

# 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 19H

47-049-02529-00-00

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) 926-0459

Operator's Well Number: Carnegie 19H

Farm Name: Jeanne A Musgrave Akers & Jon

U.S. WELL NUMBER: 47-049-02529-00-00

Horizontal 6A New Drill

Date Issued: 12/4/2023

API Number:	47-049-02529
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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.

RECEIVED
Office of Oil and Gas

API NO. 47-049 - 02529 5 2 9
OPERATOR WELL NO. 19H
Well Pad Name: Carnegie

NOV 03 2023

# STATE OF WEST VIRGINIA

# DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WV Department of WELL WORK PERMIT APPLICATION WELL WORK PERMIT APPLICATION

	120				
1) Well Operator: EQT Produ	uction Company	306686	Marion	Mannington	Glover Gap
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: 19	)H /	Well Pac	l Name: Carne	gie	
3) Farm Name/Surface Owner:	Jeanne Ann Musgrave Akers &	Joseph Forte Public Roa	d Access: CR	7/3	
4) Elevation, current ground:	1,318' (built) E	levation, proposed	post-construction	on: 1,318' (	(built)
5) Well Type (a) Gas X	Oil		erground Storag		,
Other					
(b)If Gas Sha	allow X	Deep			
Но	rizontal X				
6) Existing Pad: Yes or No Yes		29			
7) Proposed Target Formation(s Marcellus, 7,712', 79', 2,59	), Depth(s), Antic	cipated Thickness a	nd Expected Pr	essure(s):	
8) Proposed Total Vertical Dept	h: 6,422'				
9) Formation at Total Vertical D	Depth: Elks				
10) Proposed Total Measured D	epth: 7,305'				-
11) Proposed Horizontal Leg Le	ength: 0'				
12) Approximate Fresh Water S	trata Depths:	309', 335', 341', 37	1', 709'		
13) Method to Determine Fresh	Water Depths:	Offset Wells - 049-30	050, 049-00200	049-30239	
14) Approximate Saltwater Dept	ths: 1,852'				
15) Approximate Coal Seam De	pths: 515'-517', 6	69'-671', 937'-941', 1	,034'-1,041'		
16) Approximate Depth to Possi	ble Void (coal m	ine, karst, other):	I/A		
17) Does Proposed well location directly overlying or adjacent to	contain coal sear an active mine?	ms Yes X	No		
(a) If Yes, provide Mine Info:	Name: Harris	on County Mine			
	Depth: 1,034	'-1,041'			
	Seam: Pittsb	urgh			
	-	on County Coal Res	OURCAS		

WW-6B (04/15) RECEIVED
Office of Oil and Gas

NOV 03 2023

service againment of protection

API NO. 47-0 4 9 0 2 5 2 9
OPERATOR WELL NO. 19H

Well Pad Name: Carnegie

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	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	7305	7305	500' above intermediate casing
Tubing							
Liners							

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

	<u>PACKERS</u>	Ky Willett 10/31/23
Kind:		17.70
Sizes:		
Depths Set:		

Page 2 of 3

WW-6B
(10/14)

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Office of Oil and Gas

API NO. 47-OPERATOR WELL NO. 19H Well Pad Name: Carnegie

NOV 03 2023

WW Department of

19	Describe pr	oposed well	work.	including	the drilling	and plug	oino hack	of any pilot hole:
		-F	,, ,,	III CI CI CI CI II	, the dillining	und prug	Sing vack	of any bilot 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 surface.

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

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

\*Note: Attach additional sheets as needed.

Page 3 of 3

API Number 47 - 47 0 4 9 0 2 5 2 9
Operator's Well No. Camegie 19H
VIRGINIA
IENTAL PROTECTION
AND GAS

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

# FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS	NOV 03 2023
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN	Environmental Protection
Operator Name_EQT Production Company OP Code _ 306686	nontal Prom
	Ctio/i
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes	No
	V.
Proposed Disposal Method For Treated Pit Wastes:  Land Application Underground Injection (UIC Permit Number_0014, 8462, 4037 Reuse (at API Number_various Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain_	)
Will closed loop system be used? If so, describe: Yes, The closed loop system will remove drill cuttings from the drilling then prepared for transportation to an off-site disposal facility.	ng fluid. The drill cuttings are
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See	ee 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, etcLandfill	
-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 assoc. West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the perwhere it was properly disposed.	iated waste rejected at any rmittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL WATER I on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Proprovisions of the permit are enforceable by law. Violations of any term or condition of the general plaw or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the i application form and all attachments thereto and that, based on my inquiry of those individuals obtaining the information, I believe that the information is true, accurate, and complete. I am aw penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature  Company Official Title  Project Specialist - Permitting	otection. I understand that the oermit and/or other applicable
Subscribed and sworn before me this 2nd day of November, 20 23	5
Notary Public	Commonwealth of Pennsylvania - Notary Seal
My commission expires October 25, 202 /	Olivia Wilson, Notary Public Allegheny County My commission expires October 25, 2027 Commission number 1359968

Member, Pennsylvania Association of Notaries

Toposcu ic vegetation freat	ment: Acres Disturbed	Prevegetation pH	
Lime 3 Tons/acre or to corre			
		tt to pri	
Fertilizer type Gra			0. 8.
	00		Mc or
Mulch 2		_Tons/acre	OFFICE OF AND OFFICE OF STATE
		Seed Mixtures	Environmental Protes
Te	mporary	Permai	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		
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# 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: <u>Donny Prater, CSP, Health and Safety Sciences, LLC</u>

Approved By: Scott M. Held, Senior Safety Coordinator

Created Date: 23-Feb-21

John Zavatchan

Project Specialist Permitting

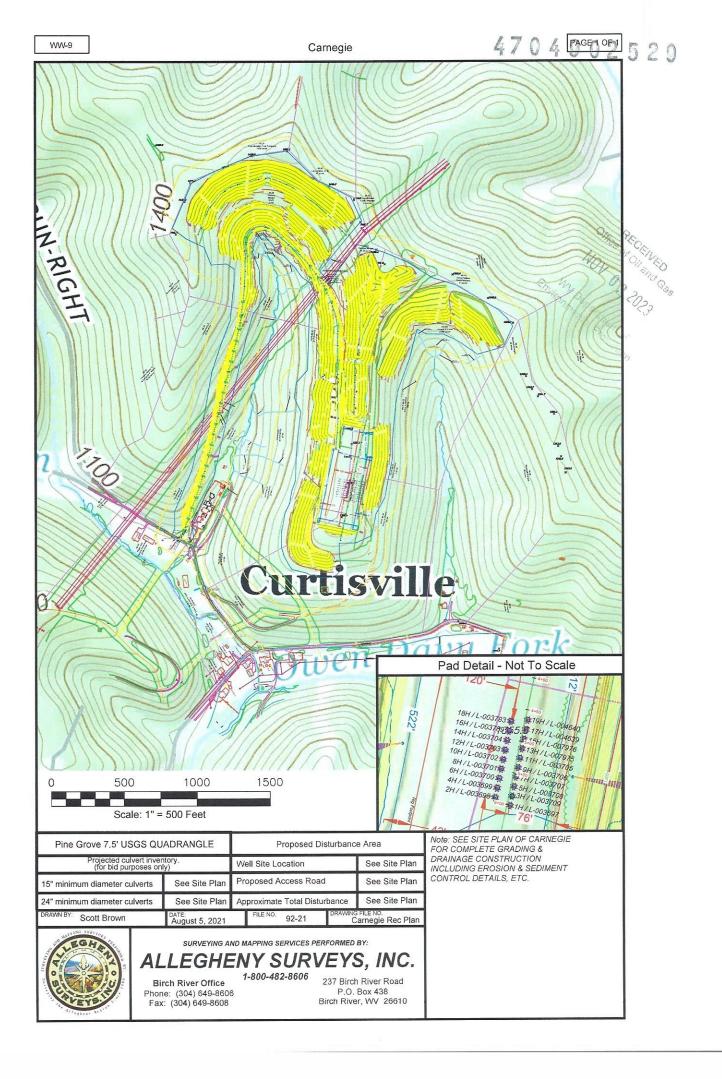
**EQT Production Company** 

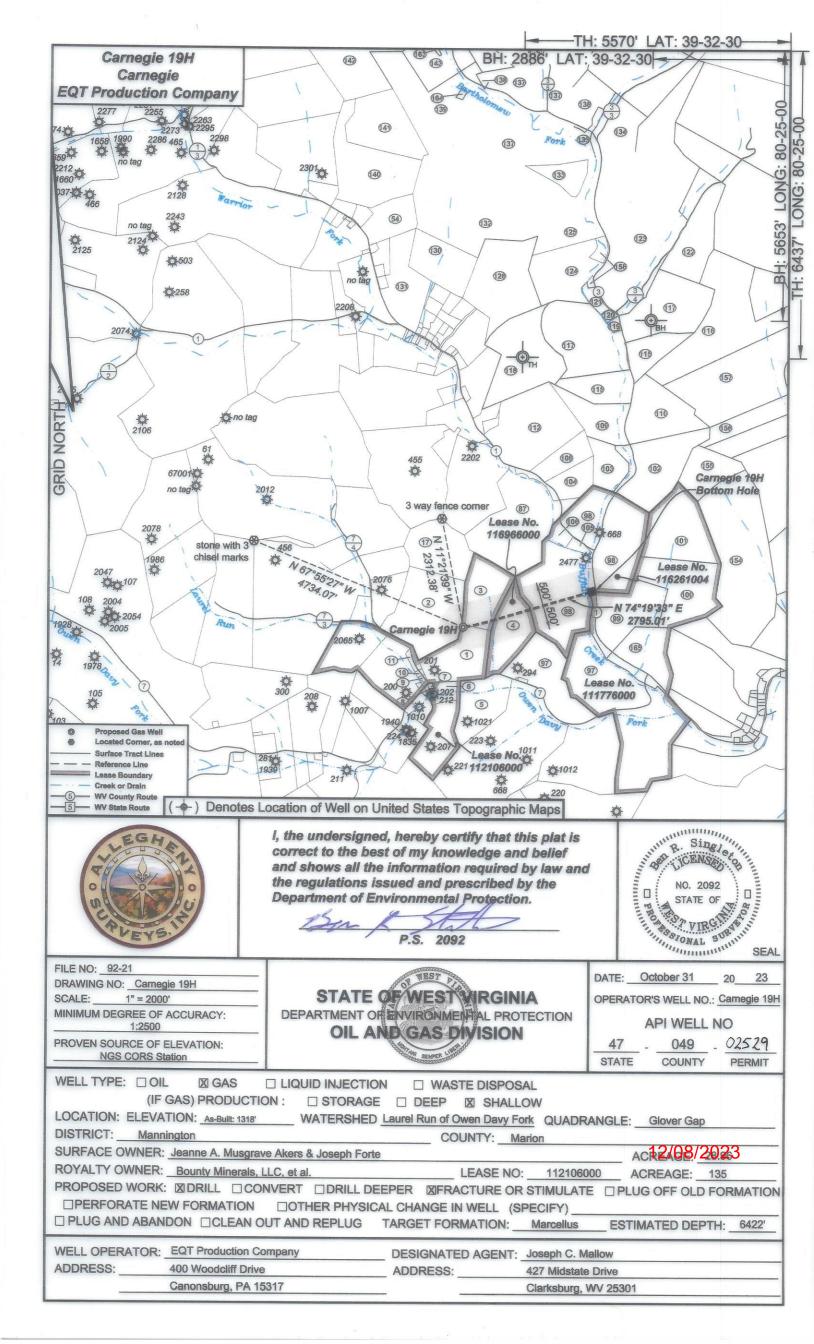
Oil and Gas Inspector

WVDEP Office of Oil and Gas

4704902529

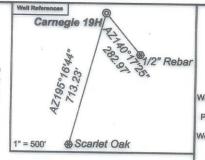
1" = 1000' Scale: \_ Topo Quad: \_ Glover Gap July 13, 2021 Marion Date: County: \_ Project No: \_\_\_\_92-18-M-21 District: Mannington Carnegie North Well Pad Water 10 Potential Water Sources within 2500' Office of Oil and Gas Site 1 Site 2 Curtisville Site 11 Site 3 Site 4 CURTISVILLE RD Site 5 NAD 27, North Zone LEGEND N: 374,273.54 Site 9 Site 6 Red Symbol - Declined Sampling E: 1,735,790.39 Site 7 -Site 8 Blue Symbol - Requested Sampling / Unable to Contact **WGS 84** Well LAT: 39.523903 (S) Spring LONG: -80.436440 Pond Building ELEV: 1316.0' PREPARED FOR: SURVEYING AND MAPPING SERVICES PERFORMED BY: **EQT Production Company** ALLEGHENY SURVEYS, INC. 1-800-482-8606 400 Woodcliff Drive 237 Birch River Road Canonsburg, PA 15317 Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608





# Carnegie 19H Carnegie **EQT Production Company**

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97   99   14   Marion Mannington   97   90   17   Marion Mannington   98   49   12   Marion Mannington   96   40   41   Marion Mannington   100   49   41   Marion Mannington   100   49   41   Marion Mannington   101   49   11   Marion Mannington   102   49   11   Marion Mannington   103   40   11   Marion Mannington   104   47   13   Marion Mannington   106   49   17.1   Marion Mannington   108   17.1   Marion Mannington   109   37   15   Marion Mannington   109   37   15   Marion Mannington   109   37   15   Marion Mannington   109   37   16   Marion Mannington   109   37   17   Marion Mannington   109   17   18   Marion Mannington   100	54		26				30
98	8/	49					41.05
98	9/	50	12				61
40 42 Marion Mannington 100 49 42 Marion Mannington 101 49 11 Marion Mannington 102 49 13 Marion Mannington 103 37 14 Marion Mannington 104 49 13 Marion Mannington 105 49 13 Marion Mannington 106 49 12.1 Marion Mannington 106 49 12.1 Marion Mannington 107 49 13 Marion Mannington 108 37 13.2 Marion Mannington 109 37 15 Marion Mannington 109 37 15 Marion Mannington 110 37 26 Marion Mannington 111 37 16 Marion Mannington 112 37 13.1 Marion Mannington 115 37 16 Marion Mannington 116 37 28 Marion Mannington 117 37 17 Marion Mannington 118 37 10 Marion Mannington 119 37 17.1 Marion Mannington 119 37 17.1 Marion Mannington 110 37 22.2 Marion Mannington 110 37 22.3 Marion Mannington 111 37 28 Marion Mannington 112 37 22.1 Marion Mannington 113 37 22 Marion Mannington 114 27 Marion Mannington 115 37 28 Marion Mannington 116 37 28 Marion Mannington 117 37 28 Marion Mannington 118 37 10 Marion Mannington 119 37 17.1 Marion Mannington 110 37 22.2 Marion Mannington 110 37 22.3 Marion Mannington 111 38 31 32 Marion Mannington 112 37 21 Marion Mannington 113 38 13.3 Marion Mannington 114 4 77 Marion Mannington 115 38 13.3 Marion Mannington 116 49 40 Marion Mannington 117 40 41 24 Marion Mannington 118 40 41 Marion Mannington 119 41 42 Marion Mannington 119 41 42 Marion Mannington 110 41 42 Marion Mannington 111 41 42 Marion Mannington 111 41 42 Marion Mannington 112 43 44 6 Marion Mannington 113 44 6 Marion Mannington 114 6 Marion Mannington 115 6 Marion Mannington 116 7 7 8 Marion Mannington 117 7 8 Marion Mannington 118 7 8 Marion Mannington 119 8 9 9 Marion Mannington 110 9 9 9 Marion Mannington 110 9 9 Mar	98	49	12				180.09
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101 49 11 Marion Mannington 10seph R. & Whitney N. Hillott 100 37 14 Mation Mannington 10seph R. & Whitney N. Hillott 10seph R. & Larry N. & Seph R. & Larry N. & Cond. S. & Cond. II. & Cascabe I. Ternsont George Trave, I. & Cascabe I. Ternsont	100	49	42				40.2
101 49 8 Marion Mannington 103 77 14 Marion Mannington 105 49 13 Marion Mannington 106 49 12.1 Marion Mannington 107 37 15 Marion Mannington 108 37 13.7 Marion Mannington 109 37 15 Marion Mannington 110 37 26 Marion Mannington 111 37 27 Marion Mannington 112 37 13.1 Marion Mannington 115 37 16 Marion Mannington 116 37 28 Marion Mannington 117 37 17 Marion Mannington 118 37 10 Marion Mannington 119 37 17.1 Marion Mannington 110 37 22.2 Marion Mannington 110 37 22.3 Marion Mannington 110 Marion Mannington 111 Marion Mannington 112 37 22 Marion Mannington 113 Marion Mannington 114 4 27 Marion Mannington 115 38 13.1 Marion Mannington 116 Marion Mannington 117 Marion Mannington 118 Marion Mannington 119 Marion Mannington 110 Marion Mannington 111 Marion Mannington 112 Marion Mannington 113 Marion Mannington 114 Marion Mannington 115 Marion Mannington 116 Marion Mannington 117 Marion Mannington 118 Marion Mannington 119 Marion Mannington 110 Marion Mannington 1110 Marion		49	11	Marion	Mannington		38.2
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106		37	14	Mation	Mannington		19.79
106			13	Marion	Mannington		12.23
108		49	13				2.05
108 37 13.2 Marton Mannington George Flaw, Ir. 110 37 26 Marton Mannington George Flaw, Ir. 26 Marton Mannington Delhort R. Fright II 112 37 13.1 Marton Mannington Martineston Martinesto		49	12.1	Мапоп	Mannington		4.1/5
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100   37   26			1.5	Marion	Mannington		19.1
115   37   16   Marton Mannington   Marton County Coal Resources Inc.			26	Marion	Manninglon		40.15
115 37 16 Muriton Mannington 116 37 28 Matrion Mannington 117 37 17 Muriton Mannington 118 37 10 Muriton Mannington 119 37 17.1 Muriton Mannington 120 37 22.2 Muriton Mannington 121 37 22.1 Muriton Mannington 122 37 22.2 Muriton Mannington 123 37 22.1 Muriton Mannington 124 37 18 Muriton Mannington 125 37 20 Muriton Mannington 126 37 3 Muriton Mannington 127 37 20 Muriton Mannington 128 37 20 Muriton Mannington 129 37 20 Muriton Mannington 120 37 2.3 Muriton Mannington 120 37 2.3 Muriton Mannington 121 37 2.3 Muriton Mannington 122 37 2.4 Muriton Mannington 123 37 2.5 Muriton Mannington 124 37 18 Muriton Mannington 125 37 20 Muriton Mannington 126 37 3 Muriton Mannington 127 37 2.1 Muriton Mannington 128 37 2.1 Muriton Mannington 139 37 2.1 Muriton Mannington 130 37 2.1 Muriton Mannington 131 44 27 Muriton Mannington 132 37 2.1 Muriton Mannington 133 37 2.1 Muriton Mannington 134 38 13.1 Muriton Mannington 135 38 13.2 Muriton Mannington 136 38 13.3 Muriton Mannington 137 41 Muriton Mannington 138 44 3 Muriton Mannington 139 44 4 Muriton Mannington 140 44 24.1 Muriton Mannington 141 44 24 Muriton Mannington 142 44 6 Muriton Mannington 143 44 6 Muriton Mannington 144 24.1 Muriton Mannington 145 38 10 Muriton Mannington 146 38 10 Muriton Mannington 147 38 11 Muriton Mannington 148 38 9 Muriton Mannington 149 38 10 Muriton Mannington 140 44 24 Muriton Mannington 141 44 24 Muriton Mannington 142 44 6 Muriton Mannington 143 44 6 Muriton Mannington 144 5 Muriton Mannington 145 38 10 Muriton Mannington 146 38 10 Muriton Mannington 147 38 11 Muriton Mannington 148 38 9 Muriton Mannington 149 38 10 Muriton Mannington 140 44 9 Muriton Mannington 141 44 9 Muriton Mannington 142 44 6 Muriton Mannington 143 44 6 Muriton Mannington 144 45 Muriton Mannington 145 46 Muriton Mannington 146 47 Muriton Mannington 147 48 10 Muriton Mannington 148 49 Muriton Mannington 149 40 Muriton Muriton Muriton 140 40 Muriton Muriton Muriton 141 40 Muriton Muriton Muriton 142 44 Muriton Muriton 143 44 Muriton Muriton 144 45 Muriton Muriton 145		37	13.1	Marion	Mannington		52.28
116 37 28 Martion Mannington 117 37 17 Martion Mannington 118 37 10 Marion Mannington 119 37 17.1 Martion Mannington 120 37 22.2 Martion Mannington 121 37 22.1 Marion Mannington 122 37 22.2 Martion Mannington 123 37 22 Martion Mannington 124 37 18 Martion Mannington 125 37 20 Martion Mannington 126 37 3 Martion Mannington 127 37 20 Martion Mannington 128 37 20 Martion Mannington 129 37 20 Martion Mannington 120 37 2.3 Martion Mannington 120 37 2.3 Martion Mannington 121 41 27 Martion Mannington 122 37 21 Martion Mannington 123 37 22.1 Martion Mannington 124 38 13.1 Martion Mannington 125 37 21.1 Martion Mannington 126 37 3 Martion Mannington 127 Martion Mannington 128 44 1 Martion Mannington 129 44 4 Martion Mannington 129 44 4 Martion Mannington 120 45 Martion Mannington 120 46 Martion Mannington 121 Martion Mannington 122 46 Martion Mannington 123 47 Martion Mannington 124 48 Martion Mannington 125 48 Martion Mannington 126 48 Martion Mannington 127 Martion Mannington 128 49 Martion Mannington 129 40 Martion Mannington 140 40 Martion Mannington 141 41 Martion Mannington 142 44 6 Martion Mannington 143 45 Martion Mannington 144 46 Martion Mannington 145 38 10 Martion Mannington 146 38 10 Martion Mannington 147 38 11 Martion Mannington 148 38 Martion Mannington 149 38 Martion Mannington 140 44 Martion Mannington 141 44 Martion Mannington 142 44 Martion Mannington 143 45 Martion Mannington 144 46 Martion Mannington 145 38 10 Martion Mannington 146 38 10 Martion Mannington 147 48 11 Martion Mannington 148 49 Martion Mannington 149 38 11 Martion Mannington 140 40 Martion Mannington 141 41 42 Martion Mannington 142 44 6 Martion Mannington 143 44 6 Martion Mannington 144 45 Martion Mannington 145 49 Martion Mannington 146 49 Martion Mannington 147 49 Martion Mannington 148 40 Martion Mannington 149 41 Martion Mannington 140 42 Martion Mannington 141 44 Martion Mannington 142 44 Martion Mannington 143 45 Martion Mannington 144 46 Martion Mannington 145 47 Martion Mannington 146 48 Martion Mannington 147 49 Martion Ma							35
18   37   10   Martion Monnington   Martington Monnington   Martington Monnington   Martington Monnington   Ronald C. & Betty L. Michael   120   37   22.2   Martion Monnington   Ronald C. & Betty L. Michael   Ronald C. & Rotael L. Rotael   Ronald C. & Rotael L. Michael   Rotael L. Michael   Ronald C. & Rotael L. Michael   Rotael L. Michael L. Rotael L. Mich				Marion	Manninglon		91
19   37   17.1   Marion Mannington   Ronald C. & Betty L. Michael   Ronald C. & Rotael   Rotael   R							86.04
120   37   17.1   Marion Mannington   Ronald C. & Betty L Michael   Ronald C. & Ronald C. & Betty L Michael   Ronald C. & Ro				Marion	Mannington	Kevin D. & Heather Glasscock	51
121   37   22.1   Marion Mannington   Ronald C. & Betty L Michael   123   37   25   Marion Mannington   Ronald C. & Betty L Michael   124   37   18   Marion Mannington   Ronald C. & Betty L Michael   124   37   18   Marion Mannington   Ronald C. & Betty L Michael   124   37   18   Marion Mannington   Ronald C. & Betty L Michael   124   37   18   Marion Mannington   Ronald C. & Betty L Michael   Roll   R							1,46
177   178						Ronald C. & Betty L. Michael	1.5
123   37   22   Marion   Mannington   Bettrey H. Michael     124   37   18   Marion   Mannington   Morrol   Mannington     125   37   20   Marion   Mannington   No Parcel Information     126   37   3   Marion   Mannington   No Parcel Information     127   37   23   Marion   Mannington   Revin D. & Heather Glasscock     131   44   27   Marion   Mannington   Cyrthio M. & Kim S. Titley     132   37   21   Marion   Mannington   Cyrthio M. & Kim S. Titley     133   37   21.1   Marion   Mannington   Cyrthio M. & Kim S. Titley     134   38   13.1   Marion   Mannington   Christine L. Fragale, et al.     135   38   13.2   Marion   Mannington   Christine L. Fragale, et al.     136   38   13.3   Marion   Mannington   Christine L. Fragale, et al.     137   44   1   Marion   Mannington   Christine L. Fragale, et al.     138   44   3   Marion   Mannington   Christine L. Fragale, et al.     139   44   4   Marion   Mannington   Christine L. Fragale, et al.     140   44   24   Marion   Mannington   Christine L. Fragale, et al.     141   42   Marion   Mannington   Christine L. Fragale, et al.     142   44   6   Marion   Mannington   Christine L. Fragale, et al.     144   24   Marion   Mannington   Christine L. Fragale, et al.     145   38   10   Marion   Mannington   Christine L. Fragale, et al.     146   38   9   Marion   Mannington   Christine L. Fragale, et al.     147   38   10   Marion   Mannington   Christine L. Fragale, et al.     148   38   9   Marion   Mannington   Christine L. Fragale, et al.     149   38   10   Marion   Mannington   Christine L. Fragale, et al.     140   44   6   Marion   Mannington   Christine L. Fragale, et al.     141   42   43   Marion   Mannington   Christine L. Fragale, et al.     141   42   43   Marion   Mannington   Christine L. Fragale, et al.     141   42   43   Marion   Mannington   Christine L. Fragale, et al.     141   43   44   6   Marion   Mannington   Christine L. Fragale, et al.     142   44   6   Marion   Mannington   Christine L. Fragale, et al.     144   5   Marion   Mannington		0.000				Ronald C. & Betty L. Michael	5.17
124   37   18   Marior   Mannington   Tormry L. & Terd 14. Smodgrass						leffrey H. Michael	33.75
125   37   20							166.83
126   37   3						Tommy L & Terri A. Snodgrass	31.65
130   37   2.3   Marion Mannington   Rosemary A. & Samuel M. Snodgrass							NA
131							49.25
132   37   21.							2.83
133   37   21.1   Marion Mannington   Julie A. Titley & Justin R. Cain     134   38   13.1   Marion Mannington   Julie A. Titley & Justin R. Cain     135   38   13.2   Marion Mannington   Christine L. Fragale, et al.     136   38   13.3   Marion Mannington   Christine L. Fragale, et al.     137   44   1   Marion Mannington   Christine L. Fragale, et al.     138   44   3   Marion Mannington   Christine L. Fragale, et al.     138   44   3   Marion Mannington   Christine L. Fragale, et al.     139   44   4   Marion Mannington   Christine L. Fragale, et al.     140   44   24.1   Marion Mannington   Richard L. Cain     141   44   24.1   Marion Mannington   Richard L. Cain     142   44   6   Marion Mannington   Bd of Trs Most Worshipful Grd Ldg of AF&AM1     143   44   5   Marion Mannington   Strasland LTD     144   38   9   Marion Mannington   Ihomas E. & Andrea G. Ryan     145   38   10.1   Marion Mannington   Ihomas E. & Andrea G. Ryan     146   38   10.1   Marion Mannington   Michael E. & Laura A. Gorbey     147   38   11   Marion Mannington   Michael E. & Laura A. Gorbey     148   38   Marion Mannington   John D. & Raji K. Carson     149   38   Marion Mannington   John D. & Raji K. Carson     150   44   8   Marion Mannington   John D. & Raji K. Carson     150   45   Marion Mannington   Charles D. & June Shaver     151   49   9   Marion Mannington   Mannington     152   49   9   Marion Mannington   Mannington     153   44   10   Marion Mannington   Mannington   Mannington     154   49   Marion Mannington   Mannington   Mannington     155   49   9   Marion Mannington   Mannington   Mannington     156   49   Marion Mannington   Mannington   Mannington     156   49   Marion Mannington   Mannington     157   158   37   19   Marion Mannington   Mannington   Mannington     156   49   Marion Mannington   Manningto							29.226
134   38   13.1   Marion Mannington   Christine L Fragale, et al.							1.36
135   38   13.2   Marion Mannington   Christine L Fragale, et al.							11.171
136   38   13.3   Marion Mannington   Christine L. Fragale, et al.							16.56
138							7
138							15.87
139 M 4 Marion Mannington 140 Marion Mannington 141 Marion Mannington 142 Marion Mannington 143 Marion Mannington 144 Marion Mannington 145 Marion Mannington 146 Marion Mannington 147 Marion Mannington 148 Marion Mannington 149 Marion Mannington 140 Marion Mannington 140 Marion Mannington 141 Marion Mannington 142 Marion Mannington 143 Marion Mannington 144 Marion Mannington 145 Marion Mannington 146 Marion Mannington 147 Marion Mannington 148 Marion Mannington 149 Marion Mannington 149 Marion Mannington 150 Marion Mannington 150 Marion Mannington 151 Marion Mannington 152 Marion Mannington 153 Marion Mannington 154 Marion Mannington 155 Marion Mannington 156 Marion Mannington 157 Marion Mannington 158 Marion Mannington 158 Marion Mannington 159 Marion Mannington 150 Marion Manning							107.5
140	139	11					1
141	140	11					54.33
142         44         6         Marion Mannington         John D. & Raji K. Carson           143         44         5         Marion Mannington         Ihomas E. & Andrea G. Ryan           144         38         9         Marion Mannington         Ihomas E. & Andrea G. Ryan           145         38         10         Marion Mannington         Ihomas E. & Andrea G. Ryan           146         38         10.1         Marion Mannington         Michael E. & Laura A. Gorbey           147         38         11         Marion Mannington         John D. & Raji K. Carson           149         38         8.1         Marion Mannington         John D. & Raji K. Carson           150         44         8         Marion Mannington         John D. & Raji K. Carson           150         44         8         Marion Mannington         John D. & Raji K. Carson           150         44         9         Marion Mannington         John D. & Raji K. Carson           153         44         10         Marion Mannington         Charles D. & June Shaver           154         49         10         Marion Mannington         Harrison County Coal Resources Inc           155         49         Marion Mannington         Milles F. & Patty R. Andreson	1/11	44					43.56
143         44         5         Marion Mannington         Ihomas E. & Andrea G. Ryan           144         38         9         Marion Mannington         Ihomas E. & Andrea G. Ryan           145         38         10         Marion Mannington         Michael E. & Laura A. Gorbey           147         38         11         Marion Mannington         Michael E. & Laura A. Gorbey           148         38         8         Marion Mannington         John D. & Raji K. Carson           149         38         8.1         Marion Mannington         John D. & Raji K. Carson           150         44         8         Marion Mannington         Charles D. & June Shaver           152         44         9         Marion Mannington         Charles D. & June Shaver           153         44         10         Marion Mannington         Harrison County Coal Resources Inc           154         49         10         Marion Mannington         Harrison County Coal Resources Inc           155         49         9         Marion Mannington         Mills F. & Patty R. Anderson           157         37         19         Marion Mannington         Harrison County Coal Resources Inc           158         37         19         Marion Mannington         Ha	142	44	6				36.17
144         38         9         Marion Mannington         Ihomas E. & Andrea G. Ityan           145         38         10         Marion Mannington         Ihomas E. & Andrea G. Ityan           146         38         11         Marion Mannington         Michael E. & Laura A. Gorbey           147         38         11         Marion Mannington         John D. & Haji K. Carson           149         38         8.1         Marion Mannington         John D. & Haji K. Carson           150         44         8         Marion Mannington         Charles D. & June Shaver           152         44         9         Marion Mannington         Charles D. & June Shaver           154         49         10         Marion Mannington         Harrison County Coal Resources Inc           155         49         9         Marion Mannington         Willie F. & Patry R. Anderson           157         37         27         Marion Mannington         Harrison County Coal Resources Inc           158         37         19         Marion Mannington         Gray F. Smulgass           159         38         6         Marion Mannington         Harrison County Coal Resources Inc           159         38         6         Marion Mannington         Gray F. Smu	143	44	5				55
145         38         10         Marion Mannington         Ihomas E. & Andrea G. Ityan           146         38         10.1         Marion Mannington         Michael E. & Laura A. Gorbey           147         38         11         Marion Mannington         John D. & Haji K. Carson           149         38         8.1         Marion Mannington         John D. & Haji K. Carson           150         44         8         Marion Mannington         Charles D. & June Shaver           157         44         9         Marion Mannington         Charles D. & June Shaver           154         49         10         Marion Mannington         Harrison County Coal Resources Inc           155         49         Marion Mannington         Willis F. & Patty R. Anderson           156         49         / Marion Mannington         Harrison County Coal Resources Inc           157         37         27         Marion Mannington         Harrison County Coal Resources Inc           158         37         19         Multon Mannington         Gray F. Strodgrass           159         38         6         Marion Mannington         Harrison County Coal Resources Inc           159         38         6         Marion Mannington         Harrison Ray Resources Inc	144	38					24.51
146         38         10.1         Marion Mannington         Michael E. & Laura A. Gorbey           147         38         11         Marion Mannington         Yulia Nikolaeva           148         38         8         Marion Mannington         John D. & Haji K. Carson           149         38         8.1         Marion Mannington         John D. & Haji K. Carson           150         44         8         Marion Mannington         Charles U. & June Shaver           152         44         9         Marion Mannington         Charles U. & June Shaver           153         44         10         Marion Mannington         Harrison County Coal Resources Inc           154         49         9         Marion Mannington         Harrison County Coal Resources Inc           155         49         9         Marion Mannington         Willist F. & Patry R. Anderson           157         37         7         Marion Mannington         Harrison County Coal Resources Inc           158         37         19         Marion Mannington         Gary F. Smolgrass           159         38         6         Marion Mannington         Harrison County Coal Resources Inc           163         44         5.1         Marion Mannington         Harrison Res	145	38					62
147         38         11         Marion Mannington         Vulia Nikolaeva           148         38         8         Marion Mannington         John D. & Raji K. Carson           149         38         8.1         Marion Mannington         John D. & Raji K. Carson           150         44         8         Marion Mannington         Charles D. & June Shaver           159         44         19         Marion Mannington         Charles D. & June Shaver           154         49         10         Marion Mannington         Harrison County Coal Resources Inc           155         49         9         Marion Mannington         Willis F. & Patty R. Anderson           157         37         27         Marion Mannington         Harrison County Coal Resources Inc           158         37         19         Marion Mannington         Gray F. Smotglass           159         38         6         Marion Mannington         Thomas R. & Margaret M. Williams           163         44         5.1         Marion Mannington         Homas R. & Andrea G. Ryan	146	38					1/6.15
148         38         8         Marion         Mannington         John D. & Raji K. Carson           149         38         8.1         Marion Mannington         John D. & Raji K. Carson           150         44         8         Marion Mannington         Charles D. & June Shaver           159         44         10         Marion Mannington         Charles D. & June Shaver           154         49         10         Marion Mannington         Harrison County Coal Resources Inc           155         49         9         Marion Mannington         Willist E. & Patty R. Anderson           156         49         /         Marion Mannington         Willist E. & Patty R. Anderson           157         37         27         Marion Mannington         Harrison County Coal Resources Inc           158         37         19         Marion Mannington         Gray F. Smodgrass           159         38         6         Marion Mannington         Thomas R. & Margaret M. Williams           163         44         5.1         Marion Mannington         Incompact R. & Andrea G. Ityan	147	38					115
149         38         8.1         Marion Mannington         John D. & Itaji K. Carson           150         44         8         Marion Mannington         Charles D. & June Shaver           152         44         9         Marion Mannington         Charles D. & June Shaver           153         44         10         Marion Mannington         Charles D. & June Shaver           154         49         10         Marion Mannington         Harrison County Coal Resources Inc           155         49         9         Marion Mannington         Wills F. & Patty R. Anderson           157         37         27         Marion Mannington         Harrison County Coal Resources Inc           158         37         19         Marion Mannington         Gray F. Smolgrass           159         38         6         Marion Mannington         Thomas R. & Margaret M. Williams           163         44         5.1         Marion Mannington         Ihomas F. & Andrea G. Ityan	148	38	8	Marion P	Mannington		64.56
150         44         8         Marion Mannington         Charles D. & June Shaver           152         44         9         Marion Mannington         Charles D. & June Shaver           153         44         10         Marion Mannington         Charles D. & June Shaver           154         49         10         Marion Mannington         Harrison County Coal Resources Inc           155         49         9         Marion Mannington         Willist F. & Patry IR. Anderson           157         37         27         Marion Mannington         Harrison County Coal Resources Inc           158         37         19         Marion Mannington         Gary F. Smolgrass           159         38         6         Marion Mannington         Thomas R. & Margaret M. Williams           163         44         5.1         Marion Mannington         Ihomas F. & Andrea G. Ityan	149	38					2.60
157         44         9         Marion Mannington         Charles D. & June Shaver           153         44         10         Marion Mannington         Charles D. & June Shaver           154         49         10         Marion Mannington         Harrison County Coal Resources Inc           155         49         9         Marion Mannington         Willis F. & Patty R. Anderson           157         37         27         Marion Mannington         Harrison County Coal Resources Inc           158         37         19         Malton Mannington         Gary F. Snodgrass           159         38         6         Marion Mannington         Thomas R. & Margaret M. Williams           163         44         5.1         Marion Mannington         Ihomas F. & Andrea G. Ilyan	150	44	8	Marion N	Mannington		16.5
153         44         10         Marion Mannington         Charles D. & June Shaver           154         49         10         Marion Mannington         Harrison County Coal Resources Inc           155         49         9         Marion Mannington         Willis F. & Patty R. Anderson           156         49         7         Marion Mannington         Willis F. & Patty R. Anderson           157         37         27         Marion Mannington         Harrison County Coal Resources Inc           158         37         19         Multon Mannington         Gray F. Strodgrass           159         38         6         Marion Mannington         Thomas R. & Margaret M. Williams           163         44         5.1         Marion Mannington         Ihomas F. & Andrea G. Ityan		44	9	Marion A	Aannington		19
154         49         10         Marion Mannington         Harrison County Coal Resources Inc           155         49         9         Marion Mannington         Derek Nuzum           156         49         /         Marion Mannington         Willis F. & Patty R. Anderson           157         37         27         Marion Mannington         Harrison County Coal Resources Inc           158         37         19         Marion Mannington         Gary F. Smolgrass           159         38         6         Marion Mannington         Thomas R. & Margaret M. Williams           163         44         5.1         Marion Mannington         Thomas F. & Andrea G. Byan		44					128.75
155         49         9         Marion Mannington         Derek Nuzum           156         49         /         Marion Mannington         Willis F. & Patty R. Anderson           157         37         27         Marion Mannington         Harrison County Coal Resources Inc           158         37         19         Marion Mannington         Gary F. Smudgrass           159         38         6         Marion Mannington         Thomas R. & Margoret M. Williams           163         44         5.1         Marion Mannington         Ihomas F. & Andrea G. Byan		49					102.6
156         49         /         Marion Mannington         Willis F. & Patty R. Anderson           157         37         27         Marion Mannington         Harrison County Coal Resources Inc.           158         37         19         Mailton Mannington         Gary F. Snudgrass           159         38         6         Marion Mannington         Thomas R. & Margoret M. Williams           163         44         5.1         Marion Mannington         Ihomas F. & Andrea G. Ilyan		100					33.75
157         37         27         Marion Mannington         Harrison County Coal Resources Inc.           158         37         19         Multon Mannington         Gavy F. Smodgrass           159         38         6         Murion Mannington         Thomas R. & Murgaret M., Williams           163         44         5.1         Marion Mannington         Thomas L. & Andrea G. Byan		49					30
158         37         19         Mailton Mannington         Gary F. Snudgrass           159         38         6         Marion Mannington         Thomas R. & Margoret M., Williams           163         44         5.1         Marion Mannington         Ihomas L. & Andrea G. Ryan						Harrison County Coal Resources Inc.	85.5
159 38 6 Marion Mannington Thomas R. & Margaret M. Williams 163 44 5.1 Marion Mannington Ihomas F. & Andrea G. Byan			19	Marion N	Aannington		3.61
163 44 5.1 Marion Mannington Ihomas F. & Andrea G. Ryan							11.19
				Marion A	Annington		0.49
Partition of the state of the s						Matthew I. Cam	0.67
165 50 11 Marion Mannington Joseph R. & Whitney N. Elliott	165	50	11	Marion N	Amnington		27.082

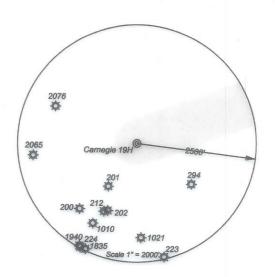


Carnegie 19H coordinates are NAD 27 N: 374,337.69 E: 1,735,852.98 NAD 27 N: 374,337.09 E: 1,735,852.96 NAD 27 Lat: 39.523997 Long: -80.436411 NAD 83 UTM N: 4,375,088.77 E: 548,456.59 NAD 83 UTM N: 4,375,088.77 E: 548,456.59
Camegle 19H Bottom Hole coordinates are
NAD 27 N: 375,092.81 E: 1,738,544.05
NAD 27 Lat: 39.526147 Long: -80.428899
NAD 83 UTM N: 4,375,332.50 E: 549,272.63
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.

Camegie @ Carnegle 19H Cameaie 18H@ Carnegie 16H@ Carnegie 14H@ Carnegie 12H(6) Carnegie 10H@ ⊚ Carnegie 11H ⊚ Carnegie 9H Camegie 8H@ Carnegie 6H@ Carnegie 4H@ © Carnegie 5H ⊚Camegie 3H Carnegie 2H@ 

Lease No.	Owner	Asses
	Bounty Minerals, LLC, et al.	Acres 135
	Judith Ann Myers, et al.	36
	Sarabeth Lamm, et al.	123
111776000	Joseph R. Elliott and Whitney N. Elliott, et al.	250





FILE NO: 92-21

SCALE:

DRAWING NO: Carnegie 19H

1" = 2000'

1:2500 PROVEN SOURCE OF ELEVATION:

MINIMUM DEGREE OF ACCURACY:

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.

> P.S. 2092

NO. 2092
STATE OF VIRCE SEAL

	OF WEST PLAN
-	STATE OF WEST VIRGINIA  DEPARTMENT OF ENVIRONMENTAL PROTECTION
-1	OIL AND GAS DIVISION
_	SEASON LINE

DATE: October 31 OPERATOR'S WELL NO.: Camegie 19H **API WELL NO** 

Clarksburg, WV 25301

02529 049

NGS CORS Station	SEAPER LINEARY	STATE COUNTY PERMIT
(IF GAS) PRODUCT	□ LIQUID INJECTION □ WASTE DISPO	DSAL LLOW
DISTRICT: Mannington SURFACE OWNER: Jeanne A. Musgra	WATERSHED Laurel Run of Owen Davy COUNTY: ve Akers & Joseph Forte	
□PERFORATE NEW FORMATION	☐OTHER PHYSICAL CHANGE IN WELL	O:112106000 ACREAGE:135
WELL OPERATOR: EQT Production C ADDRESS: 400 Woodcliff Driv Canonsburg, PA 1	ADDRESS:	

# 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			Operator's Well No.		Carnegie 19H
Lease No.	Grantor, Lessor, etc.		Grantee, Lessee, etc.	Royalty	Book/Page
112106000	Bounty Minerals, LLC, et al.			"at least 1/8th per WV Code 22-6-8"	de
	Guy F. Musgrave, single, et al.	135 ac	Pittsburgh and West Virginia Gas Company		DB 465/312
	Pittsburgh and West Virginia Gas Company		Equitable Gas Company		DB 510/487
	Pittsburgh and West Virginia Gas Company		Equitable Gas Company		DB 511/539
	Equitable Gas Company		Equitrans, Inc.		AB 12/279
	Equitrans, Inc.		Equitable Gas Company, LLC		DB 1148/296
	Equitable Gas Company, LLC		Equitrans, LP		AB 46/660
	Equitrans, L.P.		EQT Production Company		DB 1114/130
\				"at least 1/8th per WV Code	de
116966000	Judith Ann Myers, et al.  Marshall Cutrioht and Betty Cutrioht, husband and wife, and Dick			22-6-8"	
	Cartright, single	36 ac	Equitable Gas Company		DB 724/970
	Equitable Gas Company		Equitrans, Inc.		AB 12/279
	Equitrans, Inc.		Equitable Gas Company, LLC		DB 1148/296
	Equitable Gas Company, LLC		Equitrans, LP		AB 46/660
	Equitrans, L.P.		EQT Production Company		DB 1114/130
146964004				"at least 1/8th per WV Code	ер
110201004	Sarabeth Lamm, et al.			22-6-8"	
	Sarabeth Lamm, single	123 ac	Republic Energy Ventures, LLC		DB 1203/1160
	Republic Energy Ventures, LLC		EQT Production Company		AB 52/744

Office of Oil and Ga.	
NOV 0 3 2023	8
Environmental Protection	
Protection	

0	Joseph R. Elliott and Whitney N. Elliott, et al.		22-6-8"	
	George W & Mariah Beaty 250 ac	ac J.M. Sullivan		DB 130/340
	J.M. Sullivan	William H. Furbee		DB 130/342
	William H. Furbee	Home Gas Company		DB 180/2
	Wm. H. Furbee	Logansport-Mannington Oil Company J.B. Miller: and A.D.	d A.D.	DB 130/366
	Logansport-Mannington Oil Company	Miller		DB 140/396
	Home Gas Company	M.K. McMillin		DB 150/389
	M.K. McMillin, et ux.	The Fairmont & Grafton Gas Company		DB 353/403
	J.P. Stone	Ed Wittish		DB 156/68
	John B. Miller, et ux; Robert B. Miller, et ux; David Bear, et ux;			
	Edward Wittish, et ux; Andrew D. Miller, et ux; and James P. Stone	Anchor Oil Company		DB 186/301
	Fairmont & Grafton Gas Company	Pittsburgh and West Virginia Gas Company		Corn Book
	Pittsburgh and West Virginia Gas Company	Anchor Oil Company		DB 492/409
	Anchor Oil Company	Southern Oil Company		DB 286/230
	Southern Oil Company	Pittsburg Oil and Gas Company		DB 319/145
	Pittsburg Oil and Gas Company	Ohio-West Virginia Oil & Gas Co.		DB 487/421
	Ohio-West Virginia Oil and Gas Co.	J. M. Read, t/d/b/a Read Supply Company		DB 493/230
	J. M. Read, t/d/b/a Read Supply Company	Pittsburgh and West Virginia Gas Company		DB 493/227
	J. M. Read, t/d/b/a Read Supply Company	Pittsburgh and West Virginia Gas Company		DB 502/577
	Pittsburgh and West Virginia Gas Company	Equitable Gas Company		DB 510/487
	Pittsburgh and West Virginia Gas Company	Equitable Gas Company		DB 511/539
	Equitable Gas Company	Equitrans, Inc.		AB 12/279
	Equitrans, Inc.	Equitable Gas Company, LLC		DB 1148/29
	Equitable Gas Company, LLC	Equitrans, LP		AB 46/660
	Equitrans, L.P.	EQT Production Company		DB 1114/13

"at least 1/8th per WV Code





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 19H 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

WW-PN (11-18-2015)

# Horizontal Natural Gas Well Work Permit Application Notice By Publication

## Notice is hereby given:

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	**************************************		NOV 03 2023
Public Notice Date: July 28th and August 4th, 20	)23		British San
The following applicant intends to apply for a surface excluding pipelines, gathering lines an any thirty day period.	ı horizontal na d roads <b>or</b> uti	atural well wor	k permit which disturbs three acres or more of a two hundred ten thousand gallons of water in
Applicant: EQT Production Company		Well Nun	nber: Carnegie 19H
Address: 400 Woodcliff Drive			
Canonsburg, PA 15317			
Business Conducted: Natural gas production	1.		
Location –			
State: wv		County:	Marion
District: Mannington		Quadrangle:	Glover Gap
UTM Coordinate NAD83 Northing:	4375088.770		
UTM coordinate NAD83 Easting:	548456.586		
Watershed: Laurel Run of Owen Davy Fork			

#### **Coordinate Conversion:**

To convert the coordinates above into longitude and latitude, visit: <a href="http://tagis.dep.wv.gov/convert/llutm\_conus.php">http://tagis.dep.wv.gov/convert/llutm\_conus.php</a>

### **Electronic notification:**

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit <a href="http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx">http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx</a> 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 57<sup>th</sup> 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 <a href="https://apps.dep.wv.gov/oog/comments/comments.cfm">https://apps.dep.wv.gov/oog/comments/comments.cfm</a>, or by letter to Permit Review, Office of Oil and Gas, 601 57<sup>th</sup> 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: <a href="www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>

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

Date of Notic	re Certification: 11/2-12-3	NOV 03 2023		Well No. 19H	
Notice has b	noon givon.	WV Department of	Well Pad N	lame: Carnegie	9
Notice has b		Environmental Protection	21.1.1		14 4 51 4 B 11 . 1
helow for the	e provisions in West Virginia Coc tract of land as follows:	ie § 22-6A, the Operator has pro-	vided the req	uired parties v	with the Notice Forms listed
State:	West Virginia		Easting:	548456.586	
County:	Marion	UTM NAD 83	Northing:	4375088.770	
District:	Mannington	Public Road Acc		CR 7/3	
Quadrangle:	Glover Gap	Generally used fa			ave Akers & Joseph Forte
Watershed:	Laurel Run of Owen Davy Fork	Senerally asea is			TO THOSE & SOCIETY ON
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b the secretary, shall be verified and ed the owners of the surface desc equired by subsections (b) and (c), surface owner notice of entry to of subsection (b), section sixteer e § 22-6A-11(b), the applicant sha have been completed by the applica	d shall contain the following info cribed in subdivisions (1), (2) a section sixteen of this article; (i survey pursuant to subsection of of this article were waived in all tender proof of and certify to t	ormation: (14 and (4), subs i) that the red (a), section t writing by	A certification (b), section (b), section (b), section (c), section (c	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 Oper	West Virginia Code § 22-6A, the rator has properly served the requ	Operator has attached proof to tired parties with the following:	his Notice Co	ertification	OOG OFFICE USE ONLY
☐ 1. NOT	TICE OF SEISMIC ACTIVITY	or NOTICE NOT REQUIR SEISMIC ACTIVITY WAS			RECEIVED/ NOT REQUIRED
☐ 2. NOT	TICE OF ENTRY FOR PLAT SU	RVEY or 🔳 NO PLAT SURV	EY WAS CC	NDUCTED	RECEIVED
■ 3. NOT	TICE OF INTENT TO DRILL C	NOTICE NOT REQUIRED NOTICE OF ENTRY FOR IT WAS CONDUCTED OR		DOMESTIC STREET	☐ RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER (PLEASE ATTACH)		CE OWNER	
■ 4. NOT	CICE OF PLANNED OPERATION	N			☐ RECEIVED
■ 5. PUB	LIC NOTICE				RECEIVED
■ 6. NOT	TCE 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 personal service, the return receipt card or other postal receipt for certified mailing.

Its:

Telephone:

## Certification of Notice is hereby given:

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

Well Operator:

EQT Production Company

Address:

400 Woodcliff Drive

Canonsburg, PA 15317

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

Project Specialis

724-746-9073

Subscribed and sworn before me this day of

412-395-2974

jzavatchan@eqt.com

\_\_ Notary Public

My Commission Expires

Facsimile:

Email:

Oil and Gas Privacy Notice:

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

Office of Oil and Gase
NOV 03 2023

Wy Department of Environmental Protection

WW-6A (9-13)

# 4704902529 API NO. 47-\_\_\_\_

API NO. 47-\_\_\_ OPERATOR WELL NO. 19H
Well Pad Name: Carnegie

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

Not	ice Time Requirement:	notice shall be provided	no later tha	n the filing date of permit applic	ation.
	e of Notice: [[]]]3 [ ice of:	ate Permit Application	Filed: [[[	423	MOV 03 2023
<b>√</b>	PERMIT FOR ANY WELL WORK			ROVAL FOR THE AN IMPOUNDMENT OR PIT	Environmental Protection
Deli	very method pursuant	to West Virginia Code	§ 22-6A-10	(b)	Rection
	PERSONAL SERVICE	REGISTERED MAIL		OD OF DELIVERY THAT REQU PT OR SIGNATURE CONFIRM	
the soil a desc oper more well important proper substruction of the control of th	aurface of the tract on whind gas leasehold being de ribed in the erosion and so ator or lessee, in the event e coal seams; (4) The own work, if the surface tract bundment or pit as describe a water well, spring or wide water for consumption osed well work activity is ection (b) of this section had so of the sheriff required ision of this article to the e R. § 35-8-5.7.a requires	ch the well is or is proposed veloped by the proposed veloped by the proposed veloped in the tract of land on which the tract of land on which ers of record of the surface is to be used for the placer well in section nine of this later supply source located in by humans or domestic at to take place. (c)(1) If moved interests in the lands, to be maintained pursuant contrary, notice to a lien h, in part, that the operator	ed to be local well work, if nitted pursuant he the well properties that the well properties (5) A lawithin one transment; and one than three the applicant to section enolder is not a shall also properties with the properties of	ted; (2) The owners of record of the the surface tract is to be used for ront to subsection (c), section seven of posed to be drilled is located [sic] ets overlying the oil and gas leasehoution, enlargement, alteration, repany surface owner or water purveyor housand five hundred feet of the ce (6) The operator of any natural gas tenants in common or other co-ow that may serve the documents required tight, article one, chapter eleven-a on totice to a landowner, unless the life	of this article; (3) The coal owner, is known to be underlain by one or old being developed by the proposed air, removal or abandonment of any r who is known to the applicant to enter of the well pad which is used to storage field within which the eners of interests described in a upon the person described in the of this code. (2) Notwithstanding any en holder is the landowner. W. Va. WSSP") to the surface owner and any
☑ A	pplication Notice 🛛 W	SSP Notice ☐ E&S P	lan Notice	☑ Well Plat Notice is hereby p	provided to:
Nam	URFACE OWNER(s) ae: See Attached List ress:			☑ COAL OWNER OR LESSEE Name: See Attached List Address:	
Nam Add	ress:			✓ COAL OPERATOR Name: See Attached List Address:	
Nam Addi	e: See Attached List ress:			SURFACE OWNER OF WAT AND/OR WATER PURVEYOR Name:  See Attached List Address:	TER WELL
Addi	e:			Address:  OPERATOR OF ANY NATU.  Name: See Attached List	
Nam				Address:	
	Mari			*Please attach additional forms it	f necessary

WW-6A (8-13) RECEIVED Office of Oil and Gas NOV 0.3 2023

API NO. 47-0 4 0 0 2 5 2 0 OPERATOR WELL NO. 19H 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

#### **Well Location Restrictions**

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items WW-6A (8-13)



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 57<sup>th</sup> 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.



# Time Limits and Methods for Filing Comments.

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

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

#### **Comment Requirements**

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

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

### Permit Denial or Condition

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

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

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

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

WOV 03 2023

WW-6A (8-13)

API NO. 47- 0 4 9 0 2 5 2 9
OPERATOR WELL NO. 19H
Well Pad Name: Carnegie

Notice is hereby given by:

Well Operator: EQT Production Company

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

Address: 400 Woodcliff Drive

Canonsburg, PA 15317

Facsimile: 412-395-2974

### Oil and Gas Privacy Notice:

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

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

Member, Pennsylvania Association of Netaries

Subscribed and sworn before me this day of

OV, our

My Commission Expires

Notary Public

NOV 03 2023
WV Depart are as

WW-6A4 (1/12)

# 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.

			Offic NECEUS		
Notice Time Date of Notic	Requirement: Notice shall be e: 08/30/2021	provided at least TEN (10) days prior to filing a  Date Permit Application Filed: 1112123	permit application. or Oil and Can		
		. C. J. 2 22 (A 16/b)	3 2023		
Delivery met	hod pursuant to West Virgin	1a Code § 22-6A-16(b)	Environmental a		
☐ HAND	■ CERTIFIED N	MAIL	montel ware		
DELIVE	RY RETURN RE	CEIPT REQUESTED	14 mg		
receipt reques drilling a hori of this subsec- subsection ma	ted or hand delivery, give the zontal well: <i>Provided</i> , That r tion as of the date the notice way be waived in writing by the	least ten days prior to filing a permit application surface owner notice of its intent to enter upon to otice given pursuant to subsection (a), section to as provided to the surface owner: <i>Provided</i> , how surface owner. The notice, if required, shall incronic mail address of the operator and the operator	en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number,		
Notice is he	reby provided to the SUR	FACE OWNER(s):			
Name: See Attac	ched List	Name: See Attached List			
		Address:			
Notice is he Pursuant to W the surface ov State: County:	Vest Virginia Code § 22-6A-1	6(b), notice is hereby given that the undersigned drilling a horizontal well on the tract of land as formula with the undersigned drilling a horizontal well on the tract of land as formula with the undersigned drilling a horizontal well as formula with the undersigned drilling a horizontal well as formula with the undersigned drilling a horizontal well as formula with the undersigned drilling a horizontal well as formula with the undersigned drilling a horizontal well as formula with the undersigned drilling a horizontal well as formula with the undersigned drilling a horizontal well as formula well as formula well as formula with the undersigned drilling a horizontal well as formula well as f	Ilows: 548,456.586 4,375,088.770		
District:	Mannington	Public Road Access:	CR 7/3		
Quadrangle:	Glover Gap	Generally used farm name:	Jeanne A. Musgrave Akers and Joseph Forte		
Watershed: Laurel Run of Owen Davy Fork  This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters,					
located at 60	1 57 <sup>th</sup> Street, SE, Charleston, V	VV 25304 (304-926-0450) or by visiting <u>www.c</u>	dep.wv.gov/oil-and-gas/pages/default.aspx.		
	reby given by:	Authorized Domesontative	John Zavatchan		
Well Operator: EQT Production Company		Authorized Representative Address:	400 Woodcliff Drive		
Address:	400 Woodcliff Drive	Address:			
	Canonsburg, PA 15317	Telephone:	Canonsburg, PA 15317		
Telephone:	724-746-9073		724-746-9073		
Email:	jzavatchan@eqt.com	Email:	jzavatchan@eqt.com		
Facsimile: 412-395-2974 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.

WW-6A5 (1/12)

4704902529 Operator Well No. Carmegie 19H

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS $\underline{\text{NOTICE OF PLANNED OPERATION}}$

	the filing date of permit application.  Filed: 1112123					
Date of Notice: 111123 Date Permit Application Filed: 111213  Delivery method pursuant to West Virginia Code § 22-6A-16(c)						
■ CERTIFIED MAIL □ HAND RETURN RECEIPT REQUESTED □ DELIVER	· Olympia					
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:						
District: Mannington Pub Quadrangle: Glover Gap Ger	ven that the undersigned well operator has developed a planned horizontal well on the tract of land as follows:  M NAD 83  Easting: Northing:  OIIC Road Access:  CR 7/3  Jeanne A. Musgrave Akers & Joseph Forte					
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 57 <sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a> .						
The state of the s	Address: 400 Woodcliff Drive					
Telephone:         724-746-9073           Email:         jzavatchan@eqt.com	Canonsburg, PA 15317 acsimile: 412-395-2974					

Oil and Gas Privacy Notice:

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



# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways** 

1900 Kanawha Boulevard East • Building Five • Room 110

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

Charleston, West Virginia 25305-0430 • (304) 558-3505

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

RECEIVED Office of Oil and Gas

NOV 03 2023

INV Department on Englishment Profession

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 19H 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,

Day L. Clayton Gary K. Clayton, P.E.

Regional Operations Engineer Central Office O&G Coordinator

Cc: John Zavatchan

**EQT Production Company** 

OM, D-4

File

E.E.O./AFFIRMATIVE ACTION EMPLOYER

# Anticipated Frac Additives Chemical Names and CAS Numbers

Material Sand (Proppant) Water Hydrochloric Acid (HCI) Friction Reducer	Ingredient Silica Substrate Water Hydrogen Chloride Copolymer of 2-propenamide Petroleum Distillate Oleic Acid Diethanolamide	CAS Number 14808-60-7 7732-18-5 7647-01-0 Proprietary 64742-47-8
Biocide  Scale Control	Alcohols, C12-16, ethoxylated Ammonium chloride ((NH4)Cl)  Glutaraldehyde  Alkyl dimethyl benzyl ammonium chloride  Didecyl dimethyl ammonium chloride  Non-hazardous substances  Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid)(BHMT)	93-83-4 68551-12-2 12125-02-9 111-30-8 68391-01-5 7173-51-5 Proprietary 34690-00-1
Acid Chelating Agent	Ferriplex 66	Proprietary
Corrosion Inhibitor	Citric Acid Acetic Acid PLEXHIB 166 Methanol Alcohols, C14-15, ethoxylated	77-92-9 64-19-7 67-56-1 68951-67-7



OPERATOR: EQT Production Company	WELL NO: 19H
PAD NAME: Carnegie	01/24
REVIEWED BY: John Zavatchan	_ SIGNATURE:
	RECEIVED
WELL RESTRICTION	ONS CHECKLIST Office of Oil and Gas
HORIZONTA	L 6A WELL NOV 0 3 2023
	WV Depend on the Environment of the Control of the
Well Restrictions	
At Least 100 Feet from Pad and LOD (i Perennial Stream, Lake, Pond, Reservoi	ncluding any E&S Control Feature) to any r or Wetland; OR
DEP Waiver and Permit Condition	ons
At Least 300 Feet from Pad and LOD (i Naturally Producing Trout Stream; OR	ncluding any E&S Control Feature) to any
DEP Waiver and Permit Condition	ons
At Least 1000 Feet from Pad and LOD ( Groundwater Intake or Public Water Su	(including any E&S Control Feature) to any pply; OR
DEP Waiver and Permit Condition	ons
At Least 250 Feet from an Existing Wat Drilled; OR	er Well or Developed Spring to Well Being
Surface Owner Waiver and Reco	orded with County Clerk, OR
DEP Variance and Permit Condi	tions
At Least 625 Feet from an Occupied Dw	velling Structure to Center of the Pad; OR
Surface Owner Waiver and Reco	orded with County Clerk, OR
DEP Variance and Permit Condi	tions
At Least 625 Feet from Agricultural Bui of the Pad; OR	ldings Larger than 2500 Square Feet to the Center
Surface Owner Waiver and Reco	rded with County Clerk, OR

DEP Variance and Permit Conditions