

FEB 24 2024

WV Department of
Environmental Protection

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

APPROVED
H. J. [Signature]
3/26/25

API 47 - 049 - 02515 County Marion District Mannington
Quad Glover Gap Pad Name RADCLIFF Field/Pool Name N/A
Farm name Jackie D. and Sheila L. Radcliff Well Number Radcliff 18H (L003795)
Operator (as registered with the OOG) EQT Production Company
Address 400 Woodcliff Drive City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,382,179.40 Easting 548,252.78
Landing Point of Curve Northing 4,382,293.02 Easting 549,357.09
Bottom Hole Northing 4,380,001.73 Easting 550,582.94

Elevation (ft) 1493' GL Type of Well ☒ New ☐ Existing Type of Report ☐ Interim ☒ Final
Permit Type ☐ Deviated ☐ Horizontal ☒ Horizontal 6A ☐ Vertical Depth Type ☐ Deep ☒ Shallow
Type of Operation ☐ Convert ☐ Deepen ☒ Drill ☐ Plug Back ☐ Redrilling ☐ Rework ☒ Stimulate
Well Type ☐ Brine Disposal ☐ CBM ☒ Gas ☐ Oil ☐ Secondary Recovery ☐ Solution Mining ☐ Storage ☐ Other _____
Type of Completion ☒ Single ☐ Multiple Fluids Produced ☐ Brine ☒ Gas ☐ NGL ☐ Oil ☐ Other _____
Drilled with ☐ Cable ☒ Rotary

Drilling Media Surface hole ☒ Air ☐ Mud ☐ Fresh Water Intermediate hole ☒ Air ☐ Mud ☐ Fresh Water ☐ Brine
Production hole ☒ Air ☒ Mud ☐ Fresh Water ☐ Brine

Mud Type(s) and Additive(s)

Synthetic Oil Based Mud 13.91 ppg barium sulfate, sodium chloride, xanthan gum, polyanionic cellulose, modified starch, sodium hydroxide, phosphonates and alkyl phosphates, glutaraldehyde solution, calcium hydroxide, partially hydrolyzed polyacrylamide/polyacrylate, potassium chloride, sodium carbonate, ground walnut shells, alcohol and modified fatty acid, ferrochrome lignosulfonate, calcium carbonate, fibrous cellulose

Date permit issued 09/11/2023 Date drilling commenced 11/05/2023 Date drilling ceased 04/23/2024
Date completion activities began 10/14/2024 Date completion activities ceased 11/15/2024
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 448', 478', 609', 739', 893' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2090' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1190', 1282' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

04/11/2025

API 47- 049 - 02515 Farm name Jackie D. and Sheila L. Radcliff Well number Radcliff 18H (L003795)

CASING STRINGS	Hole Size	Casing Size	Depth (GL)	New or Used	Grade wt/ft	Basket Depth(s) (GL)	Did cement circulate (Y/ N) * Provide details below*
Conductor	30"	26"	40'	NEW	A-500 85.6#	N/A	Y
Surface	17-1/2"	13-3/8"	1356'	NEW	J-55 54.5#	1262'	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2718'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4", 8-1/2"	6"	17,911'	NEW	P-110 24#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production cmt has calculated TOC of 1470'GL, which is greater than 500'TVD above the producing formation. No issues.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (GL)	WOC (hrs)
Conductor	CLASS A	83	15.6	1.18	98	0	8+
Surface	CLASS L	1280	16.0	1.09	1395	0	8
Coal							
Intermediate 1	CLASS L	1005	15.6	1.14	1146	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2880	15.0	1.19	3427	1470'	8+
Tubing							

Drillers TD (ft) 17,934' Loggers TD (ft) N/A
Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
Plug back procedure Air Drop Plug: Pump 41 Bbls of 17.0 ppg Class H 2% Cal-NTC-405 kick plug, Estimated top of cement 3050', Pump 30 BBL of water to washout D.P.

Kick off depth (ft) 1426'

Check all wireline logs run

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☐ density ☒ deviated/directional ☐ induction
☐ neutron ☐ resistivity ☒ gamma ray ☐ temperature ☐ sonic

Well cored ☐ Yes ☒ No ☐ Conventional ☐ Sidewall

Were cuttings collected ☐ Yes ☒ No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING

CONDUCTOR- NONE

SURFACE- ON SHOE TRACK AND EVERY 500' TO SURFACE

INTERMEDIATE: ON SHOE TRACK AND EVERY 500' FEET TO SURFACE

PRODUCTION: ON SHOE TRACK, EVERY OTHER JOINT TO 9480', EVERY JOINT TO 8368' AND EVERY OTHER JOINT TO 2095'

WAS WELL COMPLETED AS SHOT HOLE ☐ Yes ☒ No DETAILS

WAS WELL COMPLETED OPEN HOLE? ☐ Yes ☒ No DETAILS

WERE TRACERS USED ☐ Yes ☒ No TYPE OF TRACER(S) USED

04/11/2025

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	See Attached				

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
			See Attached					

Please insert additional pages as applicable.

Well number Radcliff 18H (L003795)

DEPTHS

MD

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	

[illegible]

Signature  Title Mgr Completions Engr Date 2025-02-12

Attach copy of FRACFOCUS Registry

04/11/2025

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Drilling Contractor Falcon (Rig 25)
Address 1120 US-119 City Indiana State PA Zip 15701

Logging Company Scientific Drilling International
Address 3475 Washington Ave City Finleyville State PA Zip 15332

Logging Company GyroData
Address 73 Noblestown Road City Carnegie State PA Zip 15106

Drilling Contractor _____
Address _____ City _____ State _____ Zip _____

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Well # RADCLIFF 18H Final Formations API# 47-049-02515				
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	1,190	1,190
Sewickley Coal	1,190	1,190	1,194	1,194
Sand/Shale	1,194	1,194	1,282	1,282
Pittsburgh Coal	1,282	1,282	1,292	1,292
Sand/Shale	1,292	1,292	2,455	2,448
Big Lime	2,455	2,448	2,528	2,521
Big Injun	2,528	2,521	2,656	2,648
Sand/Shale	2,656	2,648	2,771	2,762
Berea	2,771	2,762	3,346	3,333
Gordon	3,346	3,333	3,508	3,492
Bayard	3,508	3,492	5,949	5,537
Alexander	5,949	5,537	6,394	5,878
Elks	6,394	5,878	8,382	7,408
Sonyea	8,382	7,408	8,589	7,574
Middlesex	8,589	7,574	8,670	7,634
Genesee	8,670	7,634	8,822	7,736
Geneseo	8,822	7,736	8,876	7,768
Tully	8,876	7,768	8,937	7,802
Hamilton	8,937	7,802	9,221	7,911
Marcellus	9,221	7,911	17,934	7,965

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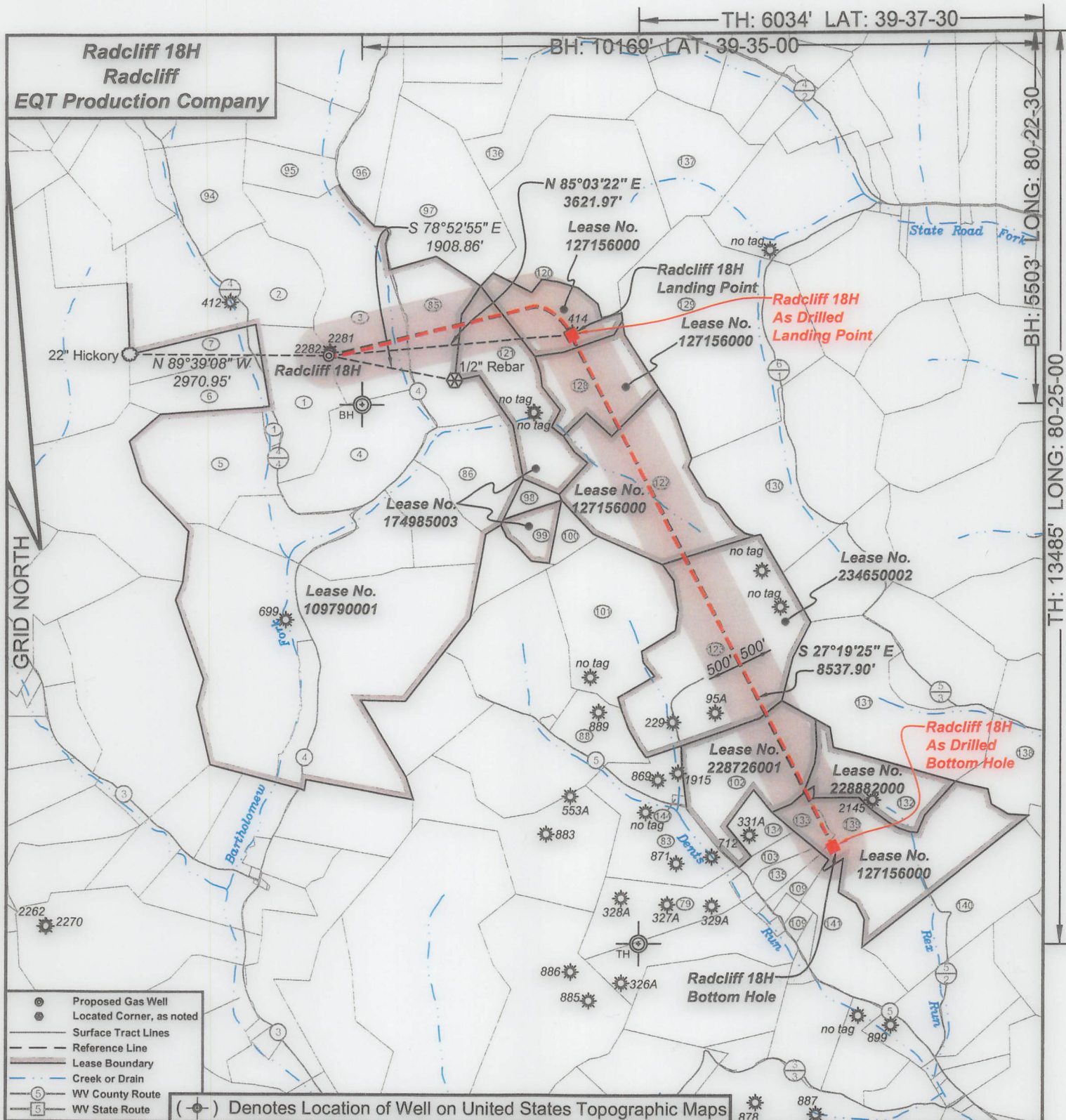
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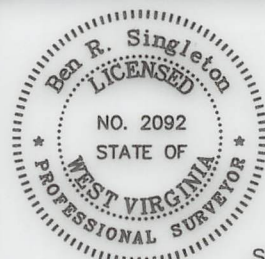
Radcliff 18H Radcliff EQT Production Company				Well References		As Drilled Well Information: Radcliff 18H coordinates are: NAD 83 N: 397,653.47 E: 1,704,133.22 NAD 83 UTM N: 4,382,179.40 E: 548,262.78 Radcliff 18H Landing Point coordinates are: NAD 83 N: 397,965.62 E: 1,707,763.15 NAD 83 UTM N: 4,382,293.02 E: 549,357.09 Radcliff 18H Bottom Hole coordinates are: NAD 83 N: 390,350.04 E: 1,711,660.17 NAD 83 UTM N: 4,380,001.73 E: 550,582.94 West Virginia Coordinate system of 1983 (North Zone), based upon Differential GPS Measurements. Pit orientation, corner and well ties are based upon the grid north meridian. Well location references are based upon the grid north meridian. UTM coordinates are NAD83, Zone 17, Meters																																																																																																																																																																																																																																																																																																														
<table border="1"><thead><tr><th>Well ID</th><th>Tax Map Sec</th><th>Owner</th><th>County</th><th>City/Town</th><th>Surface Owner</th><th>Acres</th></tr></thead><tbody><tr><td>1</td><td>40</td><td>20</td><td>Marion</td><td>Mannington</td><td>Jackie D. & Sheila L. Radcliff</td><td>44.02</td></tr><tr><td>2</td><td>40</td><td>20</td><td>Marion</td><td>Mannington</td><td>Sheila L. Radcliff</td><td>43.03</td></tr><tr><td>3</td><td>40</td><td>20</td><td>Marion</td><td>Mannington</td><td>Jason G. & Michelle R. Stout</td><td>50.75</td></tr><tr><td>4</td><td>40</td><td>20</td><td>Marion</td><td>Mannington</td><td>David E. Knight</td><td>16.12</td></tr><tr><td>5</td><td>40</td><td>11</td><td>Marion</td><td>Mannington</td><td>Carlene W. Tuckey</td><td>82</td></tr><tr><td>6</td><td>40</td><td>11</td><td>Marion</td><td>Mannington</td><td>Jackie D. & Sheila L. Radcliff</td><td>27.70</td></tr><tr><td>7</td><td>40</td><td>11</td><td>Marion</td><td>Mannington</td><td>Sheila L. 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Gaud</td><td>15.32</td></tr><tr><td>14</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>EBK-EM LLC</td><td>20.8</td></tr><tr><td>15</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Tax Info Not Available</td><td>8.6</td></tr><tr><td>16</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Jason G. & Michelle R. Stout</td><td>92.9</td></tr><tr><td>17</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Jason G. & Michelle R. Stout</td><td>7.5</td></tr><tr><td>18</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Jason G. & Michelle R. Stout</td><td>11</td></tr><tr><td>19</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Jason G. & Michelle R. Stout</td><td>1.81</td></tr><tr><td>20</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Dennis Markel & John Pheasant</td><td>84</td></tr><tr><td>21</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Dennis Markel & John Pheasant</td><td>62.8</td></tr><tr><td>22</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Michael F. & Kent Berth</td><td>2.02</td></tr><tr><td>23</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Michael F. & Kent Berth</td><td>9.11</td></tr><tr><td>24</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>EBK-EM LLC</td><td>192.25</td></tr><tr><td>25</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Jason G. & Michelle R. Stout</td><td>52</td></tr><tr><td>26</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Albert C. Woodberry</td><td>80.6</td></tr><tr><td>27</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Dennis Markel & John Pheasant</td><td>128.635</td></tr><tr><td>28</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>EBK-EM LLC</td><td>41</td></tr><tr><td>29</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Thomas C. Carpenter, et al.</td><td>150.65</td></tr><tr><td>30</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Larry Gail</td><td>160.04</td></tr><tr><td>31</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Wiley C. Bennett</td><td>74.12</td></tr><tr><td>32</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Lee R. & Sharon L. Taylor</td><td>36.09</td></tr><tr><td>33</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Michael F. & Kent Berth</td><td>9.26</td></tr><tr><td>34</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Dennis Markel & John Pheasant</td><td>12.27</td></tr><tr><td>35</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Michael F. & Kent Berth</td><td>7</td></tr><tr><td>36</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>EBK-EM LLC</td><td>31</td></tr><tr><td>37</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>EBK-EM LLC</td><td>10</td></tr><tr><td>38</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Robertson Square Circle Club, Inc.</td><td>102.89</td></tr><tr><td>39</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Lee R. & Sharon L. Taylor</td><td>86.49</td></tr><tr><td>40</td><td>18</td><td>16</td><td>Marion</td><td>Mannington</td><td>Lee R. & Sharon L. 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24	18	16	Marion	Mannington	EBK-EM LLC	192.25																																																																																																																																																																																																																																																																																																														
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32	18	16	Marion	Mannington	Lee R. & Sharon L. Taylor	36.09																																																																																																																																																																																																																																																																																																														
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34	18	16	Marion	Mannington	Dennis Markel & John Pheasant	12.27																																																																																																																																																																																																																																																																																																														
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37	18	16	Marion	Mannington	EBK-EM LLC	10																																																																																																																																																																																																																																																																																																														
38	18	16	Marion	Mannington	Robertson Square Circle Club, Inc.	102.89																																																																																																																																																																																																																																																																																																														
39	18	16	Marion	Mannington	Lee R. & Sharon L. Taylor	86.49																																																																																																																																																																																																																																																																																																														
40	18	16	Marion	Mannington	Lee R. & Sharon L. Taylor	17.35																																																																																																																																																																																																																																																																																																														
41	18	16	Marion	Mannington	Lynn E. Baum	40.39																																																																																																																																																																																																																																																																																																														
42	18	16	Marion	Mannington	Donald Marston	0.5																																																																																																																																																																																																																																																																																																														
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04/11/2025



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P.S. 2092



SEAL

FILE NO: 113-21

DRAWING NO: Radcliff 18H

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
1:2500

PROVEN SOURCE OF ELEVATION:
NGS CORS Station

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

DATE: May 03 20 24

OPERATOR'S WELL NO.: Radcliff 18H

API WELL NO

47 - 049 - 02515
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL

(IF GAS) PRODUCTION : ☐ STORAGE ☐ DEEP ☒ SHALLOW

LOCATION: ELEVATION: 1493' WATERSHED Bartholomew Fork QUADRANGLE: Glover Gap

DISTRICT: Mannington COUNTY: Marion

SURFACE OWNER: Jackie D. & Sheila L. Radcliff

ACREAGE: 48.08

ROYALTY OWNER: Rebecca R. Shuttlesworth, et al.

LEASE NO:	109790001	ACREAGE:	1090
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PROPOSED WORK: ☒ DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7916'

WELL OPERATOR: EQT Production Company

DESIGNATED AGENT: Joseph C. Mallow

ADDRESS: 400 Woodcliff Drive

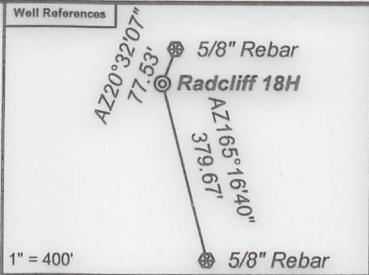
ADDRESS: 427 Midstate Drive

Canonsburg, PA 15317

Clarksborg, WV 26301

Radcliff 18H
Radcliff
EQT Production Company

Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	40	10.1	Marion	Mannington	Jackie D. & Sheila L. Radcliff	48.08
2	40	10	Marion	Mannington	Shelly L. Nelson	43.03
3	40	3	Marion	Mannington	Jason G. & Heather R. Stout	99.75
4	40	2	Marion	Mannington	Lula B. Knight	56.32
5	40	11	Marion	Mannington	Clarence W. Sweeney	63
6	40	12	Marion	Mannington	Jackie D. & Sheila L. Radcliff	27.35
7	40	13	Marion	Mannington	Shelly L. Nelson	19.75
79	38	19	Marion	Mannington	Dorothy D. Hendershot	38.246
83	38	20	Marion	Mannington	Dennis G. & Louise M. Hayes	59.24
85	26	16	Marion	Mannington	Jason G. & Heather R. Stout	48.12
86	39	2	Marion	Mannington	Lula B. Knight	43.39
88	38	21.1	Marion	Mannington	Ronald & Jean Hayes	21.55
94	40	9	Marion	Mannington	Karl A. Gouzd	35.32
95	40	4	Marion	Mannington	EBX-EM LLC	20.8
96	NA	NA	Marion	Mannington	Tax Info Not Available	NA
97	26	15	Marion	Mannington	Jason G. & Michelle R. Stout	91.9
98	39	15	Marion	Mannington	Jason G. & Michelle R. Stout	7.5
99	26	17	Marion	Mannington	Jason G. & Michelle R. Stout	57
100	39	16	Marion	Mannington	Jason G. & Michelle R. Stout	7.351
101	39	7	Marion	Mannington	Dennis Markel & John Pheasant	84
102	39	9	Marion	Mannington	Dennis Markel & John Pheasant	62.5
103	39	11.2	Marion	Mannington	Michael F. & Kerri Berthy	7.01
109	39	11.3	Marion	Mannington	Kerri F. & Michael F. Berthy	9.11
120	26	12	Marion	Mannington	EBX-EM LLC	152.25
121	26	17	Marion	Mannington	Jason G. & Michelle R. Stout	57
122	39	1	Marion	Mannington	Albert C. Woods Helrs	90.6
123	39	8	Marion	Mannington	Dennis Markel & John Pheasant	128.635
128	26	18	Marion	Mannington	EBX-EM LLC	41
129	26	3	Marion	Mannington	Thomas C. Carpenter, et al.	150.95
130	26	2.1	Marion	Mannington	Larry Goll	160.04
131	28	19	Marion	Mannington	Rickey C. Bennett	94.12
132	39	14	Marion	Mannington	Lee R. & Sherri L. Taylor	36.09
133	39	13.1	Marion	Mannington	Michael F. & Kerri Berthy	9.26
134	39	10	Marion	Mannington	Dennis Markel & John Pheasant	12.17
135	39	11	Marion	Mannington	Michael F. & Kerri Berthy	7
136	26	11	Marion	Mannington	EBX-EM LLC	92
137	26	5	Marion	Mannington	EBX-EM LLC	60
138	28	20	Marion	Mannington	Sportsmans Square Circle Club Inc.	102.85
139	39	13	Marion	Mannington	Lee R. & Sherri L. Taylor	86.49
140	36	1	Marion	Mannington	Lee R. & Sherri L. Taylor	67.35
141	39	12	Marion	Mannington	Lynn E. Sturm	40.19
144	38	20.1	Marion	Mannington	Donald Malone	0.5



As Drilled Well Information:
Radcliff 18H coordinates are
NAD 83 N: 397,653.47 E: 1,704,133.22
NAD 83 UTM N: 4,382,179.40 E: 548,252.78
Radcliff 18H Landing Point coordinates are
NAD 83 N: 397,965.82 E: 1,707,763.15
NAD 83 UTM N: 4,382,293.02 E: 549,357.09
Radcliff 18H Bottom Hole coordinates are
NAD 83 N: 390,380.04 E: 1,711,660.12
NAD 83 UTM N: 4,380,001.73 E: 550,582.94
West Virginia Coordinate system of 1983 (North Zone)
based upon Differential GPS Measurements.
Plat orientation, corner and well ties are based upon
the grid north meridian.
Well location references are based upon the grid north
meridian.
UTM coordinates are NAD83, Zone 17, Meters.

Radcliff

Radcliff 18H

Radcliff 16H

Radcliff 14H

Radcliff 12H

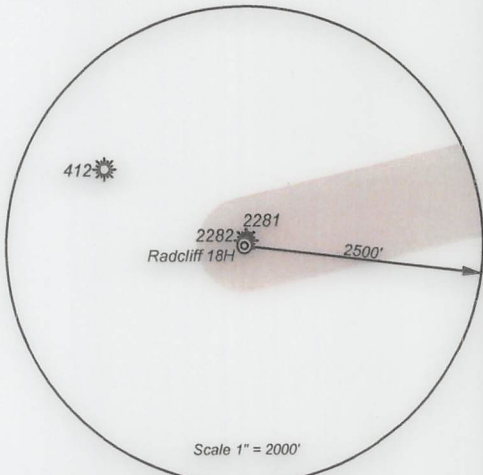
Radcliff 10H

Radcliff 8H

Radcliff 6H

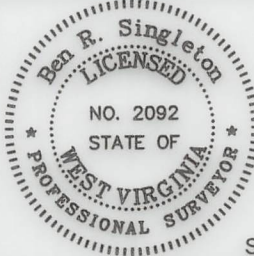
Radcliff 4H

Lease No.	Owner	Acres
109790001	Rebecca R. Shuttlesworth, et al.	1090
174985003	Country Roads Minerals, LLC, et al.	59
127156000	EQT Production Company, et al.	32 of 152.25
127156000	EQT Production Company, et al.	40.75
127156000	EQT Production Company, et al.	97.25
234650002	Paul Edward Dennison, et al.	128.635
228726001	Bounty Minerals, LLC	62.5
228882000	Bounty Minerals, LLC	36.09
127156000	EQT Production Company, et al.	95.75



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

Ben R. Singleton
P.S. 2092



SEAL

FILE NO: 113-21
DRAWING NO: Radcliff 18H
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: May 03 20 24
OPERATOR'S WELL NO.: Radcliff 18H
API WELL NO
47 - 049 - 02515
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL
(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW
LOCATION: ELEVATION: 1493' WATERSHED Bartholomew Fork QUADRANGLE: Glover Gap
DISTRICT: Mannington COUNTY: Marion
SURFACE OWNER: Jackie D. & Sheila L. Radcliff ACREAGE: 48.08
ROYALTY OWNER: Rebecca R. Shuttlesworth, et al. LEASE NO: 109790001 ACREAGE: 1090
PROPOSED WORK: ☒ DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7916'

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

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Perforation Data

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Stage No.	Perforation Date	Stage Perforated From TMD Ft.	Stage Perforated To TMD Ft.	# of Perforations/Stage	Formation(s)
2	10/14/2024	17823	17642	40	Marcellus
3	10/14/2024	17624	17443	40	Marcellus
4	10/14/2024	17424	17243	40	Marcellus
5	10/15/2024	17225	17044	40	Marcellus
6	10/15/2024	17025	16844	40	Marcellus
7	10/15/2024	16826	16645	40	Marcellus
8	10/17/2024	16626	16445	40	Marcellus
9	10/18/2024	16427	16246	40	Marcellus
10	10/19/2024	16227	16046	40	Marcellus
11	10/19/2024	16028	15847	40	Marcellus
12	10/20/2024	15828	15647	40	Marcellus
13	10/20/2024	15629	15448	40	Marcellus
14	10/22/2024	15429	15248	40	Marcellus
15	10/22/2024	15230	15049	40	Marcellus
16	10/23/2024	15030	14849	40	Marcellus
17	10/24/2024	14831	14650	40	Marcellus
18	10/25/2024	14631	14450	40	Marcellus
19	10/25/2024	14432	14251	40	Marcellus
20	10/26/2024	14232	14051	40	Marcellus
21	10/26/2024	14033	13852	40	Marcellus
22	10/27/2024	13833	13652	40	Marcellus
23	10/27/2024	13634	13453	40	Marcellus
24	10/28/2024	13434	13253	40	Marcellus
25	10/28/2024	13235	13054	40	Marcellus
26	10/29/2024	13035	12854	40	Marcellus
27	10/29/2024	12836	12655	40	Marcellus
28	10/30/2024	12636	12455	40	Marcellus
29	10/30/2024	12437	12256	40	Marcellus
30	10/30/2024	12237	12056	40	Marcellus
31	10/31/2024	12038	11857	40	Marcellus
32	10/31/2024	11838	11657	40	Marcellus
33	11/01/2024	11639	11458	40	Marcellus
34	11/01/2024	11439	11258	40	Marcellus
35	11/01/2024	11240	11059	40	Marcellus
36	11/01/2024	11040	10859	40	Marcellus
37	11/02/2024	10841	10660	40	Marcellus
38	11/02/2024	10641	10460	40	Marcellus
39	11/03/2024	10442	10261	40	Marcellus
40	11/03/2024	10242	10061	40	Marcellus
41	11/03/2024	10043	9862	40	Marcellus
42	11/04/2024	9843	9662	40	Marcellus

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43	11/04/2024	9644	9463	40	Marcellus
44	11/05/2024	9444	9263	40	Marcellus

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Stimulation Data

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Stage #	Stimulation Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	10/14/2024	100	8547	8713	4712	176972	3957	
2	10/14/2024	99	8620	6909	5870	440420	10111	
3	10/14/2024	100	8394	6618	5906	440739	10045	
4	10/15/2024	100	8264	6345	5802	440797	9970	
5	10/15/2024	100	8040	6499	6004	440167	9973	
6	10/15/2024	100	7751	6377	5688	440351	9975	
7	10/16/2024	100	8485	5875	5520	440495	9930	
8	10/19/2024	100	8527	6879	5235	437451	10097	
9	10/19/2024	100	8265	5776	4936	439965	9957	
10	10/20/2024	100	8574	6668	5313	440033	9993	
11	10/20/2024	100	8449	6015	5200	440098	9945	
12	10/21/2024	100	8563	6235	5508	439799	9986	
13	10/22/2024	100	8434	6584	5323	440257	9916	
14	10/23/2024	100	8362	6393	5329	440327	9952	
15	10/23/2024	100	8557	6223	5264	440181	9899	
16	10/24/2024	100	8681	6252	5690	440660	9995	
17	10/25/2024	100	8600	6721	5539	440143	9882	
18	10/25/2024	100	8355	8248	5354	439928	9967	
19	10/26/2024	100	8511	6734	5511	441436	9902	
20	10/26/2024	100	8432	6175	5117	440607	9922	
21	10/27/2024	100	8461	6694	5788	440096	9863	
22	10/27/2024	100	8439	6584	5579	441695	9911	
23	10/28/2024	100	8337	7247	5501	439876	9877	
24	10/28/2024	100	8429	6669	5164	440105	9888	
25	10/29/2024	100	8398	6750	5473	440269	9855	
26	10/29/2024	101	8493	6683	5907	441021	9882	
27	10/30/2024	98	8272	6636	5432	440417	9888	
28	10/30/2024	100	8300	6374	5393	441134	9715	
29	10/31/2024	100	8203	6553	6040	440427	9885	
30	10/31/2024	100	8052	6384	6085	440254	9857	
31	10/31/2024	100	8152	5813	4527	440057	9877	
32	11/01/2024	100	8281	8438	4956	441001	9847	
33	11/01/2024	100	8367	6553	5702	440203	9778	
34	11/01/2024	100	8429	6295	5257	440635	9854	
35	11/02/2024	100	8281	6803	5255	440823	9820	
36	11/02/2024	100	8130	6592	5375	440280	9795	
37	11/02/2024	101	8373	6712	5473	441804	9644	
38	11/03/2024	98	8426	6660	5692	441072	9774	
39	11/03/2024	83	8709	7279	5488	440125	9888	
40	11/04/2024	100	8116	6855	5082	439987	9762	
41	11/04/2024	100	7649	6745	4953	440076	9747	

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42	11/04/2024	100	7912	7011	5368	440082	9692
43	11/05/2024	99	8477	6811	5506	440794	9694
44	11/05/2024	99	7900	3119	4869	431328	9797

04/11/2025

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/14/2024
Job End Date:	11/05/2024
State:	West Virginia
County:	Marion
API Number:	47-049-02515-00-00
Operator Name:	EQT Production
Well Name and Number:	Radcliff 18H
Latitude:	39.58798
Longitude:	-80.438077
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7993
Total Base Water Volume (gal)*:	18016488
Total Base Non Water Volume:	0



Water Source	Percent
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Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	EQT	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	88.58183	None
Sand (Proppant)	EQT	Proppant					
			Silica Substrate	14808-60-7	100.00000	11.25593	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.01710	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ACRYLAMIDE-CHLORIDE SALT OF TRIMETHYLAMMONIO-ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.01710	None
Clearal 268	ChemStream	Biocide					
			Water	7732-18-5	80.00000	0.00896	None

04/11/2025

StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Water	7732-18-5	15.00000	0.00240	None
Enviro-Syn HCR-7000- WL	Fluid USA, Inc.	Synthetic Acid					
			FLUID-Acid-00001	Proprietary	20.00000	0.00128	None
Clearal 268	ChemStream	Biocide					
			Glutaraldehyde	111-30-8	20.00000	0.00056	None
Enviro-Syn HCR-7000- WL	Fluid USA, Inc.	Synthetic Acid					
			FLUID-Amine-00001	Proprietary	10.00000	0.00032	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00027	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			AA/ATBS Co-polymer	9003-05-8	5.00000	0.00002	None
Clearal 268	ChemStream	Biocide					
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00001	None
Clearal 268	ChemStream	Biocide					
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00001	None
Clearal 268	ChemStream	Biocide					
			Ethanol	64-17-5	1.50000	0.00000	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			AA/Maleic Anhydride Co- polymer	9003-04-7	1.00000	0.00000	None

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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