

WR-35  
Rev. 8/23/13

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

API 47-103-03434 County Wetzel District Grant  
Quad Big Run Pad Name BIG464 Field/Pool Name N/A  
Farm name EQT Production Company Well Number BIG464 7H (L002953)  
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 4,379,885.30 Easting 541,536.12  
Landing Point of Curve Northing 4,379,976.35 Easting 541,328.46  
Bottom Hole Northing 4,384,113.45 Easting 538,752.19

Elevation (ft) 1246' 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 14.10 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 01/27/2022 Date drilling commenced 09/27/2021 Date drilling ceased 04/27/2022  
Date completion activities began 04/09/2023 Date completion activities ceased 08/07/2023  
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

Freshwater depth(s) ft 96,175,239,419 Open mine(s) (Y/N) depths N WV Department of Environmental Protection  
Salt water depth(s) ft 1711,1835 Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 548,782,878,899 Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:

**APPROVED**

Reviewed by: [Signature]  
**03/01/2024**

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API 47- 103 - 03434

Farm name EQT Production Company Well number BIG464 7H (L002953)

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"	1025'	NEW	J-55 54.5#	885'	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	2450'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-1/2"	6"	23,784'	NEW	P-110 24#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 1031' 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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (GL)	WOC (hrs)
Conductor	CLASS A	83	15.6	1.18	98	0	8+
Surface	CLASS A	920	16.0	1.13	1039	0	8
Coal						0	8
Intermediate 1	CLASS A	897	15.6	1.18	1058		
Intermediate 2							
Intermediate 3							
Production	CLASS A	4490	15.2	1.04	4669	1031'	8+
Tubing							

Drillers TD (ft) 23,798' Loggers TD (ft) N/A  
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 2553'

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 1955' \_\_\_\_\_

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 \_\_\_\_\_

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API 47- 103 - 03434 Farm name EQT Production Company Well number BIG464 7H (L002953)

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 Ste 125 City The Woodlands State TX Zip 77380

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Well # BIG464 7H (L002953) Final Formations API# 47-103-03434				
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	548	548
Waynesburg Coal	548	548	550	550
Sand/Shale	550	550	782	782
Mapleton Coal	782	782	784	784
Sand/Shale	784	784	878	878
Sewickley Coal	878	878	880	880
Sand/Shale	880	880	899	899
Pittsburgh Coal	899	899	908	908
Sand/Shale	908	908	1,793	1,793
Maxton	1,793	1,793	1,972	1,972
Sand/Shale	1,972	1,972	2,235	2,235
Big Lime	2,235	2,235	2,311	2,311
Sand/Shale	2,311	2,311	2,323	2,323
Big Injun	2,323	2,323	2,392	2,392
Sand/Shale	2,392	2,392	2,521	2,521
Weir	2,521	2,521	2,671	2,671
Sand/Shale	2,671	2,671	2,736	2,736
Gantz	2,736	2,736	2,772	2,771
Sand/Shale	2,772	2,771	2,877	2,876
Fifty foot	2,877	2,876	2,933	2,932
Sand/Shale	2,933	2,932	2,972	2,970
Thirty foot	2,972	2,970	2,999	2,997
Sand/Shale	2,999	2,997	3,028	3,026
Gordon	3,028	3,026	3,073	3,071
Sand/Shale	3,073	3,071	3,098	3,096
Forth Sand	3,098	3,096	3,111	3,109
Sand/Shale	3,111	3,109	3,170	3,168
Fifth Sand	3,170	3,168	3,189	3,187
Sand/Shale	3,189	3,187	3,223	3,221
Bayard	3,223	3,221	3,241	3,239
Sand/Shale	3,241	3,239	3,646	3,642
Warren	3,646	3,642	3,670	3,666
Sand/Shale	3,670	3,666	3,766	3,762
Speechley	3,766	3,762	3,814	3,810
Sand/Shale	3,814	3,810	4,124	4,118
Balltown A	4,124	4,118	4,139	4,133
Sand/Shale	4,139	4,133	4,609	4,602
Riley	4,609	4,602	4,651	4,644
Sand/Shale	4,651	4,644	5,238	5,227
Benson	5,238	5,227	5,287	5,276
Sand/Shale	5,287	5,276	5,652	5,639
Alexander	5,652	5,639	5,719	5,706
Elks	5,719	5,706	6,764	6,747
Sonyea	6,764	6,747	6,959	6,939
Middlesex	6,959	6,939	7,151	7,112

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Genesee	7,151	7,112	7,274	7,206
Geneseo	7,274	7,206	7,316	7,234
Tully	7,316	7,234	7,352	7,256
Hamilton	7,352	7,256	7,557	7,357
Marcellus	7,557	7,357	23,798	7,451

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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	04/16/2023	23683	23522	36	Marcellus
3	04/16/2023	23503	23342	36	Marcellus
4	04/16/2023	23323	23162	36	Marcellus
5	04/17/2023	23143	22982	36	Marcellus
6	04/17/2023	22963	22802	36	Marcellus
7	04/17/2023	22783	22622	36	Marcellus
8	04/17/2023	22603	22442	36	Marcellus
9	04/18/2023	22423	22262	36	Marcellus
10	04/18/2023	22243	22082	36	Marcellus
11	04/18/2023	22063	21902	36	Marcellus
12	04/19/2023	21883	21722	36	Marcellus
13	04/19/2023	21703	21542	36	Marcellus
14	04/19/2023	21523	21342	40	Marcellus
15	04/20/2023	21323	21142	40	Marcellus
16	04/20/2023	21123	20942	40	Marcellus
17	04/21/2023	20923	20742	40	Marcellus
18	04/21/2023	20724	20543	40	Marcellus
19	04/21/2023	20524	20343	40	Marcellus
20	04/21/2023	20325	20144	40	Marcellus
21	04/22/2023	20125	19944	40	Marcellus
22	04/22/2023	19926	19745	40	Marcellus
23	04/22/2023	19726	19545	40	Marcellus
24	04/23/2023	19527	19346	40	Marcellus
25	04/23/2023	19327	19146	40	Marcellus
26	04/24/2023	19128	18947	40	Marcellus
27	04/24/2023	18928	18747	40	Marcellus
28	04/24/2023	18729	18548	40	Marcellus
29	04/25/2023	18529	18348	40	Marcellus
30	04/25/2023	18330	18149	40	Marcellus
31	04/25/2023	18130	17949	40	Marcellus
32	04/26/2023	17931	17750	40	Marcellus
33	04/26/2023	17731	17550	40	Marcellus
34	04/26/2023	17532	17351	40	Marcellus
35	04/26/2023	17332	17151	40	Marcellus
36	04/27/2023	17133	16952	40	Marcellus
37	04/28/2023	16933	16752	40	Marcellus
38	04/29/2023	16734	16553	40	Marcellus
39	04/29/2023	16534	16353	40	Marcellus
40	04/29/2023	16335	16154	40	Marcellus
41	04/30/2023	16135	15954	40	Marcellus
42	04/30/2023	15936	15755	40	Marcellus
43	05/01/2023	15736	15555	40	Marcellus
44	05/01/2023	15537	15356	40	Marcellus

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45	05/20/2023	15337	15156	40	Marcellus
46	05/20/2023	15138	14957	40	Marcellus
47	05/21/2023	14938	14757	40	Marcellus
48	05/23/2023	14739	14558	40	Marcellus
49	05/24/2023	14539	14358	40	Marcellus
50	05/24/2023	14340	14159	40	Marcellus
51	05/25/2023	14140	13959	40	Marcellus
52	06/06/2023	13941	13760	40	Marcellus
53	06/07/2023	13741	13560	40	Marcellus
54	06/07/2023	13542	13361	40	Marcellus
55	06/07/2023	13342	13161	40	Marcellus
56	06/08/2023	13143	12962	40	Marcellus
57	06/08/2023	12943	12762	40	Marcellus
58	06/09/2023	12744	12563	40	Marcellus
59	06/09/2023	12544	12363	40	Marcellus
60	06/10/2023	12345	12164	40	Marcellus
61	06/10/2023	12145	11964	40	Marcellus
62	06/10/2023	11946	11765	40	Marcellus
63	06/10/2023	11746	11565	40	Marcellus
64	06/11/2023	11547	11366	40	Marcellus
65	06/11/2023	11347	11166	40	Marcellus
66	06/11/2023	11148	10967	40	Marcellus
67	06/12/2023	10948	10767	40	Marcellus
68	06/14/2023	10749	10568	40	Marcellus
69	06/14/2023	10549	10368	40	Marcellus
70	06/17/2023	10350	10169	40	Marcellus
71	06/17/2023	10150	9969	40	Marcellus
72	06/17/2023	9951	9770	40	Marcellus
73	06/17/2023	9751	9570	40	Marcellus
74	06/18/2023	9552	9371	40	Marcellus
75	06/18/2023	9352	9171	40	Marcellus
76	06/18/2023	9153	8972	40	Marcellus
77	06/19/2023	8953	8772	40	Marcellus
78	06/20/2023	8754	8573	40	Marcellus
79	06/21/2023	8554	8373	40	Marcellus
80	06/22/2023	8355	8174	40	Marcellus
81	06/25/2023	8155	7974	40	Marcellus
82	06/25/2023	7956	7775	40	Marcellus
83	06/26/2023	7756	7595	36	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	04/11/2023	72	9303	6936	5208	176024	4441.000	
2	04/16/2023	100	9019	5937	4666	396422	10886.000	
3	04/17/2023	98	8678	6305	4944	396098	9388.000	
4	04/17/2023	98	8889	6086	4930	396146	9249.000	
5	04/17/2023	99	9196	5932	5091	396625	9312.000	
6	04/17/2023	99	9156	6264	5410	396364	9325.000	
7	04/17/2023	98	9139	9204	5637	396222	9962.000	
8	04/18/2023	98	9204	6189	5559	396164	9283.000	
9	04/18/2023	98	9129	6164	5322	396626	9311.000	
10	04/18/2023	97	8932	6453	6061	396205	9308.000	
11	04/19/2023	99	9265	6331	5515	396128	9101.000	
12	04/19/2023	98	9239	6052	5739	396432	9189.000	
13	04/19/2023	99	9227	6079	5468	396310	9162.000	
14	04/20/2023	100	9045	5991	5357	440136	10117.000	
15	04/20/2023	98	8943	6330	5601	440390	10232.000	
16	04/21/2023	97	8721	6028	5695	440116	10071.000	
17	04/21/2023	100	9011	5814	5689	440046	10064.000	
18	04/21/2023	100	9120	5543	5912	440479	10028.000	
19	04/21/2023	93	8958	6171	5577	440441	10043.000	
20	04/22/2023	99	9007	6313	6053	440405	10025.000	
21	04/22/2023	98	9118	6276	4643	440836	10040.000	
22	04/22/2023	100	8909	5918	5679	440015	10046.000	
23	04/23/2023	100	9125	6067	5722	440009	9998.000	
24	04/23/2023	97	8827	6056	5759	440047	10258.000	
25	04/24/2023	100	9014	6433	5647	440018	10095.000	
26	04/24/2023	97	9004	6031	4816	440488	9986.000	
27	04/24/2023	100	9005	6459	5945	440033	9984.000	
28	04/25/2023	100	9030	5930	5660	440007	9983.000	
29	04/25/2023	100	8975	6222	5915	440411	9944.000	
30	04/25/2023	100	8971	5870	5496	440025	9905.000	
31	04/26/2023	101	9148	6034	6036	440041	9926.000	
32	04/26/2023	100	9150	6400	5459	440003	9896.000	
33	04/26/2023	100	8828	6061	5802	440387	9902.000	
34	04/27/2023	100	9145	6486	5966	440013	9870.000	
35	04/27/2023	100	8881	6039	5978	440084	9835.771	
36	04/27/2023	100	8989	6110	6089	440004	9868.000	
37	04/29/2023	100	8909	6685	5995	440001	9844.000	
38	04/29/2023	101	8939	6192	6398	440055	9858.000	
39	04/30/2023	100	8950	6621	6159	440005	9877.000	
40	04/30/2023	100	8954	6072	5695	440214	9820.000	
41	04/30/2023	100	8909	6397	5998	440105	9980.000	
42	05/01/2023	100	8787	6634	5772	440066	9814.000	
43	05/01/2023	98	8844	6385	6007	440100	9805.000	

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44	05/20/2023	101	9082	6305	5791	440225	9922.000
45	05/21/2023	100	8654	6886	6171	440489	9827.000
46	05/22/2023	99	8731	6760	6061	440190	10505.000
47	05/23/2023	100	8571	6497	5655	440131	9915.000
48	05/24/2023	100	8581	6750	5370	440395	9835.000
49	05/24/2023	100	8807	6693	5612	440185	9867.000
50	05/25/2023	100	8403	6642	6006	440399	9847.000
51	05/25/2023	98	8363	6126	5759	440053	9866.000
52	06/07/2023	100	8473	6026	5645	440124	10094.000
53	06/07/2023	100	8702	6677	5896	440188	9780.000
54	06/08/2023	100	8279	6433	5996	440081	9816.000
55	06/08/2023	100	8323	5822	5784	440152	9753.000
56	06/09/2023	100	8225	6422	6016	440471	9778.000
57	06/09/2023	100	8843	5941	5664	440471	9861.000
58	06/10/2023	100	8632	6323	5711	440464	9805.000
59	06/10/2023	100	8603	6466	6032	440538	9827.000
60	06/10/2023	100	8530	6347	5671	440117	9806.000
61	06/10/2023	100	8514	6658	5691	440214	9839.000
62	06/11/2023	100	8120	6546	5835	440385	9769.000
63	06/11/2023	100	8225	7026	5578	440109	9773.000
64	06/11/2023	100	8311	6337	5892	440149	9819.000
65	06/12/2023	100	8193	6444	5784	440582	9848.000
66	06/12/2023	100	8423	5562	6477	440119	9763.000
67	06/14/2023	99	8666	5715	5354	440132	19250.000
68	06/14/2023	100	8116	6381	4945	440060	9783.000
69	06/17/2023	100	8242	6666	6019	440117	9743.000
70	06/17/2023	100	7974	6212	6750	440155	9719.000
71	06/17/2023	100	8207	6714	5955	440160	9702.000
72	06/18/2023	99	7809	6456	6093	440382	9688.000
73	06/18/2023	100	7606	6394	5779	440387	9711.000
74	06/18/2023	100	8244	6388	5758	440150	9676.000
75	06/19/2023	100	8059	6421	5594	440440	9586.000
76	06/19/2023	100	8261	6323	5837	440208	9720.000
77	06/20/2023	100	8057	6024	5647	440102	9646.000
78	06/21/2023	100	7950	6009	5862	440209	9646.000
79	06/22/2023	100	7914	6704	5924	440804	9670.000
80	06/25/2023	99	7674	6403	5605	440110	9561.000
81	06/25/2023	100	7837	6450	6106	440101	9668.000
82	06/26/2023	100	8433	6365	5768	440165	9629.000
83	06/27/2023	100	8062	6752	4946	396112	8668.000

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/9/2023
Job End Date:	7/11/2023
State:	West Virginia
County:	Wetzel
API Number:	47-103-03434-00-00
Operator Name:	EQT Production
Well Name and Number:	BIG464 7H
Latitude:	39.56766130
Longitude:	-80.51643580
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,479
Total Base Water Volume (gal):	34,314,536
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	88.75103	None
Sand (Proppant)	EQT	Proppant	Silica Substrate	14808-60-7	100.00000	11.06550	None
Clearal 268	ChemStream	Biocide	Non-hazardous substances	Proprietary	80.00000	0.00902	None
SlimSTREAM SC-398	ChemStream	Scale Inhibitor	Non-hazardous substances	Proprietary	90.00000	0.00760	None
SlimSTREAM FR 9800	ChemStream	Friction Reducer	Copolymer of 2-propenamide	Proprietary	30.00000	0.00607	None
SlimSTREAM FR 9800	ChemStream	Friction Reducer	Petroleum Distillate	64742-47-8	20.00000	0.00270	None
15% H <sub>2</sub> O	Evolution Well Services	Acid	Hydrogen Chloride	7647-01-0	15.00000	0.00206	None
Clearal 268	ChemStream	Biocide	Glutaraldehyde	111-30-8	20.00000	0.00056	None
Plexipol 166	Evolution	Acid Corrosion Inhibitor					

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 WV Department of Environmental Protection

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StimSTREAM SC-398	ChemStream	Scale Inhibitor	Methanol	67-56-1	90.00000	0.00021	None
Ferriplex 66	Evolution	Iron Control	Bis(Hexamethylene Triamine Penta(Methylene Phosphonic Acid)(BHMT)	34690-00-1	10.00000	0.00000	None
StimSTREAM FR 2800	ChemStream	Friction Reducer	Acetic acid	64-19-7	50.00000	0.00000	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	Distillates (petroleum), hydrated light	64742-47-8	25.00000	0.00000	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	Oleic Acid Diethanolamide	93-83-4	2.00000	0.00000	None
Ferriplex 66	Evolution	Iron Control	Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00000	None
Clearal 268	ChemStream	Biocide	Citric Acid	300077-92-9	30.00000	0.00000	None
Clearal 268	ChemStream	Biocide	Diethyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00000	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00000	None
Clearal 268	ChemStream	Biocide	Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00000	None
StimSTREAM FR 2800	ChemStream	Friction Reducer	Ethanol	64-17-5	1.50000	0.00000	None
Plexhib 166	Evolution	Acid Corrosion Inhibitor	Alcohols, C11-14-iso, C13-rich, ethoxylated	76330-21-9	5.00000	0.00000	None
Plexhib 166	Evolution	Acid Corrosion Inhibitor	Propargyl alcohol	107-19-7	5.00000	0.00000	None
EZ-A 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Alcohols, C14-C15, ethoxylated	68951-67-7	7.00000	0.00000	None
EZ-A 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	68909-18-2	25.00000	0.00000	None
EZ-A 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	2-ethylhexanol	104-76-7	5.00000	0.00000	None
EZ-A 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Ethanoic Acid	64-19-7	15.00000	0.00000	None
EZ-A 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Methanol	67-56-1	25.00000	0.00000	None
EZ-A 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Proprietary	Proprietary	10.00000	0.00000	None

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EZ-A 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Ethoxylated Nonylphenols	127087-87-0	5.00000	None
EZ-A 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Proprietary	Proprietary	10.00000	None
EZ-A 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Ethoxylated Alcohols	Proprietary	15.00000	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

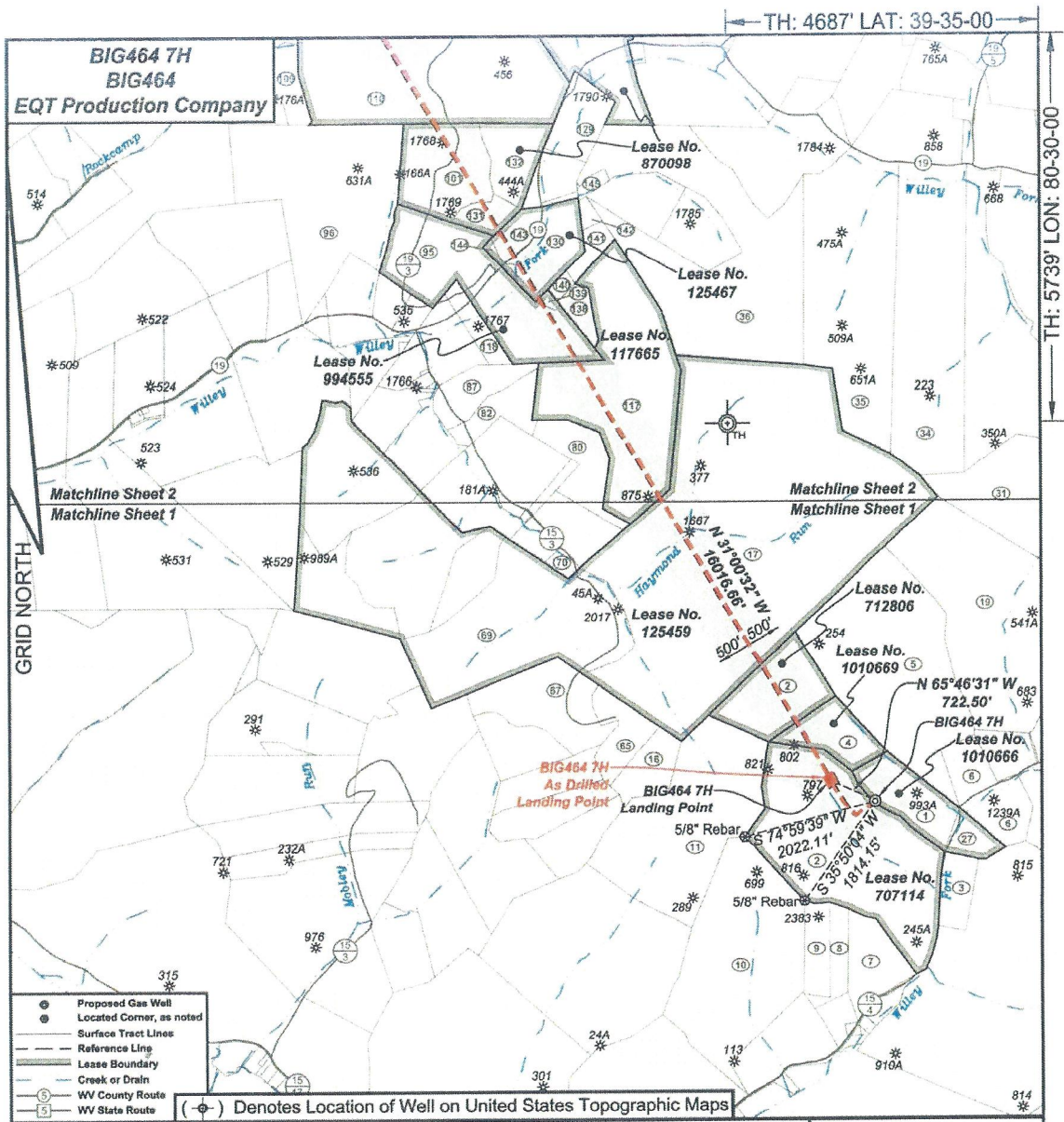
\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

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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Environmental Protection

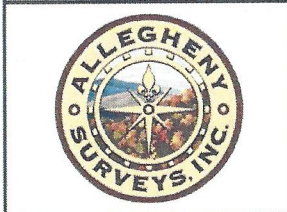
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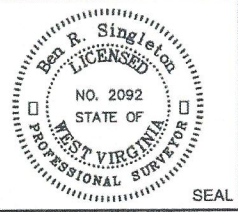
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- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- Ⓢ WV County Route
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(⊕) Denotes Location of Well on United States Topographic Maps

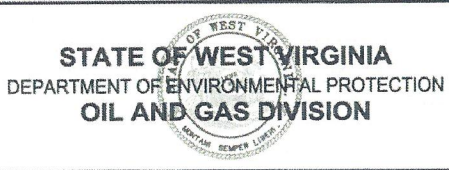


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*Ben R. Singleton*  
P.S. 2092



FILE NO: 125-16  
DRAWING NO: BIG464 7H  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: 1:2500  
PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: May 05 20 22  
OPERATOR'S WELL NO.: BIG464 7H  
API WELL NO  
47 - 103 - 03434  
STATE COUNTY PERMIT

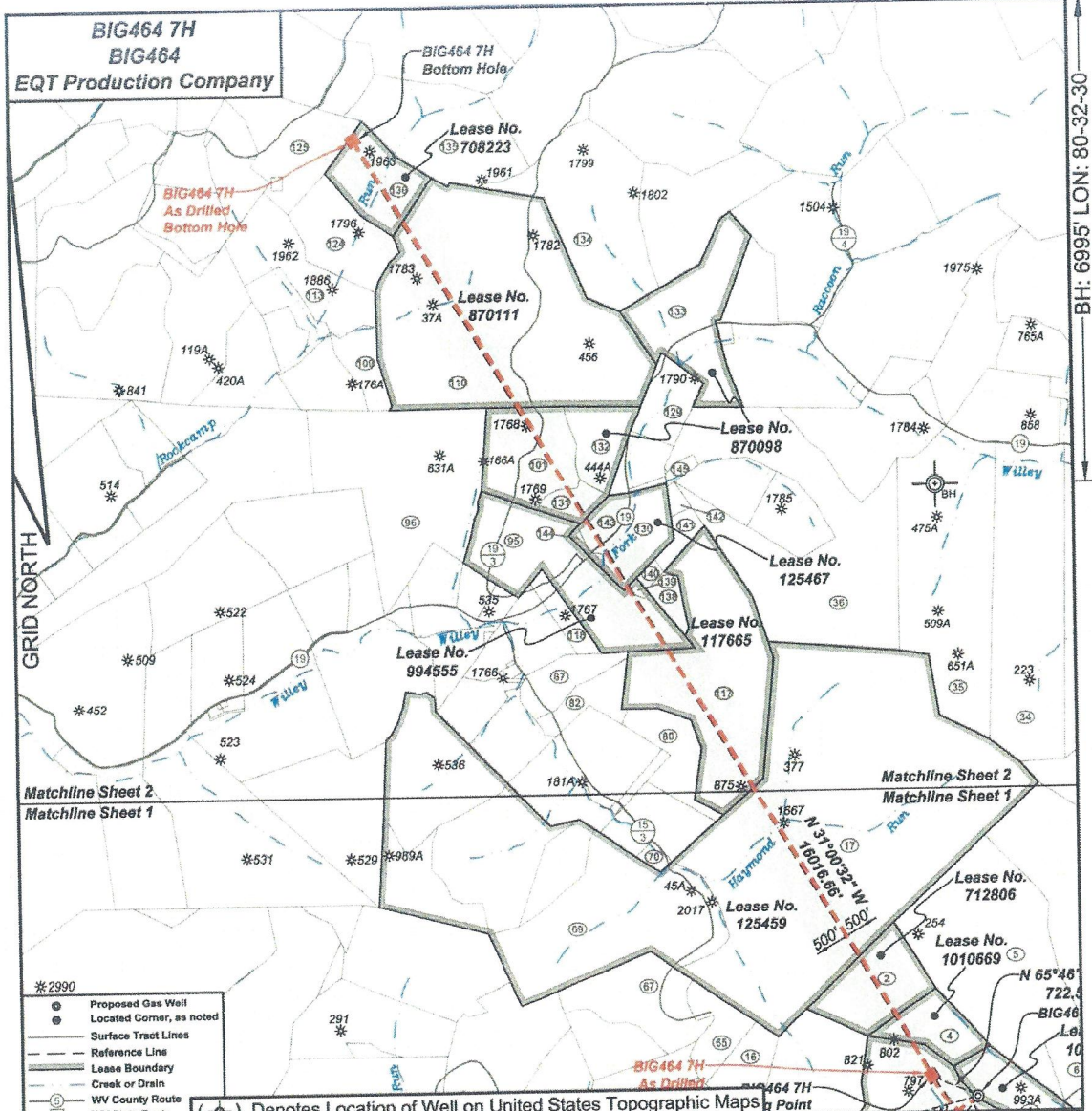
WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: 1246.8' WATERSHED Wiley Fork QUADRANGLE: Big Run  
DISTRICT: Grant COUNTY: Wetzel  
SURFACE OWNER: EQT Production Company ACREAGE: 25.25  
ROYALTY OWNER: Ridgetop Royalties, LLC, et al. LEASE NO: 1010666 ACREAGE: 32  
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: 7,394'

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 28330

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WV Department of Environmental Protection

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- \* 2990
- Proposed Gas Well
- Located Corner, as noted
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(-φ-) Denotes Location of Well on United States Topographic Maps



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

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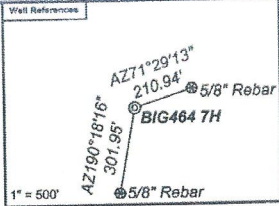
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ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280  
Canonsburg, PA 15317 Bridgeport, WV 26330

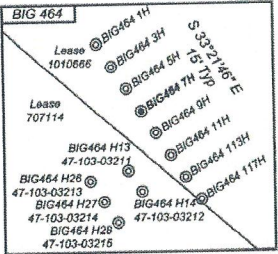
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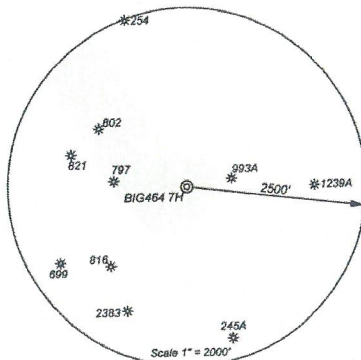
BIG464 7H BIG464 EQT Production Company						
Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	14	34	Wetzel	Grant	EQT Production Company	25.25
2	20	1	Wetzel	Grant	Coastal Forest Resources Company	520.00
3	15	27	Wetzel	Grant	Beverly Lynn Barr Life Estate	10.00
4	14	27	Wetzel	Grant	EQT Production Company	22.00
5	14	20	Wetzel	Grant	EQT Production Company	126.90
6	15	16	Wetzel	Grant	Donald J. D'Luisky	26.00
7	14	45	Wetzel	Grant	Coastal Forest Resources Company	11.06
8	14	44	Wetzel	Grant	Mabel F. Barr	11.00
9	14	43	Wetzel	Grant	Mabel F. Barr	11.01
10	14	42	Wetzel	Grant	Donald J. D'Luisky	111.00
11	14	33	Wetzel	Grant	Albee H. & Hilda B. Canaway	106.00
12	14	32	Wetzel	Grant	Mary Jane Byrard	13.30
13	14	6	Wetzel	Grant	Coastal Forest Resources Company	332.90
14	15	12	Wetzel	Grant	William Bowers & Donald J. D'Luisky	147.50
27			Wetzel	Grant	No Tax Map & Parcel Information	
31	15	5	Wetzel	Grant	William Bowers, et al.	43.20
34	10	28	Wetzel	Grant	Coastal Forest Resources Company	107.00
35	9	30	Wetzel	Grant	Coastal Forest Resources Company	128.00
38	9	35	Wetzel	Grant	Terry L. & Carolyn M. Fry	155.08
85	14	26	Wetzel	Grant	Mary Jane Byrard	14.50
87	14	25	Wetzel	Grant	ET Blue Grass, LLC	35.88
88	14	19	Wetzel	Grant	Coastal Forest Resources Company	136.68
89	14	13	Wetzel	Grant	Coastal Forest Resources Company	2.60
89	14	5	Wetzel	Grant	Dase K. & Sherry Dulaney	21.50
89	9	80	Wetzel	Grant	Jeffery Willey Life Estate	16.50
87	9	59.1	Wetzel	Grant	Clyde R. & Connie L. Fortyce	16.70
95	9	30	Wetzel	Grant	John D. Parks, et al.	73.99
96	9	23	Wetzel	Grant	Stephen B. & Carolyn M. Gentz	110.00
101	9	24	Wetzel	Grant	John D. Parks, et al.	40.00
109	9	18	Wetzel	Grant	W. K. Willey Estate	13.40
110	9	10	Wetzel	Grant	William B. & Pamela Franck	233.37
113	9	6	Wetzel	Grant	James A. Yoho	46.08
117	9	61	Wetzel	Grant	Jimboba Out Mountain Retreat	114.10
118	9	49	Wetzel	Grant	Donald A. Kennedy Life Estate	6.73
124	9	7	Wetzel	Grant	James D. & Collette J. Stevens	34.00
125	4	7	Wetzel	Grant	Earl Bonebrake	45.50
129	9	82	Wetzel	Grant	William B. & Pamela S. Franck	30.50
130	9	32	Wetzel	Grant	Terry L. & Carolyn M. Fry	23.85
131	9	25	Wetzel	Grant	Deborah Fronczak & John Parks	6.98
132	9	25.1	Wetzel	Grant	William B. & Pamela S. Franck	23.20
133	9	11	Wetzel	Grant	Elizabeth Amundson, et al.	53.37
134	9	2	Wetzel	Grant	Liberty Holding Company	74.50
135	4	8	Wetzel	Grant	James A. Yoho	63.00
136	4	15	Wetzel	Grant	James A. Yoho	30.00
138	9	51	Wetzel	Grant	H. J. Zimmerman	6.10
139	9	50	Wetzel	Grant	Terry L. & Carolyn M. Fry	1.30
140	9	51.1	Wetzel	Grant	H. J. Zimmerman	2.00
141	9	35	Wetzel	Grant	Terry L. & Carolyn M. Fry	6.25
142	9	34	Wetzel	Grant	Terry L. & Carolyn M. Fry	3.25
143	9	32.2	Wetzel	Grant	John D. Parks & Deborah Fronczak	8.95
144	9	31	Wetzel	Grant	John D. Parks, et al.	1.20
145	9	32.1	Wetzel	Grant	Terry L. & Carolyn M. Fry	3.40



As Drilled Well Information:  
 BIG464 7H coordinates are  
 NAD 27 N: 390,455.08 E: 1,713,406.23  
 NAD 83 UTM N: 4,379,865.30 E: 541,536.12  
 BIG464 7H Kick Out Point coordinates are  
 NAD 27 N: 990,452.35 E: 1,713,414.03  
 NAD 83 UTM N: 4,379,864.24 E: 541,538.52  
 BIG464 7H Landing Point coordinates are  
 NAD 27 N: 390,766.10 E: 1,712,729.77  
 NAD 83 UTM N: 4,379,976.35 E: 541,328.46  
 BIG464 7H Bottom Hole coordinates are  
 NAD 27 N: 404,462.95 E: 1,704,502.18  
 NAD 83 UTM N: 4,384,113.45 E: 538,752.19  
 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.

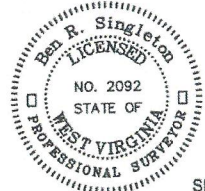


Lease No.	Owner	Acres
707114	Ridgetop Royalties, LLC, et al.	78
1010666	Ridgetop Royalties, LLC, et al.	22.5
712806	Ridgetop Royalties, LLC, et al.	42
125459	Randel J. Hartman, et al.	693
117665	AMP Fund III, L.P., et al.	150
994555	Sheman Hill, et al.	40.5
125467	Roger K. Hinerman, et al.	34
870098	David L. Hostutler, et al.	197
870111	Three Rivers Royalty II, LLC, et al.	234
708223	Ridgetop Royalties, LLC, et al.	22



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 MINIMUM DEGREE OF ACCURACY:  
 1:2500  
 PROVEN SOURCE OF ELEVATION:  
 NGS CORS Station

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

DATE: May 05 20 22  
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 API WELL NO  
 47 - 103 - 03434  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION: ELEVATION: 1246.8' WATERSHED: Wiley Fork QUADRANGLE: Big Run  
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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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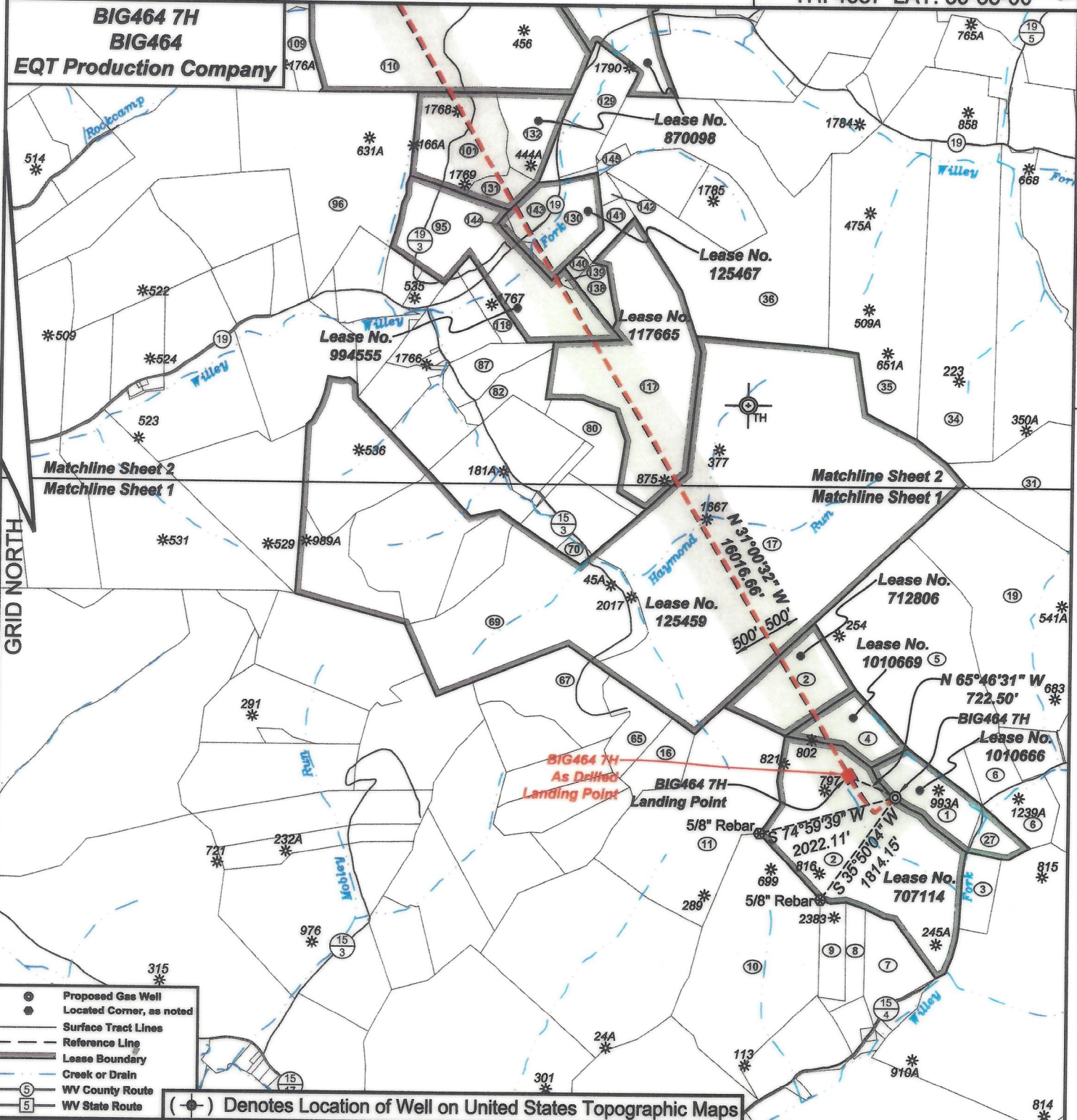
03/01/2024



TH: 4687' LAT: 39-35-00

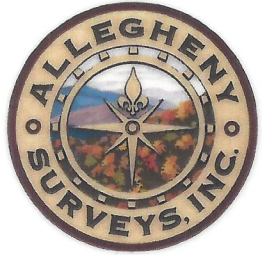
TH: 5739' LON: 80-30-00

**BIG464 7H**  
**BIG464**  
**EQT Production Company**



- ⊙ 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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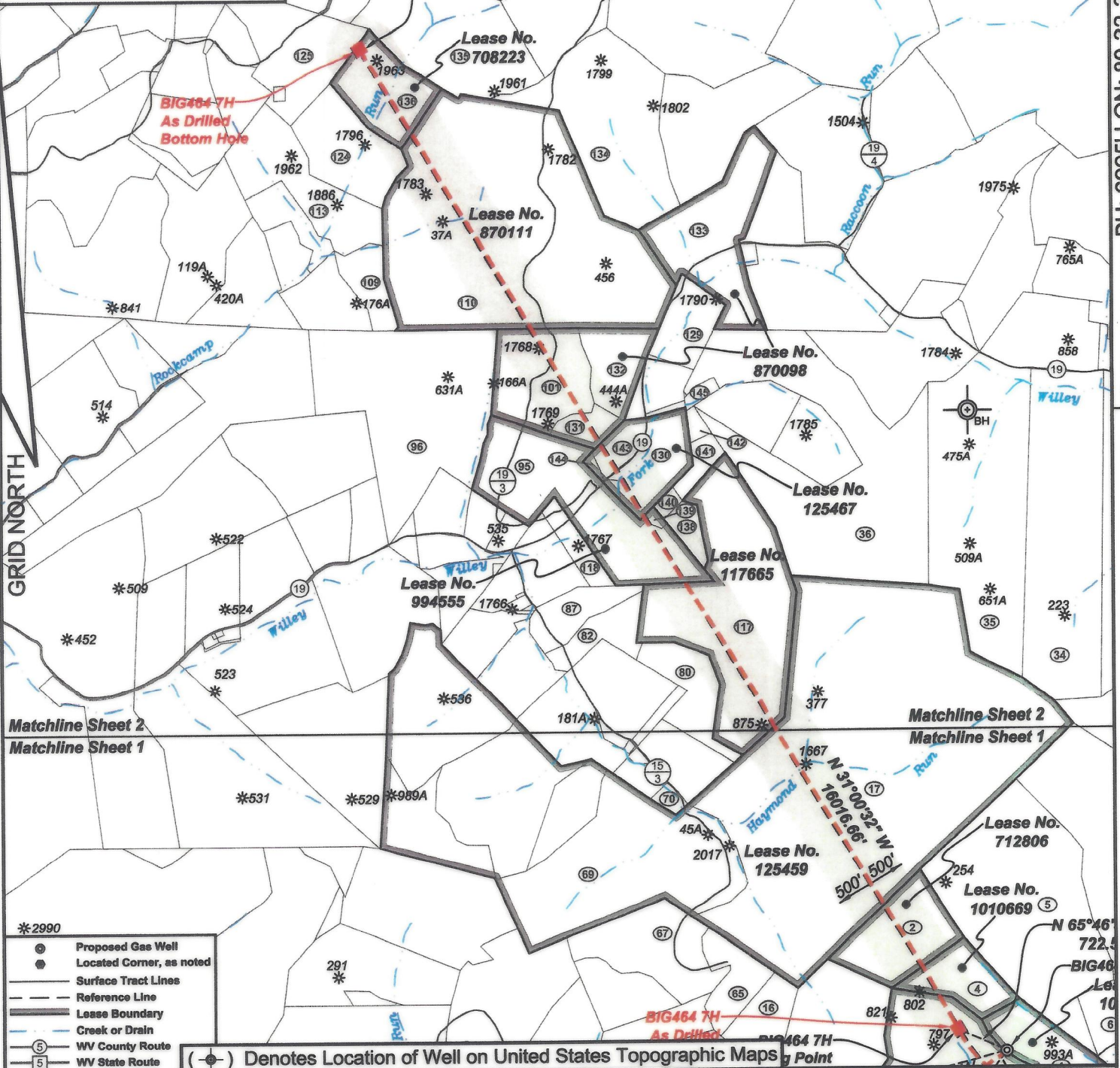
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03/01/2024

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

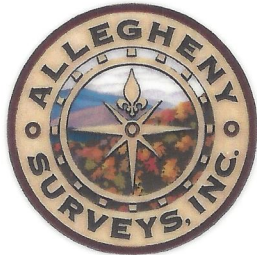


**BIG464 7H**  
**BIG464**  
**EQT Production Company**



- \*2990
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**OIL AND GAS DIVISION**

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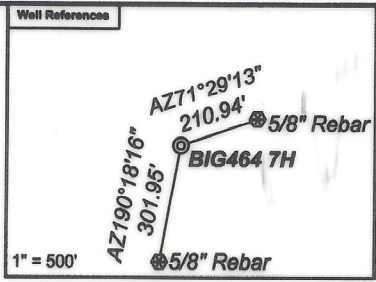
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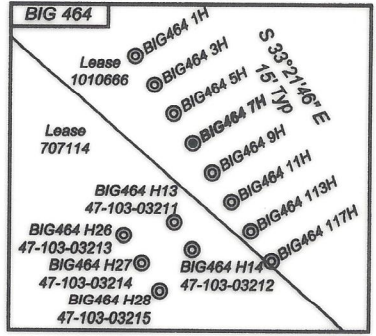


**BIG464 7H**  
**BIG464**  
**EQT Production Company**

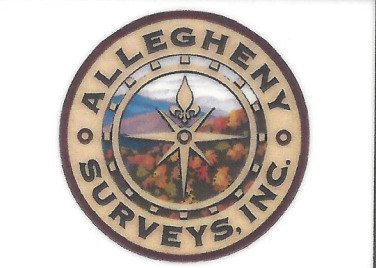
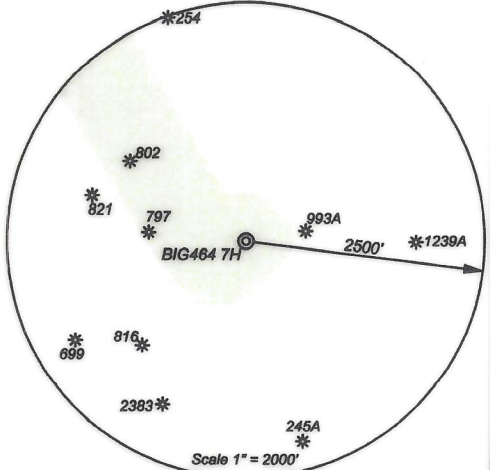
Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	14	34	Wetzel	Grant	EQT Production Company	25.25
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4	14	27	Wetzel	Grant	EQT Production Company	22.00
5	14	20	Wetzel	Grant	EQT Production Company	128.50
6	15	16	Wetzel	Grant	Donald J. D'Lusky	25.00
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8	14	44	Wetzel	Grant	Mabel F. Barr	11.00
9	14	43	Wetzel	Grant	Mabel F. Barr	11.01
10	14	42	Wetzel	Grant	Donald J. D'Lusky	111.00
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16	14	32	Wetzel	Grant	Mary Jane Byard	13.30
17	14	6	Wetzel	Grant	Coastal Forest Resources Company	332.90
19	15	12	Wetzel	Grant	William Bowers & Donald J. D'Lusky	147.50
27			Wetzel	Grant	No Tax Map & Parcel Information	
31	15	5	Wetzel	Grant	William Bowers, et al.	43.20
34	10	28	Wetzel	Grant	Coastal Forest Resources Company	107.00
35	9	39	Wetzel	Grant	Coastal Forest Resources Company	128.00
36	9	38	Wetzel	Grant	Terry L. & Carolyn M. Fry	155.08
65	14	28	Wetzel	Grant	Mary Jane Byard	14.50
67	14	25	Wetzel	Grant	ET Blue Grass, LLC	35.88
69	14	19	Wetzel	Grant	Coastal Forest Resources Company	138.66
70	14	13	Wetzel	Grant	Coastal Forest Resources Company	2.90
80	14	5	Wetzel	Grant	Dale K. & Sherry Dulaney	21.50
82	9	60	Wetzel	Grant	Jeffery Willey Life Estate	16.50
87	9	59.1	Wetzel	Grant	Clydie R. & Connie L. Fordyce	16.70
95	9	30	Wetzel	Grant	John D. Parks, et al.	73.86
96	9	23	Wetzel	Grant	Stephen B. & Carolyn M. Gantz	119.00
101	9	24	Wetzel	Grant	John D. Parks, et al.	40.00
109	9	18	Wetzel	Grant	W. K. Willey Estate	13.40
110	9	10	Wetzel	Grant	William B. & Pamela Francik	233.37
113	9	6	Wetzel	Grant	James A. Yoho	45.06
117	9	61	Wetzel	Grant	Jimboke Quiet Mountain Retreat	114.10
118	9	49	Wetzel	Grant	Donald A. Kennedy Life Estate	8.73
124	9	7	Wetzel	Grant	James D. & Collette J. Streets	34.00
125	4	7	Wetzel	Grant	Earl Sloneking	45.50
129	9	62	Wetzel	Grant	William B. & Pamela S. Francik	30.60
130	9	32	Wetzel	Grant	Terry L. & Carolyn M. Fry	23.85
131	9	25	Wetzel	Grant	Deborah Fronczak & John Parks	6.98
132	9	25.1	Wetzel	Grant	William B. & Pamela S. Francik	23.20
133	9	11	Wetzel	Grant	Elizabeth Amundson, et al.	53.37
134	9	2	Wetzel	Grant	Liberty Holding Company	74.50
135	4	8	Wetzel	Grant	James A. Yoho	63.00
136	4	15	Wetzel	Grant	James A. Yoho	30.00
138	9	51	Wetzel	Grant	H. J. Zimmerman	6.10
139	9	50	Wetzel	Grant	Terry L. & Carolyn M. Fry	1.30
140	9	51.1	Wetzel	Grant	H. J. Zimmerman	2.00
141	9	35	Wetzel	Grant	Terry L. & Carolyn M. Fry	6.25
142	9	34	Wetzel	Grant	Terry L. & Carolyn M. Fry	3.25
143	9	32.2	Wetzel	Grant	John D. Parks & Deborah Fronczak	8.95
144	9	31	Wetzel	Grant	John D. Parks, et al.	1.20
145	9	32.1	Wetzel	Grant	Terry L. & Carolyn M. Fry	3.40



**As Drilled Well Information:**  
**BIG464 7H coordinates are**  
NAD 27 N: 390,455.96 E: 1,713,406.23  
NAD 83 UTM N: 4,379,885.30 E: 541,536.12  
**BIG464 7H Kick Out Point coordinates are**  
NAD 27 N: 390,452.35 E: 1,713,414.03  
NAD 83 UTM N: 4,379,884.24 E: 541,538.52  
**BIG464 7H Landing Point coordinates are**  
NAD 27 N: 390,786.10 E: 1,712,729.77  
NAD 83 UTM N: 4,379,976.35 E: 541,328.46  
**BIG464 7H Bottom Hole coordinates are**  
NAD 27 N: 404,482.95 E: 1,704,502.18  
NAD 83 UTM N: 4,384,113.45 E: 538,752.19  
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.

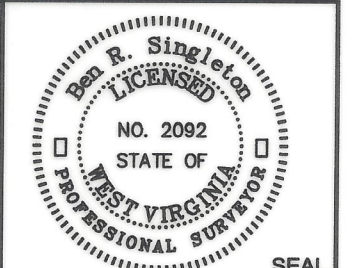


Lease No.	Owner	Acres
707114	Ridgetop Royalties, LLC, et al.	78
1010669	Ridgetop Royalties, LLC, et al.	22.5
712806	Ridgetop Royalties, LLC, et al.	42
125459	Randel J. Hartman, et al.	693
117865	AMP Fund III, L.P., et al.	150
994555	Sherman Hill, et al.	40.5
125467	Roger K. Hinerman, et al.	34
870098	David L. Hostutler, et al.	197
870111	Three Rivers Royalty II, LLC, et al.	234
708223	Ridgetop Royalties, LLC, et al.	22

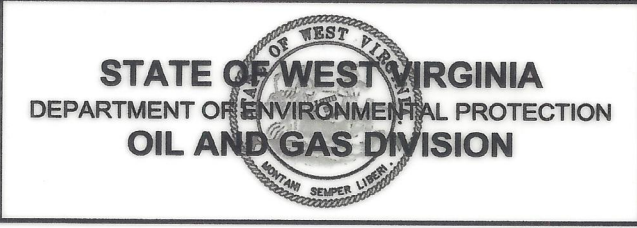


*I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.*

*Ben R. Singleton*  
P.S. 2092



FILE NO: 125-16  
DRAWING NO: BIG464 7H  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: 1:2500  
PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: May 05 20 22  
OPERATOR'S WELL NO.: BIG464 7H  
API WELL NO  
47 - 103 - 03434  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: 1246.8' WATERSHED: Wiley Fork QUADRANGLE: Big Run  
DISTRICT: Grant COUNTY: Wetzel  
SURFACE OWNER: EQT Production Company ACREAGE: 25.25  
ROYALTY OWNER: Ridgetop Royalties, LLC, et al. LEASE NO: 1010666 ACREAGE: 32  
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: 7,394'

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