

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

API 47-103-03362 County Wetzel District Center
Quad Big Run Pad Name Michael Kuhn Field/Pool Name N/A
Farm name Rachel Elizabeth Wyatt & Sheldon R. Norris Well Number BIG467 8H (L003950)
Operator (as registered with the OOG) EQT Production Company
Address 2400 Ansys Drive, Suite 200 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 4,385,161.37 Easting 540,251.44
Landing Point of Curve Northing 4,384,976.71 Easting 540,367.37
Bottom Hole Northing 4,380,606.23 Easting 543,092.13

Elevation (ft) 1508' 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 13.9 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 05/24/2021 Date drilling commenced 08/23/2021 Date drilling ceased 02/11/2022
Date completion activities began 12/17/2022 Date completion activities ceased 05/01/2023
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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

JUL 31 2023

Freshwater depth(s) ft 47, 333 Open mine(s) (Y/N) depths N WV Department of Environmental Protection
Salt water depth(s) ft 1999,2072,2267,2341 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1172,1276 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

APPROVED

04/12/2024

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10-24-23

API 47-103 - 03362

Farm name Rachel Elizabeth Wyatt & Sheldon R. Norris Well number

BIG467 8H (L003950)

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"	1327'	NEW	J-55 54.5#	1242'	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	2832'	NEW	A-500 40#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-1/2"	5-1/2"	25,371'	NEW	HP-P110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 1067' GL, which is greater than 500' TVD above the producing formation. No issues during cement job.

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 A	1105	16.0	1.13	1248	0	8
Coal							
Intermediate 1	CLASS A	988	15.6	1.18	1166	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	5510	15.2	1.04	5730	1067	8+
Tubing							

Drillers TD (ft) 25,381'

Loggers TD (ft) N/A

Deepest formation penetrated MARCELLUS

Plug back to (ft) N/A

Plug back procedure N/A

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Kick off depth (ft) 1287'

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Check all wireline logs run
 caliper 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 AND EVERY JOINT TO 2461'

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 _____

SM
10-24-23
04/12/2024

API 47- 103 - 03362 Farm name Rachel Elizabeth Wyatt & Sheldon R. Norris Well number BIG467 8H (L003950)

PERFORATION RECORD

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

PERFORATION DATA 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)

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STIMULATION DATA ATTACHED

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04/12/2024
Spencer
10/24/23

API 47- 103 - 03362 Farm name Rachel Elizabeth Wyatt & Sheldon R. Norris Well number BIG467 8H (L003950)

PRODUCING FORMATION(S)	DEPTH(S)	
	TVD	MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY
 8213 mcfpd 0 bpd 0 bpd 1,080 bpd Estimated Orifice Pilot

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	
	0		0		

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Please insert additional pages as applicable.

Drilling Contractor Patterson UTI (Rig 294)
Address 207 Carlton Dr City Eighty Four State PA Zip 15330

Logging Company Baker Hughes
Address 400 Technology Dr Suite 100 City Canonsburg State PA Zip 15317

Cementing Company Halliburton
Address 121 Champion Way Suite 110 City Canonsburg State PA Zip 15317

Cementing Company Universal Pressure Pumping, Inc.
Address 13549 S. Moisertown Road City Meadville State PA Zip 16335

Please insert additional pages as applicable.

Completed by Adam Hughey Telephone 724-579-5475
Signature _____ Title Director of Completions Date 2023-07-11

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

04/12/2024

API 47- 103 - 03362 Farm name Rachel Elizabeth Wyatt & Sheldon R. Norris Well number BIG467 8H (L003950)

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

Logging Company Scientific Drilling International
Address 124 Vista Drive City Charleroi State PA Zip 15022

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

Stimulation Contractor Evolution Well Services
Address 1780 Hughes Landing Blvd Suite 125 City The Woodlands State TX Zip 77380

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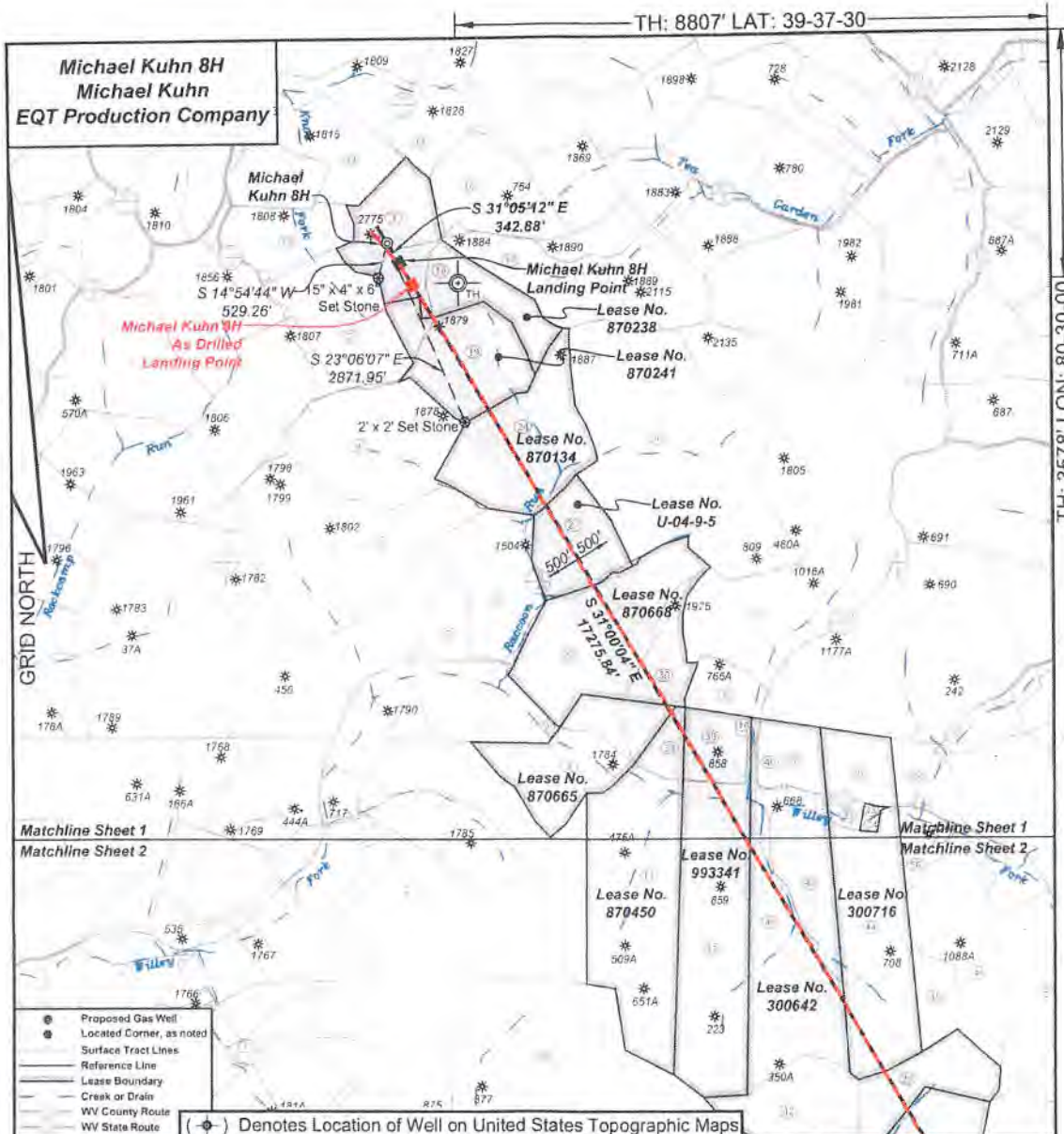
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Well # Michael Kuhn 8H (L003950) Final Formations API# 47-103-03362				
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	1,172	1,172
Sewickley Coal	1,172	1,172	1,178	1,178
Sand/Shale	1,178	1,178	1,276	1,276
Pittsburgh Coal	1,276	1,276	1,283	1,283
Sand/Shale	1,283	1,283	2,605	2,604
Big Injun	2,605	2,604	2,755	2,754
Sand/Shale	2,755	2,754	2,873	2,872
Berea	2,873	2,872	3,133	3,132
Sand/Shale	3,133	3,132	3,238	3,237
Gantz	3,238	3,237	3,306	3,304
Fifty foot	3,306	3,304	3,394	3,392
Thirty foot	3,394	3,392	3,591	3,589
Bayard	3,591	3,589	3,665	3,662
Sand/Shale	3,665	3,662	3,996	3,993
Upper Speechley	3,996	3,993	4,049	4,045
Speechley	4,049	4,045	4,132	4,128
Balltown	4,132	4,128	4,496	4,491
Bradford	4,496	4,491	5,611	5,603
Benson	5,611	5,603	6,019	6,010
Alexander	6,019	6,010	6,450	6,440
Elk	6,450	6,440	7,093	7,078
Sonyea	7,093	7,078	7,276	7,258
Middlesex	7,276	7,258	7,447	7,416
Genesee	7,447	7,416	7,540	7,490
Geneseo	7,540	7,490	7,567	7,509
Tully	7,567	7,509	7,590	7,525
Hamilton	7,590	7,525	7,695	7,591
Marcellus	7,695	7,591	25,381	7,895

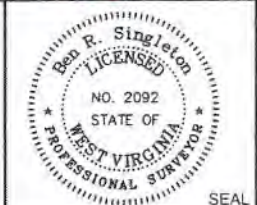
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I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Ben R. Stott
P.S. 2092



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FILE NO: 49-20
DRAWING NO: Michael Kuhn 8H
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

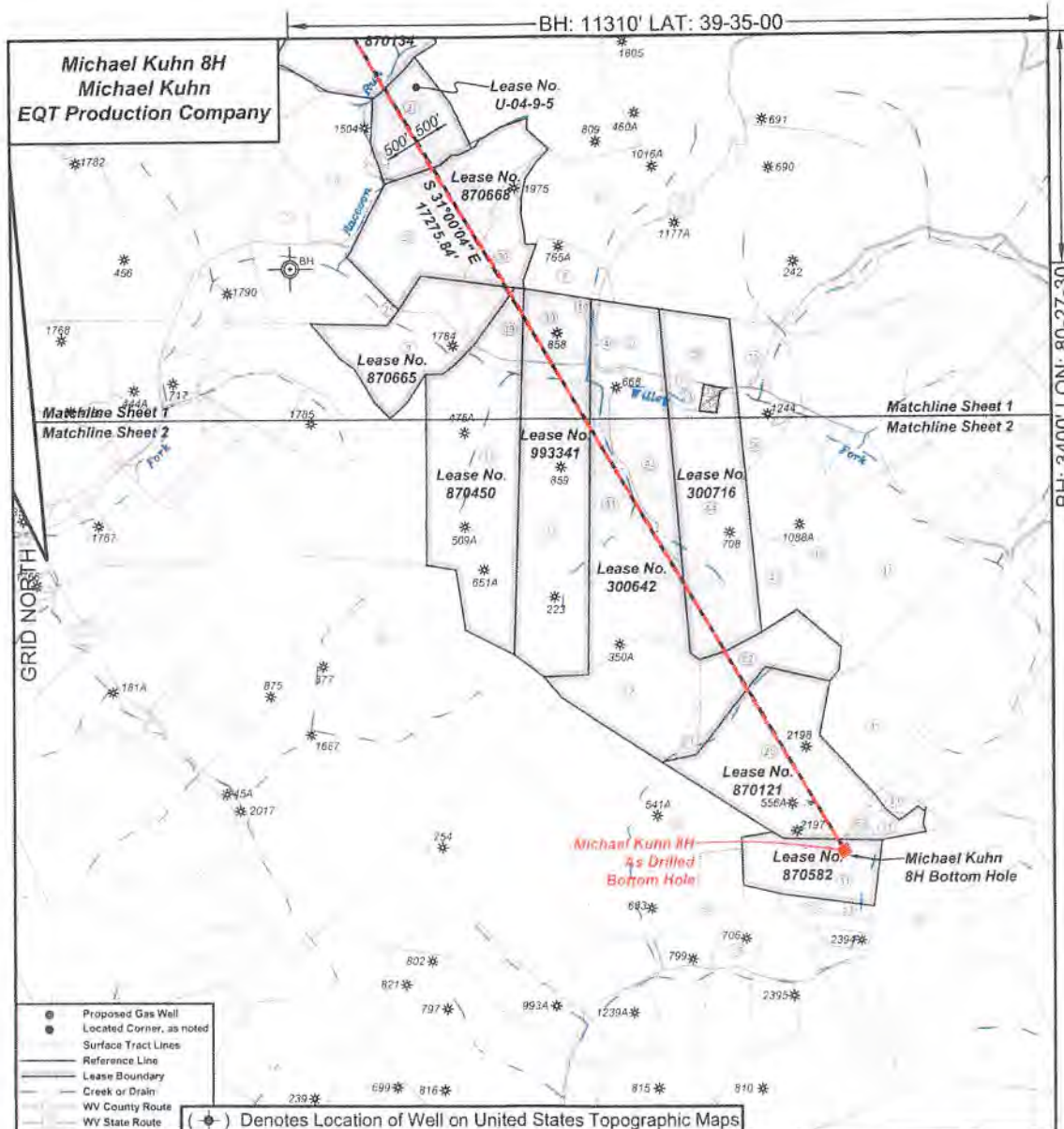
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: March 11 20 22
OPERATOR'S WELL NO.: Michael Kuhn 8H
API WELL NO
47 - 103 - 03362
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1509' WATERSHED: Knob Fork of West Virginia Fishing Creek QUADRANGLE: Big Run
DISTRICT: Center COUNTY: Wetzel
SURFACE OWNER: Rachel Elizabeth Wyatt & Sheldon R. Norris ACREAGE: 36.40
ROYALTY OWNER: Michael G. Kuhn LEASE NO: 870238 ACREAGE: 202
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: 775'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280
Canonsburg, PA 15317 Bridgeport, WV 26330

04/12/2024



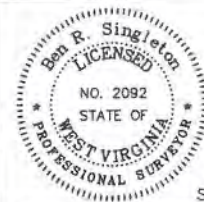
- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- WV County Route
- WV State Route

(●) Denotes Location of Well on United States Topographic Maps



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Ben R. Singleton
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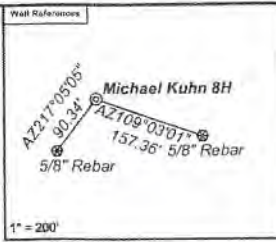
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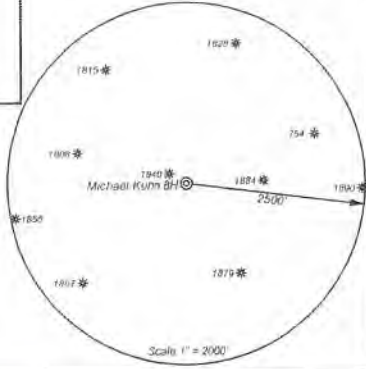
**Michael Kuhn 8H
Michael Kuhn
EQT Production Company**

Tract ID	Use Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	10	22	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	36.40
2	8	35	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	54.90
3	8	1	Wetzel	Center	Raccoon Run Properties LLC	370.11
4	8	10	Wetzel	Center	William D. & Pamela S. Francis	78.78
5	8	3	Wetzel	Center	William D. & Pamela S. Francis	59.06
6	12	9	Wetzel	Center	Gregory A. Bludwig	12.90
7	9	21	Wetzel	Center	Gregory & Michael Daumey	59.00
8	9	4	Wetzel	Center	Gregory & Michael Daumey	59.00
9	9	27	Wetzel	Center	Burt Barr	47.17
10	12	19	Wetzel	Center	Robert Orpin	2.41
11	8	38	Wetzel	Center	Coalfield Forest Resources Company	118.90
12	10	28	Wetzel	Center	Coalfield Forest Resources Company	407.00
13	20	21	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	42.90
14	20	27	Wetzel	Center	Robert E. & Linda C. Rex	58.75
15	20	18	Wetzel	Center	Robert E. & Linda C. Rex	59.12
16	15	8	Wetzel	Center	William B. Francis, Jr.	58.44
17	17	1	Wetzel	Center	Buck Barter Hunt Club of WV Inc.	100.50
18	20	38	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	43.01
19	20	37	Wetzel	Center	William D. & Pamela S. Francis	57.53
20	10	21	Wetzel	Center	John Gump, Jr. & Mary Jo Gump	29.00
21	15	4	Wetzel	Center	Donald J. D'Lukey, et al	2.78
22	15	1	Wetzel	Center	Timothy E. Tisa	45.20
23	15	30.1	Wetzel	Center	Bruce Hennehan	5.90
24	4	11	Wetzel	Center	Liberty Holding Company	89.85
25	15	7	Wetzel	Center	Timothy E. Tisa	115.50
26	15	12	Wetzel	Center	Donald J. D'Lukey, et al	447.50
27	8	5	Wetzel	Center	John E. Sewell	35.50
28	8	12	Wetzel	Center	Burt Barr	80.25
29	8	21.2	Wetzel	Center	David W. & Barbara J. Anderson	1.00
30	8	24	Wetzel	Center	Calvin N. Bell, et al	52.62
31	15	13	Wetzel	Center	Donald W. & Danna White	42.60
32	15	21	Wetzel	Center	William Jack & Beverly J. Gair	4.70
33	10	46	Wetzel	Center	Isabella S. Coma, J. Hoaman	1.28
34	10	28	Wetzel	Center	Tammy D. Chambers	1.05
35	10	31	Wetzel	Center	John Gump, Jr. & Mary Jo Gump	12.83
36	4	13	Wetzel	Center	Robert L. McCann, Jr. & Andrea S. McCann	180.78
37	10	30	Wetzel	Center	Bry J. & Patricia S. Higgins-Imboden Trust	21.66
38	19	5	Wetzel	Center	Coalfield Forest Resources Company	352.90
39	15	14	Wetzel	Center	Almond J. & Pamela L. Barber	35.00
40	10	20.1	Wetzel	Center	Robert Rex	2.21
41	10	20	Wetzel	Center	Billy J. & Frances J. Higgins-Imboden Trust	99.51
42	15	3	Wetzel	Center	Donald J. D'Lukey, et al	43.30
43	10	29.2	Wetzel	Center	Randy R. Rex	40.40
44	10	30	Wetzel	Center	Tammy D. Chambers	92.17
45	10	30	Wetzel	Center	Tammy D. Chambers	14.38
46	10	32	Wetzel	Center	Richard E. & Jay A. Griffith	40.00
47	10	40	Wetzel	Center	Richard E. Gump & David P. Gump	84.50
48	15	7	Wetzel	Center	Coalfield Forest Resources Company	46.00
49	15	14	Wetzel	Center	Bob Hagen	2.71
50	15	7.2	Wetzel	Center	Michael W. O'Donnell	6.50
51	19	7.1	Wetzel	Center	Donald W. & Danna White	7.80
52	10	35	Wetzel	Center	William Jack & Beverly J. Gair	76.22
53	10	27	Wetzel	Center	Donald W. & Danna White	3.52
54	15	26	Wetzel	Center	Terry & Carolyn Phillips	40.00
55	15	18.1	Wetzel	Center	Donald J. & Jane A. D'Lukey	29.80
56	10	31.2	Wetzel	Center	Jeffery W. Adams	13.81



As Drilled Well Information:
 Michael Kuhn 8H coordinates are
 NAD 27 N: 407,839.33 E: 1,709,479.01
 NAD 83 UTM N: 4,385,161.37 E: 540,251.44
 Michael Kuhn 8H Kick Out Point coordinates are
 NAD 27 N: 407,841.16 E: 1,709,477.34
 NAD 83 UTM N: 4,385,161.92 E: 540,250.92
 Michael Kuhn 8H Landing Point coordinates are
 NAD 27 N: 407,227.01 E: 1,709,349.54
 NAD 83 UTM N: 4,384,976.71 E: 540,367.37
 Michael Kuhn 8H Bottom Hole coordinates are
 NAD 27 N: 392,736.27 E: 1,718,551.42
 NAD 83 UTM N: 4,380,806.23 E: 543,092.13
 West Virginia Coordinate system of 1927 (North Zone)
 based upon Differential GPS Measurements
 Plat orientation: corner and well ties are based upon
 the grid north meridian.
 Well location references are based upon the grid north
 meridian.
 UTM coordinates are NAD83, Zone 17, Meters.

Lease No.	Owner	Acres
870238	Michael G. Kuhn, et al	202
870241	Shben Estates, Inc	67.5
870134	Liberty Holding Company, Inc.	89
U-04-9-5	Stone Hill Minerals Holdings, LLC	36.5
870868	Valena D. Preat, et al	103
870665	Kevin Gump, et al	60.75
870450	Donald F. Kennedy, a/k/a Donald Franklin Kennedy, et al	139
993341	Three Rivers Royalty II, LLC, et al	137
300642	Waco Oil & Gas Co., Inc. et al	256
300716	Bourty Minerals LLC, et al	122
300642	Oxy USA, Inc., et al	256
870121	Beverly Kay Campbell, et al	117
870582	JP Morgan Chase, N.A., a national banking association, as Trustee under a Trust agreement dated November 15, 1988 by and between Union National Bank of West Virginia, a national banking association, a predecessor in interest to JP Morgan Chase, N.A., and William Y. Morris and Virginia Morris, his wife, Robert H. Morris and Lois T. Morris, his wife, John R. Morris and Jean D. Morris, his wife, William C. Watson, single and Nancy C. Sanders, single	40



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 ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280
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04/12/2024

Perforation Data

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Environmental Protection

04/12/2024



Stage No.	Perforation Date	Stage Perforated From TMD Ft.	Stage Perforated To TMD Ft.	# of Perforations/Stage	Formation(s)
2	02/10/2023	25269	25110	36	Marcellus
3	02/10/2023	25091	24931	36	Marcellus
4	02/11/2023	24913	24753	36	Marcellus
5	02/11/2023	24735	24575	36	Marcellus
6	02/11/2023	24557	24396	36	Marcellus
7	02/12/2023	24378	24219	36	Marcellus
8	02/12/2023	24200	24041	36	Marcellus
9	02/13/2023	24022	23863	36	Marcellus
10	02/13/2023	23844	23684	36	Marcellus
11	02/13/2023	23666	23506	36	Marcellus
12	02/14/2023	23487	23328	36	Marcellus
13	02/14/2023	23309	23150	36	Marcellus
14	02/14/2023	23131	22972	36	Marcellus
15	02/14/2023	22953	22793	36	Marcellus
16	02/14/2023	22775	22615	36	Marcellus
17	02/15/2023	22596	22437	36	Marcellus
18	02/15/2023	22418	22259	36	Marcellus
19	02/16/2023	22240	22081	36	Marcellus
20	02/16/2023	22062	21902	36	Marcellus
21	02/16/2023	21884	21724	36	Marcellus
22	02/16/2023	21705	21546	36	Marcellus
23	02/17/2023	21527	21368	36	Marcellus
24	02/17/2023	21349	21190	36	Marcellus
25	02/17/2023	21171	21011	36	Marcellus
26	02/18/2023	20993	20813	40	Marcellus
27	02/18/2023	20795	20615	40	Marcellus
28	02/18/2023	20597	20417	40	Marcellus
29	02/18/2023	20399	20219	40	Marcellus
30	02/19/2023	20201	20021	40	Marcellus
31	02/20/2023	20003	19823	40	Marcellus
32	02/20/2023	19805	19625	40	Marcellus
33	02/21/2023	19607	19427	40	Marcellus
34	02/21/2023	19409	19229	40	Marcellus
35	02/21/2023	19211	19031	40	Marcellus
36	02/22/2023	19013	18833	40	Marcellus
37	02/23/2023	18815	18635	40	Marcellus
38	02/23/2023	18617	18437	40	Marcellus
39	02/23/2023	18419	18239	40	Marcellus
40	02/24/2023	18221	18041	40	Marcellus
41	02/24/2023	18023	17843	40	Marcellus
42	02/24/2023	17825	17645	40	Marcellus
43	02/25/2023	17627	17447	40	Marcellus

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44	02/25/2023	17429	17249	40	Marcellus
45	02/25/2023	17231	17051	40	Marcellus
46	02/26/2023	17033	16853	40	Marcellus
47	02/26/2023	16835	16655	40	Marcellus
48	02/27/2023	16637	16457	40	Marcellus
49	02/27/2023	16439	16259	40	Marcellus
50	02/27/2023	16241	16061	40	Marcellus
51	03/02/2023	16043	15863	40	Marcellus
52	03/03/2023	15845	15665	40	Marcellus
53	03/03/2023	15647	15467	40	Marcellus
54	03/04/2023	15449	15269	40	Marcellus
55	03/04/2023	15251	15071	40	Marcellus
56	03/05/2023	15053	14873	40	Marcellus
57	03/05/2023	14855	14675	40	Marcellus
58	03/05/2023	14657	14477	40	Marcellus
59	03/06/2023	14459	14279	40	Marcellus
60	03/06/2023	14261	14081	40	Marcellus
61	03/07/2023	14063	13883	40	Marcellus
62	03/16/2023	13865	13685	40	Marcellus
63	03/17/2023	13667	13487	40	Marcellus
64	03/18/2023	13469	13289	40	Marcellus
65	03/19/2023	13271	13091	40	Marcellus
66	03/19/2023	13073	12893	40	Marcellus
67	03/20/2023	12875	12695	40	Marcellus
68	03/21/2023	12677	12497	40	Marcellus
69	03/26/2023	12479	12299	40	Marcellus
70	03/27/2023	12281	12101	40	Marcellus
71	03/27/2023	12083	11903	40	Marcellus
72	03/28/2023	11885	11705	40	Marcellus
73	03/28/2023	11687	11507	40	Marcellus
74	03/29/2023	11489	11309	40	Marcellus
75	03/29/2023	11291	11111	40	Marcellus
76	03/30/2023	11093	10913	40	Marcellus
77	03/30/2023	10895	10715	40	Marcellus
78	03/31/2023	10697	10517	40	Marcellus
79	03/31/2023	10499	10319	40	Marcellus
80	03/31/2023	10301	10121	40	Marcellus
81	03/31/2023	10103	9923	40	Marcellus
82	04/01/2023	9905	9725	40	Marcellus
83	04/01/2023	9707	9527	40	Marcellus
84	04/01/2023	9509	9329	40	Marcellus
85	04/01/2023	9311	9131	40	Marcellus
86	04/01/2023	9113	8933	40	Marcellus
87	04/02/2023	8915	8735	40	Marcellus
88	04/02/2023	8717	8537	40	Marcellus

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89	04/02/2023	8519	8339	40	Marcellus
90	04/02/2023	8321	8141	40	Marcellus
91	04/02/2023	8123	7983	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	02/11/2023	80	9076	6616	5258	396115	9314	
2	02/10/2023	84	9399	6247	5641	396126	9518	
3	02/11/2023	80	9078	4759	5397	396115	9314	
4	02/11/2023	85	9376	6798	5929	396045	9305	
5	10/24/2022	86	9405	6225	5665	396097	9392	
6	02/12/2023	74	9040	4726	6356	396208	9318	
7	02/13/2023	80	9338	6337	5808	396220	9288	
8	02/14/2023	80	9331	6356	5374	396167	9299	
9	02/13/2023	84	9341	6433	5698	396280	9271	
10	02/13/2023	85	9360	6440	5927	396188	9304	
11	02/14/2023	84	9318	6461	4996	396144	9316	
12	02/14/2023	88	9302	6230	5687	396385	9226	
13	02/14/2023	89	9325	6333	5727	396271	9243	
14	02/14/2023	88	9347	6356	5752	396180	9202	
15	02/15/2023	86	9306	6144	5785	396180	9174	
16	02/15/2023	86	9276	6168	5755	396300	9207	
17	02/15/2023	86	9324	6322	5660	396148	9212	
18	02/16/2023	91	9277	6258	6175	396254	9190	
19	02/16/2023	86	9109	6280	6272	396215	9421	
20	02/16/2023	87	9139	6274	6061	396427	9246	
21	02/17/2023	97	9376	4931	5765	396213	9150	
22	02/17/2023	93	9374	6158	6238	396155	9183	
23	02/17/2023	91	9276	6117	5703	396248	9243	
24	02/17/2023	90	9166	5948	5790	396304	9177	
25	02/18/2023	96	9358	6126	5932	396220	9142	
26	02/18/2023	98	9343	5873	5141	440146	10105	
27	02/18/2023	97	9350	5820	5383	440383	10117	
28	02/18/2023	95	9331	5810	5640	440321	10082	
29	02/19/2023	98	9367	5993	5691	440168	10004	
30	02/20/2023	98	9402	5925	5842	440191	10102	
31	02/20/2023	97	9291	5961	6027	440273	9962	
32	02/21/2023	99	9338	6267	5841	440173	9875	
33	02/21/2023	98	9356	6107	6332	440185	9889	
34	02/21/2023	99	9181	6134	5563	440248	9907	
35	02/22/2023	99	9262	6108	5648	440236	9987	
36	02/23/2023	99	9315	5952	5711	440211	9923	
37	02/23/2023	95	9352	6211	5718	440447	10011	
38	02/23/2023	91	9345	5940	5851	440217	9989	
39	02/24/2023	95	9307	5964	5863	440067	9972	
40	02/24/2023	93	9305	6007	5644	440550	9903	
41	02/24/2023	95	9368	6027	5702	440059	10013	
42	02/25/2023	98	9235	6261	5516	440003	9938	

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43	02/25/2023	96	9362	5666	5573	440070	9895
44	02/25/2023	98	9342	6331	5627	440243	9953
45	02/26/2023	99	9267	6133	5337	440248	9930
46	02/26/2023	98	9367	6388	5393	440156	9877
47	02/27/2023	99	9350	6280	6009	440054	9966
48	02/27/2023	99	9349	6647	5411	440099	9866
49	02/28/2023	99	9190	6476	5393	440497	9850
50	03/02/2023	100	9395	5847	5513	440518	9825
51	03/03/2023	97	9419	6509	5409	440177	9806
52	03/03/2023	100	9313	6422	5400	440329	9725
53	03/04/2023	100	9299	6587	4583	440179	9831
54	03/04/2023	100	9341	6050	6150	440073	9811
55	03/05/2023	100	9277	5791	5553	440062	9821
56	03/05/2023	100	9195	5394	5086	440219	9767
57	03/05/2023	100	9326	6540	4899	440117	9711
58	03/06/2023	101	9259	6404	5019	440001	9725
59	03/06/2023	100	9360	6307	5137	440105	9696
60	03/07/2023	99	9340	5994	5427	440157	9761
61	03/16/2023	100	9111	5633	5645	440366	9775
62	03/17/2023	100	9001	6433	5050	441341	9743
63	03/18/2023	100	8946	6006	5189	440231	9667
64	03/19/2023	100	8871	6247	5320	440673	9719
65	03/19/2023	100	9132	6371	5086	440028	9720
66	03/20/2023	100	9013	6642	5068	440102	9770
67	03/21/2023	100	9139	6792	4572	440235	9744
68	03/26/2023	100	8962	6015	4799	440100	9721
69	03/27/2023	100	9054	6220	5397	440156	9727
70	03/27/2023	101	8903	6206	5199	440115	9663
71	03/28/2023	100	8987	6437	5313	440097	9703
72	03/28/2023	100	8739	6095	5499	440102	9756
73	03/29/2023	100	8887	6534	6307	440083	9655
74	03/29/2023	101	8853	6157	5166	440091	9616
75	03/30/2023	100	8910	6857	5202	440322	9705
76	03/30/2023	100	8238	6377	5697	440062	9641
77	03/31/2023	100	8702	6489	5287	440117	9604
78	03/31/2023	100	8347	6231	5107	440232	9618
79	03/31/2023	100	8802	6419	4962	440033	9598
80	04/01/2023	100	8624	6149	5194	440109	9610
81	04/01/2023	100	8503	5976	5055	440167	9569
82	04/01/2023	100	8471	6039	4556	440080	9573
83	04/01/2023	100	8514	5761	4650	440103	9571
84	04/01/2023	100	8013	5831	4848	440087	9480
85	04/01/2023	100	7776	5494	4852	440042	9568
86	04/02/2023	100	8200	5599	5362	440065	9536
87	04/02/2023	100	8114	5823	4778	440010	9547

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88	04/02/2023	100	8246	5788	4923	440095	9521
89	04/02/2023	100	7889	6011	4633	440104	9537
90	04/02/2023	100	8031	6224	5592	440049	9552
91	04/02/2023	100	8523	5952	4124	352197	7634

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/17/2022
Job End Date:	4/7/2023
State:	West Virginia
County:	Wetzel
API Number:	47-103-03362-00-00
Operator Name:	EQT Production
Well Name and Number:	Michael Kuhn 8H
Latitude:	39.61526060
Longitude:	-80.53107130
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,924
Total Base Water Volume (gal):	36,753,906
Total Base Non Water Volume:	0



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	88.57622	None
Sand (Proppant)	EQT	Proppant	Silica Substrate	14808-60-7	100.00000	11.22540	None
Clearal 268	ChemStream	Biocide	Non-hazardous substances	Proprietary	80.00000	0.00896	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	Copolymer of 2-propenamide	Proprietary	30.00000	0.00829	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor	Non-hazardous substances	Proprietary	90.00000	0.00759	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	Petroleum Distillate	64742-47-8	20.00000	0.00368	None
15% HCl	Evolution Well Services	Acid	Hydrogen Chloride	7647-01-0	15.00000	0.00186	None
Clearal 268	ChemStream	Biocide	Glutaraldehyde	111-30-8	20.00000	0.00056	None
Plexhib 166	Evolution	Acid Corrosion Inhibitor					

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			Methanol	67-56-1	90.00000	0.00020	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid)(BHMT)	34690-00-1	10.00000	0.00009	None
Ferriplex 66	Evolution	Iron Control					
			Acetic Acid	000064-19-7	50.00000	0.00005	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Oleic Acid Diethanolamide	93-83-4	2.00000	0.00004	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00004	None
Ferriplex 66	Evolution	Iron Control					
			Citric Acid	000077-92-9	30.00000	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
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00001	None
Clearal 268	ChemStream	Biocide					
			Ethanol	64-17-5	1.50000	0.00000	None
Plexhib 166	Evolution	Acid Corrosion Inhibitor					
			Alcohols, C14-C15, ethoxylated	68951-67-7	7.00000	0.00000	None
Plexhib 166	Evolution	Acid Corrosion Inhibitor					
			Propargyl alcohol	107-19-7	5.00000	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 fresh water, produced water, and/or 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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