

west virginia department of environmental protection

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

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

Monday, December 4, 2023 WELL WORK PERMIT Horizontal 6A / New Drill

EQT PRODUCTION COMPANY 400 WOODLIFF DR.

CANONSBURG, PA 15317

Re:

Permit approval for Carnegie 13H

47-049-02526-00-00

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: Carnegie 13H

Farm Name: Jeanne A Musgrave Akers & Jon

U.S. WELL NUMBER: 47-049-02526-00-00

Horizontal 6A New Drill

Date Issued: 12/4/2023

API Number:	47-049-02526
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PERMIT CONDITIONS

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

CONDITIONS

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

4704902526

API NO. 47-<u>049</u> - <u>6 25 26</u> OPERATOR WELL NO. 13H

Well Pad Name: Carnegie

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

1) Well Operator: EQT Produc	ction Company	306686	Marion /	Mannington	Glover Gap
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: 13H	1	Well Pad	Name: Carne	gie	
3) Farm Name/Surface Owner:	Jeanne Ann Musgrave Akers & Jo	Public Road	d Access: CR	7/3	
4) Elevation, current ground:	1,318' (built) < EI	evation, proposed p	ost-construction	on: 1,318' (built)
5) Well Type (a) Gas X	Oil		rground Storag		
Other	,			,	
(b)If Gas Shall	llow X	Deep			
Hor	izontal X				
6) Existing Pad: Yes or No Yes					
7) Proposed Target Formation(s) Marcellus, 7,712', 79', 2,593	, Depth(s), Antic	ipated Thickness ar	nd Expected Pr	essure(s):	
8) Proposed Total Vertical Depth	n: 7,712'				
9) Formation at Total Vertical De	epth: Marcellus	1			
10) Proposed Total Measured De	epth: 8,726'	3			
11) Proposed Horizontal Leg Ler	ngth: 190' /				
12) Approximate Fresh Water St	rata Depths:	309', 335', 341', 37	1', 709'		
13) Method to Determine Fresh V	Water Depths: C	Offset Wells - 049-30	050, 049-00200	, 048-30239	
14) Approximate Saltwater Deptl	hs: 1,852'		RE	t Oil and 2013	
15) Approximate Coal Seam Dep	oths: 515'-517', 66	69'-671', 937'-941', 1	034'-1 049 Miles	. 03 10	of an
16) Approximate Depth to Possib			/A	Debaume	A CLECTON
17) Does Proposed well location directly overlying or adjacent to a		yes X	No.	Euklouweural L	
(a) If Yes, provide Mine Info:	Name: Harriso	on County Mine			
	Depth: 1,034'-	-1,041'			
	Seam: Pittsbu	ırgh			
	Owner: Harriso	on County Coal Reso	ources		

API NO. 47-	7	0_	4	9	0	2	5	2	6	
OPERATO	DR V	VEL	LN	0.	13H				-	

Well Pad Name: Carnegie

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A252 GR 3 Bare	85.6	40	40 /	45 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1091	1091 /	1040 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2673	2673 /	1050 ft^3 / CTS
Production	6	New	P-110	24	8726	8726 /	500' above intermediate casing
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)	
Conductor	26	30	0.312	1000	18	Class A/L	1.04 - 1.20	
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A/L	1.04 - 1.20	
Coal								
Intermediate	9 5/8	12 3/8	0.352	3520	2816	Class A/L	1.04 - 1.20	
Production	6	8 1/2	0.400	14580	11664	Class A/H/L	1.04 - 2.10	
Tubing						G05		
Liners					RECEIVED AN	0,0		
Liners PACKERS PACKERS PACKERS RECIEVED Ges RECIEVED Ges NOV 0.3 2023 NOT Department of the protection of the pro								
			PACKER		with De	ental log	H 10/20	

	PACKERS	Ky Willett 10/31/23
Kind:		
Sizes:		
Depths Set:		

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4704902526

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

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

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

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 60.28 acres (built)
- 22) Area to be disturbed for well pad only, less access road (acres): 8.96 acres (built)
- 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 other joint from production casing shoe to landing point. One solid body centralizer spaced every joint from landing point to planned top of cement.

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

Conductor: Class A no additives

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

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

Anti-Settling/Suspension Agent

25) Proposed borehole conditioning procedures:

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

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

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

*Note: Attach additional sheets as needed.

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Environmental Protection

API	Num	her	47	_
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Operator's Well No. Carnegie 13H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 3066	886
Watershed (HUC 10) Laurel Run of Owen Davy Fork Quadrangle Glover Gap	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes	√ No □
Will a pit be used? Yes No	
If so, please describe anticipated pit waste: N/A	
Will a synthetic liner be used in the pit? Yes No V If so, what ml.? N/	Α
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number 0014, 8462, 4037 Reuse (at API Number various)
Off Site Disposal (Supply form WW-9 for disposal location))
Other (Explain	
Will closed loop system be used? If so, describe: Yes, The closed loop system will remove drill cuttings from the difference than prepared for transportation to an off-site disposal facility.	Irilling fluid. The drill cuttings are
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.	See Attached
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud	
Additives to be used in drilling medium? See Attached	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A	
-Landfill or offsite name/permit number? See Attached List	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or assorted West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the purpose it was properly disposed.	ociated waste rejected at any permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL WATER on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental I provisions of the permit are enforceable by law. Violations of any term or condition of the general law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the application form and all attachments thereto and that, based on my inquiry of those individual obtaining the information, I believe that the information is true, accurate, and complete. I am a penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official Title Project Specialist - Permitting	Protection. I understand that the all permit and or other applicable information submitted on this alls immediately responsible for aware that there are significant
Subscribed and sworn before me this day of day of, 20,	3
Notary Pub	lic
My commission expires October 25, 2027	Commonwealth of Pennsylvania - Notary Seal Olivia Wilson, Notary Public Allegheny County My commission expires October 25, 2027
L	Commission number 1359968 Member, Pennsylvania Association of Notaries

Proposed Reversation Tra	otmont. A. Divilla		
		Prevegetation pF	· I
	Tons/acre or to correct to	pH 6.5	
30.32	ranular 10-20-20	_	
Fertilizer amount_	500	_lbs/acre	
Mulch 2	To	ons/acre	
		Seed 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		
acreage, of the land applicate	ion area	plication (unless engineered plans include dimensions (L x W x D) of the pit, and	dimensions (L x W), and
Maps(s) of road, location, pi provided). If water from the acreage, of the land applicate	ion area	e dimensions (L x W x D) of the pit, and	dimensions (L x W), and
Maps(s) of road, location, pi provided). If water from the acreage, of the land applicate	ion area	e dimensions (L x W x D) of the pit, and	dimensions (L x W), and
Maps(s) of road, location, piperovided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Comments: Pre-seed/	ion area Ived 7.5' topographic sheet. mulch all disturbed a	areas as soon as reasona	dimensions (L x W), and and Gas and Gas along Saible,
Maps(s) of road, location, piperovided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Comments: Pre-seed/	ion area Ived 7.5' topographic sheet. mulch all disturbed a	e dimensions (L x W x D) of the pit, and	dimensions (L x W), and and Gas and Gas along Saible,
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Maps(s) of road, location, piperovided). If water from the acreage, of the land applicate Photocopied section of involved Plan Approved by: Comments: Pre-seed/	ion area Ived 7.5' topographic sheet. mulch all disturbed a	areas as soon as reasona	dimensions (L x W), and and Gas and Gas along Saible,



SITE SAFETY AND ENVIRONMENTAL PLAN

Carnegie Well Pad (GLO168)

Mannington
Marion County, WV

Wells: 1H, 3H, 5H, 7H, 9H, 11H, 13H, 15H, 17H, 19H

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

Approved By: Scott M. Held, Senior Safety Coordinator

Created Date: 23-Feb-21

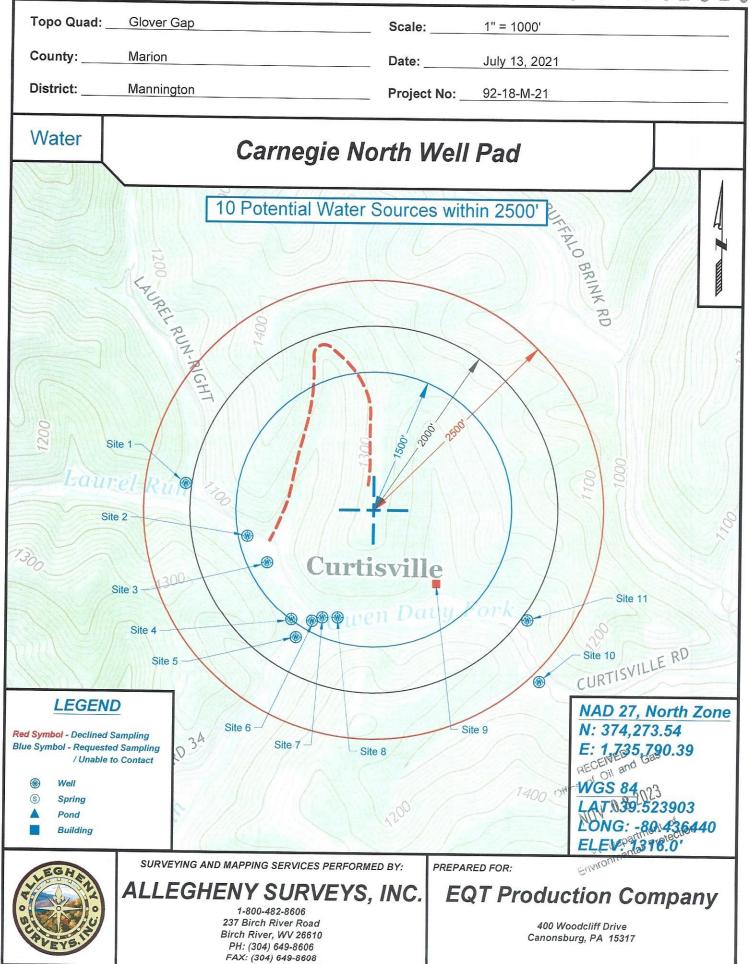
John Zavatchan

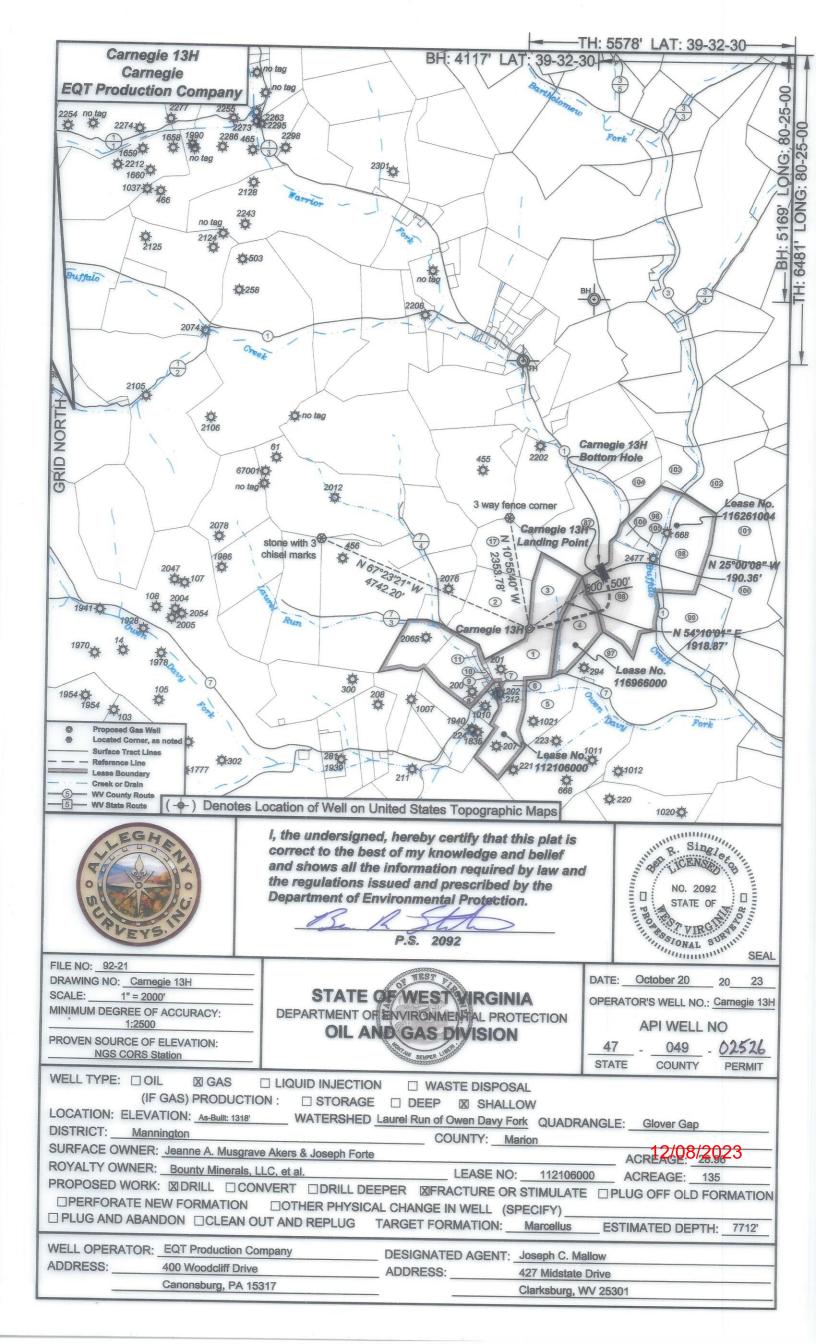
Project Specialist Permitting

EQT Production Company

Oil and Gas Inspector

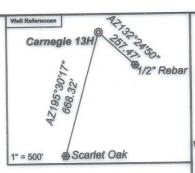
WVDEP Office of Oil and Gas





Carnegie 13H Carnegie **EQT Production Company**

Acres	Surface Tract Owner	District	County	Parcel No.	Tax Map No.	Tract I.D.
28.96	Jeanne A. Musgrave Akers & Joseph Forte	Mannington		39	49	
51.5	Equitrans LP	Mannington	Marion	37	49	2
23.9	Jeanne A. Musgrave Akers & Joseph Forte	Mannington	Marion	39.1	49	3
36	Marshall & Dick Cartright	Mannington	Marion	40	49	4
28	Melvin L. Gooch Sr.	Mannington	Marion	14	50	5
5.61	Perry R. & Janice M. Thorne	Mannington	Marion	15	50	6
0.46	Richard H. & Lucy M. Lambert	Mannington	Marion	16	50	7
0.32	Jason H. & Brandy L. Batson	Mannington	Marion	17	50	
1.1	Harlen O. & Diana S. Batson	Mannington	Marion	13	48	8
0.73	Dustin Earl	Mannington	Marion	13.2	48	10
2.02	Gary A. & Sheila D. Earl	Mannington	Marion	13.1	48	11
30	Thomas B. Wright	Mannington	Marion	38	49	17
61	Marion County Coal Resources Inc	Mannington	Marion	14	49	87
180.09	Perry R. & Janice M. Thorne	Mannington	Marion	12	50	97
116.825	Robert S. Thorne, Sr., et al.	Mannington	Marion	12	49	98
39	Joseph R. & Whitney N. Elliott	Mannington	Marion	41	49	99
40.2	Joseph R. & Whitney N. Elliott	Mannington	Marion	42	49	100
38.2	Joseph R. & Whitney N. Elliott	Mannington	Marion	11	49	101
40.21	Donald L. & Larayne M. Lafferty	Mannington	Marion	8	49	102
19.79	Kevin M. & Glenda S. Brewer	Mannington	Marion	14	37	103
12.23	Joseph & Larry Baker	Mannington	Marion	13	37	104
2.05	CNX Land LLC	Mannington	Marion	13	49	1.05
4.175	CNX Land LLC	Mannington	Marion	12.1	49	106



Carnegie 13H coordinates are NAD 27 N: 374,293.67 E: 1,735,843.68 NAD 27 N: 374,293.67 L: 1,735,843.05
NAD 27 Lat: 39.523876 Long: -80,438442
NAD 83 UTM N: 4,375,075.31 E: 548,453.98
Camegie 13H Landing Point coordinates are
NAD 27 N: 375,417.03 E: 1,737,399.36
NAD 27 Lat: 39.527004 Long: -80.430969
NAD 83 UTM N: 4,375,425.46 E: 548,922.24

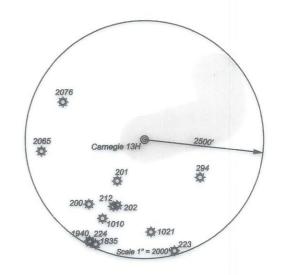
NAD 83 UTM N: 4,375,425.46 E: 548,922.24
Camegle 13H Bottom Hole coordinates are
NAD 27 N: 375,589.55 E: 1,737,318.90
NAD 27 Lat: 39.527476 Long: -80.431260
NAD 83 UTM N: 4,375,477.62 E: 548,896.85
West Virginia Coordinate system of 1927 (North Zone)
based upon Differential GPS Measurements.
Plat orientation, comer and well ties are based upon
the grid north meridian.
Well location references are based upon the grid north
meridian.
UTM coordinates are NAD83, Zone 17, Meters.

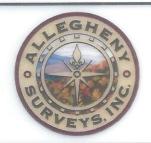
Carnegie

Carnegie 18H@ Camegie 16H@ @ Carnegie 15H, Camegie 14H@ Carnegle 13H Carnegie 12H@ Carnegie 10H@ Carnegie 8H@ ○ Carnegie 7H Carnegie 6H@ ○ Carnegie 5H Camegie 4H@ Camegie 2H@

⊚ Carnegie 1H

Lease No. Owner
112106000 Bounty Minerals, LLC, et al.
116966000 Judith Ann Myers, et al.
116261004 Sarabeth Lamm, et al.





FILE NO: 92-21

l, 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.

> 2092 P.S.

NO. 2092
STATE OF VIRGINIAN SE SEAL

FILE NO: 92-21 DRAWING NO: Carnegie 13H SCALE: 1" = 2000'	STATE OF WEST VIRGINIA
MINIMUM DEGREE OF ACCURACY: 1:2500	DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION
PROVEN SOURCE OF ELEVATION: NGS CORS Station	ATTAN SELECT LINE OF

DATE: October 20 OPERATOR'S WELL NO .: Carnegie 13H

API WELL NO

049 - 02526 47

NGS CORS Station	SELECT MANAGEMENT AND	STATE	COUNTY	PERMIT
WELL TYPE: □ OIL ☑ GAS				
	TION: STORAGE DEEP SHALLOW			
LOCATION: ELEVATION: As-Built: 1318'	WATERSHED Laurel Run of Owen Davy Fork (QUADRANGLE:	Glover Gap	
DISTRICT: Mannington	COUNTY: Marion		40/00/00	00
SURFACE OWNER: Jeanne A. Musgra	ave Akers & Joseph Forte		A12/08/20	<u> </u>
ROYALTY OWNER: Bounty Minerals.	, LLC, et al. LEASE NO:	112106000	ACREAGE:1	35
PROPOSED WORK: ☑DRILL ☐CO	ONVERT DRILL DEEPER DIFFRACTURE OR STILL	MULATE PL	UG OFF OLD F	ORMATION
	OTHER PHYSICAL CHANGE IN WELL (SPEC			
☐ PLUG AND ABANDON ☐ CLEAN	OUT AND REPLUG TARGET FORMATION: Ma	ercellus EST	IMATED DEPTI	H:
WELL OPERATOR: EQT Production (Company DESIGNATED AGENT: Jose	eph C. Mallow		
ADDRESS: 400 Woodcliff Driv		Midstate Drive		
Canonsburg, PA		rksburg, WV 2530	1	

WW-6A1 (5/13)

Operator's Well No. Carnegie 13H

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

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

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

Lease Name or

Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Attached



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

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

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

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

Well Operator: EQT Production Company

By:

John Zavatchan

Its:

Project Specialist - Permitting

Page 1 of 2

WW-6A1 attachment	ent		Operator's Well No.	Carr	Carnegie 13H
Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
112106000	Bounty Minerals, LLC, et al. Guy F. Musgrave, single, et al. Pittsburgh and West Virginia Gas Company Pittsburgh and West Virginia Gas Company Equitable Gas Company Equitrans, Inc. Equitable Gas Company, LLC	135 ac	Pittsburgh and West Virginia Gas Company Equitable Gas Company Equitable Gas Company Equitans, Inc. Equitable Gas Company, LLC Equitans, LP EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 465/312 DB 510/487 DB 511/539 AB 12/279 DB 1148/296 AB 46/660 DB 1114/130
116966000	Judith Ann Myers, et al. Marshall Cutright and Betty Cutright, husband and wife, and Dick Cartright, single Equitable Gas Company Equitrans, Inc. Equitable Gas Company, LLC Equitrans, L.P.	36 ac	Equitable Gas Company Equitrans, Inc. Equitable Gas Company, LLC Equitrans, LP EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 724/970 AB 12/279 DB 1148/296 AB 46/660 DB 1114/130
/116261004	Sarabeth Lamm, et al. Sarabeth Lamm, single Republic Energy Ventures, LLC	123 ac	Republic Energy Ventures, LLC EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 1203/1160 AB 52/744
	CENED do Gas of Oil and Gas NOV 0 3 2023 Linuxonmental Profesion				



EQT PRODUCTION COMPANY 400 Woodcliff Drive | Canonsburg, PA 15317

October 24, 2023

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

Re:

Carnegie 13H Gas Well

Mannington District, Marion 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

Office of Oil and Cass

NOV 032023

WOV Department of the Environmental Protection

WW-PN (11-18-2015)

Horizontal Natural Gas Well Work Permit **Application Notice By Publication**

Notice is hereby gi	ven:	
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Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: Times West Virginian				
Public Notice Date: July 28th and	I August 4th, 2023			
The following applicant intends surface excluding pipelines, gath any thirty day period.	to apply for a horizo ering lines and road	ontal natural well we s or utilizes more th	ork permit which disturbs an two hundred ten thous	s three acres or more of sand gallons of water in
Applicant: EQT Production Con	npany	Well N	ımber: Carnegie 13H	
Address: 400 Woodcliff Drive				
Canonsburg, PA 1531	7			
Business Conducted: Natural Location –	gas production.			
State: WV		County:	Marion	
District: Mannington		Quadrang	e: Glover Gap	
UTM Coordinate NAD	083 Northing: 43750	75.308		
UTM coordinate NAD		53.977		

Coordinate Conversion:

Watershed: Laurel Run of Owen Davy Fork

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php

To receive an email when applications have been received or issued by the Office of Oil and Cas, visit http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up.

http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to <u>DEP.comments@wv.gov</u>.

Submitting Comments:

Comments may be submitted online at https://apps.dep.wv.gov/oog/comments/comments.cfm, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

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

ADTAL 47

Date of Notic	e Certification: 1/12/3	APIN	0.4/-	
		Opera	tor's Well No. 13H	
		•	ad Name: Carnegie	
Notice has b	e provisions in West Virginia Code §			
	tract of land as follows:	22 or i, the operator has provided in	1	
State:	West Virginia	Eastin	g: 548453.977	
County:	Marion	UTM NAD 83 Northi	ng: 4375075.308	
District:	Mannington	Public Road Access:	CR 7/3	
Quadrangle:	Glover Gap	Generally used farm nam	ne: Jeanne A. Musgra	ve Akers & Joseph Forte
Watershed:	Laurel Run of Owen Davy Fork			
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), ethe secretary, shall be verified and shed the owners of the surface describe equired by subsections (b) and (c), sec surface owner notice of entry to sur of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall tehave been completed by the applicant	all contain the following information and in subdivisions (1), (2) and (4), and ition sixteen of this article; (ii) that the vey pursuant to subsection (a), see this article were waived in writing ander proof of and certify to the secretary.	n: (14) A certification subsection (b), see the requirement was tion ten of this arting by the surface over the surface of the surface over th	on from the operator that (i) ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wher; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the required	erator has attached proof to this Not parties with the following:	ice Certification	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BY SEISMIC ACTIVITY WAS CON		RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	EY or 🔳 NO PLAT SURVEY WA	AS CONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED B NOTICE OF ENTRY FOR PLAT WAS CONDUCTED or		RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER BY SU (PLEASE ATTACH)	RFACE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION			☐ RECEIVED
■ 5. PUI	BLIC NOTICE		oece!	RECEIVED RECEIVED RECEIVED
■ 6. NO	TICE OF APPLICATION		Office of O	RECEIVED 2023
Required A	Attachments: r shall attach to this Notice Certificat	ion Form all Notice Forms and Cer	tifications of Notice	of the provided to

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

WW-6AC (1/12)

Certification of Notice is hereby given:

, have read and understand the notice requirements within West Virginia Code § 22-THEREFORE, I John Zavatchan 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.

400 Woodcliff Drive Address: Well Operator: EQT Production Co Canonsburg, PA 15317 By: John Zavatchan Facsimile: 412-395-2974 Its: Project Specialis Email: jzavatchan@eqt.com Telephone: 724-746-9078

NOTARY SEAL

Commonwealth of Pennsylvania - Notary Seal
Olivia Wilson, Notary Public Allegheny County My commission expires October 25, 2027 Commission number 1359968

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this

Notary Public

day of NA

Oil and Gas Privacy Notice:

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

> Office of Oil and Gas NA Debaltment of Eunitouweutal brotection

WW-6A (9-13)

			1900
API NO. 47-			
OPERATOR WE	ELL NO.	13H	
Well Pad Name:	Carnegie		

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: (111123) Date Permit Application Filed: [1123 Notice of: ☐ CERTIFICATE OF APPROVAL FOR THE ✓ PERMIT FOR ANY CONSTRUCTION OF AN IMPOUNDMENT OR PIT WELL WORK Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ METHOD OF DELIVERY THAT REQUIRES A ☐ PERSONAL ▼ REGISTERED **SERVICE** MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: Office of Oil and Gas PECENED COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: See Attached List Name: See Attached List Address: Address: ☑ COAL OPERATOR Department of mental Protection Name: See Attached List Address: Address: ☑ SURFACE OWNER(s) (Road and/or Other Disturbance) ☑ SURFACE OWNER OF WATER WELL Name: See Attached List AND/OR WATER PURVEYOR(s) Address: Name: See Attached List Address: Name: OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: See Attached List Address: _ Name: N/A Address: *Please attach additional forms if necessary



47 0 4 9 0 2 5 2 6

API NO. 47
OPERATOR WELL NO. 13H

Well Pad Name: Carnegie

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, of 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 take or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items WW-6A (8-13)

4704902526 API NO. 47-___OPERATOR WELL NO. 13H Well Pad Name: Carnegie

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 to have a strictle 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 § 22-640-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at: W Department of WV Department of Environmental Protection

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

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

WW-6A (8-13) API NO. 47-____OPERATOR WELL NO. 13H
Well Pad Name: Carnegie

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.

12/08/2023

W Department of Environmental Protection

WW-6A (8-13)

API NO. 47-0 4-9 0 2 5 2 6
OPERATOR WELL NO. 13H Well Pad Name: Carnegie

Notice is hereby given by:

Well Operator: EQT Production Comp

Telephone: 724-746-9073 Email: jzavatchan@eqt.com

Address: 400 Woodcliff Drive Canonsburg, PA 15317

Facsimile: 412-395-2974

Oil and Gas Privacy Notice:

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

Commonwealth of Pennsylvania - Notary Seal Olivia Wilson, Notary Public Allegheny County
My commission expires October 25, 2027

Commission number 1359968

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this day of My,

My Commission Expires

Office of Oil and Gas

NOV 03 2023 Eurouweulal brotechou WW-6A4 (1/12)

47 0 4 9 0 2 5 2 6 Operator Well No. Carnegie 13H

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

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

Notice Time R Date of Notice	equirement: Notice shall be provided at le	ast TEN (10) days prior to filing a it Application Filed: <u>(ロカ</u>)	permit application.
Delivery meth	od pursuant to West Virginia Code § 22-	6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVER		FSTFD	
receipt requeste drilling a horiz of this subsecti subsection may	ed or hand delivery, give the surface owner ontal well: <i>Provided</i> , That notice given pu on as of the date the notice was provided to	rnotice of its intent to enter upon the provided insulant to subsection (a), section to the surface owner: <i>Provided</i> , hower. The notice, if required, shall income	a, an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
	eby provided to the SURFACE OWN	VER(s):	
Name: See Attach		Name: See Attached List	
Address:		Address:	
Section 1			
the surface own State:	eby given: est Virginia Code § 22-6A-16(b), notice is ner's land for the purpose of drilling a horizulation was Virginia	zontal well on the tract of land as for Easting:	548,453.977
-	Marion	Nortning:	4,375,075.308
	Mannington Clause Con	Public Road Access: Generally used farm name:	CR 7/3 Jeanne A. Musgrave Akers and Joseph Forte
	Glover Gap Laurel Run of Owen Davy Fork	Generally used farm name.	Sealine A. Musgrave Akers and cosspirit one
This Notice S Pursuant to W facsimile num related to horiz	Shall Include: Sest Virginia Code § 22-6A-16(b), this not ber and electronic mail address of the optiontal drilling may be obtained from the State of the State	erator and the operator's authorize Secretary, at the WV Department	dress, telephone number, and if available, zed representative. Additional information of Environmental Protection headquarters, dep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is her	eby given by:		
Well Operator:	EQT Production Company	Authorized Representative	John Zavatchan
Address:	400 Woodcliff Drive	Address:	400 Woodcliff Drive
	Canonsburg, PA 15317		Canonsburg PA 15317
Telephone:	724-746-9073	Telephone:	724-746-9073
Email:	jzavatchan@eqt.com	Email:	in which are Boot come
Facsimile:	7	Liliali.	jzavatchan@eqt.com
i acsimire.	412-395-2974	Facsimile:	412-395-2974 412-395-2974

Oil and Gas Privacy Notice:

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

4704902526 Operator Well No. Carnegie 13H

WW-6A5 (1/12)

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 11/11/2023 Date Permit Application Filed: MIA 12023 Delivery method pursuant to West Virginia Code § 22-6A-16(c) ☐ HAND **CERTIFIED MAIL** DELIVERY RETURN RECEIPT REQUESTED Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice. Notice is hereby provided to the SURFACE OWNER(s) (at the address listed in the records of the sheriff at the time of notice): Name: See Attached List Name: Address: Address: Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: Easting: West Virginia State: UTM NAD 83 Northing: 4375075.308 County: Marion Public Road Access: CR 7/3 District: Mannington Jeanne A. Musgrave Akers & Joseph Forte Generally used farm name: Quadrangle: Glover Gap Watershed: Laurel Run of Owen Davy Fork This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-andgas/pages/default.aspx. RECEIVED Canonsburg, PA 15317 Office of Oil and Gas
412-395-2074 Address: Well Operator: EQT Production Company MON 035053 Telephone: 724-746-9073 Facsimile: 412-395-2974 Email: jzavatchan@eqt.com 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

Alanna J. Keller, P.E. Deputy Secretary of Transportation/ Deputy Commissioner of Highways

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

August 29, 2023

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 Carnegie Pad, Marion County Carnegie 13H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2016-0799 which has been issued to EQT Production Company for access to the State Road for a well site located off Marion County Route 7/3 SLS MP 0.197.

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 March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Operations Engineer Central Office O&G Coordinator

Gary K. Clayton

John Zavatchan

EQT Production Company

OM, D-4

File

Cc:

E.E.O./AFFIRMATIVE ACTION EMPLOYER

Environmental protection

Anticipated Frac Additives Chemical Names and CAS Numbers

Material	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	Ferriplex 66	
	Citric Acid	77-92-9
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Acetic Acid	64-19-7
Corrosion Inhibitor	PLEXHIB 166	
	Methanol	67-56-1
	Alcohols, C14-15, ethoxylated	68951-67-7

RECEIVED

NOV 03 2023

VVV Department of Environmental Protection

OPERATOR: EQT Production Company	WELL NO: 13H
PAD NAME: Carnegie	01/20 1
REVIEWED BY: John Zavatchan	_ SIGNATURE:

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

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