

Well Operator's Report of Well Work



Well Number: BIG245 110H (L003516)

API: 47 - 103 - 03444

Submission: Initial Amended

Notes: Amendment for Flowback/Production Data

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Office of Oil and Gas

JAN 22 2024

WV Department of
Environmental Protection

03/01/2024

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

API 47-103-03444 County Wetzel District Grant
Quad Big Run Pad Name BIG245 Field/Pool Name N/A
Farm name ET Blue Grass LLC Well Number BIG245 110H (L003516)
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 4,382,948.04 Easting 537,031.04
Landing Point of Curve Northing 4,382,972.08 Easting 537,320.92
Bottom Hole Northing 4,378,251.57 Easting 540,252.67

Elevation (ft) 1430' 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 13.75 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 03/01/2022 Date drilling commenced 11/15/2021 Date drilling ceased 07/18/2022
Date completion activities began 07/14/2023 Date completion activities ceased 10/21/2023
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 230,508,663,753,1012 Open mine(s) (Y/N) depths N
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N
Coal depth(s) ft 934,1015,1116 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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APPROVED
Reviewed by: [Signature]
03/01/2024
1-31-24

API 47- 103 03444 Farm name ET Blue Grass LLC Well number BIG245 110H (L003516)

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"	1209'	NEW	J-55 54.5#	1083'	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	2648'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-1/2"	6"	26,220'	NEW	P-110 24#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 886' 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	1012	16.0	1.13	1143	0	8
Coal							
Intermediate 1	CLASS A	1055	16.5	1.07	1128	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	4725	15.2	1.09	5150	886'	8+
Tubing							

Drillers TD (ft) 26,243' Loggers TD (ft) N/A
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 2,741'

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 2003' _____

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

Department of Environmental Protection

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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

Logging Company Scientific Drilling International
Address 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 Operating
Address 1780 Hughes Landing Blvd Ste 125 City The Woodlands State TX Zip 77380

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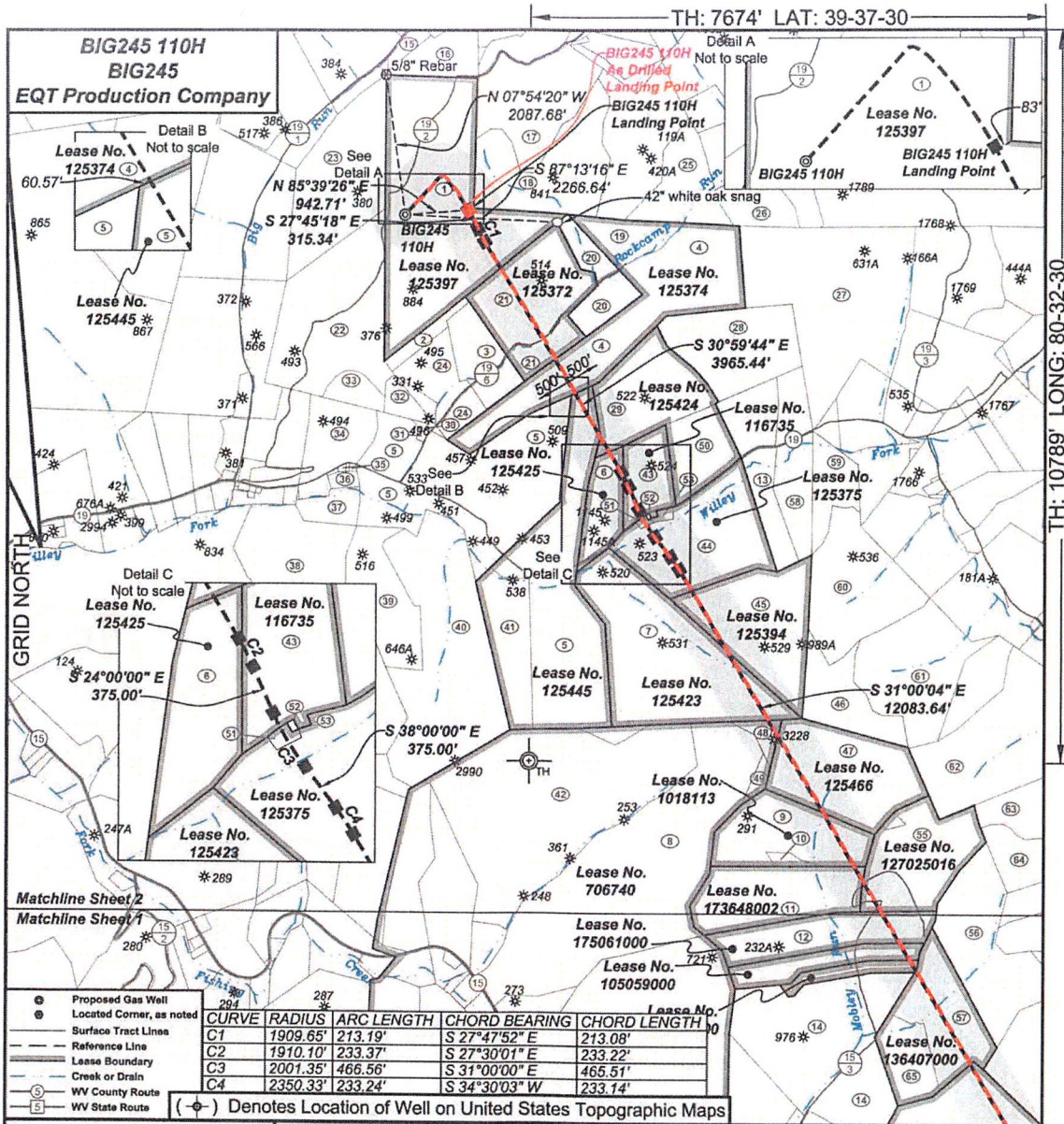
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Well # BIG245 110H (L003516) Final Formations API# 47-103-03444				
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	934	934
Waynesburg Coal	934	934	937	937
Sand/Shale	937	937	1,015	1,015
Mapletown Coal	1,015	1,015	1,018	1,018
Sand/Shale	1,018	1,018	1,116	1,116
Pittsburgh Coal	1,116	1,116	1,126	1,126
Sand/Shale	1,126	1,126	2,257	2,257
Maxton	2,257	2,257	2,298	2,298
Sand/Shale	2,298	2,298	2,311	2,311
Big Lime	2,311	2,311	2,381	2,381
Big Injun	2,381	2,381	2,548	2,548
Sand/Shale	2,548	2,548	2,717	2,717
Weir	2,717	2,717	2,757	2,757
Sand/Shale	2,757	2,757	3,115	3,113
Gordon	3,115	3,113	3,154	3,151
Sand/Shale	3,154	3,151	3,173	3,170
Forth Sand	3,173	3,170	3,217	3,213
Sand/Shale	3,217	3,213	3,221	3,217
Bayard	3,221	3,217	3,451	3,443
Sand/Shale	3,451	3,443	3,843	3,828
Speechley	3,843	3,828	4,065	4,046
Sand/Shale	4,065	4,046	4,636	4,607
Riley	4,636	4,607	4,868	4,835
Sand/Shale	4,868	4,835	5,332	5,290
Benson	5,332	5,290	5,480	5,436
Sand/Shale	5,480	5,436	5,794	5,745
Alexander	5,794	5,745	6,110	6,055
Elks	6,110	6,055	7,141	7,061
Sonyea	7,141	7,061	7,314	7,217
Middlesex	7,314	7,217	7,378	7,268
Genesee	7,378	7,268	7,502	7,355
Geneseo	7,502	7,355	7,540	7,378
Tully	7,540	7,378	7,582	7,402
Hamilton	7,582	7,402	7,918	7,524
Marcellus	7,918	7,524	26,243	7,626

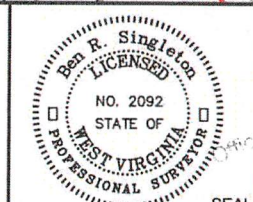
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I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Ben R. Singleton
P.S. 2092



FILE NO: 246-18
DRAWING NO: BIG245 110H
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

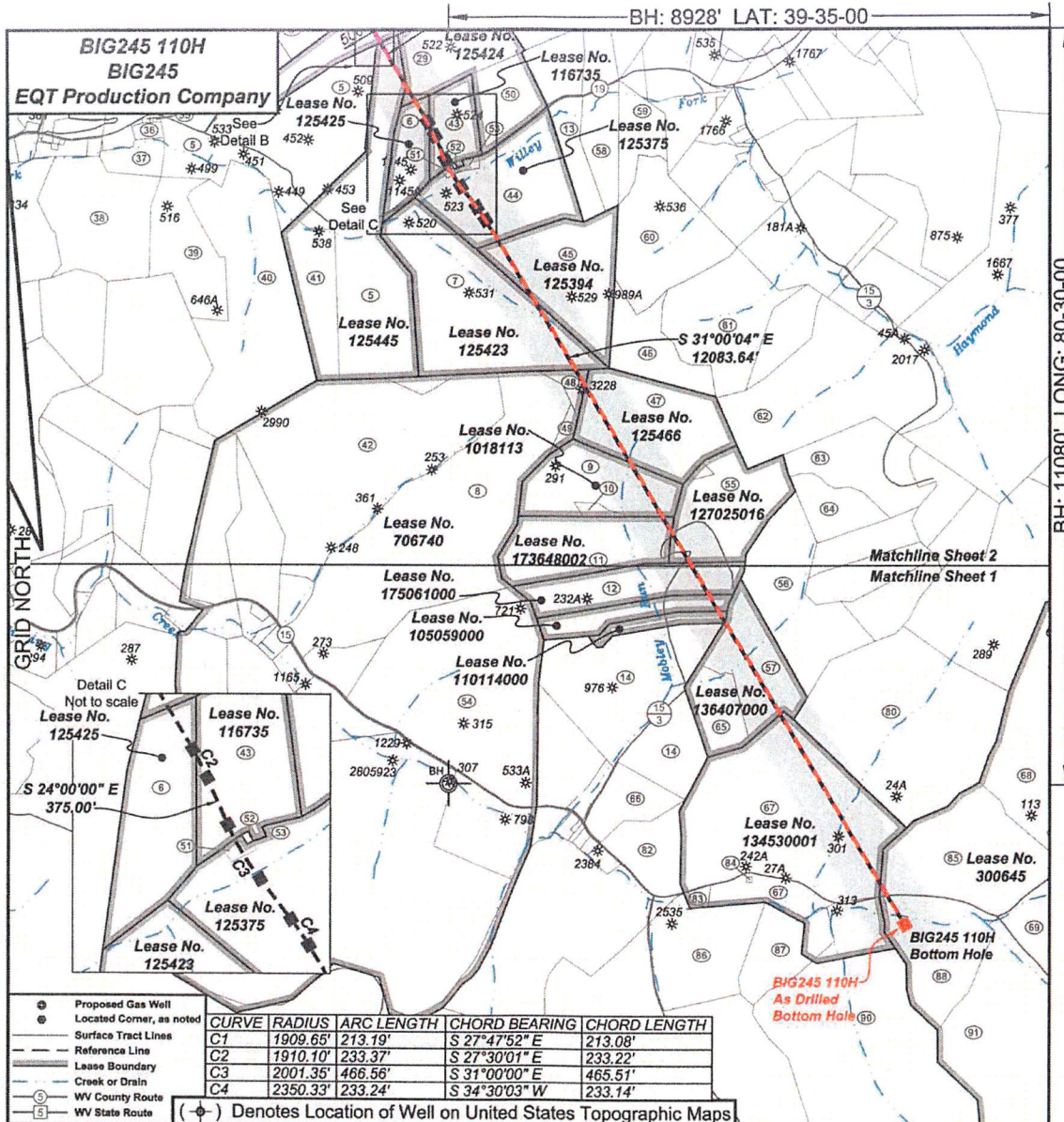
DATE: August 05 20 22
OPERATOR'S WELL NO.: BIG245 110H
API WELL NO
47 - 103 - 03444
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1430' WATERSHED Rockcamp Run of Willey Fork QUADRANGLE: Big Run
DISTRICT: Grant COUNTY: Wetzel
SURFACE OWNER: ET Blue Grass LLC ACREAGE: 138.93
ROYALTY OWNER: Shiben Estates, Inc., et al. LEASE NO: 125397 ACREAGE: 140
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: 7,549'

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

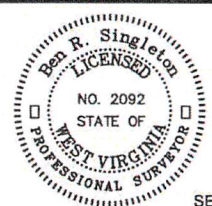
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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
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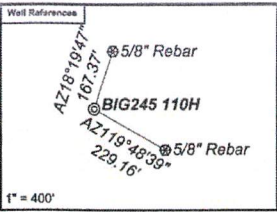
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
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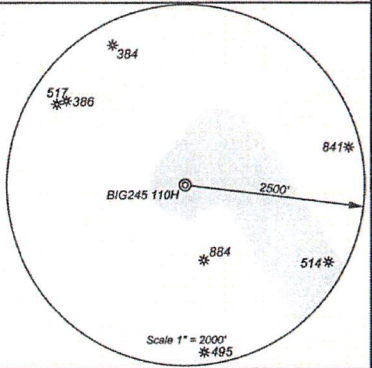
BIG245 110H BIG245 EQT Production Company						Well References		As Drilled Well Information:	
Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Tract I.D.	Tax Map No.	Parcel No.	County
1	8	22	Wetzel	Grant	ET Blue Grass LLC	85	19	8	Wetzel
2	8	25	Wetzel	Grant	Jamies A. Yoho	86	19	17	Wetzel
3	8	27	Wetzel	Grant	Jamies A. Yoho	87	19	18	Wetzel
4	8	32	Wetzel	Grant	Joe Pigg	88	19	8.1	Wetzel
5	8	33	Wetzel	Grant	H. Donn Higginbotham	90	19	27	Wetzel
6	8	34	Wetzel	Grant	Sherrilyn Snider				
7	14	7	Wetzel	Grant	Norman Derby				
8	13	48	Wetzel	Grant	Crestal Forest Resources Company				
9	14	22	Wetzel	Grant	John W. Woyoff & Carolyn B. McGill				
10	14	21	Wetzel	Grant	John W. Woyoff & Carolyn B. McGill				
11	14	28	Wetzel	Grant	EQT Production Company				
12	14	37	Wetzel	Grant	EQT Production Company				
13	9	83	Wetzel	Grant	Norman R. & Vivian L. Derby				
14	14	38	Wetzel	Grant	EQT Production Company				
15	8	13.1	Wetzel	Grant	Duane M. Goodrich				
16	8	7	Wetzel	Grant	Jamies E. & Martin A. Stovering				
17	8	8	Wetzel	Grant	Wanda L. Byrd				
18	8	18	Wetzel	Grant	John Michael Byrd				
19	9	22	Wetzel	Grant	Jamies A. Yoho				
20	8	26	Wetzel	Grant	Mary Ann Byrd				
21	8	28	Wetzel	Grant	Jamies A. Yoho				
22	8	23	Wetzel	Grant	Dale K. O'Leary, et al.				
23	8	11	Wetzel	Grant	Bonnie M. Herborn				
24	8	28	Wetzel	Grant	Jamies A. Yoho				
25	9	13	Wetzel	Grant	Jamies A. Yoho				
26	9	17	Wetzel	Grant	Loiselle Watson				
27	9	23	Wetzel	Grant	Shelton B. & Carolyn M. Gantz				
28	9	29	Wetzel	Grant	William & Margaret Schmeizer				
29	9	28	Wetzel	Grant	Sherrilyn Snider				
30	8	40	Wetzel	Grant	Jamies A. Yoho				
31	8	41	Wetzel	Grant	H. Donn Higginbotham				
32	8	30	Wetzel	Grant	Jamies A. Yoho				
33	8	24	Wetzel	Grant	H. Donn Higginbotham				
34	8	29	Wetzel	Grant	H. Donn Higginbotham				
35	9	62	Wetzel	Grant	Henry E. Wilby				
36	8	14	Wetzel	Grant	Henry E. Wilby				
37	8	55	Wetzel	Grant	Mansel L. MacDuff, et al.				
38	13	7	Wetzel	Grant	Mansel L. MacDuff, et al.				
39	13	8	Wetzel	Grant	Robert Cole				
40	13	17	Wetzel	Grant	Mary Higginbotham				
41	13	9	Wetzel	Grant	Mary Higginbotham				
42	13	27.1	Wetzel	Grant	Jamery Collins				
43	9	45.1	Wetzel	Grant	Donald J. Dulaney				
44	9	52	Wetzel	Grant	Norman Derby				
45	14	8	Wetzel	Grant	Esther R. Coon				
46	14	10	Wetzel	Grant	John W. Woyoff & Carolyn B. McGill				
47	14	18	Wetzel	Grant	John W. Woyoff & Carolyn B. McGill				
48	14	17	Wetzel	Grant	John W. Woyoff & Carolyn B. McGill				
49	14	16	Wetzel	Grant	John W. Woyoff & Carolyn B. McGill				
50	9	40	Wetzel	Grant	Sherrilyn Snider				
51	9	65	Wetzel	Grant	Terril L. & Jason D. Bealy				
52	9	43.2	Wetzel	Grant	Terril L. Bealy				
53	9	52.1	Wetzel	Grant	Norman R. & Vivian L. Derby				
54	19	12.1	Wetzel	Grant	Liberty Midstream & Resources LLC				
55	14	23	Wetzel	Grant	Equiflex LP				
56	14	26	Wetzel	Grant	Dale C. Eastham, et al.				
57	14	39.3	Wetzel	Grant	Dale C. Eastham, et al.				
58	9	54	Wetzel	Grant	Jack L. & Leanna C. Barnette				
59	9	55	Wetzel	Grant	Jack L. & Leanna C. Barnette				
60	14	9	Wetzel	Grant	Laurens Rice				
61	14	11	Wetzel	Grant	Thomas J. Pucka, et al.				
62	14	19	Wetzel	Grant	Crestal Forest Resources Company				
63	14	25	Wetzel	Grant	Clare Brookhous				
64	14	24	Wetzel	Grant	EQT Production Company				
65	14	29	Wetzel	Grant	Mountaintop Valley Pipeline LLC				
66	10	5	Wetzel	Grant	Roger K. & Shirley K. Hinerman				
67	10	7	Wetzel	Grant	Florence E. Kloczyne				
68	14	42	Wetzel	Grant	Donald J. Dulaney				
69	14	19.1	Wetzel	Grant	Sean L. Shvedden				
70	14	40	Wetzel	Grant	Donald J. Dulaney, Jr.				
71	19	8	Wetzel	Grant	Marlow Liberty Midstream & Resources LLC				
72	19	8.1	Wetzel	Grant	Mobley Community Educational Outreach Services				
73	19	7.1	Wetzel	Grant	B. J. Kloczyne Cemetery				
74	19	7.1	Wetzel	Grant	B. J. Kloczyne Cemetery				



As Drilled Well Information:
 BIG245 110H coordinates are
 NAD 83 UTM N: 4,382,948.04 E: 537,031.04
 BIG245 110H Kick Out Point coordinates are
 NAD 83 UTM N: 4,382,948.80 E: 537,031.01
 BIG245 110H Landing Point coordinates are
 NAD 83 UTM N: 4,382,948.04 E: 537,031.04
 BIG245 110H Bottom Hole coordinates are
 NAD 83 UTM N: 4,378,251.57 E: 540,252.87
 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.

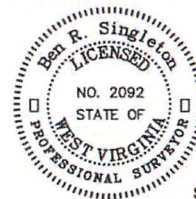
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85	19	8	Wetzel	Grant	Donald J. Dulaney, Jr.	71.80
86	19	17	Wetzel	Grant	Edward L. Titas	48.50
87	19	18	Wetzel	Grant	Florence E. Kloczyne	9.27
88	19	8.1	Wetzel	Grant	EQT Production Company	83.06
90	19	27	Wetzel	Grant	Florence Kloczyne	201.00

Lot/Block No.	Owner	Acres
125372	Raymond P. Gaston and Pamela J. Gaston, et al.	81
125374	Jordan Zachary Pigg, et al.	100
125445	City USA Inc., et al.	121
125424	Sherrilyn Snider	80
125425	Sherrilyn Louise Snider, et al.	20
110735	Jacob Francis Shreve II, et al.	22
125375	Jacob Francis Shreve II aka Jacob F. Shreve, et al.	62
125394	Esther R. Coon, et al.	80
125423	AMP Fund III, L.P., et al.	65
700740	EQT Production Company	1003.75
125499	Bounty Minerals LLC	97
1018113	Temara L. Donohue Rita Temara Lynn Hizenbaugh, et al.	59.5
173648002	The William B. and Pamela S. Francis Joint Revocable Living Trust dated 2/12/2018, et al.	50.50
12702016	Thomas L. Lewis, et al.	51
127091000	New Opic, Inc., et al.	40 of 31,161.561
105090000	Jamies Joe Price	26.5
115114000	Lloyd Joe Price	10
136407000	Three Rivers Royalty II LLC, et al.	38
134530001	John W. Kloczyne Jr., et al.	180
200645	Carmen Lee Allen, et al.	808



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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	07/25/2023	26124	25962	36	Marcellus
3	07/25/2023	25943	25782	36	Marcellus
4	07/26/2023	25763	25601	36	Marcellus
5	07/27/2023	25582	25400	40	Marcellus
6	07/28/2023	25381	25198	40	Marcellus
7	07/28/2023	25179	24997	40	Marcellus
8	07/28/2023	24978	24795	40	Marcellus
9	07/29/2023	24776	24594	40	Marcellus
10	07/29/2023	24575	24392	40	Marcellus
11	07/30/2023	24373	24191	40	Marcellus
12	07/30/2023	24172	23989	40	Marcellus
13	07/31/2023	23970	23788	40	Marcellus
14	07/31/2023	23769	23586	40	Marcellus
15	07/31/2023	23567	23385	40	Marcellus
16	08/02/2023	23366	23183	40	Marcellus
17	08/02/2023	23164	22982	40	Marcellus
18	08/03/2023	22963	22780	40	Marcellus
19	08/04/2023	22761	22579	40	Marcellus
20	08/04/2023	22560	22377	40	Marcellus
21	08/05/2023	22358	22176	40	Marcellus
22	08/05/2023	22157	21974	40	Marcellus
23	08/05/2023	21955	21773	40	Marcellus
24	08/06/2023	21754	21571	40	Marcellus
25	08/06/2023	21552	21370	40	Marcellus
26	08/07/2023	21351	21168	40	Marcellus
27	08/08/2023	21149	20967	40	Marcellus
28	08/09/2023	20948	20765	40	Marcellus
29	08/09/2023	20746	20564	40	Marcellus
30	08/10/2023	20545	20362	40	Marcellus
31	08/10/2023	20343	20161	40	Marcellus
32	08/11/2023	20142	19959	40	Marcellus
33	08/11/2023	19940	19758	40	Marcellus
34	08/14/2023	19739	19556	40	Marcellus
35	08/17/2023	19537	19355	40	Marcellus
36	08/17/2023	19336	19153	40	Marcellus
37	08/18/2023	19134	18952	40	Marcellus
38	08/18/2023	18933	18750	40	Marcellus
39	08/19/2023	18731	18549	40	Marcellus
40	08/20/2023	18530	18347	40	Marcellus
41	08/20/2023	18328	18146	40	Marcellus
42	08/21/2023	18127	17944	40	Marcellus
43	08/21/2023	17925	17743	40	Marcellus
44	08/22/2023	17724	17541	40	Marcellus

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45	08/22/2023	17522	17340	40	Marcellus
46	08/22/2023	17321	17138	40	Marcellus
47	08/23/2023	17119	16937	40	Marcellus
48	08/23/2023	16918	16735	40	Marcellus
49	08/23/2023	16716	16534	40	Marcellus
50	08/24/2023	16515	16332	40	Marcellus
51	08/24/2023	16313	16131	40	Marcellus
52	08/24/2023	16112	15929	40	Marcellus
53	08/25/2023	15910	15728	40	Marcellus
54	08/25/2023	15709	15526	40	Marcellus
55	08/26/2023	15507	15325	40	Marcellus
56	08/26/2023	15306	15123	40	Marcellus
57	08/26/2023	15104	14922	40	Marcellus
58	08/27/2023	14903	14720	40	Marcellus
59	08/27/2023	14701	14519	40	Marcellus
60	08/27/2023	14500	14317	40	Marcellus
61	08/28/2023	14298	14116	40	Marcellus
62	08/28/2023	14097	13914	40	Marcellus
63	08/28/2023	13895	13713	40	Marcellus
64	08/29/2023	13694	13511	40	Marcellus
65	08/29/2023	13492	13310	40	Marcellus
66	08/29/2023	13291	13108	40	Marcellus
67	08/30/2023	13089	12907	40	Marcellus
68	08/30/2023	12888	12705	40	Marcellus
69	08/31/2023	12686	12504	40	Marcellus
70	08/31/2023	12485	12302	40	Marcellus
71	09/01/2023	12283	12101	40	Marcellus
72	09/01/2023	12082	11899	40	Marcellus
73	09/02/2023	11880	11698	40	Marcellus
74	09/02/2023	11679	11496	40	Marcellus
75	09/02/2023	11477	11295	40	Marcellus
76	09/02/2023	11276	11093	40	Marcellus
77	09/03/2023	11074	10892	40	Marcellus
78	09/03/2023	10873	10690	40	Marcellus
79	09/03/2023	10671	10489	40	Marcellus
80	09/04/2023	10470	10287	40	Marcellus
81	09/04/2023	10268	10086	40	Marcellus
82	09/05/2023	10067	9884	40	Marcellus
83	09/05/2023	9865	9683	40	Marcellus
84	09/05/2023	9664	9481	40	Marcellus
85	09/07/2023	9462	9280	40	Marcellus
86	09/07/2023	9261	9078	40	Marcellus
87	09/07/2023	9059	8877	40	Marcellus
88	09/07/2023	8858	8675	40	Marcellus
89	09/07/2023	8656	8474	40	Marcellus
90	09/07/2023	8455	8272	40	Marcellus
91	09/08/2023	8253	8071	40	Marcellus

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Stimulation Data

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Stage #	Start/End Date	Avg Pump Rate (BPM)	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	07/25/2023	90	9143	6207	4651	176128	4376	
2	07/26/2023	98	9183	5861	4953	396338	9833	
3	07/26/2023	99	9184	6310	5256	396000	9414	
4	07/27/2023	98	9060	6699	5374	396098	9431	
5	07/28/2023	98	9124	6651	4997	440215	10330	
6	07/28/2023	100	9041	3933	5665	440126	11123	
7	07/29/2023	100	9044	6489	5255	440274	10381	
8	07/29/2023	100	9207	6718	5278	440065	10413	
9	07/29/2023	99	9268	6346	5112	440109	10286	
10	07/30/2023	98	9205	6280	5047	440144	10273	
11	07/30/2023	100	9129	6179	5159	440175	10262	
12	07/31/2023	99	9050	6287	5703	440453	10467	
13	07/31/2023	99	9088	6289	4178	440193	10342	
14	08/01/2023	100	9081	6172	4996	440105	10233	
15	08/02/2023	99	8734	5950	5550	440215	10347	
16	08/02/2023	100	8908	6067	5114	440254	10233	
17	08/03/2023	99	8873	6152	5015	440107	10284	
18	08/04/2023	100	8774	6057	5182	440219	10286	
19	08/04/2023	100	9222	6100	4907	440167	10668	
20	08/05/2023	99	8920	5952	4858	440115	10224	
21	08/05/2023	100	8992	5781	5136	440449	10393	
22	08/06/2023	99	8840	5998	4965	440102	10196	
23	08/06/2023	99	8733	6297	4948	440420	10259	
24	08/06/2023	100	8827	5842	5124	440491	10286	
25	08/07/2023	100	8667	5433	4831	440095	10307	
26	08/08/2023	99	8980	5764	4994	440117	10245	
27	08/09/2023	100	8716	5663	5064	440094	10194	
28	08/10/2023	99	8539	6064	5036	440033	10277	
29	08/10/2023	100	8760	6257	4671	440506	10235	
30	08/11/2023	100	9001	6172	5107	440056	10192	
31	08/11/2023	100	9076	6086	4971	440003	10158	
32	08/12/2023	100	8818	6170	4580	439999	10189	
33	08/14/2023	100	8468	5861	4939	440398	10176	
34	08/17/2023	100	9035	6604	5157	440131	10092	
35	08/17/2023	99	9055	6512	4943	440189	10178	
36	08/18/2023	99	8942	6306	4853	440131	10048	
37	08/18/2023	93	9086	6048	4437	440041	10140	
38	08/19/2023	100	8785	5983	4693	440082	10138	
39	08/20/2023	100	8398	6450	4301	440178	10091	
40	08/21/2023	100	8735	6139	4292	440094	10120	
41	08/21/2023	100	8406	6399	4420	440130	10050	
42	08/21/2023	100	8573	6032	4649	440100	10095	
43	08/22/2023	99	8506	5858	4118	440072	10035	

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44	08/22/2023	100	8300	5510	4644	440113	10065
45	08/23/2023	100	8716	5872	4331	440193	10037
46	08/23/2023	100	8684	6225	4148	440223	10041
47	08/23/2023	100	8404	6117	4253	440218	10018
48	08/23/2023	100	8330	6009	4839	440405	10198
49	08/24/2023	99	8825	5934	4195	440204	10018
50	08/24/2023	100	8214	5951	4692	440018	10010
51	08/24/2023	100	8378	6231	5250	440000	10018
52	08/25/2023	100	8575	6407	4484	440113	9971
53	08/25/2023	100	8130	5758	4360	440043	10015
54	08/26/2023	87	8880	5343	4359	440015	9911
55	08/26/2023	100	8064	6238	4398	440075	9995
56	08/27/2023	99	8074	6037	4228	440043	9976
57	08/27/2023	99	8235	6336	4367	440199	9976
58	08/27/2023	100	8169	6398	4632	440051	9970
59	08/27/2023	100	8115	6421	4493	440246	9968
60	08/28/2023	99	8311	6563	4366	440121	9943
61	08/28/2023	100	8123	5920	4436	440084	9938
62	08/28/2023	95	7919	6307	4242	440034	9947
63	08/29/2023	98	7793	5937	4402	440037	9913
64	08/29/2023	98	7740	5512	4357	440045	9810
65	08/29/2023	100	7559	5819	4276	440070	9909
66	08/30/2023	100	7767	5996	4267	440103	9921
67	08/31/2023	100	7955	6220	4865	439982	9897
68	08/31/2023	100	7850	5808	4496	440394	9933
69	08/31/2023	100	7763	6577	5404	440391	9912
70	09/01/2023	100	7607	5805	4836	440185	9764
71	09/01/2023	100	7688	5975	4613	440364	9883
72	09/02/2023	100	7621	5941	4777	440245	9912
73	09/02/2023	100	7475	5756	5000	440418	9897
74	09/02/2023	100	7613	5867	4394	440416	9774
75	09/03/2023	99	7499	5599	4339	440222	9877
76	09/03/2023	100	7560	5432	4225	440136	9869
77	09/03/2023	100	7648	5801	5046	440364	9831
78	09/03/2023	100	7496	5703	4879	440379	9852
79	09/04/2023	100	7355	5938	4825	440119	9836
80	09/04/2023	100	7569	5932	4327	440401	9845
81	09/05/2023	100	7442	6189	4968	440143	9786
82	09/05/2023	100	7329	5598	4989	440380	9814
83	09/06/2023	100	7490	6034	4375	440108	9825
84	09/06/2023	100	7252	6019	4773	440234	9765
85	09/07/2023	100	7648	5978	5165	440178	10395
86	09/07/2023	100	7417	5576	4712	440362	10422
87	09/07/2023	100	7521	5797	5328	440380	9782
88	09/07/2023	100	7365	5870	4951	440218	9741
89	09/08/2023	100	7610	6089	5540	440206	9755
90	09/08/2023	100	7611	5796	5258	440116	9753

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91	09/08/2023	100	7440	5356	4735	440422	9746
92	09/08/2023	100	7449	5682	4977	435516	9789

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/14/2023
Job End Date:	9/8/2023
State:	West Virginia
County:	Wetzel
API Number:	47-103-03444-00-00
Operator Name:	EQT Production
Well Name and Number:	BIG245 110H
Latitude:	39.59546360
Longitude:	-80.56871160
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,654
Total Base Water Volume (gal):	38,619,966
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	88.80515	None
Sand (Proppant)	EQT	Proppant	Silica Substrate	14808-60-7	100.00000	11.04854	None
Clearal 268	ChemStream	Biocide	Non-hazardous substances	Proprietary	80.00000	0.00900	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	Copolymer of 2-propenamide	Proprietary	30.00000	0.00811	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor	Non-hazardous substances	Proprietary	90.00000	0.00769	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	Petroleum Distillate	64742-47-8	20.00000	0.00360	None
Enviro-Syn HCR-7000-WL	Evolution Well Services	Acid	Proprietary	Proprietary	20.00000	0.00131	None
Clearal 268	ChemStream	Biocide	Glutaraldehyde	111-30-8	20.00000	0.00056	None
Enviro-Syn HCR-7000-WL	Evolution Well Services	Acid					

			Proprietary	Proprietary	10.0000	0.00033	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid)(BHMT)	34690-00-1	10.0000	0.00010	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Oleic Acid Diethanolamide	93-83-4	2.0000	0.00004	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Alcohols, C12-16, ethoxylated	68551-12-2	2.0000	0.00004	None
Clearal 268	ChemStream	Biocide					
			Quaternary Ammonium Compounds	68424-85-1	3.0000	0.00001	None
Clearal 268	ChemStream	Biocide					
			Didecyl dimethyl ammonium chloride	7173-51-5	3.0000	0.00001	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Ammonium chloride ((NH4)Cl)	12125-02-9	1.0000	0.00001	None
Clearal 268	ChemStream	Biocide					
			Ethanol	64-17-5	1.5000	0.0000	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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