	Plan total revision and reformat.
Plan Administrator:		Approver:
cott M. Held, CSP ienior Safety Coord		Michael Lauderbaugh Vice President of EHS

Topo Quad: Littleton Scale: 1"=1000" Wetzel January 25, 2021 County: Date: District: Center Project N0: __ HAGGARD WELL PAD Water 14 Potential Water Sources Within 2500' 1300 S)Site 2 Site 3 © Site W Site 10 Site 1 C Site 12 Site 13 Oil Well Site Site 6 W Site 7(W Access Road Site 8W Site 9W Qit Well Wel LEGEND HAGGARD WATER 1572 Oil Well E: 1,684.542.363 NAD 27 N: 422,314,723 Creek or Drain Long: -80.620223 WGS 84 Lat: 39.654178 - WV County Route Elevation: 1.512 -WV State Route Prepared For: Keystone Consultants, LLC **EQT Production Company** 32 East Main Street 400 Woodcliff Drive Canonsburg, PA 15317 Office of Oil and Ga Carnegie, PA 15106 20 PRODUCTION COMPANY 20 WOODCLIFF DRIVE 20 ANONSBURG, PA 15317 412 278-2100

W Dapartment 09/10/2021 Environmental Prot 09/10/2021



Haggard 4H Haggard EQT Production Company

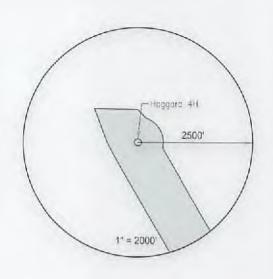
Tract ID.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	10	36.0	Wetrel	Center	Amie Lee Henderson	45.50
2	30	26.0	Wetter	Center	Charles & La Mae Musgrave	14.00
3	10	17.0	Wetrel	Center	Donald Neal Crane	40.00
4	10	27.0	Wetzel	Center	Scott i. Musgrave & Charles & Ila Musgrave	35.00
5	10	35.0	Wetzel	Center	Sharon J McMillen	82:00
Б	30	51.0	Wetzel	Center	Sharon J McMillen	10:00
7	10	37.0	Wetzel	Center	Amie Lee Henderson	14.50
8	10	38,1	Wetzel	Center	David A & Mary A Morris	2.08
9	10	38.0	Wetzel	Center	Rusty Lee Morns	43.92
10	10	39,0	Wetzel	Center	Rusty Lee Monts	25.12
1.1	30	54.0	Watzel	Center	Ronnie E & Yvonne M Wade	65.79
12	10	53.0	Wetzel	Center	Wilma Morris	24.10
13	10	52.2	Wetzel	Center	John G Miller	3.02
14	10	49.0	Wetzel	Center	Sharon I McMillen	33.00
15	14	5.0	Wetzel	Center	Coastal Porest Resources Co	56:15
16	10	52.1	Wetzel	Center	Rusty Lee Morris	3,48
17	14	6.0	Wetzel	Center	John W Furlang	29.70
18	14.	19.0	Wetzel	Center	Eugene Arnold Postlethwait	132.68
19	30	52.0	Wetzel	Center	John G Miller ETAL	55.50
20	14	8.0	Wetzel	Center	Joan E & Arthur Miller	20.86
21	30	39.1	Wetzel	Center	John & Roth A Reilly	26.00
Le	ase			Owne	er Ac	res
870554		Amie Le	e Hende	erson, et al. 45	.5	

Goldie Poole, et al.

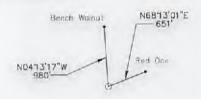
John G. Miller, et al.

95.7

55.5



Well References



1" = 1500"

HAGGARD 4H

Notes

NOTES:
HAGGARD 4H coordinates are
NAD 27 N: 422,366,002 E: 1,684,574,814
NAD 27 Lat: 39,654239 Long: -80,620300
NAD 83 UTM N: 4,389,460,196 E: 532,590,256

HAGGARD 4H Landing Point coordinates are NAD 27 N: 422,023,990 E 1,684,662,761 NAD 27 Lat: 39,653303 Long -80,619972 NAD 83 UTM N: 4,389,356,447 E: 532,616,786

HAGGARD 4H Bottom Hole coordinates are NAD 27 N: 419.882,581 E: 1,685,906,463 NAD 27 Lat: 39.647466 Long. -80.615461 NAD 83 UTM N: 4,388,710,381 E: 533,008,567

West Virginia Coordinates system of 1927 (North Zone) based upon Differential GPS Measurements
Plat orientation, Corner and well bes are based upon
the grid north meridian
Well location references are based upon the grid north

meridian.
UTM coordinates are NAD83, Zone 17, Meters.



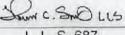
870534

1020432

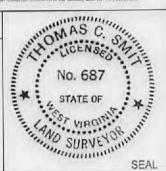
HAGGARD 9H HAGGARD 10H HAGGARD 8H HAGGARD 8H HAGGARD 6H HAGGARD 4H HAGGARD 4H HAGGARD 4H



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



FILE NO: DRAWING NO: Haggard 4H SCALE: 1" = 1000" MINIMUM DEGREE OF ACCURACY: 1:2500

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

DATE:	JUNE 10			21
OPERATO	RS W	ELL NO:	Ha	ggard 4H
	API	WELL NO		HGA
47	-	103		03430
STATE		COUNTY		PERMIT

NGS CORS Station	ATION:	STANI SEMPER LUIT			YTNUC	PERMIT
(IF GAS) PR			N	QUADRANGLE:	LITTLE	TON
DISTRICT: Center	012	The state of the s	etzel	- 1111111111111		
001111102 011112111	mie Lee Henderson	LEASE NO:	870554	ACREAGE	09/10/2	021
PROPOSED WORK: 🗵 DR		DEEPER FRACTURE OF	STIMULATE		F OLD FOR	
□ PERFORATE NEW FOR□ PLUG AND ABANDON	RMATION OTHER PHY CLEAN OUT AND REPLUG	SICAL CHANGE IN WELL (SF TARGET FORMATION:	Marcellus	ESTIMATE	D DEPTH.	7,592'
WELL OPERATOR: EQT	Production Company	DESIGNATED AGENT:	Joseph C	Mallow		
ADDRESS: 400	Woodcliff Drive	ADDRESS:	115 Profes	ssional Place PO	Box 280	
Car	nonsburg, PA 15317		Bridgepor	t, WV 26330		

WW-6A1 (5/13)

Operator's Well No.	Haggard 4H

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
870554	See Attached			

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

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

RECEIVED
Office of Oil and Gas**

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

UU 0.6 2021

JUL 0 6 2021

WV Department of Environmental Protection

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:	Erin Spine 5:				
Its:	Supervisor - Subsurface Permitting				

4710303430

WW-6A1 attachment Operator's Well No. Haggard #4H

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	
	Amie Lee Henderson, et al.			"at least 1/8th per WV Code 22-6-8"	
<u>870554</u>	Amie Lee Henderson, a married woman dealing in her sole and separate property	45.5 ac	EQT Production Company		OG 215A/785
<u>870534</u>	Goldie Poole, et al. Goldie Poole, a single woman	95.7 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 183A/894
<u>1020432</u>	John G. Miller, et al. John G. Miller, a married man dealing in his sole and separate property	55.495 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 192A/811

RECEIVED Office of Oil and Gas

JUL 0 6 2021

WV Department of Environmental Protection



EQT PRODUCTION COMPANY 400 Woodcliff Drive | Canonsburg, PA 15317

June 29, 2021

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

Re: Haggard 4H 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

RECEIVED Office of Oil and Gas

JUL 06 2021

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: 7/1/2021	API No. 47-	03 - 0	3430
Date of Hote	7/1/3031	Operator's We	II No. 4H	
		Well Pad Nam		
Notice has	neen given:			
Pursuant to th	ne provisions in West Virginia Code	22-6A, the Operator has provided the require	d parties w	ith the Notice Forms listed
below for the	tract of land as follows:			
State:	West Virginia	Easting: 532	2590.256	
County:	Wetzel	UTM NAD 83 Porthing: 438	39460.196	
District:	Center	Public Road Access: CR	8/2	
Quadrangle:	Littleton	Generally used farm name: Hag	ggard /	
Watershed:	Lower West Virginia Fork Fish Creek			
information to of giving the requirements Virginia Cod of this article Pursuant to that the Open *PLEASE CH	equired by subsections (b) and (c), so a surface owner notice of entry to so of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall have been completed by the applicant west Virginia Code § 22-6A, the Operator has properly served the requirements.	perator has attached proof to this Notice Certif d parties with the following:	rement was of this artic surface ow t the notice fication	deemed satisfied as a resul- cle six-a; or (iii) the notice wher; and Pursuant to Wes- requirements of section ter OOG OFFICE USE ONLY
LI I. NO	TICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUSE SEISMIC ACTIVITY WAS CONDUCTED		RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURY	/EY or NO PLAT SURVEY WAS CONT	DUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or		RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)	OWNER	
■ 4. NO	TICE OF PLANNED OPERATION			☐ RECEIVED
■ 5. PU	BLIC NOTICE			☐ RECEIVED
■ 6. NO	TICE OF APPLICATION			☐ 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 Fersonal service, the return receipt card or other postal receipt for certified mailing.

JUL 06 2021



WW-6AC (1/12)

Certification of Notice is hereby given:

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

Well Operator: EQT Production Company
By: Erin Spine

Its: Supervisor - Subsurface Permitting

Telephone: 724-809-5469

Address: 400 Woodcliff Drive

Canonsburg, PA 15317

Facsimile: 412-395-2974

Email: espine@eqt.com

Commonwealth of Pennsylvania - Notary Seal Olivia Pishioneri, Notary Public

Olivia Pishioneri, Notary Public
Allegheny County
My commission expires October 25, 2023

Commission number 1359968

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this

Notary Public

My Commission Expires October 25, 202

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.

RECEIVED Office of Oil and Gas

JUL 0 6 2021

W Department of Environmental 09/40/2021

11

PI NO. 47- 10	3 - 03430
PERATOR WE	
Well Pad Name:	Haggard

JUL 06 2021

WV Depar 09/10/2021 Environmental Protection

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

Notice Time Requirement: notice shall be provided no later that	an the thing date of permit application.
Date of Notice: 711/2/ Date Permit Application Filed. 1.	2/21
Notice of:	1
✓ PERMIT FOR ANY ☐ CERTIFICATE OF API	PROVAL FOR THE
수 가장 이 없는 가장 그렇게 하는 것이 하면 하게 되었다. 그 그 그 사람들은 그 사람들은 그 사람들이 되었다. 그렇게 하는 것이 없는 것이다.	AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-10	O(b)
☐ PERSONAL ☐ REGISTERED ☑ METH	OD OF DELIVERY THAT REQUIRES A
SERVICE MAIL RECE	IPT OR SIGNATURE CONFIRMATION
sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be loc oil and gas leasehold being developed by the proposed well work, i described in the erosion and sediment control plan submitted pursu operator or lessee, in the event the tract of land on which the well p more coal seams; (4) The owners of record of the surface tract or tr well work, if the surface tract is to be used for the placement, const impoundment or pit as described in section nine of this article; (5) have a water well, spring or water supply source located within one provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than thresubsection (b) of this section hold interests in the lands, the applicate records of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is not	the tenants in common or other co-owners of interests described in the ant may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any thorocode to a landowner, unless the lien holder is the landowner, W. Va. provide the Well Site Safety Plan ("WSSP") to the surface owner and any
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice	e ☑ Well Plat Notice is hereby provided to:
SURFACE OWNER(s) Name: See Attached List	☑ COAL OWNER OR LESSEE Name: See Attached List
Address:	Address:
Name:	COAL OPERATOR
Address:	Name:
	Address:
SURFACE OWNER(s) (Road and/or Other Disturbance)	SURFACE OWNER OF WATER WELL
Name:Address:	AND/OR WATER PURVEYOR(s)
71441 (33.	Name: See Attached List
Name:	Address:
Address:	
	☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name:Address:	Address:
Address.	*Please attach additional forms if necessary
	and the second s
	RECEIVED Office of Oil and Gas

API NO. 47- 103 - 05430 OPERATOR WELL NO. 4H

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(h), this notice shall include: (1) copies of the application: (2) the crosion 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 lesting as provided in section 15 of this rule.

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston. WV 25304 (304-926-0450) or by visiting www.dep.uv.epsicol.com

Office of the Secretary of the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston. WV 25304 (304-926-0450) or by visiting www.dep.uv.epsicol.com

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Office of the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston. TAT 0 & 5051

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12. Wells may not be drilled within two hundred lifty feet measured horizontally from any existing in the control of the con water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located Nithin \$18 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 eattle 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. (c) 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

WW-6A (8-13) API NO. 47- /03 - 03430
OPERATOR WELL NO. 4H
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 comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

JUL 0 6 2021

W 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.

WW-6A (8-13) API NO. 47- 103 - 03430
OPERATOR WELL NO. 4H
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 http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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

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

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

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

Office of Oil and Gas

JUL 0 6 2021

WV Department of Environmental Protection

WW-6A (8-13)

API NO. 47- 103 - 03430
OPERATOR WELL NO. 4H
Well Pad Name: Haggard

Notice is hereby given by:

Well Operator: EQT Production Company

Telephone: 724-809-5469 Email: espine@eqt.com Address: 400 Woodcliff Drive

Canonsburg, PA 15317

Facsimile: 412-395-2974

Oil and Gas Privacy Notice:

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

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

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 2nd day of July. 2021

Notary Public

My Commission Expires

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JUL 06 2021

WV Department Environmental Protection

Topo Quad:	Littleton		Scale: 1"=100	0'	
County:	Wetzel		Date:January	25, 2021	
District:	Center	-	Project N0:		
NORTH CATALOG TO THE CATALOG THE CATALOG TO THE CATALOG THE CATALOG TO THE CATALO	F	Site 4 Site 1 (W) Site 6 (W) Site 7 (W) Access Road	WELL Fources Within 250 Site 2 Site 3 C Site 12 Site 13		Water Oil Well Oir Well
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		1/-//	0		
LEGEND	214		1 7	HAGGARD	WATER
Woter Well Creek or Drain WV County Route			72 Oll Well	NAD 27 N: 422,314.723 WGS 84 Lat: 39.654178 Elevation: 1,512	E: 1,684,542.363 Long: -80.620223
KEYS	TONE	Keystone Consultants, LLC 32 East Main Street Carnegie, PA 15106 412 278-2100	Prepared For: EQT Production Co 400 Woodcliff Driv Canonsburg, PA 15	9317 RECEIVED Gas	DOUCTION COMPANY WOODCLIFF DRIVE INSBURG, PA 16317

JUL U 6 EUE O9/10/2021

WV Department of O9/10/2021

Environmental Protection

Surface Owner (All Disturbance):

Amie Lee Henderson 470 Travis Drive Bridgeport, WV 26330

Water Supply Owners within 1,500'

Charles & IIa Mae Musgrave 50**50** Postlethwait Ridge Rd, Wileyville, WV 26581

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

Coal Owners

Consol RCPC LLC 1000 Consol Energy Drive Canonsburg, PA 15317

Blackrock Enterprises, LLC PO Box 342 Salem, WV 26424

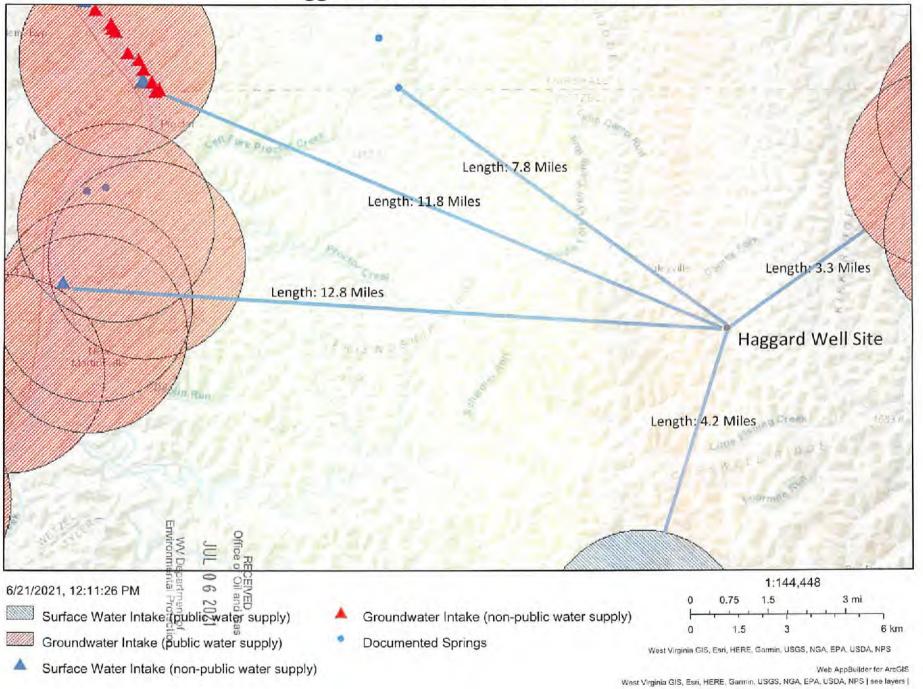
Amie Lee Henderson 470 Travis Drive Bridgeport, WV 26330

> RECEIVED Office of Oil and Gas

> > JUL 06 2021

W Department of Environmental Protection 09/10/2021

Haggard Well Site Water Resources



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	1	made by EQT's 3rd party pre-dril sampling lab)
Coordinates: (decimal degrees NAD83)	39.657040, -80.621911		San thurs 1901
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 s 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 & Ila Mae Musgrave	1	Landowner Decline
Address:	5050 Postlethwait Ridge Rd, Wileyville, WV 26581		Sampling
Phone #:	304-775-2392		
Field Located Date:	11/2/2020		Unable to Contact (Further Contact attempts to be
Owner Home during Survey (Y/N)	Yes		made by EQT's 3rd party pre-dri
Coordinates: (decimal degrees NAD83)	39.65867480.620565	1	sampling lab]
Contact Attempts (Date):	1st: 8/25/2020 2nd: 10/30/2020 Door Hanger Left:	-	1 1 1 1 1 1 1 1 1
Comments:	SPRING - Located near spring holding tank. Certified mail sent 11/02/2020.		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		Harris G. B. Cont.
Field Located Date:	11/2/2020		Unable to Contact (Further Contact attempts to be
Owner Home during Survey (Y/N)	Yes		made by EQT's 3rd party pre-dri
Coordinates: (decimal degrees NAD83)	39.658652, -80.620613	1	sampling lab)
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.	************	. Field visit



Site Number:	4		Landowner Requested
Distance from Gas Well (Ft):	2377±	v	Sampling
Surface Owner/ Occupant:	Calvin T Jr. & Monica L Morris		Landowner Decline
Address:	711 Morris Run Road, Wileyville, WV 26581		Sampling
Phone #:	304-775-2029		Unable to Contact
Field Located Date:	1/11/2021		(Further Contact attempts to be
Owner Home during Survey (Y/N)	Yes		made by EQT's 3rd party pre-drill
Coordinates: (decimal degrees NAD83)	39.658803, -80.614285		sampling lab)
Contact Attempts (Date):	1st: 8/25/2020 2nd: Door Hanger Left:		
Comments:	POND - Certified mail sent 7/23/2020. Field visit 1/11/2021.		
Cita Namban	le .		Landauman Bassastad
Site Number:	5	✓	Landowner Requested Sampling
Distance from Gas Well (Ft):	2352±	ŀ	. •
Surface Owner/ Occupant:	Calvin T Jr. & Monica L Morris		Landowner Decline Sampling
Address:	711 Morris Run Road, Wileyville, WV 26581		Sampung
Phone #:	304-775-2029		Unable to Contact
Field Located Date:	1/11/2021	_	(Further Contact attempts to be
Owner Home during Survey (Y/N)	Yes	1	made by EQT's 3rd party pre-drill sampling lab)
Coordinates: (decimal degrees NAD83)	<u> </u> 39.654314, -80.611764	<u> </u>	
Contact Attempts (Date):	1st: 8/25/2020 2nd: 1/8/2021 Door Hanger Left:	İ	***************************************
Comments:	WATER WELL - Certified mail sent 7/23/2020. Field visit 01/11/	2021.	
Site Number:	6	[2]	Landowner Requested
Distance from Gas Well (Ft):	924±	Ø	Landowner Requested Sampling
Distance from Gas Well (Ft): Surface Owner/ Occupant:	924± David A & Mary A Morris		Sampling Landowner Decline
Distance from Gas Well (Ft): Surface Owner/ Occupant: Address:	924± David A & Mary A Morris 4459 Postlethwait PDG Road, Wileyville, WV 26581		Sampling
Distance from Gas Well (Ft): Surface Owner/ Occupant: Address: Phone #:	924± David A & Mary A Morris 4459 Postlethwait PDG Road, Wileyville, WV 26581 304-775-4301		Sampling Landowner Decline Sampling
Distance from Gas Well (Ft): Surface Owner/ Occupant: Address: Phone #: Field Located Date:	924± David A & Mary A Morris 4459 Postlethwait PDG Road, Wileyville, WV 26581 304-775-4301 8/27/2020		Sampling Landowner Decline Sampling Unable to Contact (Further Contact attempts to be
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WV Department (
Environmental Professional Environmental Professional Environmental Professional Professiona

Site Number:	8	Ø	Landowner Requested
Distance from Gas Well (Ft):	1528±	V	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		(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		
Contact Attempts (Date):	1st: 8/25/2020 2nd: Door Hanger Left:		pa pa ba
Comments:	WATER WELL - Located about 150 ft. from road. Certified mail s 01/11/2021.	ent 7/	/23/2020. Field visit
en v	In		
Site Number:	9	Ø	Landowner Requested Sampling
Distance from Gas Well (Ft):	1636±		
Surface Owner/ Occupant:	John G. Miller		Landowner Decline Sampling
Address:	4337 Postlethwait Ridge Rd, Wileyville, WV 26581		Sampling
Phone #:	304-775-5373 To do a do		Unable to Contact
Field Located Date:	1/11/2021	_	(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)	39.649592, -80.619899		
Contact Attempts (Date):	1st: 8/25/2020 2nd: 1/8/2021 Door Hanger Left:		
Comments:	WATER WELL - Located about 70 ft. from road. Certified mail se 1/11/2021.	nt 7/2	23/2020. Field visit
Site Number:	10		Landowner Requested
Distance from Gas Well (Ft):	±	Ø	Sampling
Surface Owner/ Occupant:	Donald Neal Crane		Landowner Decline
Address:	Postlethwait Ridge Rd Littleton, WV 26581		Sampling
Phone #:	234-567-0889	_	Hughla to Contact
Field Located Date:			Unable to Contact (Further Contact attempts to be
Owner Home during Survey (Y/N)			made by EQT's 3rd party pre-drill
Coordinates: (decimal degrees NAD83)			sampling lab)
Contact Attempts (Date):	1st: 8/25/2020 2nd: 1/8/2021 Door Hanger Left:		
Comments:	WATER WELL - 1 Water well. Not field located. Landowner liste Questionnaire. They were not field located. Certified mail sent	•	_
Cita Number	14		
Site Number: Distance from Gas Well (Ft):	[11]	Ø	Landowner Requested Sampling
***************************************	Control March Control		
Surface Owner/ Occupant: Address:	Scott L Musgrave & Charles & Ila Musgrave		Landowner Decline Sampling
Phone #:	5050 Postlethwait Ridge Rd, Wileyville, WV 26581		Samping
•4••••••••••••••••••••••••••••••••••••	304-775-2392		Unable to Contact
Field Located Date:			{Further Contact attempts to be made by EQT's 3rd party pre-drill
Owner Home during Survey (Y/N)	20.555003 00.517445	ĺ	sampling lab)
Coordinates: (decimal degrees NAD83)	39.656092, -80.617445		
Contact Attempts (Date):	1st: 8/25/2020 2nd: 1/8/2021 Door Hanger Left:		***************************************
Comments:	STREAM - Certified mail sent 7/23/2020. Not Field Located, Tak		
		0	HEOENED ffice of Oil and Gas

JUL 06 2021

W Department of Environmo 8/4 0/2021

WW-6A4 (1/12) Operator Well No. Haggard 4H

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.

Date of Not				
Delivery m	ethod pursuant	to West Virginia	Code § 22-6A-16(b)	
☐ HAND		CERTIFIED MA	AIL	
DELIV		RETURN RECI	EIPT REQUESTED	
eceipt requirilling a ho of this subsection r	ested or hand de orizontal well: a ection as of the may be waived i	clivery, give the sur- provided, That not date the notice was n writing by the su	ast ten days prior to filing a permit application, inface owner notice of its intent to enter upon the tice given pursuant to subsection (a), section to s provided to the surface owner: <i>Provided</i> , how arface owner. The notice, if required, shall include nic mail address of the operator and the operator	the surface owner's land for the purpose of en of this article satisfies the requirement rever. That the notice requirements of thit lude the name, address, telephone number
		d to the SURFA	ACE OWNER(s):	
	nie Lee Henderson		Name:	
The state of the s	6 Ridgeway Dr idgeport, WV 26330		Address:	
Notice is he Pursuant to he surface (State:	ereby given: West Virginia (b), notice is hereby given that the undersigned illing a horizontal well on the tract of land as for UTM NAD 83 Easting: Northing:	
Notice is he Pursuant to he surface State: County:	ereby given: West Virginia (owner's land for West Virginia West Virginia Wetzel Center		b), notice is hereby given that the undersigned illing a horizontal well on the tract of land as for Easting: UTM NAD 83 Rorthing: Public Road Access:	bllows: 532590.256
Notice is h	ereby given: West Virginia (owner's land for West Virginia Wetzel Center Littleton		b), notice is hereby given that the undersigned illing a horizontal well on the tract of land as for Easting: UTM NAD 83 Rorthing:	532590.256 4389460,196 CR 8/2
Notice is he Pursuant to the surface of State: County: District: Quadrangle Watershed: This Notice Pursuant to facsimile no related to he	ereby given: West Virginia Cowner's land for West Virginia Wetzel Center Littleton Lower West Virginia west Virginia Establication Lower West Virginia Littleton	the purpose of dri	b), notice is hereby given that the undersigned illing a horizontal well on the tract of land as for Easting: UTM NAD 83 Rorthing: Public Road Access:	ollows: 532590.256 4389460.196 CR 8/2 Haggard ress, telephone number, and if available ed representative. Additional informatio of Environmental Protection headquarters
Notice is he Pursuant to the surface of State: County: District: Quadrangle Watershed: This Notice Pursuant to facsimile no related to he located at 6	ereby given: West Virginia Cowner's land for West Virginia Wetzel Center Littleton Lower West Virginia amber and electorizontal drillin 01 57th Street, Stereby given by	the purpose of dri	b), notice is hereby given that the undersigned illing a horizontal well on the tract of land as for the control of the contro	ollows: 532590.256 4389460,196 GR 8/2 Haggard ress, telephone number, and if available of representative. Additional information of Environmental Protection headquarters ep.wv.gov/oil-and-gas/pages/default.aspx
Notice is he Pursuant to he surface of State: County: District: Quadrangle Watershed: This Notice Pursuant to facsimile notice at 6 Notice is he Well Opera	ereby given: West Virginia Cowner's land for West Virginia Wetzel Center Littleton Lower West Virginia umber and electorizontal drillin 01 57th Street, Street, Streety given both.	the purpose of dri	b), notice is hereby given that the undersigned illing a horizontal well on the tract of land as for the undersigned. UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: 6(b), this notice shall include the name, additions of the operator and the operator's authorized from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.de	ollows: 532590.256 4389480,196 CR 8/2 Haggard ress, telephone number, and if available ed representative. Additional informatio of Environmental Protection headquarters ep.wv.gov/oil-and-gas/pages/default.aspx
Notice is he Pursuant to he surface of State: County: District: Quadrangle Watershed: Pursuant to Pursuant to related to hocated at 6 Notice is he Well Opera	ereby given: West Virginia Cowner's land for West Virginia Wetzel Center Littleton Lower West Virginia amber and electorizontal drillin 01 57th Street, Street, Streety given both EQT Production	the purpose of dri	b), notice is hereby given that the undersigned illing a horizontal well on the tract of land as for the control of the contro	ollows: 532590.256 4389480.198 CR 8/2 Haggard ress, telephone number, and if available of representative. Additional information of Environmental Protection headquarter: ep.wv.gov/oil-and-gas/pages/default.aspx Erin Spine 400 Woodcliff Drive
Notice is he Pursuant to he surface of State: County: District: Quadrangle Watershed: Fhis Notice Pursuant to facsimile nucleated to hocated at 6 Notice is he Well Opera	ereby given: West Virginia Cowner's land for West Virginia Wetzel Center Littleton Lower West Virginia west Virginia west Virginia tower West Virginia amber and electorizontal drillin 01 57th Street, S ereby given better: EQT Productif Ganonsburg,	the purpose of dri	b), notice is hereby given that the undersigned illing a horizontal well on the tract of land as for the UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: 6(b), this notice shall include the name, additions of the operator and the operator's authorized from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.de Authorized Representative: Address:	ollows: 532590.256 4389480.196 CR 8/2 Haggard ress, telephone number, and if available of representative. Additional information of Environmental Protection headquarter: ep.wv.gov/oil-and-gas/pages/default.aspx Erin Spine 400 Woodcliff Drive Canonsburg, PA 15317
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Notice is he Pursuant to he surface of State: County: District: Quadrangle Watershed: Fhis Notice Pursuant to facsimile nucleated to hocated at 6 Notice is he Well Opera	ereby given: West Virginia Cowner's land for West Virginia Wetzel Center Littleton Lower West Virginia west Virginia west Virginia tower West Virginia amber and electorizontal drillin 01 57th Street, S ereby given better: EQT Productif Ganonsburg,	the purpose of dri	b), notice is hereby given that the undersigned illing a horizontal well on the tract of land as for the UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: 6(b), this notice shall include the name, additions of the operator and the operator's authorized from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.de Authorized Representative: Address:	ollows: 532590.256 4389480.196 CR 8/2 Haggard ress, telephone number, and if availabled representative. Additional information of Environmental Protection headquarter ep.wv.gov/oil-and-gas/pages/default.aspy Erin Spine 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.

JUL 06 2021

WW-6A5 (1/12)

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

Date of Notice	Requirement: notice shall be pro	ovided no later than the filing ermit Application Filed: —	date of permit	application.
Delivery met	hod pursuant to West Virginia	Code § 22-6A-16(c)		
CERTII	FIED MAIL	☐ HAND		
	RN RECEIPT REQUESTED	DELIVERY		
return receipt the planned of required to be drilling of a lidamages to the (d) The notice of notice.	requested or hand delivery, give operation. The notice required be provided by subsection (b), section horizontal well; and (3) A propose surface affected by oil and gas are required by this section shall be by provided to the SURFACE is listed in the records of the sheri	the surface owner whose land by this subsection shall inclu- ion ten of this article to a surf- sed surface use and compen- operations to the extent the de- e given to the surface owner OWNER(s)	I will be used for de: (1) A copy ace owner whos sation agreemen amages are comp	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
Address: 470 Bridgeport, WV 20	Travis Drive	Addres	s:	
Address: 470° Bridgeport, WV 20° Notice is her Pursuant to W operation on State: County: District: Quadrangle:	eby given: /est Virginia Code § 22-6A-16(c) the surface owner's land for the pure Virginia Wetzel Center Littleton	Addres n, notice is hereby given that to purpose of drilling a horizonta UTM NAD 8 Public Road	he undersigned valued well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 532590,256 4389480.196 CR 8/2 Haggard
Address: 470° Bridgeport, WV 20° Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice Separation to Wood be provided the provid	eby given: /est Virginia Code § 22-6A-16(c) the surface owner's land for the particle of the surface owner's land for the particle owner's land for the par	Addres I, notice is hereby given that tourpose of drilling a horizonta UTM NAD a Public Road Generally us I), this notice shall include: (1 b) to a surface owner whose and compensation agreement the damages are compensation the Secret be obtained from the Secret	he undersigned valued on the tra Easting: Northing: Access: ed farm name:)A copy of this e land will be undersigned arm containing anompensable undersy, at the WV	code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection
Address: 470° Bridgeport, WV 20° Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice Surface affect information readquarters,	eby given: /est Virginia Code § 22-6A-16(c) the surface owner's land for the p West Virginia Wetzel Center Littleton Lower West Virginia Fork Fish Creek Shall Include: Vest Virginia Code § 22-6A-16(c) ed by W. Va. Code § 22-6A-10(e) ell; and (3) A proposed surface us ted by oil and gas operations to be related to horizontal drilling may located at 601 57th Street, SE, ault.aspx.	Addres I, notice is hereby given that tourpose of drilling a horizonta UTM NAD a Public Road Generally us I), this notice shall include: (1 b) to a surface owner whose and compensation agreement the damages are compensation the Secret be obtained from the Secret	he undersigned valued on the tra Easting: Northing: Access: ed farm name:)A copy of this e land will be undersigned arm containing anompensable undersy, at the WV	code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional
Address: 470- Bridgeport, WV 20 Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	eby given: /est Virginia Code § 22-6A-16(c) the surface owner's land for the p West Virginia Wetzel Center Littleton Lower West Virginia Fork Fish Creek Shall Include: Vest Virginia Code § 22-6A-16(c) ed by W. Va. Code § 22-6A-10(e) ell; and (3) A proposed surface us ted by oil and gas operations to be related to horizontal drilling may located at 601 57th Street, SE, ault.aspx.	Address In notice is hereby given that to burpose of drilling a horizonta UTM NAD and Public Road Generally us In this notice shall include: (1) to a surface owner whose and compensation agreement the extent the damages are of the obtained from the Secret Charleston, WV 25304	he undersigned valued on the tra Easting: Northing: Access: ed farm name:)A copy of this e land will be understand and the containing are containing are compensable understand, at the WV (304-926-0450)	code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

Oil and Gas Privacy Notice:

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





WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways Jimmy Wriston, P. E. Deputy Secretary/ Deputy Commissioner

June 16, 2021 /

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 4H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2021-0206 which has been issued to EQT 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.

Jan K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Olivia Wilson

EQT Production Company

CH, OM, D-6

File

Office of Oil and Gas

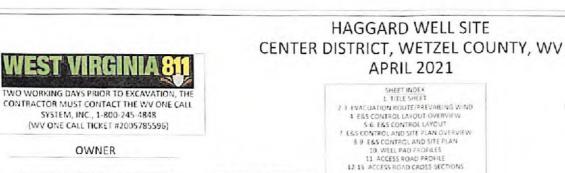
JUL 0 6 2021

WV Department of Environmental Prote 09/10/2021

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	77-92-9
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





16-19 DETAILS
20 RECLAMATION PLAN OVERVIEW
21-22 RECLAMATION PLAN APPROVED WVDEP OOG HXX 8/18/2021 TOTAL LIMITS OF DISTURBANCE, 15.24 AC. ACCESS ROAD DISTURBANCE AREA: 6:40 AC

PROPERTY PROJECT BOUNDARY ACREAGE

HAGGARD WELL SITE CENTER DISTRICT, WEIZEL COUNTY WV

AMILIES HENDERSON TAX MAR AND PARCE OF TO BE 15 29 MC

WELL PAD DISTURBANCE AREA 8 84 AC

PLANS PREPARED BY: BOORD BENCHEK & ASSOCIATES, INC. ENGINEERING SURVEYING, CONSTRUCTION AND MINING SERVICES SOUTHPOINTE, PA 15317 PHONE 724-746-1055





ANDREW BENCHEK

(NAD 83)

DF 22



LOT PRODUCTION COMPANY

400 WOODCUFF ORIVE, CANONSBURS, PA 15317

