

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

API 47-103-03416 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 14H (L003962)
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 4,385,155.73 Easting 540,269.31
Landing Point of Curve Northing 4,385,554.10 Easting 541,077.01
Bottom Hole Northing 4,381,785.32 Easting 543,435.24

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
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)

Synthetic Oil Based Mud 13.7 ppg barium sulfate, sodium chloride, xanthan gum, polyanionic cellulose, modified starch, sodium hydroxide, phosphonates and alkyl phosphates, glutaric acid 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 03/17/2022
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

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

Freshwater depth(s) ft 47, 333 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1999,2072,2267,2341 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1176,1278 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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JUL 31 2023

WV Department of
Environmental Protection

Reviewed by:

APPROVED

[Signature]
12/01/2023

API 47- 103 - 03416 Farm name Rachel Elizabeth Wyatt & Sheldon R. Norris Well number BIG467 14H (L003962)

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"	1326'	NEW	J-55 54.5#	1229'	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	2818'	NEW	A-500 40#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-1/2"	5-1/2"	23,680'	NEW	HP-P110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 1311' 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	1100	16.0	1.13	1243	0	8
Coal							
Intermediate 1	CLASS A	983	15.6	1.18	1160	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	5090	15.2	1.04	5294	1311'	8+
Tubing							

Drillers TD (ft) 23,698' Loggers TD (ft) N/A RECEIVED
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A Office of Oil and Gas
 Plug back procedure N/A JUL 31 2023

WV Department of Environmental Protection

Kick off depth (ft) 1403'

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 2007' _____

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 _____

12/01/2023

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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.

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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)
STIMULATION DATA ATTACHED								

Please insert additional pages as applicable.

12/01/2023
DM
11/25/23

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>
	_____ 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 17069 mcfpd Oil 0 bpd NGL 0 bpd Water 576 bpd GAS MEASURED BY Estimated Orifice Pilot

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

[Handwritten signatures]
12/01/2023
10/25/23

API 47- 103 - 03416 Farm name Rachel Elizabeth Wyatt & Sheldon R. Norris Well number BIG467 14H (L003962)

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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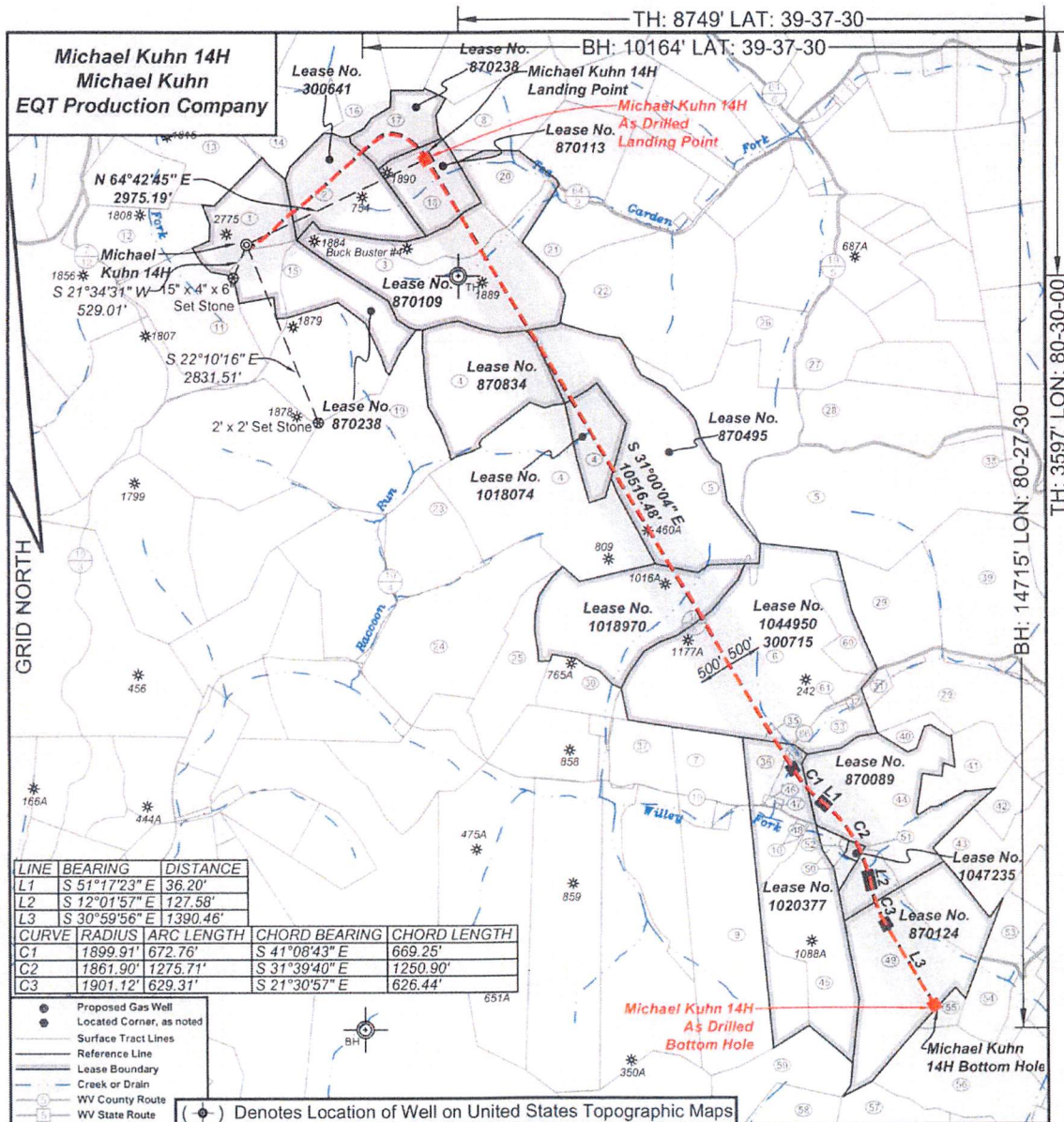
12/01/2023 

Well # Michael Kuhn 14H (L003962) Final Formations API# 47-103-03416				
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	1,176	1,176
Sewickley Coal	1,176	1,176	1,179	1,179
Sand/Shale	1,179	1,179	1,278	1,278
Pittsburgh Coal	1,278	1,278	1,284	1,284
Sand/Shale	1,284	1,284	2,605	2,604
Big Injun	2,605	2,604	2,755	2,754
Sand/Shale	2,755	2,754	2,873	2,871
Berea	2,873	2,871	3,133	3,131
Sand/Shale	3,133	3,131	3,238	3,235
Gantz	3,238	3,235	3,306	3,303
Fifty foot	3,306	3,303	3,394	3,390
Thirty foot	3,394	3,390	3,591	3,583
Bayard	3,591	3,583	3,665	3,655
Sand/Shale	3,665	3,655	3,996	3,971
Upper Speechley	3,996	3,971	4,049	4,020
Speechley	4,049	4,020	4,132	4,095
Balltown	4,132	4,095	4,496	4,415
Bradford	4,496	4,415	5,611	5,306
Benson	5,611	5,306	6,019	5,627
Alexander	6,019	5,627	6,450	5,962
Elk	6,450	5,962	7,886	7,098
Sonyea	7,886	7,098	8,123	7,282
Middlesex	8,123	7,282	8,354	7,456
Genesee	8,354	7,456	8,494	7,548
Geneseo	8,494	7,548	8,540	7,576
Tully	8,540	7,576	8,580	7,598
Hamilton	8,580	7,598	8,837	7,704
Marcellus	8,837	7,704	23,698	7,861

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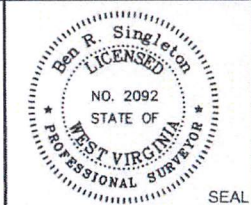
JM



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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FILE NO: 49-20
DRAWING NO: Michael Kuhn 14H
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

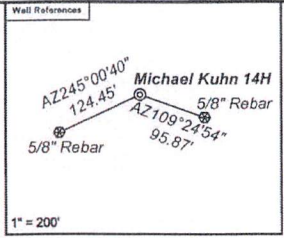
DATE: April 1 20 22
OPERATOR'S WELL NO.: Michael Kuhn 14H
API WELL NO
47 - 103 - 03416
STATE COUNTY PERMIT

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

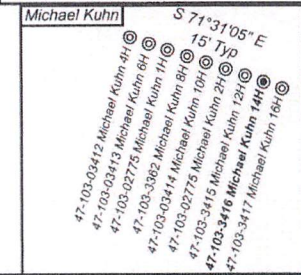
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Michael Kuhn 14H
Michael Kuhn
EQT Production Company

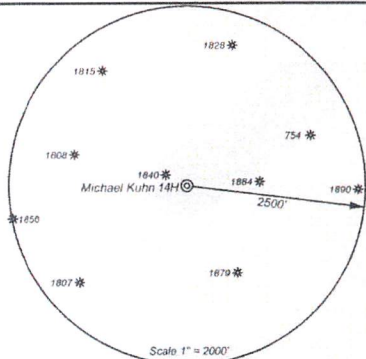


As Drilled Well Information:
 Michael Kuhn 14H coordinates are
 NAD 27 N: 407,819.83 E: 1,709,537.34
 NAD 83 UTM N: 4,385,155.73 E: 540,269.31
 Michael Kuhn 14H Kick Out Point coordinates are
 NAD 27 N: 407,821.31 E: 1,709,533.16
 NAD 83 UTM N: 4,385,156.16 E: 540,268.03
 Michael Kuhn 14H Landing Point coordinates are
 NAD 27 N: 409,082.73 E: 1,712,209.48
 NAD 83 UTM N: 4,385,554.10 E: 541,077.01
 Michael Kuhn 14H Bottom Hole coordinates are
 NAD 27 N: 396,586.52 E: 1,719,741.73
 NAD 83 UTM N: 4,381,785.32 E: 543,435.24
 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.

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	39.40
2	13	8	Wetzel	Church	William B. Francis Jr.	48.44
3	17	1	Wetzel	Church	Buck Buster Hunt Club of WV Inc.	160.00
4	4	12	Wetzel	Grant	Robert L. McCann Jr. & Andrew G. McCann	190.78
5	5	1	Wetzel	Grant	Raccoon Run Properties LLC	370.01
6	10	2.1	Wetzel	Grant	Richard L. Elmgst	139.58
7	10	2.1	Wetzel	Grant	John Gump Jr. & Mary Jo Gump	25.00
8	13	7	Wetzel	Church	Daniel T. & Kristie D. Park	36.00
9	10	38	Wetzel	Grant	Tammy D. Chambers	89.87
10	10	31.2	Wetzel	Grant	Zachary W. Adams	13.01
11	20	35	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	54.00
12	20	31	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	40.00
13	20	27	Wetzel	Center	Robert E. & Linda E. Rex	48.75
14	20	18	Wetzel	Center	Robert E. & Linda E. Rex	60.10
15	20	36	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	43.00
16	20	5	Wetzel	Center	Robert F. & Linda Rex	107.00
17	13	6	Wetzel	Church	William B. & Pamela S. Francis	26.50
18	13	9	Wetzel	Church	William B. Francis Jr.	28.00
19	4	11	Wetzel	Grant	Liberty Holding Company	89.05
20	13	10	Wetzel	Church	Buck Buster Hunt Club of WV Inc.	27.50
21	18	1	Wetzel	Church	Andrew Pintas	31.80
22	18	2	Wetzel	Church	David Brickentem, et al.	98.50
23	9	5	Wetzel	Grant	Michael & Carol Dumesny	36.50
24	9	12	Wetzel	Grant	Burt Barr	80.28
25	9	64	Wetzel	Grant	Calvin N. Barr, et al.	32.82
26	18	10	Wetzel	Church	Steven W. & Carolyn L. Barr	18.00
27	18	11	Wetzel	Church	Thomas E. Kahl	28.00
28	18	17	Wetzel	Church	Carol Summers	57.30
29	10	4	Wetzel	Grant	Gary R. Taylor	86.08
30	10	9	Wetzel	Grant	Gregory A. Burtine	22.50
31	10	11	Wetzel	Grant	Ermey J. Stoenking	3.52
32	10	2.2	Wetzel	Grant	Ermey J. & Romona L. Stoenking	0.90
33	10	2	Wetzel	Grant	Joseph W. Judge	12.75
34	10	31.1	Wetzel	Grant	Norman & Stacy Adams	0.92
35	10	10	Wetzel	Grant	Leroy & Hazel Kihpachick	1.07
36	10	31	Wetzel	Grant	John Gump Jr. & Mary Jo Gump	16.33
37	10	20	Wetzel	Grant	Billy J. & Frances J. Higgins Inevocable Trust	21.08
38	18	19	Wetzel	Church	Harold Richmond	45.12
39	10	5	Wetzel	Grant	Ervin Paul Park	95.84
40	10	12	Wetzel	Grant	Gary R. Taylor	0.25
41	10	25	Wetzel	Grant	Gary R. Taylor	20.00
42	10	26	Wetzel	Grant	Susan Henner, et al.	13.09
43	10	35	Wetzel	Grant	EQT Drilling, LLC	24.00
44	10	23	Wetzel	Grant	Joseph B. & Debra Ann Gump	57.70
45	10	32	Wetzel	Grant	Richard E. & Jay A. Griffith	60.00
46	10	22	Wetzel	Grant	Joseph B. Gump, et al.	0.75
47	10	27	Wetzel	Grant	Joseph B. Gump, et al.	0.25
48	10	31.3	Wetzel	Grant	Zachary W. Adams	1.34
49	10	40	Wetzel	Grant	Ronald Gump	84.50
50	10	33	Wetzel	Grant	Bredy Grife	5.56
51	10	33.1	Wetzel	Grant	Bobby L. Gump, et al.	1.52
52	10	33.2	Wetzel	Grant	Michael De	0.44
53	10	41	Wetzel	Grant	Joshua R. Gump	18.53
54	10	43.1	Wetzel	Grant	Bruce W. & Crystal F. Bradley	18.00
55	10	44	Wetzel	Grant	Ronald Keith & Debra P. Gump	4.10
56	15	7	Wetzel	Grant	Coastal Forest Resources Company	51.00
57	15	8	Wetzel	Grant	Coastal Forest Resources Company	49.00
58	15	7	Wetzel	Grant	Timothy E. Tusa	115.00
59	15	1	Wetzel	Grant	Timothy E. Tusa	43.29
60	10	3	Wetzel	Grant	Wilson & Lisa Stoenking	17.30
61	10	2.4	Wetzel	Grant	Joseph W. Judge	0.31



Lease No.	Owner	Acres
300641	Beulah Delons Ballard	47
870238	Miriam K. Knowles, a/k/a Miriam M. Knowles and Philip G. Knowles, et al.	26.5
870113	Beulah Delons Ballard, et al.	28
870109	Buckbusters Hunting Club of WVA, LLC	127.5
870834	Shiben Estates, Inc., et al.	60.75
870495	Shiben Estates, Inc.	129
1018074	John R. Papik and Tamara Lea Papik, et al.	23.1063
1018970	Three Rivers Royalty, LLC, et al.	75
1044950	Patrick Harold Hasenbuhler, et al.	139.18
300715	Patrick Harold Hasenbuhler, et al.	100.00
1020377	Patrick Harold Hasenbuhler, et al.	110
870089	Ervin Park, et al.	97.7
1047235	Russell C. Blackburn, et al.	1,525
870124	Ronald Keith Gump, II and Deloris Paula Gump, et al.	94.5



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 P.S. 2092



SEAL

FILE NO: 49-20
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 SCALE: 1" = 2000'
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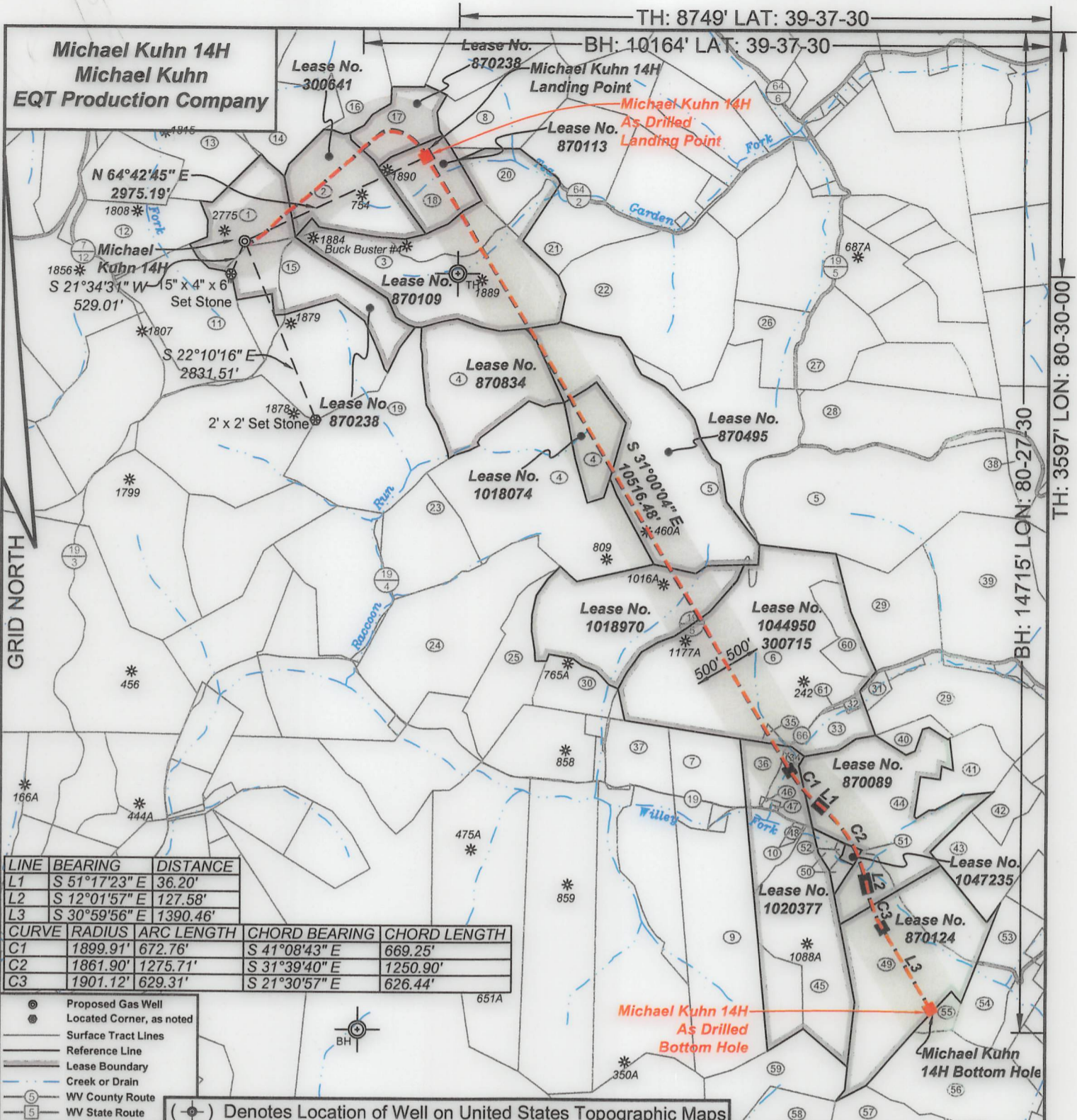
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OIL AND GAS DIVISION

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 ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280
 Canonsburg, PA 15317 Bridgeport, WV 26330

12/01/2023



LINE	BEARING	DISTANCE
L1	S 51°17'23" E	36.20'
L2	S 12°01'57" E	127.58'
L3	S 30°59'56" E	1390.46'

CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	1899.91'	672.76'	S 41°08'43" E	669.25'
C2	1861.90'	1275.71'	S 31°39'40" E	1250.90'
C3	1901.12'	629.31'	S 21°30'57" E	626.44'

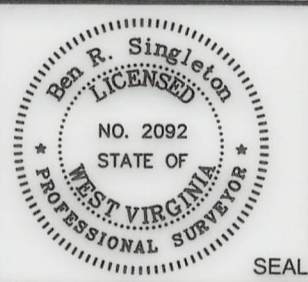
- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- ⑤ WV County Route
- ⑤ WV State Route

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



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P.S. 2092



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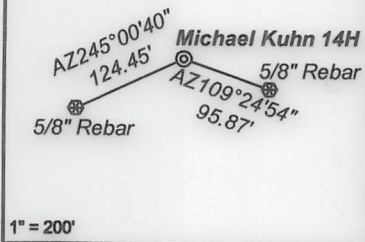
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
ADDRESS: 400 Woodcliff Drive Canonsburg, PA 15317 ADDRESS: 115 Professional Place PO Box 280 Bridgeport, WV 26330

TH: 8749' LAT: 39-37-30
BH: 10164' LAT: 39-37-30
BH: 14715' LON: 80-27-30
TH: 3597' LON: 80-30-00

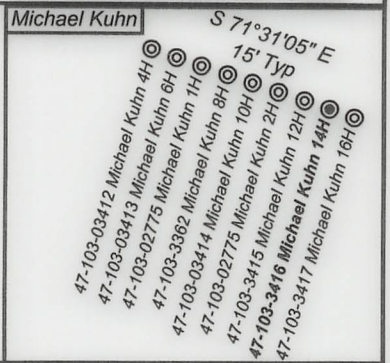
Michael Kuhn 14H
Michael Kuhn
EQT Production Company

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5	5	1	Wetzel	Grant	Raccoon Run Properties LLC	370.01
6	10	2.1	Wetzel	Grant	Richard L. Ebricht	139.18
7	10	21	Wetzel	Grant	John Gump Jr. & Mary Jo. Gump	25.00
8	13	7	Wetzel	Church	Daniel T & Kristie D. Park	36.00
9	10	38	Wetzel	Grant	Tammy D. Chambers	89.67
10	10	31.2	Wetzel	Grant	Zachary W. Adams	13.01
11	20	35	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	54.00
12	20	31	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	40.00
13	20	27	Wetzel	Center	Robert E. & Linda E. Rix	48.75
14	20	18	Wetzel	Center	Robert E. & Linda E. Rix	60.10
15	20	36	Wetzel	Center	Rachel Elizabeth Wyatt & Sheldon R. Norris	45.00
16	20	5	Wetzel	Center	Robert F. & Linda Rix	107.00
17	13	6	Wetzel	Church	William B. & Pamela S. Francik	26.50
18	13	9	Wetzel	Church	William B. Francik Jr.	28.00
19	4	11	Wetzel	Grant	Liberty Holding Company	89.05
20	13	10	Wetzel	Church	Buck Buster Hunt Club of WV Inc	27.50
21	18	1	Wetzel	Church	Andrew Pintus	31.80
22	18	2	Wetzel	Church	David Brickenstein, et al.	98.50
23	9	5	Wetzel	Grant	Michael & Carol Dulaney	36.50
24	9	12	Wetzel	Grant	Burl Barr	80.26
25	9	64	Wetzel	Grant	Calvin N. Barr, et al.	32.92
26	18	10	Wetzel	Church	Steven W. & Carolyn L. Blair	19.00
27	18	11	Wetzel	Church	Thomas E. Kahl	29.00
28	18	17	Wetzel	Church	Cecil Summers	57.30
29	10	4	Wetzel	Grant	Gary R. Taylor	86.08
30	10	9	Wetzel	Grant	Gregory A. Burdine	22.50
31	10	11	Wetzel	Grant	Earney J. Stoneking	3.52
32	10	2.2	Wetzel	Grant	Earney J. & Romona L. Stoneking	0.99
33	10	2	Wetzel	Grant	Joseph W. Judge	12.75
34	10	31.1	Wetzel	Grant	Norman & Stacy Adams	0.92
35	10	10	Wetzel	Grant	Leroy & Hazel Kirkpatrick	1.07
36	10	31	Wetzel	Grant	John Gump Jr. & Mary Jo. Gump	16.33
37	10	20	Wetzel	Grant	Billy J. & Frances J. Higgins Irrevocable Trust	21.08
38	18	19	Wetzel	Church	Harold Richmond	46.12
39	10	5	Wetzel	Grant	Ervin Paul Park	99.94
40	10	12	Wetzel	Grant	Gary R. Taylor	6.25
41	10	25	Wetzel	Grant	Gary R. Taylor	20.00
42	10	26	Wetzel	Grant	Susan Harper, et al.	13.00
43	10	35	Wetzel	Grant	EQT Gathering, LLC	24.00
44	10	23	Wetzel	Grant	Joseph B. & Delores Ann Gump	97.70
45	10	32	Wetzel	Grant	Richard E. & Jay A. Griffith	60.00
46	10	22	Wetzel	Grant	Joseph B. Gump, et al.	0.75
47	10	22	Wetzel	Grant	Joseph B. Gump, et al.	0.25
48	10	31.3	Wetzel	Grant	Zachary W. Adams	1.24
49	10	40	Wetzel	Grant	Ronald Gump	94.50
50	10	33	Wetzel	Grant	Brady Grefe	5.56
51	10	33.1	Wetzel	Grant	Bobby L. Gump, et al.	1.52
52	10	33.2	Wetzel	Grant	Michael Six	0.44
53	10	41	Wetzel	Grant	Joshua R. Gump	18.53
54	10	45.1	Wetzel	Grant	Bruce W. & Crystal F. Bradley	16.00
55	10	44	Wetzel	Grant	Ronald Keith & Deloris P. Gump	4.10
56	15	2	Wetzel	Grant	Coastal Forest Resources Company	61.00
57	15	8	Wetzel	Grant	Coastal Forest Resources Company	49.00
58	15	7	Wetzel	Grant	Timothy E. Titus	115.00
59	15	1	Wetzel	Grant	Timothy E. Titus	43.20
60	10	3	Wetzel	Grant	William & Lisa Stoneking	17.30
61	10	2.4	Wetzel	Grant	Joseph W. Judge	0.31

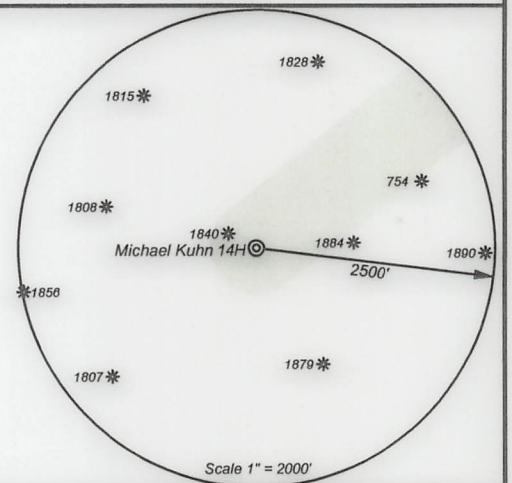
Well References



As Drilled Well Information:
 Michael Kuhn 14H coordinates are
 NAD 27 N: 407,819.83 E: 1,709,537.34
 NAD 83 UTM N: 4,385,155.73 E: 540,269.31
Michael Kuhn 14H Kick Out Point coordinates are
 NAD 27 N: 407,821.31 E: 1,709,533.16
 NAD 83 UTM N: 4,385,156.16 E: 540,268.03
Michael Kuhn 14H Landing Point coordinates are
 NAD 27 N: 409,082.73 E: 1,712,209.48
 NAD 83 UTM N: 4,385,554.10 E: 541,077.01
Michael Kuhn 14H Bottom Hole coordinates are
 NAD 27 N: 396,586.52 E: 1,719,741.73
 NAD 83 UTM N: 4,381,785.32 E: 543,435.24
 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.

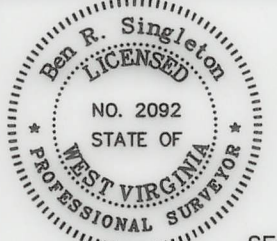


Lease No.	Owner	Acres
300641	Beulah Deloris Ballard	47
870238	Miriam K. Knowles, a/k/a Miriam M. Knowles and Philip G. Knowles, et al.	26.5
870113	Beulah Deloris Ballard, et al.	28
870109	Buckbusters Hunting Club of WVA, LLC	127.5
870834	Shiben Estates, Inc., et al.	60.75
870495	Shiben Estates, Inc.	129
1018074	John R. Papik and Tamara Lea Papik, et al.	23.1063
1018970	Three Rivers Royalty, LLC, et al.	75
1044950	Patrick Harold Hasenbuhler, et al.	139.18
300715	Patrick Harold Hasenbuhler, et al.	100.00
1020377	Patrick Harold Hasenbuhler, et al.	110
870089	Ervin Park, et al.	97.7
1047235	Russell C. Blackburn, et al.	1.525
870124	Ronald Keith Gump, II and Deloris Paula Gump, et al.	94.5



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 14H
 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: April 1 20 22
 OPERATOR'S WELL NO.: Michael Kuhn 14H
 API WELL NO
 47 - 103 - 03416
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 1509' WATERSHED: 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

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	12/18/2022	23576	23415	36	Marcellus
3	12/20/2022	23396	23235	36	Marcellus
4	12/21/2022	23216	23055	36	Marcellus
5	12/22/2022	23036	22875	36	Marcellus
6	12/29/2022	22856	22695	36	Marcellus
7	12/30/2022	22676	22515	36	Marcellus
8	12/30/2022	22496	22335	36	Marcellus
9	12/31/2022	22316	22155	36	Marcellus
10	12/31/2022	22136	21975	36	Marcellus
11	01/01/2023	21956	21795	36	Marcellus
12	01/01/2023	21776	21615	36	Marcellus
13	01/02/2022	21596	21435	36	Marcellus
14	01/02/2023	21416	21255	36	Marcellus
15	01/03/2023	21236	21075	36	Marcellus
16	01/03/2023	21056	20875	40	Marcellus
17	01/03/2023	20856	20675	40	Marcellus
18	01/05/2023	20657	20496	36	Marcellus
19	01/05/2023	20477	20317	36	Marcellus
20	01/06/2023	20298	20138	36	Marcellus
21	01/06/2023	20119	19959	36	Marcellus
22	01/07/2023	19940	19780	36	Marcellus
23	01/08/2023	19761	19581	40	Marcellus
24	01/08/2023	19562	19382	40	Marcellus
25	01/09/2023	19363	19183	40	Marcellus
26	01/10/2020	19164	18984	40	Marcellus
27	01/10/2023	18965	18785	40	Marcellus
28	01/11/2023	18766	18586	40	Marcellus
29	01/11/2023	18567	18387	40	Marcellus
30	01/12/2023	18368	18188	40	Marcellus
31	01/13/2023	18169	17989	40	Marcellus
32	01/13/2023	17970	17790	40	Marcellus
33	01/14/2023	17771	17591	40	Marcellus
34	01/15/2023	17572	17392	40	Marcellus
35	01/15/2023	17373	17193	40	Marcellus
36	01/16/2023	17174	16994	40	Marcellus
37	01/16/2023	16975	16795	40	Marcellus
38	01/17/2023	16776	16596	40	Marcellus
39	01/18/2023	16577	16397	40	Marcellus
40	01/18/2023	16378	16198	40	Marcellus
41	01/19/2023	16179	15999	40	Marcellus
42	01/19/2023	15980	15800	40	Marcellus
43	01/20/2023	15781	15601	40	Marcellus
44	01/21/2023	15582	15402	40	Marcellus

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45	01/21/2023	15383	15203	40	Marcellus
46	01/21/2023	15184	15004	40	Marcellus
47	01/21/2023	14985	14805	40	Marcellus
48	01/22/2023	14786	14606	40	Marcellus
49	01/22/2023	14587	14407	40	Marcellus
50	01/23/2023	14388	14208	40	Marcellus
51	01/23/2023	14189	14009	40	Marcellus
52	01/23/2023	13990	13810	40	Marcellus
53	01/24/2023	13791	13611	40	Marcellus
54	01/24/2023	13592	13412	40	Marcellus
55	01/25/2023	13393	13213	40	Marcellus
56	01/25/2023	13194	13014	40	Marcellus
57	01/25/2023	12995	12815	40	Marcellus
58	01/25/2023	12796	12616	40	Marcellus
59	01/25/2023	12597	12417	40	Marcellus
60	01/25/2023	12398	12218	40	Marcellus
61	01/26/2023	12199	12019	40	Marcellus
62	01/26/2023	12000	11820	40	Marcellus
63	01/26/2023	11801	11621	40	Marcellus
64	01/26/2023	11602	11422	40	Marcellus
65	01/26/2023	11403	11223	40	Marcellus
66	01/27/2023	11204	11024	40	Marcellus
67	01/27/2023	11005	10825	40	Marcellus
68	01/27/2023	10806	10626	40	Marcellus
69	01/27/2023	10607	10427	40	Marcellus
70	01/28/2023	10408	10228	40	Marcellus
71	01/29/2023	10209	10029	40	Marcellus
72	01/29/2023	10010	9830	40	Marcellus
73	01/30/2023	9811	9631	40	Marcellus
74	01/31/2023	9612	9432	40	Marcellus
75	01/31/2023	9413	9233	40	Marcellus
76	02/01/2023	9214	9034	40	Marcellus
77	02/02/2023	9015	8875	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	12/18/2022	75	9218	7221	5415	176585	5237	
2	12/19/2022	92	9394	5146	5376	396140	9932	
3	12/22/2022	92	9340	5083	5871	396180	9309	
4	12/22/2022	83	9373	5864	5903	396037	9341	
5	12/29/2022	96	9302	3345	5801	396050	9301	
6	12/30/2022	92	9275	5840	5819	396231	9182	
7	12/30/2022	91	9431	6376	5725	396063	9228	
8	12/31/2022	87	9323	6413	5671	396286	9163	
9	12/31/2022	86	9450	6202	5823	396074	9266	
10	01/01/2023	83	9286	6341	5521	396252	9198	
11	01/01/2023	85	9429	6590	6309	396034	9211	
12	01/02/2023	81	9345	6691	6131	396237	9249	
13	01/02/2023	83	9479	6744	5849	396053	9212	
14	01/03/2023	83	9361	6714	5941	396275	9158	
15	01/04/2023	85	9304	6565	5935	396651	9156	
16	01/04/2023	86	9440	6561	6228	440114	10137	
17	01/05/2023	88	9409	6583	6059	440260	10119	
18	01/05/2023	88	9474	6481	6251	396040	9110	
19	01/06/2023	90	9436	6241	5905	396319	9136	
20	01/07/2023	90	9414	5000	8993	396165	9110	
21	01/07/2023	88	9430	6296	6061	396098	9079	
22	01/08/2023	95	9453	6239	6563	396202	9113	
23	01/09/2023	93	9420	6205	6449	440145	10026	
24	01/09/2023	96	9432	6241	6241	440119	10009	
25	01/10/2023	95	9445	6233	6292	440173	9952	
26	01/10/2023	99	9371	5899	5784	440045	9991	
27	01/11/2023	100	9395	6264	6156	440185	9944	
28	01/12/2023	97	9349	6418	6061	440050	9962	
29	01/12/2023	99	9345	6587	5963	440080	10023	
30	01/13/2023	100	9271	6231	6128	440065	9984	
31	01/14/2023	100	9182	6309	6047	440078	10018	
32	01/14/2023	100	9292	6133	5880	440115	9981	
33	01/15/2023	99	9250	6031	6686	440046	9963	
34	01/15/2023	100	9226	5914	5840	440170	9949	
35	01/16/2023	100	9270	6076	5974	440053	9958	
36	01/17/2023	99	9215	6155	5847	440052	9929	
37	01/17/2023	98	9283	6209	5599	440130	9930	
38	01/18/2023	100	9188	6301	5884	440158	9891	
39	01/18/2023	99	9274	6347	6085	440408	9927	
40	01/19/2023	100	9234	6179	5330	440181	9926	
41	01/20/2023	99	9136	6296	5661	440484	9913	
42	01/20/2023	100	9085	5977	5526	440147	9880	
43	01/21/2023	100	9202	6227	5637	440217	9845	

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44	01/21/2023	100	9207	6098	5880	440107	9881
45	01/21/2023	100	9228	6261	5951	440048	9837
46	01/22/2023	99	9157	6105	5946	440334	9831
47	01/22/2023	100	9191	6270	5654	440239	9854
48	01/22/2023	99	9193	5817	5226	440209	9835
49	01/23/2023	100	9152	6048	6090	440274	9827
50	01/23/2023	100	9255	6114	5523	440122	9836
51	01/24/2023	99	9136	6052	6053	440445	9825
52	01/16/2023	99	9197	9145	6256	440545	9844
53	01/25/2023	100	9048	6139	5965	440541	9834
54	01/25/2023	99	9121	6243	6139	440445	9815
55	01/25/2023	100	9060	5958	6012	440458	9824
56	01/25/2023	100	9119	5821	5649	440759	9757
57	01/25/2023	100	9142	5952	5156	440310	9670
58	01/25/2023	100	9048	5780	5440	440181	9701
59	01/26/2023	100	9182	5910	5280	440416	9636
60	01/26/2023	99	9065	5603	5787	440470	9759
61	01/26/2023	99	9059	5644	5420	440421	9677
62	01/26/2023	100	9091	5881	5088	440059	9761
63	01/26/2023	100	8966	5685	5196	440025	9683
64	01/27/2023	99	8970	5783	5409	440532	9667
65	01/27/2023	100	8796	5722	4680	440049	9730
66	01/27/2023	100	8703	5742	5524	440063	9671
67	01/27/2023	100	8544	5817	5944	440045	9672
68	01/28/2023	100	8630	5830	5168	440439	9663
69	01/28/2023	100	8723	5846	4204	440065	9723
70	01/29/2023	100	8631	5741	5068	440499	9630
71	01/29/2023	99	8838	5753	4592	440025	9663
72	01/30/2023	100	8784	5725	5838	440129	9645
73	01/31/2023	100	8663	5635	5494	440656	9632
74	01/31/2023	101	8673	5684	4559	440014	9643
75	02/01/2023	100	8481	5456	5175	440062	9568
76	02/02/2023	100	8602	5826	4731	440421	9563
77	02/02/2023	88	8649	6033	4495	352004	7749

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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:	47-103-03416-00-00
Operator Name:	EQT Production
Well Name and Number:	Michael Kuhn 14H
Latitude:	39.61520890
Longitude:	-80.53086360
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,890
Total Base Water Volume (gal):	31,031,868
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	88.59783	None
Sand (Proppant)	EQT	Proppant	Silica Substrate	14808-60-7	100.00000	11.19062	None
Clearal 268	ChemStream	Biocide	Non-hazardous substances	Proprietary	80.00000	0.00890	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor	Non-hazardous substances	Proprietary	90.00000	0.00751	None
StimSTREAM FR 2800	ChemStream	Friction Reducer	Distillates (petroleum), hydrated light	64742-47-8	25.00000	0.00440	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	Copolymer of 2-propenamide	Proprietary	30.00000	0.00308	None
15% HCl	Evolution Well Services	Acid	Hydrogen Chloride	7647-01-0	15.00000	0.00187	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	Petroleum Distillate	64742-47-8	20.00000	0.00137	None
Clearal 268	ChemStream	Biocide					

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			Glutaraldehyde	111-30-8	20.00000	0.00056	None
Plexhib 166	Evolution	Acid Corrosion Inhibitor					
			Methanol	67-56-1	90.00000	0.00020	None
StimSTREAM FR 2800	ChemStream	Friction Reducer					
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00018	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid)(BHMT)	34690-00-1	10.00000	0.00009	None
Ferrplex 66	Evolution	Iron Control					
			Acetic Acid	000064-19-7	50.00000	0.00005	None
Ferrplex 66	Evolution	Iron Control					
			Citric Acid	000077-92-9	30.00000	0.00002	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00001	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Oleic Acid Diethanolamide	93-83-4	2.00000	0.00001	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
Clearal 268	ChemStream	Biocide					
			Ethanol	64-17-5	1.50000	0.00000	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	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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