

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

API 47-103-03436 County Wetzel District Grant
Quad Big Run Pad Name BIG464 Field/Pool Name N/A
Farm name EQT Production Company Well Number BIG464 11H (L004018)
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 4,379,877.75 Easting 541,541.28
Landing Point of Curve Northing 4,380,155.00 Easting 541,936.82
Bottom Hole Northing 4,384,299.96 Easting 539,348.64

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 13.95 ppg barium sulfate, sodium chloride, xanthan gum, polyanionic cellulose, modified starch, sodium hydroxide, phosphonates and alkyl phosphates, glutaraldehyde solution, calcium hydroxide, partially hydrolyzed polyacrylamide/polyacrylate, potassium chloride, sodium carbonate, ground walnut shells, alcohol and modified fatty acid, ferrochrome lignosulfonate, calcium carbonate, fibrous cellulose

Date permit issued 01/27/2022 Date drilling commenced 09/27/2021 Date drilling ceased 05/12/2022
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

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
Salt water depth(s) ft 1711,1835 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 543,782,878,901 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Reviewed by: _____

APPROVED

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API 47- 103 - 03436 Farm name EQT Production Company Well number BIG464 11H (L004018)

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#	855'	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"	24,012'	NEW	P-110 24#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 1006' 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	920	16.0	1.13	1039	0	8
Coal							
Intermediate 1	CLASS A	870	15.6	1.18	1026	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	4535	15.2	1.04	4716	1006'	8+
Tubing							

Drillers TD (ft) 24,030' Loggers TD (ft) N/A
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 1,144'

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 2089' _____

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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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 11H (L004018) Final Formations API# 47-103-03436				
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	543	543
Waynesburg Coal	543	543	546	546
Sand/Shale	546	546	782	782
Mapleton Coal	782	782	784	784
Sand/Shale	784	784	878	878
Sewickley Coal	878	878	880	880
Sand/Shale	880	880	901	901
Pittsburgh Coal	901	901	909	909
Sand/Shale	909	909	1,793	1,791
Maxton	1,793	1,791	1,972	1,968
Sand/Shale	1,972	1,968	2,235	2,230
Big Lime	2,235	2,230	2,311	2,306
Sand/Shale	2,311	2,306	2,323	2,317
Big Injun	2,323	2,317	2,392	2,386
Sand/Shale	2,392	2,386	2,521	2,514
Weir	2,521	2,514	2,671	2,663
Sand/Shale	2,671	2,663	2,736	2,727
Gantz	2,736	2,727	2,772	2,762
Sand/Shale	2,772	2,762	2,877	2,865
Fifty foot	2,877	2,865	2,933	2,919
Sand/Shale	2,933	2,919	2,972	2,957
Thirty foot	2,972	2,957	2,999	2,983
Sand/Shale	2,999	2,983	3,028	3,010
Gordon	3,028	3,010	3,073	3,054
Sand/Shale	3,073	3,054	3,098	3,078
Forth Sand	3,098	3,078	3,111	3,090
Sand/Shale	3,111	3,090	3,170	3,147
Fifth Sand	3,170	3,147	3,189	3,165
Sand/Shale	3,189	3,165	3,223	3,197
Bayard	3,223	3,197	3,241	3,215
Sand/Shale	3,241	3,215	3,646	3,598
Warren	3,646	3,598	3,670	3,620
Sand/Shale	3,670	3,620	3,766	3,710
Speechley	3,766	3,710	3,814	3,755
Sand/Shale	3,814	3,755	4,124	4,049
Balltown A	4,124	4,049	4,139	4,063
Sand/Shale	4,139	4,063	4,609	4,509
Riley	4,609	4,509	4,651	4,549
Sand/Shale	4,651	4,549	5,238	5,104
Benson	5,238	5,104	5,287	5,150
Sand/Shale	5,287	5,150	5,652	5,496
Alexander	5,652	5,496	5,719	5,559
Elks	5,719	5,559	6,995	6,767
Sonyea	6,995	6,767	7,199	6,959
Middlesex	7,199	6,959	7,404	7,137

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Genesee	7,404	7,137	7,537	7,232
Geneseo	7,537	7,232	7,582	7,260
Tully	7,582	7,260	7,619	7,282
Hamilton	7,619	7,282	8,155	7,403
Marcellus	8,155	7,403	24,030	7,470

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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	04/27/2023	23918	23757	36	Marcellus
3	04/29/2023	23738	23578	36	Marcellus
4	04/29/2023	23559	23398	36	Marcellus
5	04/29/2023	23379	23219	36	Marcellus
6	04/30/2023	23200	23019	40	Marcellus
7	04/30/2023	23000	22819	40	Marcellus
8	05/01/2023	22800	22619	40	Marcellus
9	05/01/2023	22600	22419	40	Marcellus
10	05/01/2023	22400	22219	40	Marcellus
11	05/02/2023	22200	22019	40	Marcellus
12	05/02/2023	22000	21819	40	Marcellus
13	05/03/2023	21800	21619	40	Marcellus
14	05/03/2023	21600	21419	40	Marcellus
15	05/03/2023	21400	21219	40	Marcellus
16	05/03/2023	21200	21019	40	Marcellus
17	05/04/2023	21000	20819	40	Marcellus
18	05/04/2023	20800	20619	40	Marcellus
19	05/04/2023	20600	20420	40	Marcellus
20	05/07/2023	20401	20221	40	Marcellus
21	05/08/2023	20202	20022	40	Marcellus
22	05/08/2023	20003	19823	40	Marcellus
23	05/08/2023	19804	19624	40	Marcellus
24	05/09/2023	19605	19425	40	Marcellus
25	05/09/2023	19406	19226	40	Marcellus
26	05/09/2023	19207	19027	40	Marcellus
27	05/10/2023	19008	18828	40	Marcellus
28	05/10/2023	18809	18629	40	Marcellus
29	05/10/2023	18610	18430	40	Marcellus
30	05/11/2023	18411	18231	40	Marcellus
31	05/11/2023	18212	18032	40	Marcellus
32	05/11/2023	18013	17833	40	Marcellus
33	05/12/2023	17814	17634	40	Marcellus
34	05/12/2023	17615	17435	40	Marcellus
35	05/13/2023	17416	17236	40	Marcellus
36	05/13/2023	17217	17037	40	Marcellus
37	05/15/2023	17018	16838	40	Marcellus
38	05/16/2023	16819	16639	40	Marcellus
39	05/16/2023	16620	16440	40	Marcellus
40	05/16/2023	16421	16241	40	Marcellus
41	05/17/2023	16222	16042	40	Marcellus
42	05/17/2023	16023	15843	40	Marcellus
43	05/18/2023	15824	15644	40	Marcellus

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44	05/18/2023	15625	15445	40	Marcellus
45	05/19/2023	15426	15246	40	Marcellus
46	05/20/2023	15227	15047	40	Marcellus
47	05/21/2023	15028	14848	40	Marcellus
48	05/22/2023	14829	14649	40	Marcellus
49	05/24/2023	14630	14450	40	Marcellus
50	05/25/2023	14431	14251	40	Marcellus
51	05/26/2023	14232	14052	40	Marcellus
52	05/26/2023	14033	13853	40	Marcellus
53	05/27/2023	13834	13654	40	Marcellus
54	05/27/2023	13635	13455	40	Marcellus
55	05/28/2023	13436	13256	40	Marcellus
56	05/28/2023	13237	13057	40	Marcellus
57	05/29/2023	13038	12858	40	Marcellus
58	05/29/2023	12839	12659	40	Marcellus
59	05/30/2023	12640	12460	40	Marcellus
60	05/30/2023	12441	12261	40	Marcellus
61	05/31/2023	12242	12062	40	Marcellus
62	06/01/2023	12043	11863	40	Marcellus
63	06/01/2023	11844	11664	40	Marcellus
64	06/02/2023	11645	11465	40	Marcellus
65	06/03/2023	11446	11266	40	Marcellus
66	06/04/2023	11247	11067	40	Marcellus
67	06/04/2023	11048	10868	40	Marcellus
68	06/11/2023	10849	10669	40	Marcellus
69	06/11/2023	10650	10470	40	Marcellus
70	06/13/2023	10451	10271	40	Marcellus
71	06/13/2023	10252	10072	40	Marcellus
72	06/14/2023	10053	9873	40	Marcellus
73	06/18/2023	9854	9674	40	Marcellus
74	06/18/2023	9655	9475	40	Marcellus
75	06/19/2023	9456	9276	40	Marcellus
76	06/19/2023	9257	9077	40	Marcellus
77	06/20/2023	9058	8878	40	Marcellus
78	06/21/2023	8859	8679	40	Marcellus
79	06/22/2023	8660	8480	40	Marcellus
80	06/24/2023	8461	8281	40	Marcellus
81	06/26/2023	8262	8082	40	Marcellus
82	06/28/2023	8063	7903	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	92	9097	6555	4825	176003	4338	
2	04/28/2023	100	9009	5834	5712	396002	9328	
3	04/29/2023	100	9184	5733	6222	396119	9269	
4	04/29/2023	100	9213	6159	6360	400000	9427	
5	04/30/2023	100	9213	6001	5751	396010	9264	
6	04/30/2023	101	8833	5484	5889	440135	10228	
7	05/01/2023	100	9130	5580	5484	440033	10246	
8	05/01/2023	99	9064	6113	5579	440124	10165	
9	05/01/2023	100	9231	5561	5372	440067	10245	
10	05/02/2023	100	9043	5581	5508	440020	10166	
11	05/02/2023	100	9145	5716	5589	440139	10131	
12	05/02/2023	101	9305	5776	5987	440095	10211	
13	05/03/2023	100	9117	5927	5407	440004	10191	
14	05/03/2023	101	9142	5908	6135	440066	10170	
15	05/03/2023	100	9158	6008	5664	440121	10174	
16	05/04/2023	100	9187	6234	5792	440189	10084	
17	05/04/2023	99	9076	5967	6117	440136	10048	
18	05/04/2023	98	9177	5738	5282	440117	10117	
19	05/07/2023	99	9168	6156	5884	440138	10094	
20	05/08/2023	100	9085	6148	5033	440163	10078	
21	05/08/2023	100	9202	5813	5819	440240	10107	
22	05/08/2023	100	9010	6084	5643	440180	10022	
23	05/09/2023	101	9091	6048	5586	440128	10087	
24	05/09/2023	100	8918	5603	5709	440720	9542	
25	05/09/2023	100	8804	6091	5711	440196	10016	
26	05/10/2023	100	8983	5935	5361	440163	9926	
27	05/10/2023	100	9072	5268	5445	440232	10024	
28	05/11/2023	99	8622	5277	5550	440066	10018	
29	05/11/2023	95	8357	5231	5291	440163	9964	
30	05/11/2023	100	9150	5735	5372	440160	9993	
31	05/12/2023	99	8909	5780	5648	440536	10006	
32	05/12/2023	97	8871	5539	6085	440488	10092	
33	05/12/2023	99	9080	5511	5796	440228	9907	
34	05/13/2023	101	8896	5992	5510	440551	9935	
35	05/13/2023	100	9072	5707	5393	440267	9961	
36	05/15/2023	100	9023	5625	5311	440238	9902	
37	05/16/2023	99	8789	6465	4768	440492	9886	
38	05/16/2023	100	8912	6180	5112	440786	10020	
39	05/16/2023	100	9014	5894	5321	440099	9833	
40	05/17/2023	99	8685	5573	4891	440614	9950	
41	05/17/2023	100	8920	5387	5428	440426	9943	
42	05/18/2023	100	8800	5776	6027	440378	10803	

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43	05/18/2023	100	9024	5829	5787	440183	9897
44	05/19/2023	100	9089	5911	5610	440232	9912
45	05/20/2023	101	8793	5422	4841	440601	9942
46	05/21/2023	100	8678	5655	5851	440421	9888
47	05/22/2023	100	8765	6024	5830	440452	9761
48	05/24/2023	100	8637	6033	5924	440369	9803
49	05/25/2023	98	9185	6587	5584	440281	9885
50	05/26/2023	100	8958	6099	5794	440037	9897
51	05/26/2023	100	8800	5807	5304	440090	9746
52	05/27/2023	99	8818	5991	5941	440082	9784
53	05/27/2023	99	8807	6233	5889	440033	9827
54	05/28/2023	100	8747	6148	6300	440111	9714
55	05/28/2023	100	8831	6137	6016	440012	9810
56	05/29/2023	100	8644	6246	6255	440055	9732
57	05/29/2023	100	8780	6203	5958	440001	9807
58	05/30/2023	100	8692	6618	6092	440001	9782
59	05/30/2023	100	8811	6420	5983	440087	9766
60	05/31/2023	100	8600	6461	5484	440135	9751
61	06/01/2023	100	8365	6049	5727	440073	9744
62	06/01/2023	100	8347	5771	6019	440050	9766
63	06/02/2023	100	8261	6166	5868	440137	9688
64	06/03/2023	100	8477	6568	5380	440107	9819
65	06/04/2023	100	8521	6490	5403	443460	9795
66	06/05/2023	100	8174	7646	5765	440124	9796
67	06/11/2023	100	8399	6466	5768	440429	9725
68	06/11/2023	100	8130	5798	6574	440061	9765
69	06/13/2023	100	7978	6037	5160	440326	9813
70	06/13/2023	100	8040	6271	6044	440171	9712
71	06/14/2023	100	8048	6133	6030	440241	9764
72	06/18/2023	100	8298	6297	5628	440422	9761
73	06/19/2023	100	8013	6027	5593	440365	9572
74	06/19/2023	93	9168	6278	5557	440125	9717
75	06/20/2023	100	7969	6387	5823	440346	9668
76	06/21/2023	100	8123	6406	5576	440442	9609
77	06/22/2023	100	7926	6352	6121	440411	9539
78	06/23/2023	96	8334	6649	5979	440010	10973
79	06/24/2023	100	8222	6505	5720	440163	9528
80	06/26/2023	100	7706	7417	5678	440119	9609
81	06/28/2023	100	7903	6550	5875	440039	9577
82	06/28/2023	100	7607	5966	5731	396053	8752

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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:	47-103-03436-00-00
Operator Name:	EQT Production
Well Name and Number:	BIG464 11H
Latitude:	39.56759310
Longitude:	-80.51637630
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,499
Total Base Water Volume (gal):	33,780,894
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	88.62906	None
Sand (Proppant)	EQT	Proppant	Silica Substrate	14808-60-7	100.00000	11.19879	None
Clearal 268	ChemStream	Biocide	Non-hazardous substances	Proprietary	80.00000	0.00899	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor	Non-hazardous substances	Proprietary	90.00000	0.00765	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	Copolymer of 2-propenamamide	Proprietary	30.00000	0.00595	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	Petroleum Distillate	64742-47-8	20.00000	0.00264	None
15% HCl	Evolution Well Services	Acid	Hydrogen Chloride	7647-01-0	15.00000	0.00185	None
Clearal 268	ChemStream	Biocide	Glutaraldehyde	111-30-8	20.00000	0.00056	None
Plexhib 166	Evolution	Acid Corrosion Inhibitor					

StimSTREAM SC-398	ChemStream	Scale Inhibitor	Methanol	67-56-1	90.00000	0.00020	None
			Bis(Hexamethylene Triamine Penta(Methylene Phosphonic Acid)(BHMT)	34690-00-1	10.00000	0.00009	None
Ferriplex 66	Evolution	Iron Control	Acetic acid	64-19-7	50.00000	0.00005	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00003	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	Oleic Acid Diethanolamide	93-83-4	2.00000	0.00003	None
Ferriplex 66	Evolution	Iron Control	Citric Acid	000077-92-9	30.00000	0.00002	None
Clearal 268	ChemStream	Biocide	Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00001	None
Clearal 268	ChemStream	Biocide	Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00001	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00001	None
Clearal 268	ChemStream	Biocide	Ethanol	64-17-5	1.50000	0.00000	None
Plexhib 166	Evolution	Acid Corrosion Inhibitor	Propargyl alcohol	107-19-7	5.00000	0.00000	None
Plexhib 166	Evolution	Acid Corrosion Inhibitor	Alcohols, C14-C15, ethoxylated	68951-67-7	7.00000	0.00000	None
EZA 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Ethanoic Acid	64-19-7	15.00000		None
EZA 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	68909-18-2	25.00000		None
EZA 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Methanol	67-56-1	25.00000		None
EZA 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Ethoxylated Nonylphenols	127087-87-0	5.00000		None
EZA 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Ethoxylated Alcohols	Proprietary	15.00000		None
EZA 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	2-ethylhexanol	104-76-7	5.00000		None
EZA 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Proprietary	Proprietary	10.00000		None

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EZ-A 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Proprietary	Proprietary	10.00000	None
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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.

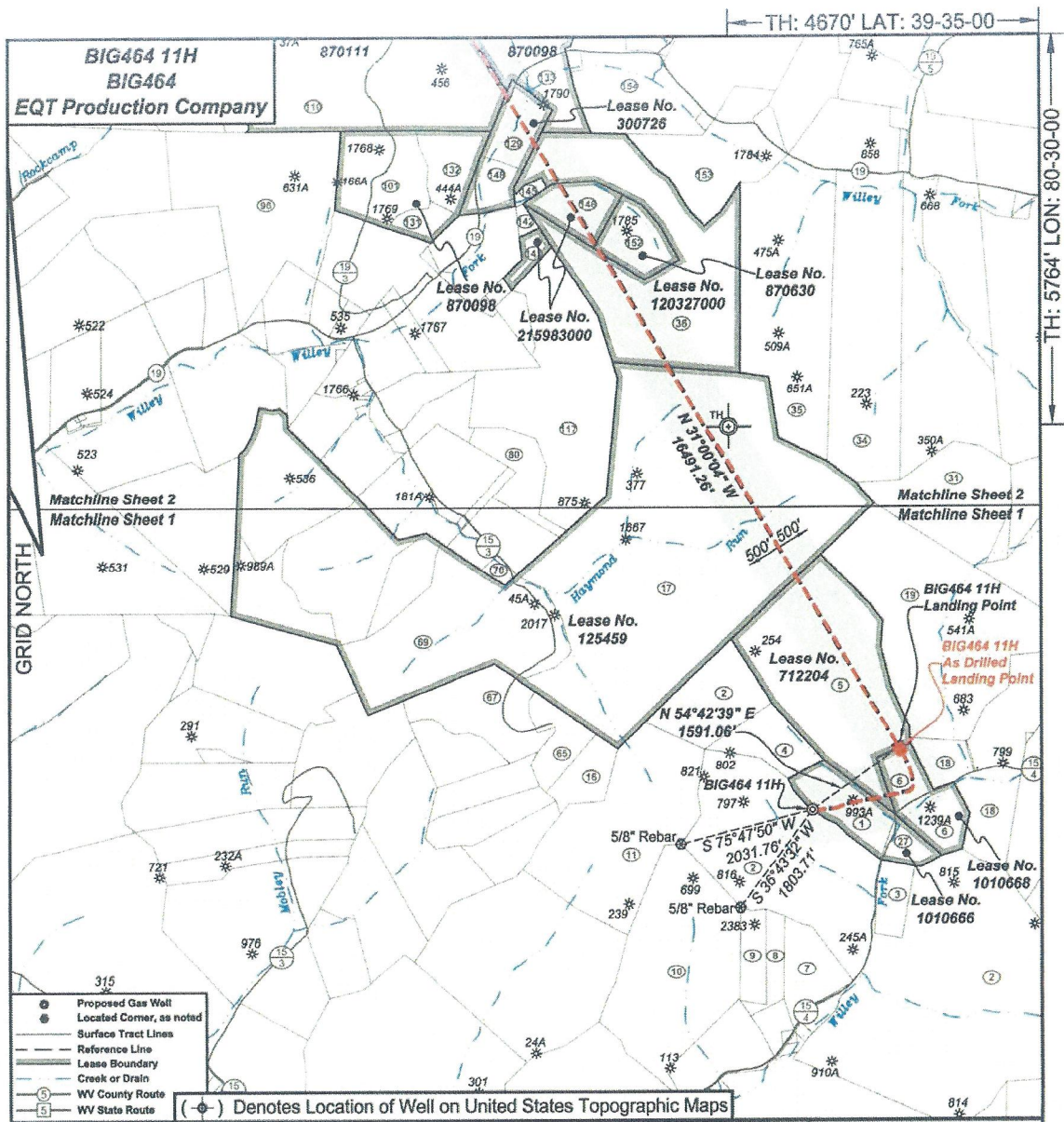
* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** 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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- ⊗ Proposed Gas Well
 - ⊙ Located Corner, as noted
 - Surface Tract Lines
 - - - Reference Line
 - ▬ Lease Boundary
 - ~ Creek or Drain
 - Ⓢ WV County Route
 - Ⓜ WV State Route
- (⊙) Denotes Location of Well on United States Topographic Maps



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Ben R. Singleton

P.S. 2092



FILE NO: 125-16
 DRAWING NO: BIG464 11H
 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: May 27 20 22
 OPERATOR'S WELL NO.: BIG464 11H
 API WELL NO
 47 - 103 - 03436
 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'

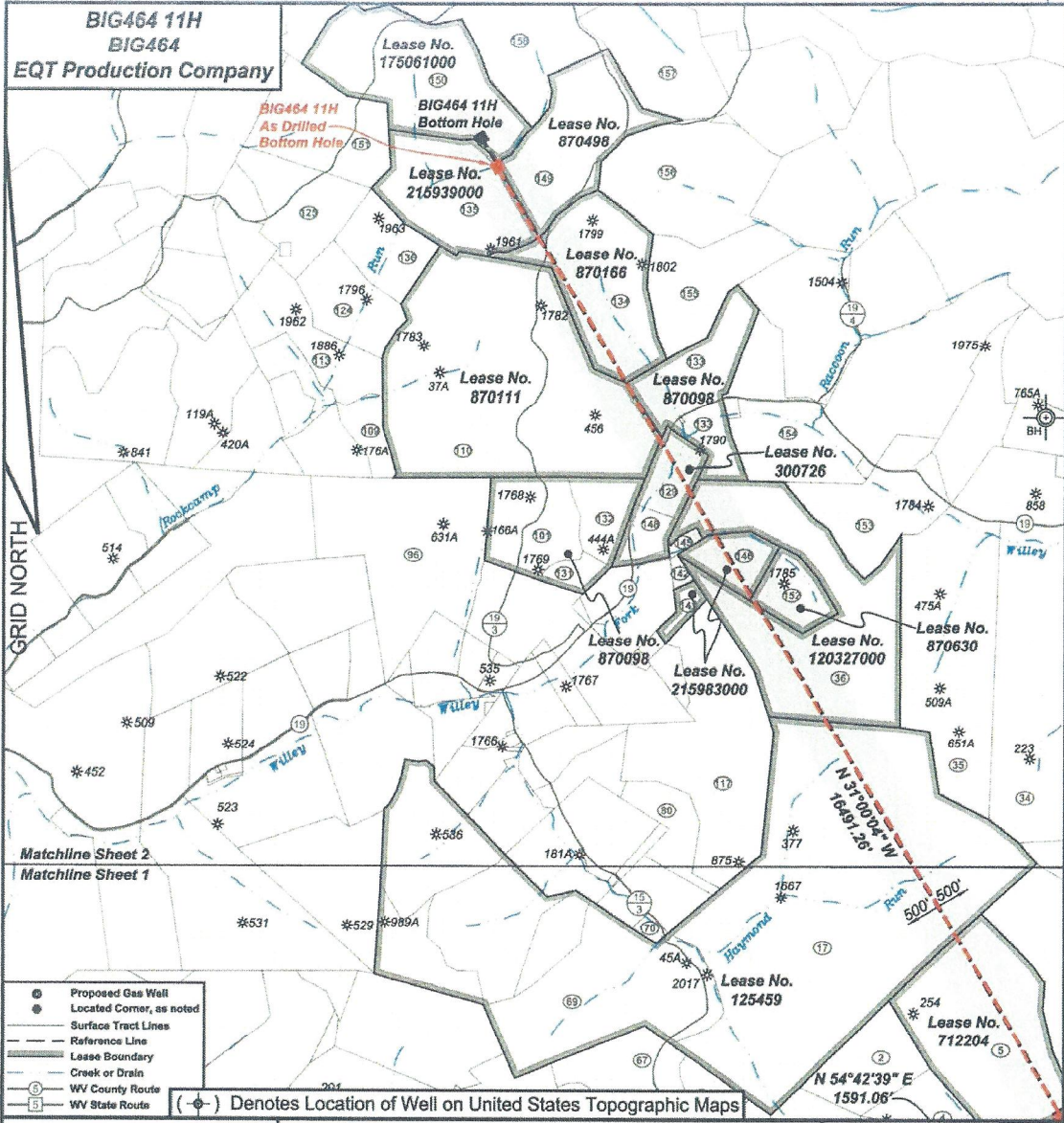
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
 ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280
 Canonsburg, PA 15317 Bridgeport, WV 26330

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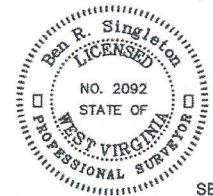
BH: 293' LAT: 39-37-30

BH: 6494' LON: 80-32-30



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

DATE: May 27 20 22
OPERATOR'S WELL NO.: BIG464 11H
API WELL NO
47 - 103 - 03436
STATE COUNTY PERMIT

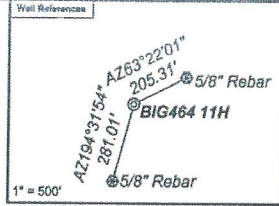
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1246.8' WATERSHED: Wiley Fork QUADRANGLE: Big Run
DISTRICT: Grant COUNTY: Wetzel
SURFACE OWNER: EQT Production Company ACREAGE: 25.25
ROYALTY OWNER: Ridgetop Royalties, LLC, et al. LEASE NO: 1010666 ACREAGE: 32
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
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 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

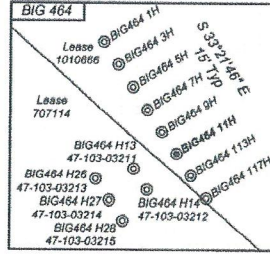
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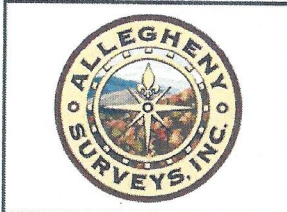
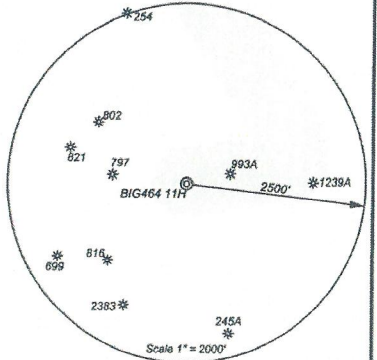
BIG464 11H BIG464 EQT Production Company						
Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	14	34	Wetzel	Grant	EQT Production Company	35.25
2	20	1	Wetzel	Grant	Coastal Forest Resources Company	520.00
3	15	27	Wetzel	Grant	Beverly Lynn Barr Life Estate	10.00
4	14	27	Wetzel	Grant	EQT Production Company	32.00
5	14	20	Wetzel	Grant	EQT Production Company	108.50
6	15	16	Wetzel	Grant	Donald J. D'Lusky	28.00
7	14	45	Wetzel	Grant	Coastal Forest Resources Company	11.00
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
11	14	33	Wetzel	Grant	Alma H. & Hilda B. Conway	109.00
12	14	32	Wetzel	Grant	Mary Jane Byard	13.30
17	14	5	Wetzel	Grant	Coastal Forest Resources Company	332.90
18	15	18	Wetzel	Grant	Donald J. D'Lusky	39.50
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	0	38	Wetzel	Grant	Terry L. & Carolyn M. Fry	156.00
65	14	28	Wetzel	Grant	Mary Jane Byard	14.50
67	14	25	Wetzel	Grant	ET Blue Grass, LLC	36.88
69	14	10	Wetzel	Grant	Coastal Forest Resources Company	138.58
70	14	13	Wetzel	Grant	Coastal Forest Resources Company	3.80
80	14	5	Wetzel	Grant	Dale K. & Sherry Dulaney	21.50
86	9	23	Wetzel	Grant	Stephen B. & Carolyn M. Gantz	119.00
101	0	24	Wetzel	Grant	John D. Parks, et al.	40.00
109	9	18	Wetzel	Grant	W. K. Wiley 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	Jimboe Quate Mountain Retreat	154.10
124	9	7	Wetzel	Grant	James D. & Collette J. Streets	34.00
125	4	7	Wetzel	Grant	Earl Stonelaking	45.50
126	9	62	Wetzel	Grant	William B. & Pamela S. Franck	30.50
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
141	9	35	Wetzel	Grant	Terry L. & Carolyn M. Fry	8.25
142	9	34	Wetzel	Grant	Terry L. & Carolyn M. Fry	3.25
146	9	32.1	Wetzel	Grant	Terry L. & Carolyn M. Fry	3.45
149	9	36	Wetzel	Grant	Terry L. & Carolyn M. Fry	15.00
148	9	26	Wetzel	Grant	Elizabeth L. Taylor, et al.	10.08
149	20	38	Wetzel	Center	William B. Franck, Sr. & Pamela Spinosa	66.88
150	4	5	Wetzel	Grant	James Daniel Kenney	100.00
151	4	4	Wetzel	Grant	Ralph D. Thacker & Maurice J. Carlson, Jr.	63.50
152	9	37	Wetzel	Grant	Terry L. & Carolyn M. Fry	25.00
153	9	27	Wetzel	Grant	David C. Barr, et al.	47.17
154	9	21	Wetzel	Grant	Gregory & Michael Dulaney	59.90
155	9	3	Wetzel	Grant	William B. Franck, Sr. & Pamela Spinosa	60.00
156	4	10	Wetzel	Grant	William B. Franck, Sr. & Pamela Spinosa	76.78
157	20	36	Wetzel	Center	Rachel Elizabeth Wyatt	54.00
158	20	33	Wetzel	Center	Myma L. Phelps Trust	68.00



As Drilled Well Information:
 BIG464 11H coordinates are
 NAD 27 N: 390,430.90 E: 1,713,422.72
 NAD 83 UTM N: 4,379,977.75 E: 541,541.28
 BIG464 11H Kick Out Point coordinates are
 NAD 27 N: 390,429.65 E: 1,713,421.15
 NAD 83 UTM N: 4,379,877.36 E: 541,540.80
 BIG464 11H Landing Point coordinates are
 NAD 27 N: 391,318.96 E: 1,714,736.79
 NAD 83 UTM N: 4,380,155.00 E: 541,936.82
 BIG464 11H Bottom Hole coordinates are
 NAD 27 N: 405,062.21 E: 1,706,469.51
 NAD 83 UTM N: 4,384,299.96 E: 539,348.64
 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.

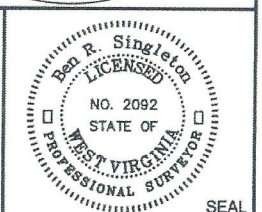


Lease No.	Owner	Acres
712204	Janice E. Nolan, et al.	120
1010688	Ridgetop Royalties, LLC, et al.	25
129459	Randall J. Hartman, et al.	693
12932700	OXY USA Inc., et al.	158.5
670630	AMP Fund III, L.P., et al.	25
215983000	The Mineral Company LLC	21.25
300726	Emma Joyce Dahlin Anderson, et al.	43
870111	Three Rivers Royalty II, LLC, et al.	234
870098	Emma Joyce Dahlin Anderson, et al.	196.5
870186	Liberty Holding Company	74
870498	William B. Franck and Pamela S. Franck, Trustees of the William B. and Pamela S. Franck Joint Revocable Living Trust, dated 2/12/2018	67
215939000	James Arthur Yoho, et al.	62.75
175061000	OXY USA Inc., et al.	31,151.581

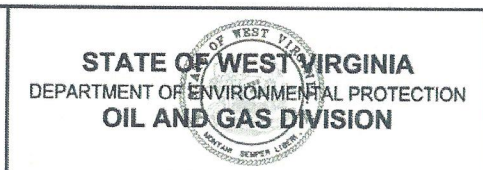


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 P.S. 2092



FILE NO: 125-16
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 PROVEN SOURCE OF ELEVATION: NGS CORS Station

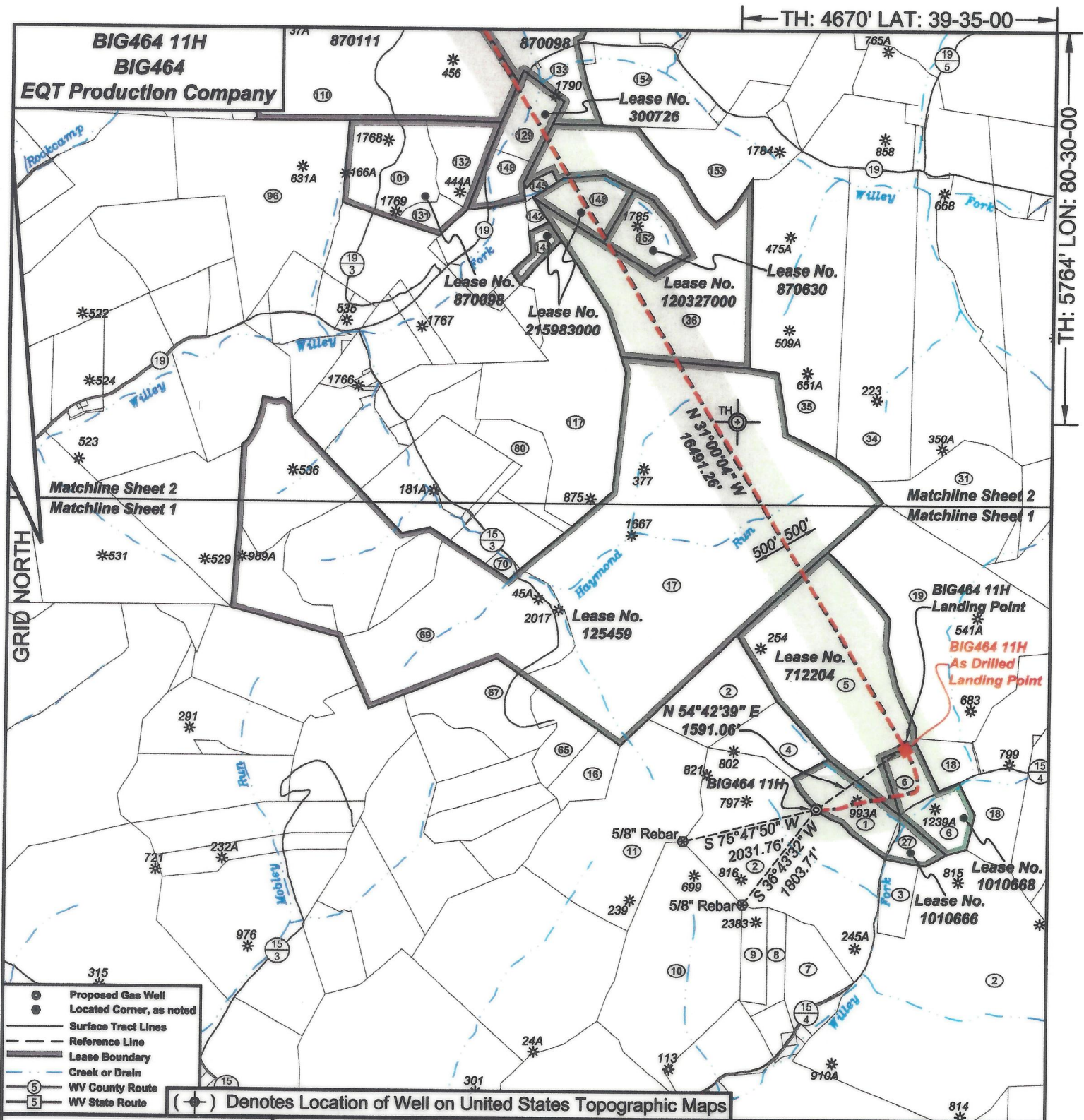


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 OPERATOR'S WELL NO.: BIG464 11H
 API WELL NO
 47 - 103 - 03436
 STATE COUNTY PERMIT

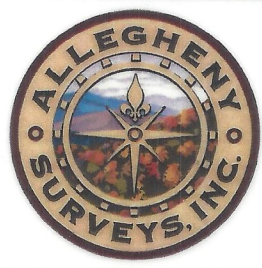
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 1246.8' WATERSHED: Wiley Fork QUADRANGLE: Big Run
 DISTRICT: Grant COUNTY: Wetzel
 SURFACE OWNER: EQT Production Company ACREAGE: 25.25
 ROYALTY OWNER: Ridgetop Royalties, LLC, et al. LEASE 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

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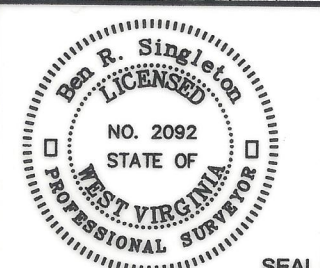
- Proposed Gas Well
 - Located Corner, as noted
 - Surface Tract Lines
 - Reference Line
 - Lease Boundary
 - Creek or Drain
 - WV County Route
 - WV State Route
- () Denotes Location of Well on United States Topographic Maps



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

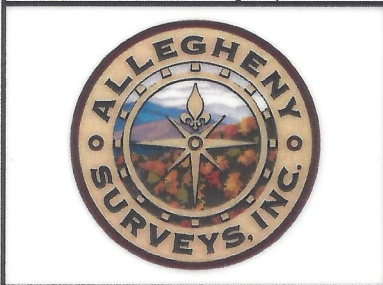
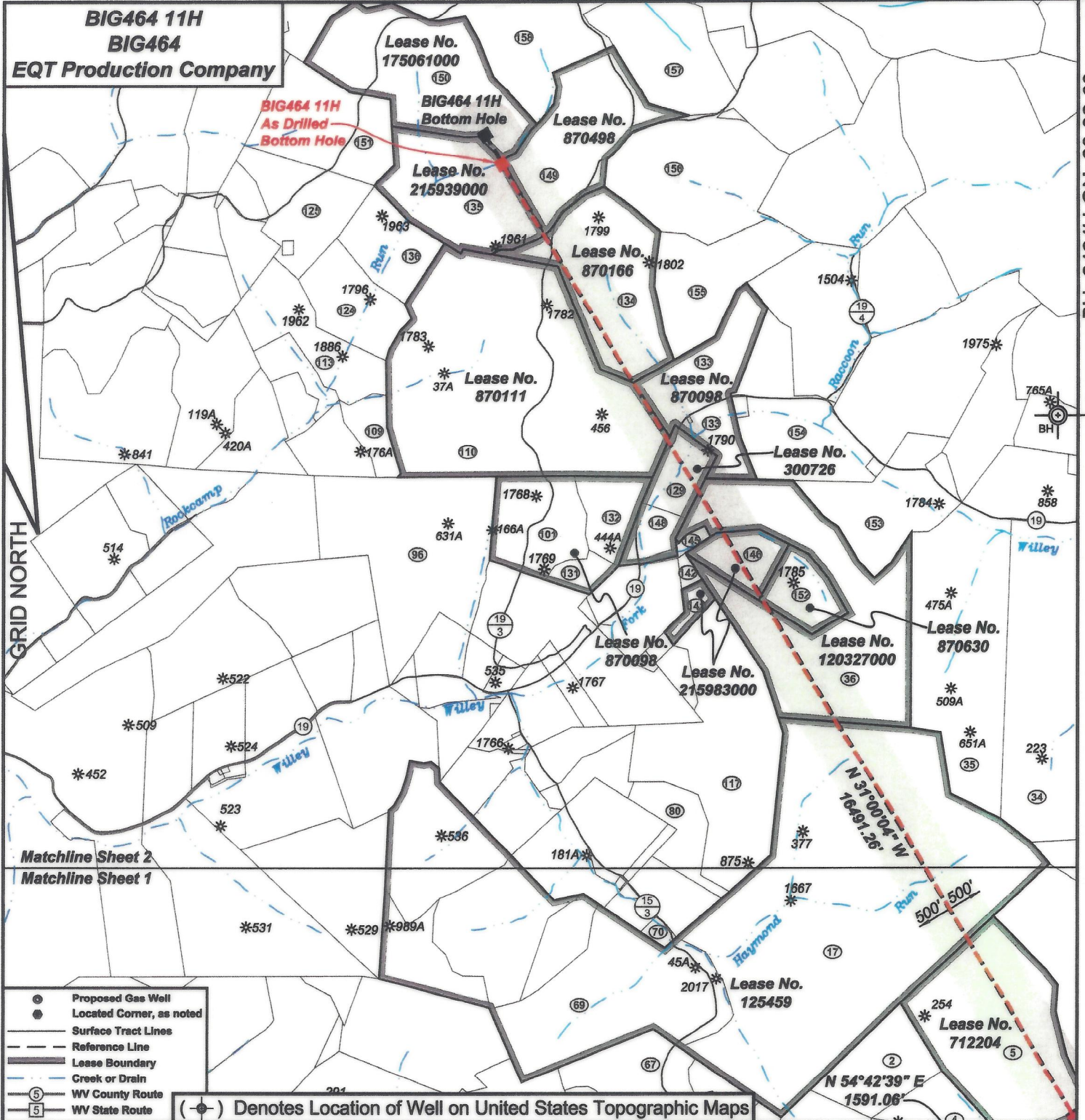
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03/01/2024

BIG464 11H
BIG464
EQT Production Company



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STATE OF WEST VIRGINIA
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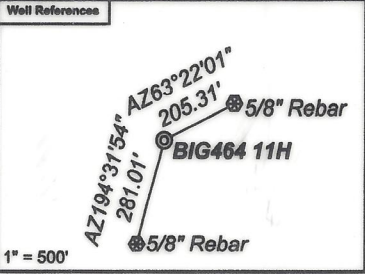
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 1246.8' WATERSHED: Willey Fork QUADRANGLE: Big Run
 DISTRICT: Grant COUNTY: Wetzel
 SURFACE OWNER: EQT Production Company ACREAGE: 25.25
 ROYALTY OWNER: Ridgetop Royalties, LLC, et al. LEASE NO: 1010666 ACREAGE: 32
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BIG464 11H
BIG464
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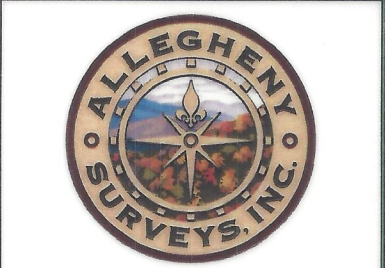
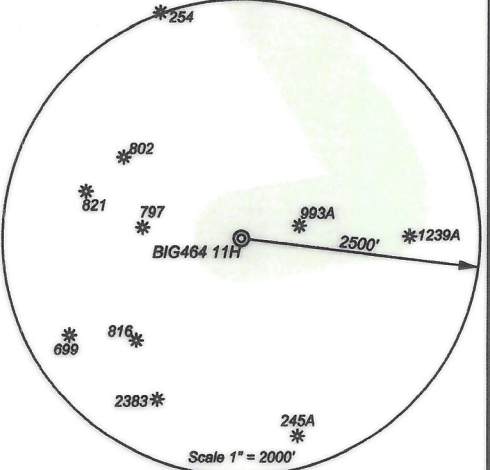
Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	14	34	Wetzel	Grant	EQT Production Company	25.25
2	20	1	Wetzel	Grant	Coastal Forest Resources Company	520.00
3	15	27	Wetzel	Grant	Beverly Lynn Barr Life Estate	10.00
4	14	27	Wetzel	Grant	EQT Production Company	22.00
5	14	20	Wetzel	Grant	EQT Production Company	126.60
6	15	16	Wetzel	Grant	Donald J. D'Lusky	25.00
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'Lusky	111.00
11	14	33	Wetzel	Grant	Altee H. & Hilda B. Conaway	106.00
16	14	32	Wetzel	Grant	Mary Jane Byard	13.30
17	14	6	Wetzel	Grant	Coastal Forest Resources Company	332.90
18	15	18	Wetzel	Grant	Donald J. D'Lusky	39.50
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	139.68
70	14	13	Wetzel	Grant	Coastal Forest Resources Company	2.80
80	14	5	Wetzel	Grant	Dale K. & Sherry Dulaney	21.50
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 Franck	233.37
113	9	8	Wetzel	Grant	James A. Yoho	45.08
117	9	61	Wetzel	Grant	Jimbo Quiet Mountain Retreat	114.10
124	9	7	Wetzel	Grant	James D. & Collette J. Streets	34.00
125	4	7	Wetzel	Grant	Earl Stonelung	45.50
129	9	62	Wetzel	Grant	William B. & Pamela S. Franck	30.50
131	9	25	Wetzel	Grant	Deborah Fronczek & 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
136	4	8	Wetzel	Grant	James A. Yoho	63.00
136	4	15	Wetzel	Grant	James A. Yoho	30.00
141	9	35	Wetzel	Grant	Terry L. & Carolyn M. Fry	6.25
142	9	34	Wetzel	Grant	Terry L. & Carolyn M. Fry	3.25
145	9	32.1	Wetzel	Grant	Terry L. & Carolyn M. Fry	3.40
146	9	36	Wetzel	Grant	Terry L. & Carolyn M. Fry	15.00
148	9	26	Wetzel	Grant	Elizabeth L. Taylor, et al.	10.06
149	20	38	Center	Grant	William B. Franck, Sr. & Pamela Spinoso	66.58
150	4	5	Wetzel	Grant	James Daniel Kennedy	100.00
151	4	4	Wetzel	Grant	Ralph D. Thacker & Maurice J. Carlisle, Jr.	53.50
152	9	37	Wetzel	Grant	Terry L. & Carolyn M. Fry	25.00
153	9	27	Wetzel	Grant	David C. Barr, et al.	47.17
154	9	21	Wetzel	Grant	Gregory & Michael Dulaney	59.90
155	9	3	Wetzel	Grant	William B. Franck, Sr. & Pamela Spinoso	50.00
156	4	10	Wetzel	Grant	William B. Franck, Sr. & Pamela Spinoso	76.76
157	20	35	Center	Grant	Rachel Elizabeth Wyatt	54.00
158	20	33	Center	Grant	Myma L. Phelps Trust	68.00



As Drilled Well Information:
BIG464 11H coordinates are
 NAD 27 N: 390,430.90 E: 1,713,422.72
 NAD 83 UTM N: 4,379,877.75 E: 541,541.28
BIG464 11H Kick Out Point coordinates are
 NAD 27 N: 390,429.65 E: 1,713,421.15
 NAD 83 UTM N: 4,379,877.36 E: 541,540.80
BIG464 11H Landing Point coordinates are
 NAD 27 N: 391,318.96 E: 1,714,735.79
 NAD 83 UTM N: 4,380,155.00 E: 541,936.82
BIG464 11H Bottom Hole coordinates are
 NAD 27 N: 405,062.21 E: 1,706,469.51
 NAD 83 UTM N: 4,384,299.96 E: 539,348.64
 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
712204	Janice E. Nolan, et al.	120
1010668	Ridgetop Royalties, LLC, et al.	25
125459	Randel J. Hartman, et al.	693
120327000	OXY USA Inc., et al.	158.5
870630	AMP Fund III, LP., et al.	25
215983000	The Mineral Company LLC	21.25
300726	Emma Joyce Dahlin Anderson, et al.	43
870111	Three Rivers Royalty II, LLC, et al.	234
870098	Emma Joyce Dahlin Anderson, et al.	196.5
870166	Liberty Holding Company	74
870498	William B. Franck and Pamela S. Franck, Trustees of The William B. and Pamela S. Franck Joint Revocable Living Trust, dated 2/12/2018	67
215939000	James Arthur Yoho, et al.	62.75
175061000	OXY USA Inc., et al.	31,151.581

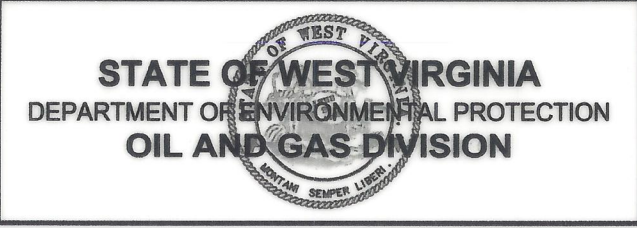


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Ben R. Singleton
P.S. 2092



FILE NO: 125-16
 DRAWING NO: BIG464 11H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: May 27 20 22
 OPERATOR'S WELL NO.: BIG464 11H
 API WELL NO
 47 - 103 - 03436
 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

03/01/2024