

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

API 47-103-03412 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 4H (L020015)
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 4,385,165.58 Easting 540,238.12
Landing Point of Curve Northing 4,384,735.48 Easting 539,791.17
Bottom Hole Northing 4,379,419.28 Easting 543,116.63

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 13.95 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 11/16/2021 Date drilling commenced 08/23/2021 Date drilling ceased 02/28/2022
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

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

APPROVED

Reviewed by:

[Signature]
1/24/23

01/19/2024

API 47-103-03412

Farm name Rachel Elizabeth Wyatt & Sheldon R. Norris

Well number BIG467 4H (L020015)

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"	1332'	NEW	J-55 54.5#	1246'	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	2848'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-1/2"	5-1/2"	29,087'	NEW	HP-P110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 1018' 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	1165	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	6360	15.2	1.04	6614	1018'	8+
Tubing							

Drillers TD (ft) 29,104' 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) 1317'

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 1952' _____

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 _____

01/19/2024

Handwritten signature and date: 10/24/23

API 47- 103 - 03412 Farm name Rachel Elizabeth Wyatt & Sheldon R. Norris Well number BIG467 4H (L020015)

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 Suite125 City The Woodlands State TX Zip 77380

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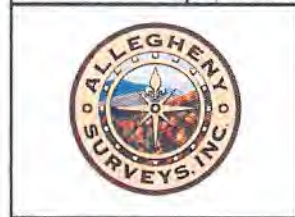
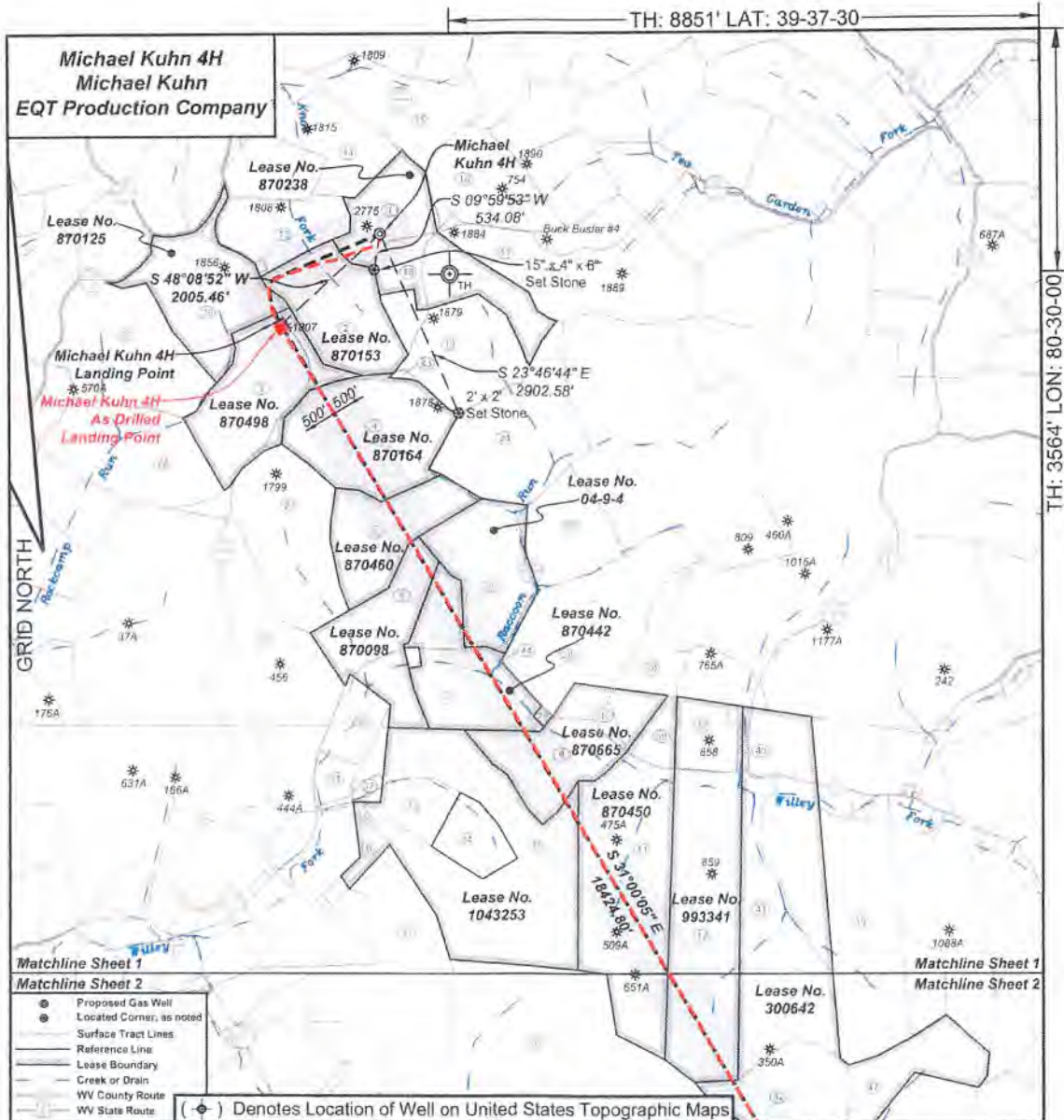
Well # Michael Kuhn 4H (L020015) Final Formations API# 47-103-03412				
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	1,172	1,172
Sewickley Coal	1,172	1,172	1,178	1,178
Sand/Shale	1,178	1,178	1,276	1,276
Pittsburgh Coal	1,276	1,276	1,283	1,283
Sand/Shale	1,283	1,283	2,605	2,596
Big Injun	2,605	2,596	2,755	2,742
Sand/Shale	2,755	2,742	2,873	2,857
Berea	2,873	2,857	3,133	3,110
Sand/Shale	3,133	3,110	3,238	3,211
Gantz	3,238	3,211	3,306	3,275
Fifty foot	3,306	3,275	3,394	3,357
Thirty foot	3,394	3,357	3,591	3,539
Bayard	3,591	3,539	3,665	3,607
Sand/Shale	3,665	3,607	3,996	3,912
Upper Speechley	3,996	3,912	4,049	3,961
Speechley	4,049	3,961	4,132	4,038
Balltown	4,132	4,038	4,496	4,374
Bradford	4,496	4,374	5,611	5,412
Berison	5,611	5,412	6,019	5,792
Alexander	6,019	5,792	6,450	6,191
Elk	6,450	6,191	7,411	7,085
Sonyea	7,411	7,085	7,608	7,267
Middlesex	7,608	7,267	7,805	7,437
Genesee	7,805	7,437	7,926	7,528
Geneseo	7,926	7,528	7,966	7,555
Tully	7,966	7,555	8,002	7,578
Hamilton	8,002	7,578	8,227	7,680
Marcellus	8,227	7,680	29,104	7,903

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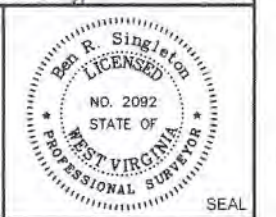
WV Department of
Environmental Protection

01/19/2024



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



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JUL 31 2023
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FILE NO: 49-20
DRAWING NO: Michael Kuhn 4H
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

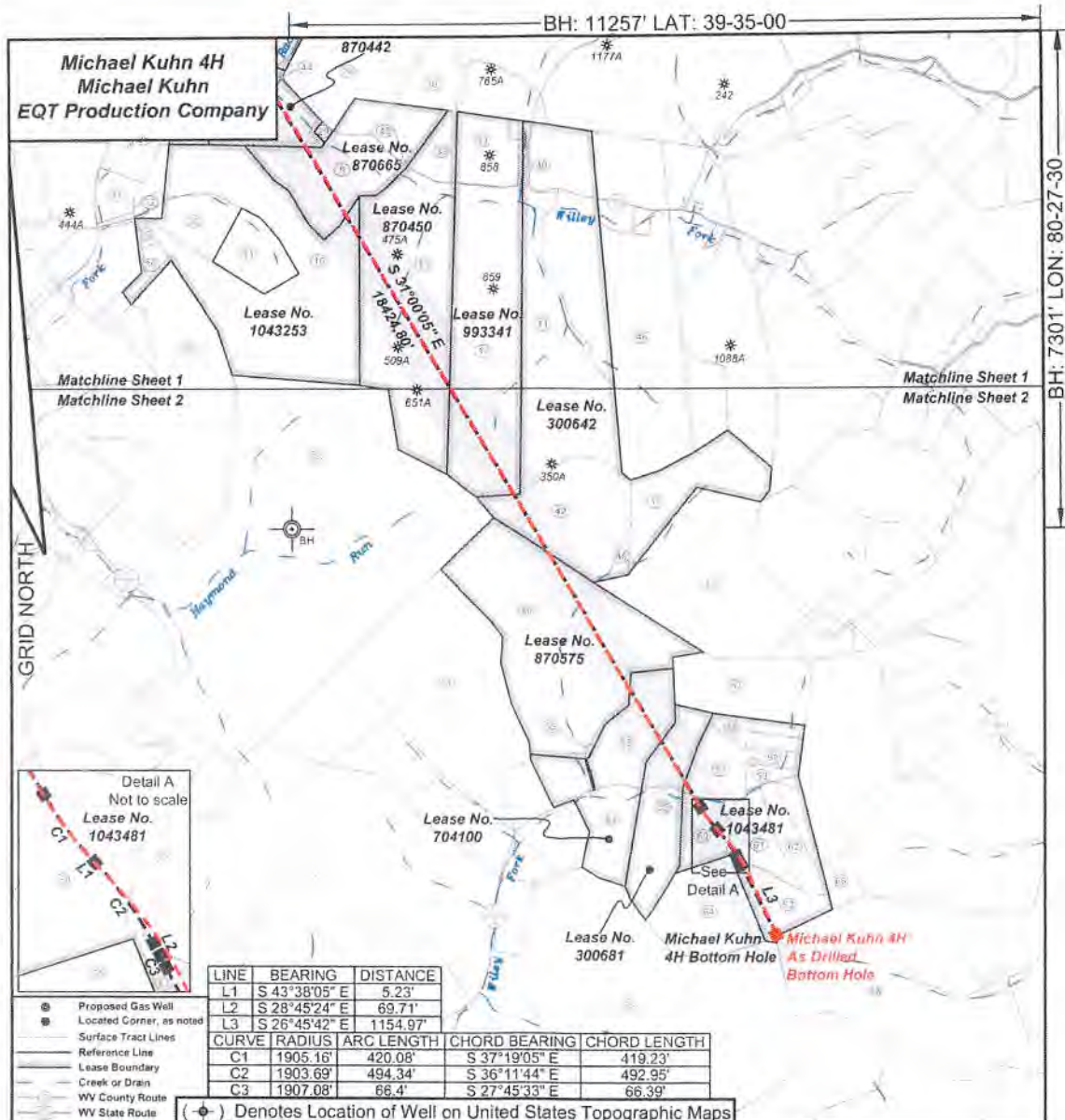
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: March 15 20 22
OPERATOR'S WELL NO.: Michael Kuhn 4H
API WELL NO
47 - 103 - 03412
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 Fork Fishing Creek QUADRANGLE: Big Run
DISTRICT: Center COUNTY: Wetzell
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: 7736'

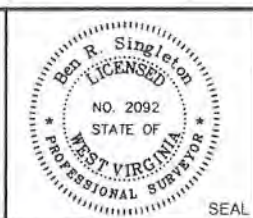
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280
Canonsburg, PA 15317 Bridgeport, WV 26330

01/19/2024



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.

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OIL AND GAS DIVISION

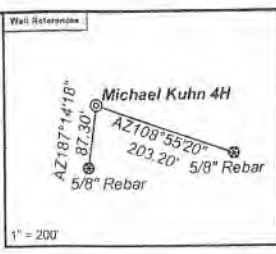
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STATE COUNTY PERMIT

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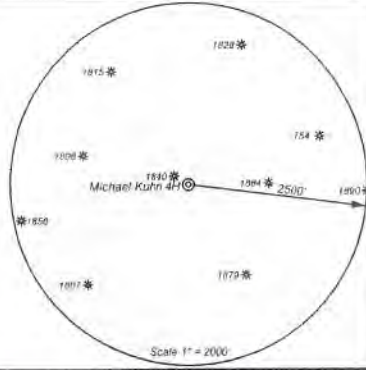
Tract ID	Tract Area	Section	County	Owner	Surface Tract Owner	Acres
1	20	32	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	26.00
2	20	32	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	26.00
3	20	32	Wetzel	Center	William B. Franck, Jr. & Pamela S. Franck	56.28
4	4	10	Wetzel	Center	William B. & Pamela S. Franck	26.00
5	9	3	Wetzel	Center	William B. & Pamela S. Franck	51.00
6	9	12	Wetzel	Center	William B. & Pamela S. Franck	51.00
7	9	21	Wetzel	Center	Gregory Michael Doherty	51.00
8	9	4	Wetzel	Center	Gregory Michael Doherty	51.00
9	9	77	Wetzel	Center	Burr Run	42.17
10	9	38	Wetzel	Center	Emily J. & Carolyn M. Fry	100.00
11	9	39	Wetzel	Center	General Trust of Westmoreland Company	129.00
12	9	28	Wetzel	Center	General Trust of Westmoreland Company	107.00
13	30	31	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	40.00
14	20	22	Wetzel	Center	Robert E. & Linda E. Hix	48.75
15	20	15	Wetzel	Center	Robert E. & Linda E. Hix	50.00
16	13	8	Wetzel	Center	William B. Franck, Jr.	48.44
17	17	1	Wetzel	Center	Burr Run	107.00
18	20	37	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	45.00
19	20	37	Wetzel	Center	William B. & Pamela S. Franck	57.50
20	20	33	Wetzel	Center	Mary L. Wood, et al	59.50
21	4	8	Wetzel	Center	Francis J. Munkong, et al	150.00
22	4	8	Wetzel	Center	Janece A. Yick	53.91
23	4	2	Wetzel	Center	Liberty Holding Company	78.00
24	4	11	Wetzel	Center	Liberty Holding Company	83.50
25	9	10	Wetzel	Center	William B. & Pamela S. Franck	275.57
26	9	40	Wetzel	Center	William B. & Pamela S. Franck	109.90
27	9	1	Wetzel	Center	John L. Bremer	20.50
28	9	17	Wetzel	Center	Burr Run	90.28
29	9	74.7	Wetzel	Center	Daniel W. & Barbara L. Anderson	1.00
30	9	24	Wetzel	Center	John R. Bae, et al	33.32
31	9	30	Wetzel	Center	Edward L. Taylor, et al	18.00
32	9	30.1	Wetzel	Center	James J. Caldwell, et al	8.60
33	9	30	Wetzel	Center	James J. & Carolyn M. Fry	15.00
34	9	37	Wetzel	Center	James J. & Carolyn M. Fry	25.50
35	9	38	Wetzel	Center	James J. & Carolyn M. Fry	3.25
36	9	39	Wetzel	Center	James J. & Carolyn M. Fry	8.55
37	9	51	Wetzel	Center	Sheldon R. Norris	114.00
38	14	9	Wetzel	Center	General Trust of Westmoreland Company	637.86
39	15	18	Wetzel	Center	Michael J. & Patricia L. Hudson	35.78
40	15	29.1	Wetzel	Center	Robert Bae	2.21
41	15	29	Wetzel	Center	Blay J. & Eusebio J. Huggins Investments, LLC	90.31
42	15	6	Wetzel	Center	Donald J. D'Onofrio, et al	43.25
43	20	37.1	Wetzel	Center	William Franck	5.75
44	20	37.1	Wetzel	Center	Michael Doherty	6.00
45	20	37.1	Wetzel	Center	Donald Fry	2.70
46	10	28	Wetzel	Center	Donald Fry	80.51
47	10	7	Wetzel	Center	Thomas F. Ties	83.20
48	10	8	Wetzel	Center	Donald J. D'Onofrio, et al	2.20
49	10	7	Wetzel	Center	Donald F. Ties	116.00
50	10	12	Wetzel	Center	Donald J. D'Onofrio, et al	147.00
51	14	30	Wetzel	Center	EQT Production Company	120.94
52	18	19	Wetzel	Center	Donald W. & Donna White	40.00
53	15	10.1	Wetzel	Center	Donald J. & Jane A. D'Onofrio	28.00
54	10	18	Wetzel	Center	Donald J. D'Onofrio	40.50
55	10	20	Wetzel	Center	Terry R. Carman-Phipps	82.00
56	15	24	Wetzel	Center	William Jack & Beverly L. Barr	8.70
57	15	24	Wetzel	Center	Donald J. D'Onofrio	19.00
58	15	24	Wetzel	Center	William Jack & Beverly L. Barr	8.70
59	15	24	Wetzel	Center	Fairly & Carolyn Phillips	12.40
60	15	21	Wetzel	Center	Donald W. & Donna White	10.50
61	15	10	Wetzel	Center	William Jack & Beverly L. Barr	10.20
62	15	10	Wetzel	Center	Donald J. D'Onofrio, et al	17.60
63	15	18	Wetzel	Center	Donald J. D'Onofrio, et al	47.50
64	25	1	Wetzel	Center	General Trust of Westmoreland Company	120.00
65	15	18	Wetzel	Center	EQT Production Company	7.90
66	10	11	Wetzel	Center	Robert E. & Linda E. Hix	111.00
67	10	10	Wetzel	Center	John F. Joseph	5.50



As Drilled Well Information:
 Michael Kuhn 4H coordinates are
 NAD 27 N: 407,853.86 E: 1,709,435.53
 NAD 83 UTM N: 4,385,165.58 E: 540,238.12
 Michael Kuhn 4H Kick Out coordinates are
 NAD 27 N: 407,850.05 E: 1,709,440.50
 NAD 83 UTM N: 4,385,164.44 E: 540,239.85
 Michael Kuhn 4H Landing Point coordinates are
 NAD 27 N: 406,467.07 E: 1,707,945.43
 NAD 83 UTM N: 4,384,735.48 E: 539,791.17
 Michael Kuhn 4H Bottom Hole coordinates are
 NAD 27 N: 388,840.07 E: 1,718,566.98
 NAD 83 UTM N: 4,379,419.28 E: 543,116.63
 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
870153	Three Rivers Royalty II, LLC	24.00
870125	Miriam Knowles, et al	69.00
870405	William B. Franck and Pamela S. Franck, Trustees of the William B. and Pamela S. Franck Joint Revocable Living Trust	62
870164	William B. Franck and Pamela S. Franck, Trustees of the William B. and Pamela S. Franck Joint Revocable Living Trust, et al	78.78
870460	Mary L. Wood, et al	50
870058	David L. Hoshalter, et al	93.00
870442	Ennis Joyce Dohm Anderson, et al	62.25
04-9-4	Bounty Minerals, LLC	122
870865	Kevin Gump, et al	60.75
1043253	BRC Minerals LP & BRC Appalachia Minerals I, LLC, et al	158.00
870450	Donald F. Kennedy, aka Donald Franklin Kennedy, et al	139
963341	Three Rivers Royalty II, LLC, et al	137
300642	Waco Oil & Gas Co., Inc., et al	258
870575	David E. Bowers, et al	147.5
788100	Felix Holdings, Inc., et al	70.00
100081	Wayne Thomas, et al	40.00
1043481	Stone Hill Minerals Holdings, LLC	70.28



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Ben A. Shultz

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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	03/06/2023	28991	28850	32	Marcellus
3	03/06/2023	28831	28690	32	Marcellus
4	03/07/2023	28671	28531	32	Marcellus
5	03/07/2023	28512	28371	32	Marcellus
6	03/07/2023	28352	28212	32	Marcellus
7	03/08/2023	28193	28052	32	Marcellus
8	03/08/2023	28033	27892	32	Marcellus
9	03/08/2023	27873	27733	32	Marcellus
10	03/08/2023	27714	27573	32	Marcellus
11	03/09/2023	27554	27414	32	Marcellus
12	03/10/2023	27395	27254	32	Marcellus
13	03/10/2023	27235	27094	32	Marcellus
14	03/10/2023	27075	26935	32	Marcellus
15	03/11/2023	26916	26775	32	Marcellus
16	03/11/2023	26756	26616	32	Marcellus
17	03/11/2023	26597	26456	32	Marcellus
18	03/11/2023	26437	26296	32	Marcellus
19	03/11/2023	26277	26137	32	Marcellus
20	03/11/2023	26118	25977	32	Marcellus
21	03/12/2023	25958	25818	32	Marcellus
22	03/12/2023	25799	25658	32	Marcellus
23	03/12/2023	25639	25478	36	Marcellus
24	03/12/2023	25460	25299	36	Marcellus
25	03/13/2023	25280	25119	36	Marcellus
26	03/13/2023	25100	24940	36	Marcellus
27	03/13/2023	24921	24760	36	Marcellus
28	03/13/2023	24741	24581	36	Marcellus
29	03/13/2023	24562	24401	36	Marcellus
30	03/14/2023	24382	24222	36	Marcellus
31	03/14/2023	24203	24042	36	Marcellus
32	03/14/2023	24023	23863	36	Marcellus
33	03/14/2023	23844	23683	36	Marcellus
34	03/14/2023	23664	23503	36	Marcellus
35	03/15/2023	23484	23324	36	Marcellus
36	03/15/2023	23305	23144	36	Marcellus
37	03/15/2023	23125	22965	36	Marcellus
38	03/15/2023	22946	22785	36	Marcellus
39	03/15/2023	22766	22606	36	Marcellus
40	03/16/2023	22587	22426	36	Marcellus
41	03/16/2023	22407	22247	36	Marcellus
42	03/16/2023	22228	22067	36	Marcellus
43	03/16/2023	22048	21887	36	Marcellus
44	03/16/2023	21869	21708	36	Marcellus

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45	03/16/2023	21689	21528	36	Marcellus
46	03/17/2023	21509	21349	36	Marcellus
47	03/17/2023	21330	21169	36	Marcellus
48	03/17/2023	21150	20990	36	Marcellus
49	03/17/2023	20971	20790	40	Marcellus
50	03/18/2023	20771	20591	40	Marcellus
51	03/18/2023	20572	20391	40	Marcellus
52	03/18/2023	20372	20192	40	Marcellus
53	03/19/2023	20173	19992	40	Marcellus
54	03/19/2023	19973	19793	40	Marcellus
55	03/19/2023	19774	19593	40	Marcellus
56	03/20/2023	19574	19394	40	Marcellus
57	03/20/2023	19375	19194	40	Marcellus
58	03/20/2023	19175	18995	40	Marcellus
59	03/21/2023	18976	18795	40	Marcellus
60	03/21/2023	18776	18596	40	Marcellus
61	03/21/2023	18577	18396	40	Marcellus
62	03/22/2023	18377	18197	40	Marcellus
63	03/22/2023	18178	17997	40	Marcellus
64	03/22/2023	17978	17798	40	Marcellus
65	03/22/2023	17779	17598	40	Marcellus
66	03/23/2023	17579	17399	40	Marcellus
67	03/23/2023	17380	17199	40	Marcellus
68	03/23/2023	17180	17000	40	Marcellus
69	03/24/2023	16981	16800	40	Marcellus
70	03/24/2023	16781	16601	40	Marcellus
71	03/24/2023	16582	16401	40	Marcellus
72	03/24/2023	16382	16202	40	Marcellus
73	03/25/2023	16183	16002	40	Marcellus
74	03/25/2023	15983	15803	40	Marcellus
75	03/25/2023	15784	15603	40	Marcellus
76	03/26/2023	15584	15404	40	Marcellus
77	03/26/2023	15385	15204	40	Marcellus
78	03/27/2023	15185	15005	40	Marcellus
79	03/27/2023	14986	14805	40	Marcellus
80	03/27/2023	14786	14606	40	Marcellus
81	03/27/2023	14587	14406	40	Marcellus
82	03/28/2023	14387	14207	40	Marcellus
83	03/28/2023	14188	14007	40	Marcellus
84	03/28/2023	13988	13808	40	Marcellus
85	03/28/2023	13789	13608	40	Marcellus
86	03/29/2023	13589	13409	40	Marcellus
87	03/29/2023	13390	13209	40	Marcellus
88	03/29/2023	13190	13010	40	Marcellus
89	03/29/2023	12991	12810	40	Marcellus
90	03/30/2023	12791	12611	40	Marcellus
91	03/30/2023	12592	12411	40	Marcellus

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92	03/30/2023	12392	12212	40	Marcellus
93	03/30/2023	12193	12012	40	Marcellus
94	03/31/2023	11993	11813	40	Marcellus
95	03/31/2023	11794	11613	40	Marcellus
96	03/31/2023	11594	11414	40	Marcellus
97	04/02/2023	11395	11214	40	Marcellus
98	04/03/2023	11195	11015	40	Marcellus
99	04/03/2023	10996	10815	40	Marcellus
100	04/03/2023	10796	10616	40	Marcellus
101	04/03/2023	10597	10416	40	Marcellus
102	04/03/2023	10397	10217	40	Marcellus
103	04/03/2023	10198	10017	40	Marcellus
104	04/04/2023	9998	9818	40	Marcellus
105	04/04/2023	9799	9618	40	Marcellus
106	04/04/2023	9599	9419	40	Marcellus
107	04/05/2023	9400	9219	40	Marcellus
108	04/05/2023	9200	9020	40	Marcellus
109	04/05/2023	9001	8820	40	Marcellus
110	04/05/2023	8801	8621	40	Marcellus
111	04/05/2023	8602	8421	40	Marcellus
112	04/06/2023	8402	8262	32	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	03/06/2023	62	9343	7582	5565	176036	4898.000	
2	03/07/2023	81	9395	6025	5792	352031	8715.000	
3	03/07/2023	80	9470	4836	6082	352080	8732.000	
4	03/07/2023	76	9453	6246	5960	352095	8594.000	
5	03/07/2023	75	9434	8259	6183	352076	8902.000	
6	03/08/2023	77	9386	6677	6472	352037	8614.000	
7	03/08/2023	75	9421	6432	6633	352025	8619.000	
8	03/08/2023	79	9431	6880	6621	352065	8750.000	
9	03/09/2023	76	9392	7193	6352	352071	8486.000	
10	03/09/2023	77	9453	6911	6080	352000	8551.000	
11	03/10/2023	77	9441	6862	5613	352122	8372.000	
12	03/10/2023	77	9423	6752	5797	352075	8484.000	
13	03/10/2023	72	9421	6783	5539	352084	8475.000	
14	03/11/2023	76	9422	6769	5591	352043	8366.000	
15	03/11/2023	75	9436	6121	5746	352083	8363.000	
16	03/11/2023	78	9458	6521	5407	352105	8402.000	
17	03/11/2023	75	9429	6600	5685	352118	8364.000	
18	03/11/2023	81	9455	6527	5400	352096	8354.000	
19	03/12/2023	82	9447	6832	5649	352113	8365.000	
20	03/12/2023	80	9448	6544	5818	352110	8396.000	
21	03/12/2023	78	9438	6730	6009	352034	8377.000	
22	03/12/2023	83	9394	6252	6296	352044	8318.000	
23	03/12/2023	87	9424	9072	5854	396159	9292.000	
24	03/13/2023	86	9412	6484	5811	396182	9318.000	
25	03/13/2023	82	9427	6618	6181	396062	9307.000	
26	03/13/2023	87	9412	5018	6557	396146	9289.000	
27	03/13/2023	82	9398	6978	6829	396100	9276.000	
28	03/13/2023	85	9435	6668	6199	396178	9264.000	
29	03/14/2023	85	9409	6472	5766	396058	9248.000	
30	03/14/2023	84	9412	6169	4977	396070	9248.000	
31	03/14/2023	85	9418	6529	6437	396202	9261.000	
32	03/14/2023	86	9433	6586	5887	396058	9220.000	
33	03/15/2023	89	9386	6392	5967	396110	9212.000	
34	03/15/2023	91	9371	6102	5380	396125	9259.000	
35	03/15/2023	90	9378	6413	5991	396060	9238.000	
36	03/15/2023	89	9413	6472	6019	396050	9247.000	
37	03/15/2023	87	9429	6799	6268	396082	9204.000	
38	03/15/2023	86	9370	6162	5222	396121	9315.000	
39	03/16/2023	88	9370	6579	5739	396097	9248.000	
40	03/16/2023	86	9372	6587	3019	396119	9241.000	
41	03/16/2023	90	9310	7765	6103	396102	9226.000	
42	03/16/2023	91	9266	6834	5095	396098	9269.000	
43	03/16/2023	91	9330	7759	5609	396112	9226.000	

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44	03/17/2023	94	9373	6356	5302	396133	9173.000
45	03/17/2023	94	9367	6018	5422	396351	9158.000
46	03/17/2023	97	9339	6802	5932	396144	9187.000
47	03/17/2023	94	9337	6879	5678	396019	9225.000
48	03/18/2023	93	9350	6683	5738	396184	9157.000
49	03/18/2023	96	9304	6260	5730	440521	10149.000
50	03/18/2023	97	9346	6694	5651	440115	10091.000
51	03/19/2023	97	9397	5833	5967	440410	10100.000
52	03/19/2023	98	9387	6520	5770	440142	10079.000
53	03/19/2023	98	9334	5992	5694	440051	10071.000
54	03/20/2023	98	9288	6207	5506	440199	9972.000
55	03/20/2023	99	9232	6251	5743	440260	10069.000
56	03/20/2023	99	9281	6055	5496	440104	10073.000
57	03/21/2023	99	9376	6221	5590	440073	10031.000
58	03/21/2023	99	9302	6712	5703	440272	9949.000
59	03/21/2023	99	9206	6344	5960	440297	10047.000
60	03/21/2023	100	9220	5562	5824	440205	9998.000
61	03/22/2023	99	9296	6359	5664	440169	10011.000
62	03/22/2023	100	9182	6368	5407	440144	9964.000
63	03/22/2023	100	9101	5966	5924	440142	9909.000
64	03/23/2023	100	9166	5921	5579	440278	9977.000
65	03/23/2023	100	9226	6187	5253	440097	9947.000
66	03/23/2023	100	9158	6184	5573	440084	9956.000
67	03/23/2023	100	9277	5956	5695	440042	9874.000
68	03/24/2023	100	9132	5626	5781	440144	9973.000
69	03/24/2023	100	9021	6064	5253	440798	9948.000
70	03/24/2023	101	9147	6003	4668	440676	9908.000
71	03/25/2023	100	9160	5737	5353	440091	9910.000
72	03/25/2023	100	9123	5887	4944	440099	9893.000
73	03/25/2023	100	9041	5825	5310	440632	9857.000
74	03/25/2023	100	9122	5913	5528	440754	9964.000
75	03/27/2023	101	8979	5967	5481	440151	10014.000
76	03/27/2023	100	9067	5917	5426	440038	9935.000
77	03/27/2023	101	9134	6790	5815	440047	9861.000
78	03/27/2023	100	9024	5437	5694	440389	9864.000
79	03/27/2023	101	8976	6952	5711	440178	9899.000
80	03/28/2023	100	9154	6305	5894	440059	9896.000
81	03/28/2023	100	9113	5892	5634	440043	9848.000
82	03/28/2023	100	8927	6895	5672	440102	9823.000
83	03/28/2023	100	8906	5707	5303	440089	9867.000
84	03/28/2023	101	8809	5788	5832	440024	9827.000
85	03/29/2023	100	9123	5560	5341	440009	9841.000
86	03/29/2023	100	8827	5413	4633	440059	9799.000
87	03/29/2023	100	8667	6141	5116	440085	9826.000
88	03/30/2023	100	8937	5298	6139	440056	9732.000
89	03/30/2023	100	9182	5515	5096	440127	9898.000
90	03/30/2023	100	8834	5996	5078	440140	9755.000

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91	03/30/2023	100	8753	5815	5423	440156	9681.702
92	03/31/2023	100	8972	4853	5265	440013	9774.000
93	03/31/2023	100	8797	5569	5334	440029	9742.000
94	03/31/2023	100	8461	5420	4653	440103	9732.000
95	03/31/2023	100	8235	8875	4614	440003	9726.000
96	04/02/2023	100	8765	5203	5004	440007	9740.000
97	04/03/2023	100	8939	6256	5595	440002	9639.000
98	04/03/2023	100	8855	5899	5944	440011	9716.000
99	04/03/2023	100	8540	5869	5287	440093	9655.000
100	04/03/2023	100	8305	5744	5495	440066	9686.000
101	04/03/2023	100	8295	6010	5017	440160	9676.000
102	04/03/2023	100	8561	5990	5297	440013	9661.000
103	04/04/2023	100	8559	5562	5439	440024	9640.000
104	04/04/2023	100	8441	5823	5220	440060	9640.000
105	04/04/2023	100	8303	5744	5172	440062	9643.000
106	04/04/2023	100	8332	6602	4625	440076	9638.000
107	04/05/2023	101	8515	5887	5348	440050	9544.000
108	04/05/2023	101	8434	6146	4701	440229	9613.000
109	04/05/2023	100	8483	5963	5107	440002	9638.000
110	04/06/2023	100	8478	5250	5006	440041	9620.000
111	04/06/2023	100	8390	5627	4617	440079	9616.000
112	04/06/2023	87	7802	7366	4307	352339	7707.000

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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:	47-103-03412-00-00
Operator Name:	EQT Production
Well Name and Number:	Michael Kuhn 4H
Latitude:	39.61529930
Longitude:	-80.53122630
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,931
Total Base Water Volume (gal):	44,181,383
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	88.71709	None
Sand (Proppant)	EQT	Proppant	Silica Substrate	14808-60-7	100.00000	11.05691	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	Copolymer of 2-propenamide	Proprietary	30.00000	0.00982	None
Clearal 268	ChemStream	Biocide	Non-hazardous substances	Proprietary	80.00000	0.00902	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor	Non-hazardous substances	Proprietary	90.00000	0.00763	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	Petroleum Distillate	64742-47-8	20.00000	0.00436	None
15% HCl	Evolution Well Services	Acid	Hydrogen Chloride	7647-01-0	15.00000	0.00209	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	0.00023	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					
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00001	None
Clearal 268	ChemStream	Biocide					
			Quaternary Ammonium Compounds	68424-85-1	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					
			Propargyl alcohol	107-19-7	5.00000	0.00000	None
Plexhib 166	Evolution	Acid Corrosion Inhibitor					
			Alcohols, C14-C15, ethoxylated	68951-67-7	7.00000	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%

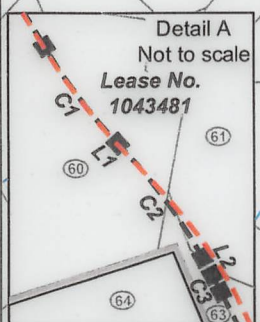
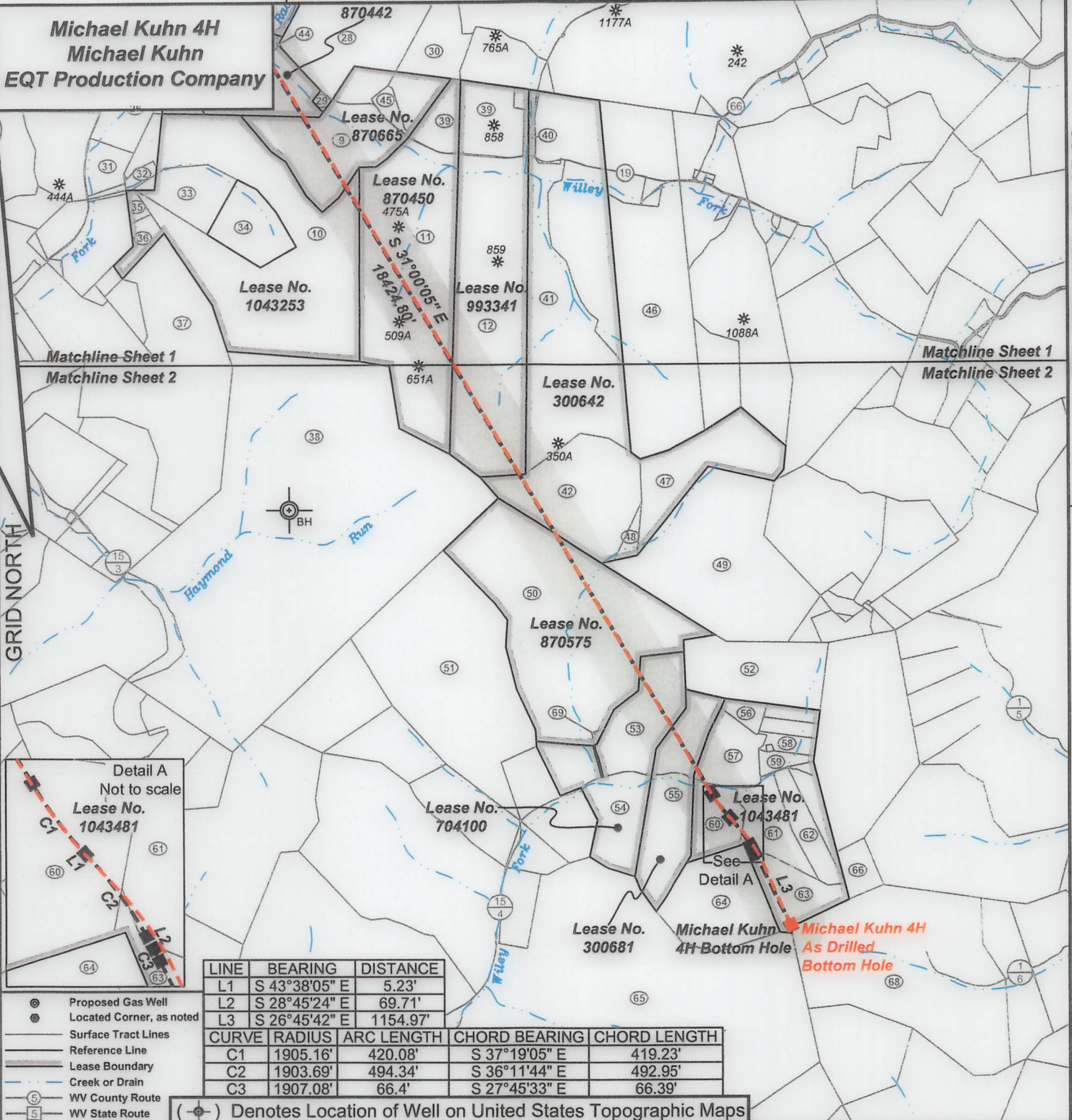
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
 Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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BH: 11257' LAT: 39-35-00

BH: 7301' LON: 80-27-30

Michael Kuhn 4H
Michael Kuhn
EQT Production Company



LINE	BEARING	DISTANCE
L1	S 43°38'05" E	5.23'
L2	S 28°45'24" E	69.71'
L3	S 26°45'42" E	1154.97'

CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	1905.16'	420.08'	S 37°19'05" E	419.23'
C2	1903.69'	494.34'	S 36°11'44" E	492.95'
C3	1907.08'	66.4'	S 27°45'33" E	66.39'

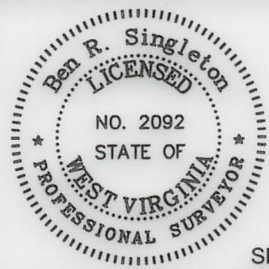
- ⊙ Proposed Gas Well
- ⊙ Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- Ⓜ WV County Route
- Ⓜ WV State Route

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



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: 49-20
 DRAWING NO: Michael Kuhn 4H
 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

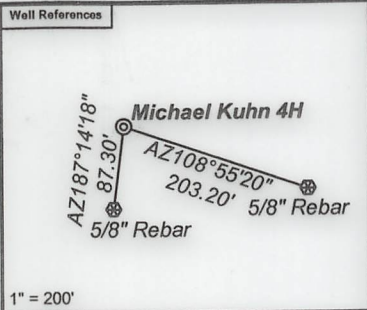
DATE: March 15 20 22
 OPERATOR'S WELL NO.: Michael Kuhn 4H
 API WELL NO
 47 - 103 - 03412
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 1509' WATERSHED: Knob Fork of West Virginia Fork Fishing Creek QUADRANGLE: Big Run
 DISTRICT: Center COUNTY: Wetzel **01/19/2024**
 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: 7736'

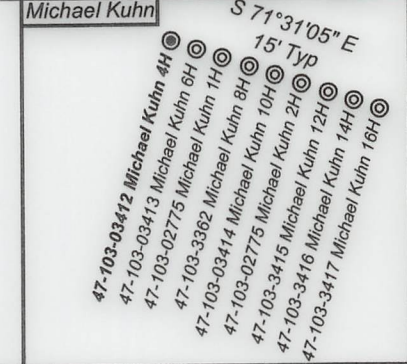
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
 ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280
 Canonsburg, PA 15317 Bridgeport, WV 26330

**Michael Kuhn 4H
Michael Kuhn
EQT Production Company**

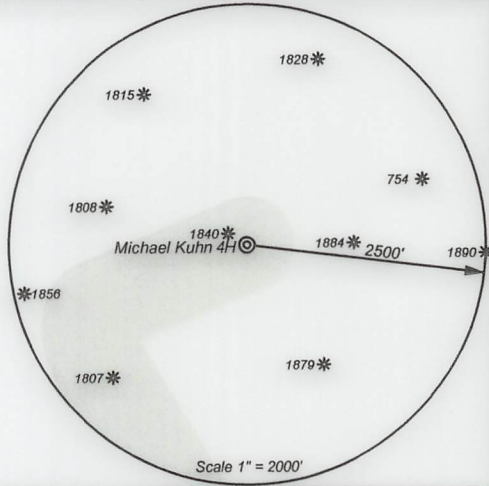
Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	20	32	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	36.40
2	20	35	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	54.00
3	20	38	Wetzel	Center	William B. Francik Sr. & Pamela Spinoso	66.58
4	4	10	Wetzel	Grant	William B. & Pamela S. Francik	76.78
5	9	3	Wetzel	Grant	William B. & Pamela S. Francik	50.00
6	9	11	Wetzel	Grant	Elizabeth Amundson, et al.	53.37
7	9	21	Wetzel	Grant	Gregory & Michael Dulaney	59.00
8	9	4	Wetzel	Grant	Gregory & Michael Dulaney	59.00
9	9	27	Wetzel	Grant	Burl Barr	47.17
10	9	38	Wetzel	Grant	Terry L. & Carolyn M. Fry	155.08
11	9	39	Wetzel	Grant	Coastal Forest Resources Company	128.00
12	10	28	Wetzel	Grant	Coastal Forest Resources Company	107.00
13	20	31	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	40.00
14	20	27	Wetzel	Center	Robert E. & Linda E. Rix	48.75
15	20	18	Wetzel	Center	Robert E. & Linda E. Rix	60.10
16	13	8	Wetzel	Church	William B. Francik Jr.	48.44
17	17	1	Wetzel	Church	Buck Buster Hunt Club of WV Inc.	100.00
18	20	36	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	45.00
19	20	37	Wetzel	Center	William B. & Pamela S. Francik	67.50
20	20	33	Wetzel	Center	Myrna L. Phelps Trust	68.00
21	4	5	Wetzel	Grant	Earnye J. Stoneking, et al.	100.00
22	4	8	Wetzel	Grant	James A. Yoho	63.00
23	9	2	Wetzel	Grant	Liberty Holding Company	74.50
24	4	11	Wetzel	Grant	Liberty Holding Company	89.05
25	9	10	Wetzel	Grant	William B. & Pamela S. Francik	233.37
26	9	62	Wetzel	Grant	William B. & Pamela S. Francik	30.50
27	9	5	Wetzel	Grant	John E. Seiwel	38.50
28	9	12	Wetzel	Grant	Burl Barr	80.26
29	9	21.2	Wetzel	Grant	David W. & Barbara L. Anderson	1.00
30	9	64	Wetzel	Grant	Calvin N. Barr, et al.	32.92
31	9	26	Wetzel	Grant	Elizabeth L. Taylor, et al.	10.06
32	9	32.1	Wetzel	Grant	Terry L. & Carolyn M. Fry	3.40
33	9	38	Wetzel	Grant	Terry L. & Carolyn M. Fry	15.00
34	9	37	Wetzel	Grant	Terry L. & Carolyn M. Fry	25.00
35	9	34	Wetzel	Grant	Terry L. & Carolyn M. Fry	3.25
36	9	35	Wetzel	Grant	Terry L. & Carolyn M. Fry	6.25
37	9	61	Wetzel	Grant	Jimbo's Quiet Mountain Retreat	114.10
38	14	6	Wetzel	Grant	Coastal Forest Resources Company	332.90
39	10	18	Wetzel	Grant	Michael J. & Patricia L. Barber	35.00
40	10	29.1	Wetzel	Grant	Robert Rice	2.21
41	10	29	Wetzel	Grant	Billy J. & Frances J. Huggins Irrevocable Trust	99.31
42	15	5	Wetzel	Grant	Donald J. D'Lusky, et al.	43.20
43	20	37.1	Wetzel	Center	William Francik	0.71
44	9	12.1	Wetzel	Grant	Michael Dulaney	0.009
45	9	27.1	Wetzel	Grant	David Barr	3.70
46	10	38	Wetzel	Grant	Tammy D. Chambers	89.67
47	15	1	Wetzel	Grant	Timothy E. Titus	43.20
48	15	6	Wetzel	Grant	Donald J. D'Lusky, et al.	2.75
49	15	7	Wetzel	Grant	Timothy E. Titus	115.00
50	15	12	Wetzel	Grant	Donald J. D'Lusky, et al.	147.50
51	14	20	Wetzel	Grant	EQT Production Company	126.50
52	15	13	Wetzel	Grant	Donald W. & Dianna White	40.00
53	15	18.1	Wetzel	Grant	Donald J. & Jane A. D'Lusky	29.80
54	15	18	Wetzel	Grant	Donald J. D'Lusky	39.50
55	15	29	Wetzel	Grant	Terry & Carolyn Phillips	40.00
56	15	21	Wetzel	Grant	William Jack & Beverly L. Barr	4.70
57	15	20	Wetzel	Grant	Donald J. D'Lusky	18.68
58	15	24	Wetzel	Grant	William Jack & Beverly L. Barr	4.75
59	15	25	Wetzel	Grant	William Jack & Beverly L. Barr	4.20
60	15	30	Wetzel	Grant	Terry & Carolyn Phillips	16.00
61	15	31	Wetzel	Grant	Donald W. & Dianna White	18.00
62	15	32	Wetzel	Grant	William Jack & Beverly L. Barr	10.75
63	15	35	Wetzel	Grant	Donald J. D'Lusky, et al.	17.60
64	15	34	Wetzel	Grant	Donald J. D'Lusky, et al.	42.00
65	20	1	Wetzel	Grant	Coastal Forest Resources Company	520.00
66	15	36	Wetzel	Grant	EQM Gathering OPCO LLC	7.96
68	43	11	Marion	Mannington	Robert E. & Maxine P. Tonkery	111.00
69	15	19	Marion	Grant	John F. Joseph	0.50



As Drilled Well Information:
 Michael Kuhn 4H coordinates are
 NAD 27 N: 407,853.86 E: 1,709,435.53
 NAD 83 UTM N: 4,385,165.58 E: 540,238.12
 Michael Kuhn 4H Kick Out coordinates are
 NAD 27 N: 407,850.05 E: 1,709,440.50
 NAD 83 UTM N: 4,385,164.44 E: 540,239.65
 Michael Kuhn 4H Landing Point coordinates are
 NAD 27 N: 406,467.07 E: 1,707,945.43
 NAD 83 UTM N: 4,384,735.48 E: 539,791.17
 Michael Kuhn 4H Bottom Hole coordinates are
 NAD 27 N: 388,840.07 E: 1,718,566.98
 NAD 83 UTM N: 4,379,419.28 E: 543,116.63
 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.

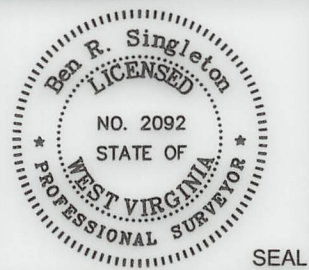


Lease No.	Owner	Acres
870153	Three Rivers Royalty II, LLC	54.00
870125	Miriam Knowles, et al.	68.00
870498	William B. Francik and Pamela S. Francik, Trustees of the William B. and Pamela S. Francik Joint Revocable Living Trust	67
870184	William B. Francik and Pamela S. Francik, Trustees of the William B. and Pamela S. Francik Joint Revocable Living Trust, et al.	76.78
870460	Mary L. Wood, et al.	50
870098	David L. Hostutler, et al.	93.875
870442	Emma Joyce Dahlin Anderson, et al.	62.25
04-9-4	Bounty Minerals, LLC	122
870665	Kevin Gump, et al.	60.75
1043253	BRC Minerals LP & BRC Appalachian Minerals I LLC, et al.	158.00
870450	Donald F. Kennedy, aka Donald Franklin Kennedy, et al.	139
993341	Three Rivers Royalty II, LLC, et al.	137
300642	Waco Oil & Gas Co., Inc., et al.	256
870575	David E. Bowyer, et al.	147.5
704100	Piney Holdings, Inc., et al.	70.00
300681	Wayne Thome, Jr., et al.	40.00
1043481	Stone Hill Minerals Holdings, LLC	70.28

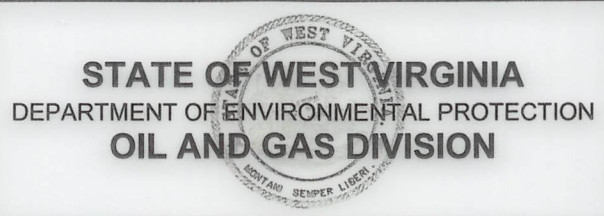


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Ben R. Singleton
 P.S. 2092



FILE NO: 49-20
 DRAWING NO: Michael Kuhn 4H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 1:2500
 PROVEN SOURCE OF ELEVATION:
 NGS CORS Station



DATE: March 15 20 22
 OPERATOR'S WELL NO.: Michael Kuhn 4H
 API WELL NO
 47 - 103 - 03412
 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 Fork 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: 7736'

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