

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

API 47-103-03435 County Wetzel District Grant
Quad Big Run Pad Name BIG464 Field/Pool Name N/A
Farm name EQT Production Company Well Number BIG464 9H (L003506)
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 4,379,881.53 Easting 541,538.70
Landing Point of Curve Northing 4,380,114.33 Easting 541,607.30
Bottom Hole Northing 4,384,265.81 Easting 539,013.70

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 14.0 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 05/04/2022
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

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Freshwater depth(s) ft 96,175,239,419 Open mine(s) (Y/N) depths _____
Salt water depth(s) ft 1711,1835 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 543,782,878,903 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 - 03435 Farm name EQT Production Company Well number BIG464 9H (L003506)

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"	1007'	NEW	J-55 54.5#	880'	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	2449'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-1/2"	6"	23,847'	NEW	P-110 24#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 4453' 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	915	16.0	1.13	1033	0	8
Coal							
Intermediate 1	CLASS A	902	15.6	1.18	1064	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	4500	15.2	1.04	4680	4453'	8+
Tubing							

Drillers TD (ft) 23,867' Loggers TD (ft) N/A
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 1,100'

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 1985'

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____ WV Department of Environmental Protection

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
PERFORATION DATA ATTACHED					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
STIMULATION DATA ATTACHED								

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Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS	
	TVD	MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 6758 mcfpd Oil 0 bpd NGL 0 bpd Water 216 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		

Please insert additional pages as applicable.

Drilling Contractor Patterson UTI (Rig 294)
Address 207 Carlton Dr City Eighty Four State PA Zip 15330

Logging Company Baker Hughes
Address 400 Technology Dr Suite 100 City Canonsburg State PA Zip 15317

Cementing Company Halliburton
Address 121 Champion Way Suite 110 City Canonsburg State PA Zip 15317

Cementing Company Universal Pressure Pumping, Inc.
Address 13549 S. Moisertown Road City Meadville State PA Zip 16335

Please insert additional pages as applicable.

Completed by Adam Hughey Telephone 724-575-5475
Signature _____ Title Director of Completions Date 2023-10-09

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Submission of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

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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 9H (L003506) Final Formations API# 47-103-03435				
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	903	903
Pittsburgh Coal	903	903	910	910
Sand/Shale	910	910	1,793	1,792
Maxton	1,793	1,792	1,972	1,970
Sand/Shale	1,972	1,970	2,235	2,233
Big Lime	2,235	2,233	2,311	2,309
Sand/Shale	2,311	2,309	2,323	2,321
Big Injun	2,323	2,321	2,392	2,390
Sand/Shale	2,392	2,390	2,521	2,519
Weir	2,521	2,519	2,671	2,668
Sand/Shale	2,671	2,668	2,736	2,733
Gantz	2,736	2,733	2,772	2,769
Sand/Shale	2,772	2,769	2,877	2,873
Fifty foot	2,877	2,873	2,933	2,928
Sand/Shale	2,933	2,928	2,972	2,967
Thirty foot	2,972	2,967	2,999	2,993
Sand/Shale	2,999	2,993	3,028	3,022
Gordon	3,028	3,022	3,073	3,067
Sand/Shale	3,073	3,067	3,098	3,092
Forth Sand	3,098	3,092	3,111	3,104
Sand/Shale	3,111	3,104	3,170	3,163
Fifth Sand	3,170	3,163	3,189	3,182
Sand/Shale	3,189	3,182	3,223	3,216
Bayard	3,223	3,216	3,241	3,234
Sand/Shale	3,241	3,234	3,646	3,636
Warren	3,646	3,636	3,670	3,660
Sand/Shale	3,670	3,660	3,766	3,755
Speechley	3,766	3,755	3,814	3,803
Sand/Shale	3,814	3,803	4,124	4,110
Balltown A	4,124	4,110	4,139	4,125
Sand/Shale	4,139	4,125	4,609	4,592
Riley	4,609	4,592	4,651	4,634
Sand/Shale	4,651	4,634	5,238	5,215
Benson	5,238	5,215	5,287	5,264
Sand/Shale	5,287	5,264	5,652	5,627
Alexander	5,652	5,627	5,719	5,693
Elks	5,719	5,693	6,786	6,746
Sonyea	6,786	6,746	6,975	6,930
Middlesex	6,975	6,930	7,182	7,116

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Genesee	7,182	7,116	7,308	7,211
Geneseo	7,308	7,211	7,353	7,240
Tully	7,353	7,240	7,392	7,263
Hamilton	7,392	7,263	7,642	7,365
Marcellus	7,642	7,365	23,867	7,460

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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	04/12/2023	23750	23591	36	Marcellus
3	04/13/2023	23572	23412	36	Marcellus
4	04/14/2023	23394	23234	36	Marcellus
5	04/14/2023	23215	23056	36	Marcellus
6	04/15/2023	23037	22878	36	Marcellus
7	04/15/2023	22859	22700	36	Marcellus
8	04/15/2023	22681	22521	36	Marcellus
9	04/15/2023	22503	22343	36	Marcellus
10	04/16/2023	22324	22165	36	Marcellus
11	04/16/2023	22146	21987	36	Marcellus
12	04/16/2023	21968	21809	36	Marcellus
13	04/17/2023	21790	21630	36	Marcellus
14	04/17/2023	21612	21452	36	Marcellus
15	04/17/2023	21433	21274	36	Marcellus
16	04/17/2023	21255	21096	36	Marcellus
17	04/17/2023	21077	20898	40	Marcellus
18	04/18/2023	20879	20700	40	Marcellus
19	04/18/2023	20681	20502	40	Marcellus
20	04/19/2023	20483	20304	40	Marcellus
21	04/19/2023	20285	20106	40	Marcellus
22	04/19/2023	20087	19908	40	Marcellus
23	04/19/2023	19889	19710	40	Marcellus
24	04/20/2023	19691	19512	40	Marcellus
25	04/20/2023	19493	19314	40	Marcellus
26	04/21/2023	19295	19116	40	Marcellus
27	04/21/2023	19097	18918	40	Marcellus
28	04/21/2023	18899	18720	40	Marcellus
29	04/22/2023	18701	18522	40	Marcellus
30	04/22/2023	18503	18324	40	Marcellus
31	04/23/2023	18305	18126	40	Marcellus
32	04/24/2023	18107	17928	40	Marcellus
33	04/24/2023	17909	17730	40	Marcellus
34	04/24/2023	17711	17532	40	Marcellus
35	04/25/2023	17513	17334	40	Marcellus
36	04/25/2023	17315	17136	40	Marcellus
37	04/25/2023	17117	16938	40	Marcellus
38	04/26/2023	16919	16740	40	Marcellus
39	04/26/2023	16721	16542	40	Marcellus
40	04/26/2023	16523	16344	40	Marcellus
41	04/27/2023	16325	16146	40	Marcellus
42	04/29/2023	16127	15948	40	Marcellus
43	04/29/2023	15929	15750	40	Marcellus
44	05/07/2023	15731	15552	40	Marcellus

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45	05/11/2023	15533	15354	40	Marcellus
46	05/13/2023	15335	15156	40	Marcellus
47	05/21/2023	15137	14958	40	Marcellus
48	05/22/2023	14939	14760	40	Marcellus
49	05/23/2023	14741	14562	40	Marcellus
50	05/23/2023	14543	14364	40	Marcellus
51	05/24/2023	14345	14166	40	Marcellus
52	05/24/2023	14147	13968	40	Marcellus
53	05/26/2023	13949	13770	40	Marcellus
54	05/26/2023	13751	13572	40	Marcellus
55	05/27/2023	13553	13374	40	Marcellus
56	05/27/2023	13355	13176	40	Marcellus
57	05/27/2023	13157	12978	40	Marcellus
58	05/28/2023	12959	12780	40	Marcellus
59	05/28/2023	12761	12582	40	Marcellus
60	05/29/2023	12563	12384	40	Marcellus
61	05/29/2023	12365	12186	40	Marcellus
62	05/30/2023	12167	11988	40	Marcellus
63	05/31/2023	11969	11790	40	Marcellus
64	06/01/2023	11771	11592	40	Marcellus
65	06/01/2023	11573	11394	40	Marcellus
66	06/01/2023	11375	11196	40	Marcellus
67	06/02/2023	11177	10998	40	Marcellus
68	06/04/2023	10979	10800	40	Marcellus
69	06/05/2023	10781	10602	40	Marcellus
70	06/09/2023	10583	10404	40	Marcellus
71	06/11/2023	10385	10206	40	Marcellus
72	06/11/2023	10187	10008	40	Marcellus
73	06/11/2023	9989	9810	40	Marcellus
74	06/12/2023	9791	9612	40	Marcellus
75	06/13/2023	9593	9414	40	Marcellus
76	06/17/2023	9395	9216	40	Marcellus
77	06/17/2023	9197	9018	40	Marcellus
78	06/17/2023	8999	8820	40	Marcellus
79	06/18/2023	8801	8622	40	Marcellus
80	06/18/2023	8603	8424	40	Marcellus
81	06/23/2023	8405	8226	40	Marcellus
82	06/23/2023	8207	8028	40	Marcellus
83	06/23/2023	8009	7830	40	Marcellus
84	06/24/2023	7811	7611	32	Marcellus

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Stimulation Data

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Stage #	Stimulation Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	04/11/2023	63	9368	7032	5156	176105	4748.000	
2	04/13/2023	98	9109	6228	5149	396351	9556.000	
3	04/14/2023	99	9131	6087	4953	396427	9457.000	
4	04/14/2023	99	9221	6776	5418	396451	9410.000	
5	04/15/2023	97	9374	6341	5100	396203	9356.000	
6	04/15/2023	96	9226	6446	5140	396103	9277.000	
7	04/15/2023	98	9289	6350	5227	396322	9280.000	
8	04/15/2023	97	9351	6554	4847	396352	9237.000	
9	04/16/2023	97	9264	6805	4735	396174	9313.000	
10	04/16/2023	97	9147	7178	5327	396158	13602.000	
11	04/16/2023	100	8969	6337	5406	396116	9409.000	
12	04/17/2023	97	8982	5882	5704	396336	9315.000	
13	04/17/2023	98	9165	6568	5428	396458	9304.000	
14	04/17/2023	99	9108	6489	5555	396315	9211.000	
15	04/17/2023	95	9061	6421	5502	396213	9167.000	
16	04/18/2023	98	9179	6259	5939	396101	9134.000	
17	04/18/2023	100	9146	6389	5660	440330	10097.000	
18	04/18/2023	100	9138	6636	5596	440463	10089.000	
19	04/19/2023	100	9101	6714	5398	440130	9962.000	
20	04/19/2023	100	9010	7170	5548	440406	9948.000	
21	04/19/2023	100	9042	6361	5124	440466	9929.000	
22	04/20/2023	100	9032	6299	5552	440145	9931.000	
23	04/20/2023	100	8878	6526	5183	440368	9945.000	
24	04/20/2023	99	9180	6468	5282	440412	9987.000	
25	04/21/2023	99	9127	6410	5452	440374	9926.000	
26	04/21/2023	99	9124	6029	5271	440417	10034.000	
27	04/22/2023	97	8890	6064	5058	440020	9980.000	
28	04/22/2023	98	8877	5730	4786	440451	9921.000	
29	04/23/2023	99	9059	6109	5378	440041	9886.000	
30	04/23/2023	100	9045	6298	5109	440364	9872.000	
31	04/24/2023	100	8999	6243	5094	440009	9902.000	
32	04/24/2023	97	8984	6072	5721	440381	9904.000	
33	04/24/2023	100	9025	5998	5896	440050	9865.000	
34	04/25/2023	100	8953	6431	6022	440383	9874.000	
35	04/25/2023	100	8914	6164	5799	440417	9833.000	
36	04/26/2023	100	8865	6114	6383	440027	9820.000	
37	04/26/2023	100	8909	6287	4897	440089	9751.000	
38	04/26/2023	100	8870	6112	5561	440444	9789.000	
39	04/26/2023	99	9032	6383	6721	440338	9759.000	
40	04/27/2023	100	8915	6061	5413	440007	9778.000	
41	04/27/2023	101	9088	6506	5432	440063	9778.000	
42	04/29/2023	100	8783	6628	4965	440014	9758.000	
43	05/07/2023	99	8789	6386	5796	440227	9864.000	

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44	05/12/2023	101	8814	6198	5472	440536	9869.000
45	05/13/2023	101	8496	6286	5738	440674	9949.000
46	05/21/2023	99	8926	6414	4957	440350	9786.000
47	05/22/2023	99	8332	6578	5636	440463	9805.000
48	05/23/2023	100	8442	6580	5468	440453	9817.000
49	05/23/2023	100	8351	6312	5768	440168	9927.000
50	05/24/2023	95	8592	6714	5184	440153	9780.000
51	05/25/2023	100	8311	6415	6212	440713	9891.000
52	05/26/2023	100	8648	6645	5409	440092	9841.000
53	05/26/2023	100	8577	6577	5942	440256	9690.000
54	05/27/2023	100	8725	6380	5771	440071	9858.000
55	05/27/2023	100	8531	5892	6101	440030	9789.000
56	05/28/2023	100	8577	6136	5962	440103	9900.000
57	05/28/2023	100	8484	6566	6143	440066	9657.000
58	05/29/2023	100	8735	6458	5991	440060	9820.000
59	05/29/2023	98	8561	6420	5777	440085	9855.000
60	05/30/2023	100	8398	6441	5772	440122	9745.000
61	05/30/2023	100	8587	6257	5691	440018	9718.000
62	05/31/2023	100	8639	6709	5834	440078	9785.000
63	06/01/2023	100	8451	6214	5848	440095	9662.000
64	06/01/2023	100	8446	6297	5739	440177	9729.000
65	06/02/2023	100	8401	6268	5321	440131	9709.607
66	06/02/2023	100	8166	4435	5461	440148	9708.000
67	06/04/2023	94	8661	6606	5389	436035	9780.000
68	06/05/2023	100	8225	6678	5514	440081	9778.000
69	06/08/2023	99	8557	6857	4910	440082	9685.000
70	06/11/2023	100	8362	6695	6556	440460	9671.000
71	06/11/2023	100	8442	6083	5838	440103	9664.000
72	06/12/2023	100	8247	6504	5579	440386	9734.000
73	06/12/2023	81	9046	6271	5211	440189	9996.000
74	06/13/2023	100	7839	6588	5359	440153	9723.000
75	06/17/2023	100	7857	6553	5823	440421	9712.000
76	06/17/2023	97	8497	7191	5379	440131	10966.000
77	06/18/2023	100	7906	6426	6105	440414	9635.000
78	06/18/2023	100	8093	6275	5928	440414	9619.000
79	06/19/2023	100	7992	6764	5585	440486	9596.000
80	06/23/2023	100	8311	6494	5800	440110	9639.000
81	06/24/2023	100	8056	6842	5655	440105	9668.000
82	06/24/2023	100	7865	6767	5799	440084	9664.000
83	06/24/2023	100	7904	6784	5886	440117	9656.000
84	06/24/2023	95	9081	6942	5719	352179	7764.000

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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:	47-103-03435-00-00
Operator Name:	EQT Production
Well Name and Number:	BIG464 9H
Latitude:	39.56762720
Longitude:	-80.51640610
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,489
Total Base Water Volume (gal):	34,238,341
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical 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	88.65346	None
Sand (Proppant)	EQT	Proppant	Silica Substrate	14808-60-7	100.00000	11.15899	None
Clearal 268	ChemStream	Biocide	Non-hazardous substances	Proprietary	80.00000	0.00896	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor	Non-hazardous substances	Proprietary	90.00000	0.00770	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	Copolymer of 2-propenamide	Proprietary	30.00000	0.00666	None
StimSTREAM FR 9800	ChemStream	Friction Reducer	Petroleum Distillate	64742-47-8	20.00000	0.00296	None
15% HCC	Evolution Well Services	Acid	Hydrogen Chloride	7647-01-0	15.00000	0.00201	None
Clearal 268	ChemStream	Biocide	Glutaraldehyde	111-30-8	20.00000	0.00056	None
Plexhib 166	Evolution	Acid Corrosion Inhibitor					

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Office of Oil and Gas
West Virginia Department of Environmental Protection

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SlimSTREAM SC-398	ChemStream	Scale Inhibitor	Methanol	67-56-1	90.00000	0.00021	None
			Bis(Hexamethylene Triamine Penta(Methylene Phosphonic Acid)(BHMT)	34690-00-1	10.00000	0.00010	None
Ferriplex 66	Evolution	Iron Control	Acetic acid	64-19-7	50.00000	0.00005	None
SlimSTREAM FR 9800	ChemStream	Friction Reducer	Oleic Acid Diethanolamide	93-83-4	2.00000	0.00003	None
SlimSTREAM FR 9800	ChemStream	Friction Reducer	Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00003	None
Ferriplex 66	Evolution	Iron Control	Citric Acid	000077-92-9	30.00000	0.00002	None
SlimSTREAM FR 2800	ChemStream	Friction Reducer	Distillates (petroleum), hydrated light	64742-47-8	25.00000	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
SlimSTREAM 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
SlimSTREAM FR 2800	ChemStream	Friction Reducer	Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00000	None
Plexhib 166	Evolution	Acid Corrosion Inhibitor	Alcohols, C14-C15, ethoxylated	68951-67-7	7.00000	0.00000	None
Plexhib 166	Evolution	Acid Corrosion Inhibitor	Propargyl alcohol	107-19-7	5.00000	0.00000	None
EZ-A 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Ethoxylated Nonylphenols	127087-87-0	5.00000	None	None
EZ-A 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Ethanoic Acid	64-19-7	15.00000	None	None
EZ-A 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Ethoxylated Alcohols	Proprietary	15.00000	None	None
EZ-A 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	68909-18-2	25.00000	None	None
EZ-A 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	2-ethylhexanol	104-76-7	5.00000	None	None

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EZ-A 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Proprietary	Proprietary	10.00000	None
EZ-A 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Methanol	67-56-1	25.00000	None
EZ-A 431	Tarquin-Coolpro LLC	Acid Corrosion Inhibitor	Proprietary	Proprietary	10.00000	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.

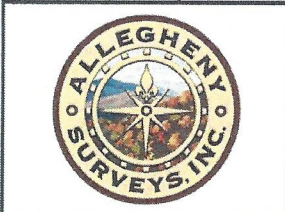
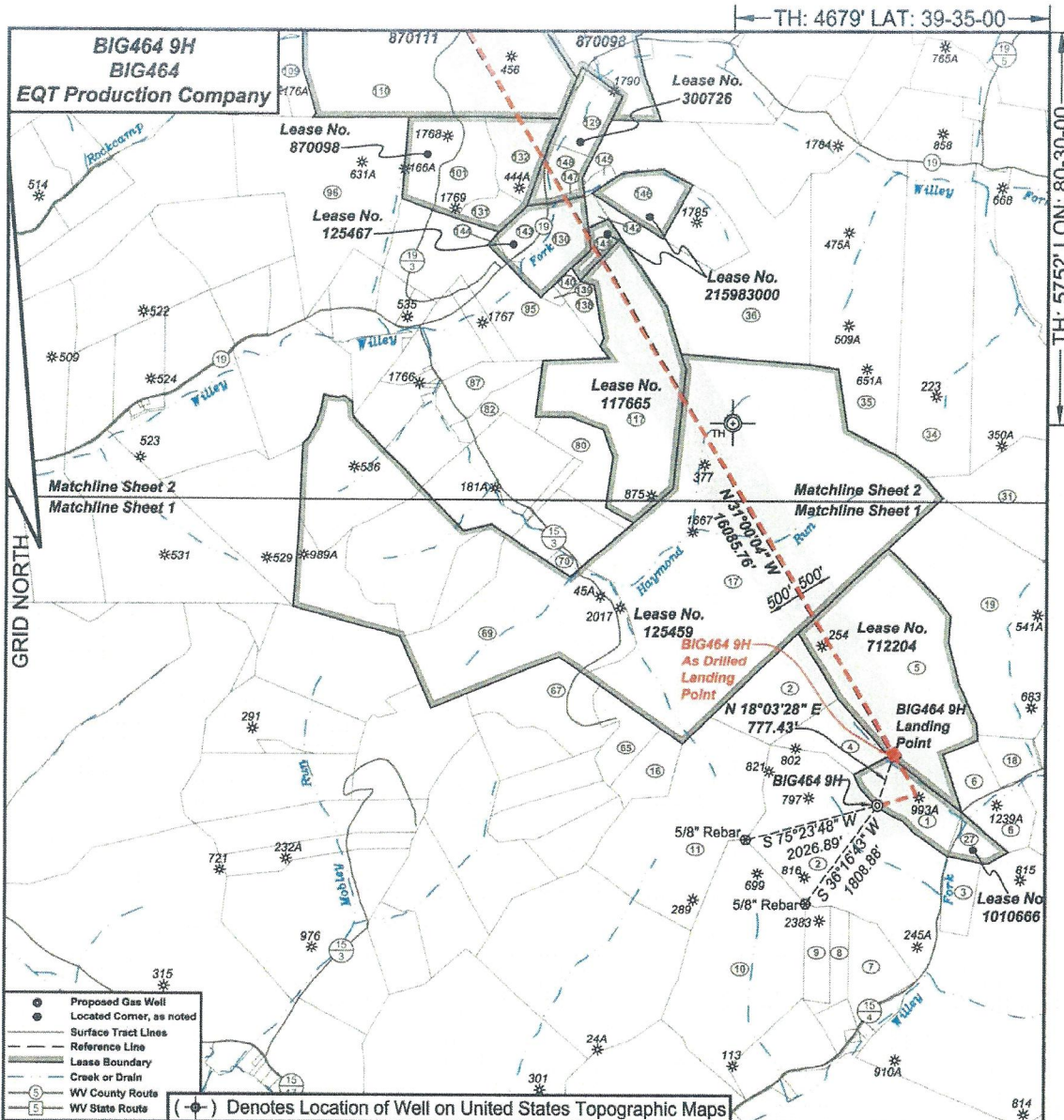
* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** 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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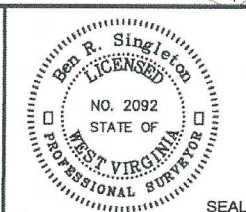
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Ben R. Singleton

P.S. 2092



FILE NO: 125-16
 DRAWING NO: BIG464 9H
 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 17 20 22
 OPERATOR'S WELL NO.: BIG464 9H
 API WELL NO
 47 - 103 - 03435
 STATE COUNTY PERMIT

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
 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'

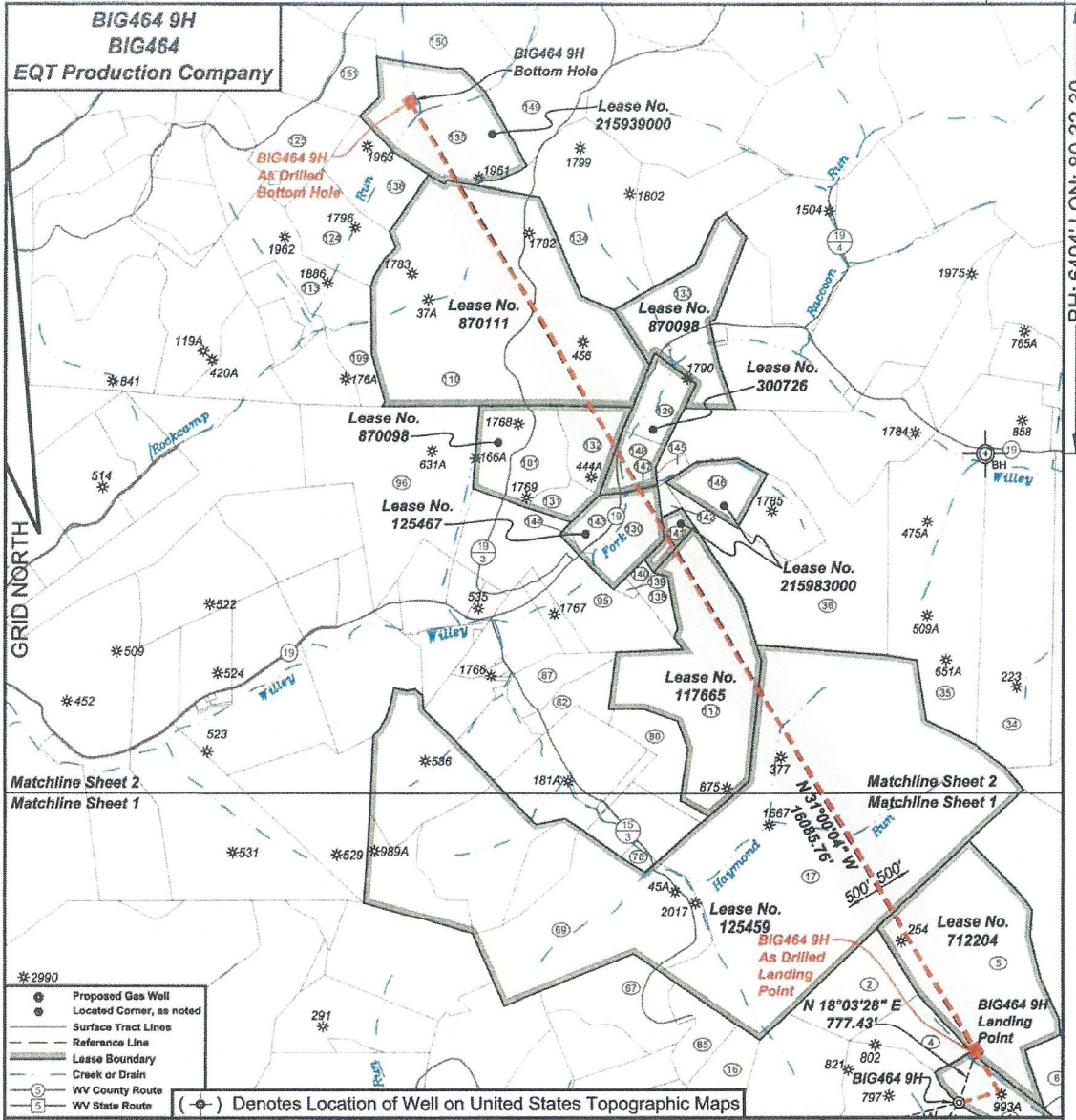
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
 ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280
 Canonsburg, PA 15317 Bridgeport, WV 26330

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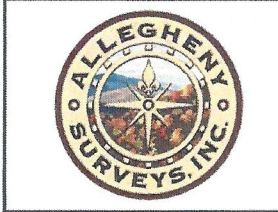
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BH: 1144' LAT: 39-37-30

BH: 6494' LON: 80-32-30



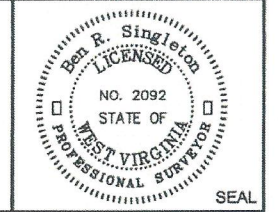
- *2990
- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- WV County Route
- WV State Route
- (○) Denotes Location of Well on United States Topographic Maps



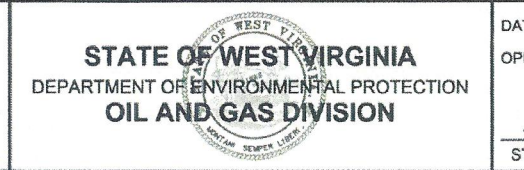
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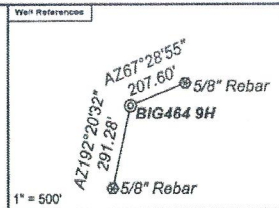
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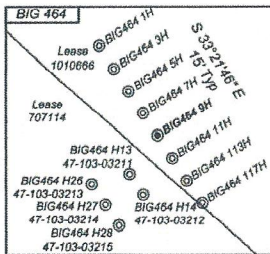
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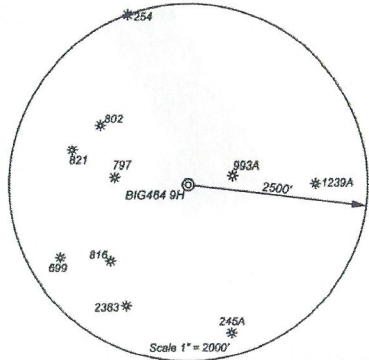
BIG464 9H BIG464 EQT Production Company								
Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres		
1	14	34	Wetzel	Grant	EQT Production Company	25.25		
2	20	1	Wetzel	Grant	Coastal Forest Resources Company	520.00		
3	15	27	Wetzel	Grant	Beverly Lynn Barr Life Estate	10.00		
4	14	27	Wetzel	Grant	EQT Production Company	22.00		
5	14	20	Wetzel	Grant	EQT Production Company	128.50		
6	15	16	Wetzel	Grant	Donald J. D'Lusky	25.00		
7	14	45	Wetzel	Grant	Coastal Forest Resources Company	11.08		
8	14	44	Wetzel	Grant	Mabel F. Barr	11.00		
9	14	43	Wetzel	Grant	Mabel F. Barr	11.51		
10	14	42	Wetzel	Grant	Donald J. D'Lusky	111.00		
11	14	33	Wetzel	Grant	Alta H. & Hilda B. Conaway	106.00		
12	14	32	Wetzel	Grant	Mary Jane Byrd	13.30		
13	14	6	Wetzel	Grant	Coastal Forest Resources Company	332.90		
14	15	18	Wetzel	Grant	Donald J. D'Lusky	39.80		
15	15	12	Wetzel	Grant	William Bowers & Donald J. D'Lusky	147.50		
16	27		Wetzel	Grant	No Tax Map & Parcel Information			
17	31	15	5	Wetzel	Grant	William Bowers, et al.	43.20	
18	34	10	28	Wetzel	Grant	Coastal Forest Resources Company	107.00	
19	35	9	39	Wetzel	Grant	Coastal Forest Resources Company	128.00	
20	38	9	38	Wetzel	Grant	Terry L. & Carolyn M. Fry	155.08	
21	85	14	25	Wetzel	Grant	Mary Jane Byrd	14.50	
22	67	14	25	Wetzel	Grant	ET Blue Grass, LLC	35.85	
23	69	14	19	Wetzel	Grant	Coastal Forest Resources Company	138.65	
24	70	14	13	Wetzel	Grant	Coastal Forest Resources Company	2.80	
25	80	14	5	Wetzel	Grant	Dale K. & Sherry Dulaney	21.50	
26	82	9	80	Wetzel	Grant	Jeffrey Willey Life Estate	18.50	
27	87	9	60	1	Wetzel	Grant	Clyde R. & Corrie L. Fordyce	16.70
28	85	9	30	Wetzel	Grant	John D. Parks, et al.	73.86	
29	90	9	23	Wetzel	Grant	Stephen B. & Carolyn M. Gantz	119.00	
30	101	9	24	Wetzel	Grant	John D. Parks, et al.	40.00	
31	109	9	18	Wetzel	Grant	W. K. Wiley Estate	13.40	
32	110	9	10	Wetzel	Grant	William B. & Pamela Francis	233.37	
33	113	9	8	Wetzel	Grant	James A. Yoho	45.08	
34	117	9	61	Wetzel	Grant	Jimbob Quiet Mountain Retreat	114.10	
35	124	9	7	Wetzel	Grant	James D. & Collette J. Strouts	34.00	
36	125	4	7	Wetzel	Grant	Earl Stonewing	45.50	
37	129	9	62	Wetzel	Grant	William B. & Pamela S. Francis	30.50	
38	130	9	32	Wetzel	Grant	Terry L. & Carolyn M. Fry	23.85	
39	131	9	25	Wetzel	Grant	Deborah Fronczak & John Parks	6.98	
40	132	9	25	1	Wetzel	Grant	William B. & Pamela S. Francis	23.20
41	133	9	11	Wetzel	Grant	Elizabeth Amundson, et al.	83.37	
42	134	9	2	Wetzel	Grant	Liberty Holding Company	74.90	
43	135	4	8	Wetzel	Grant	James A. Yoho	83.00	
44	136	4	15	Wetzel	Grant	James A. Yoho	30.00	
45	138	9	51	Wetzel	Grant	H. J. Zimmerman	8.10	
46	139	9	90	Wetzel	Grant	Terry L. & Carolyn M. Fry	1.30	
47	140	9	61	1	Wetzel	Grant	H. J. Zimmerman	2.00
48	141	9	35	Wetzel	Grant	Terry L. & Carolyn M. Fry	8.25	
49	142	9	34	Wetzel	Grant	Terry L. & Carolyn M. Fry	3.25	
50	143	9	32	2	Wetzel	Grant	John D. Parks & Deborah Fronczak	8.95
51	144	9	31	Wetzel	Grant	John D. Parks, et al.	1.20	
52	145	9	28	1	Wetzel	Grant	Terry L. & Carolyn M. Fry	3.40
53	146	9	38	1	Wetzel	Grant	Terry L. & Carolyn M. Fry	15.00
54	147	9	33	1	Wetzel	Grant	Terry L. & Carolyn M. Fry	0.95
55	148	9	26	1	Wetzel	Grant	Elizabeth L. Taylor, et al.	10.00
56	149	20	38	1	Wetzel	Grant	William B. Francis, Sr. & Pamela Spross	88.58
57	150	4	5	1	Wetzel	Grant	James Daniel Kennedy	100.00
58	151	4	4	1	Wetzel	Grant	Ralph D. Theaker & Maurine J. Carlisle, Jr.	53.50



As Drilled Well Information:
 BIG464 9H coordinates are
 NAD 27 N: 390,443.43 E: 1,713,414.48
 NAD 83 UTM N: 4,379,881.53 E: 541,538.70
 BIG464 9H Kick Out Point coordinates are
 NAD 27 N: 390,447.24 E: 1,713,413.52
 NAD 83 UTM N: 4,379,882.68 E: 541,538.39
 BIG464 9H Landing Point coordinates are
 NAD 27 N: 391,203.59 E: 1,713,652.29
 NAD 83 UTM N: 4,380,114.33 E: 541,607.30
 BIG464 9H Bottom Hole coordinates are
 NAD 27 N: 404,968.54 E: 1,705,368.60
 NAD 83 UTM N: 4,384,265.81 E: 539,013.70
 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.

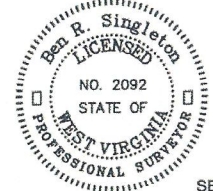


Lease No.	Owner	Acres
712204	Janice E. Nolan, et al.	120
125459	Randel J. Hartman, et al.	693
117665	AMP Fund III, L.P., et al.	150
215989000	The Mineral Company LLC	21.25
125467	Roger K. Hinerman, et al.	34
300726	Emma Joyce Dahlin Anderson, et al.	43
870086	Emma Joyce Dahlin Anderson, et al.	196.5
870111	Three Rivers Royalty II, LLC, et al.	234
215989000	James Arthur Yoho, et al.	62.75



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STATE OF WEST VIRGINIA
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 OIL AND GAS DIVISION

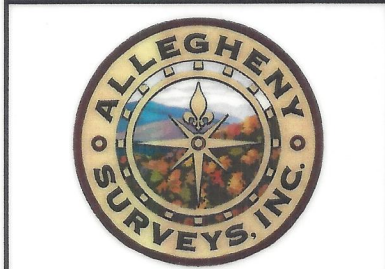
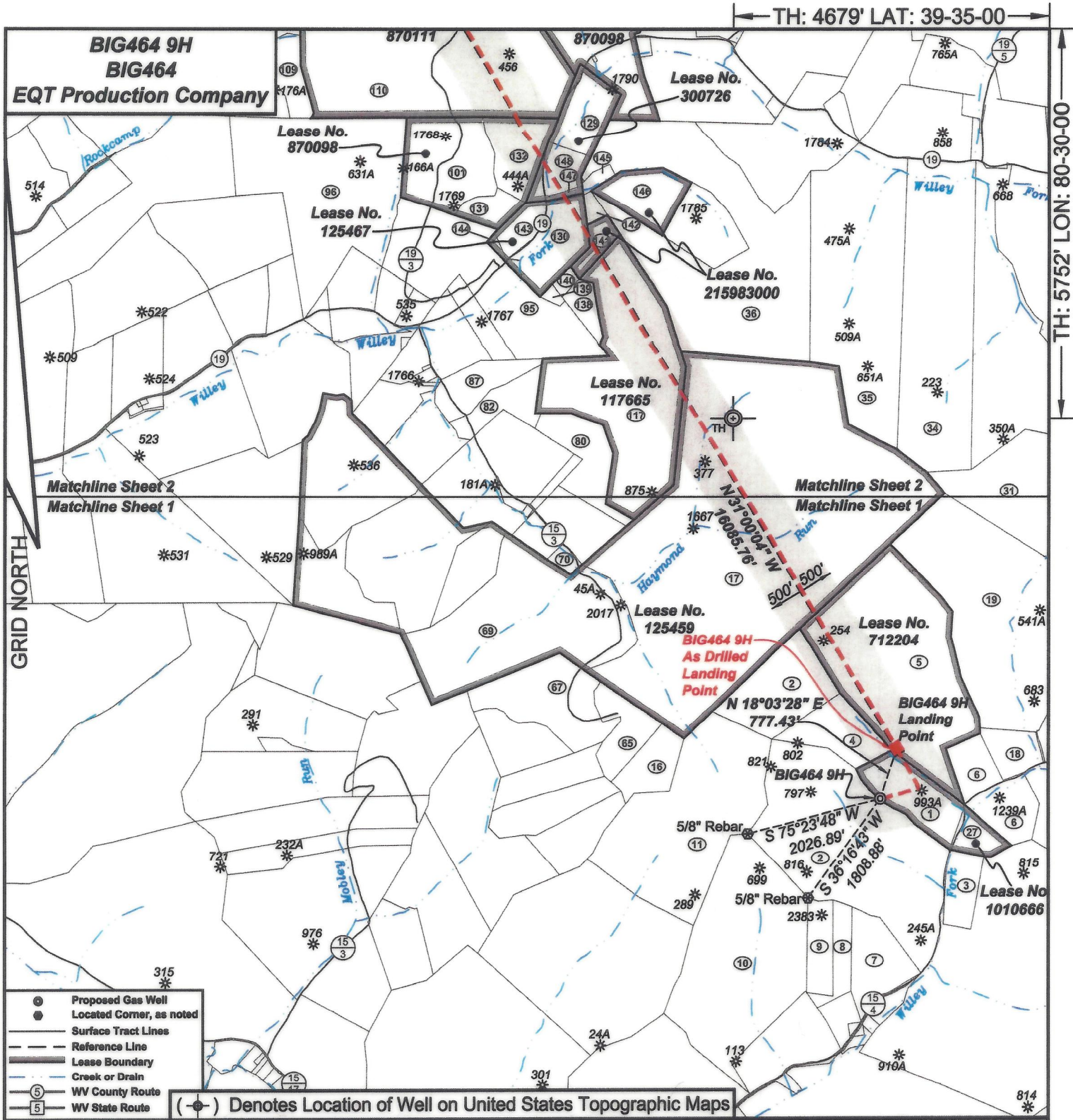
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WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 1246.8' WATERSHED: Wiley Fork QUADRANGLE: Big Run
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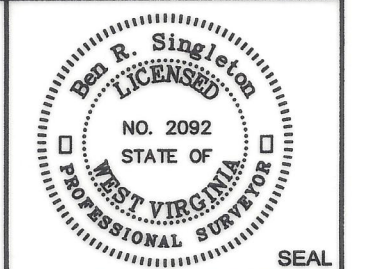
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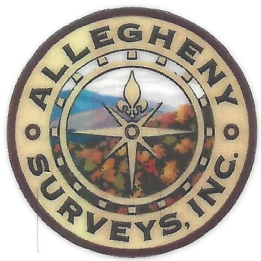
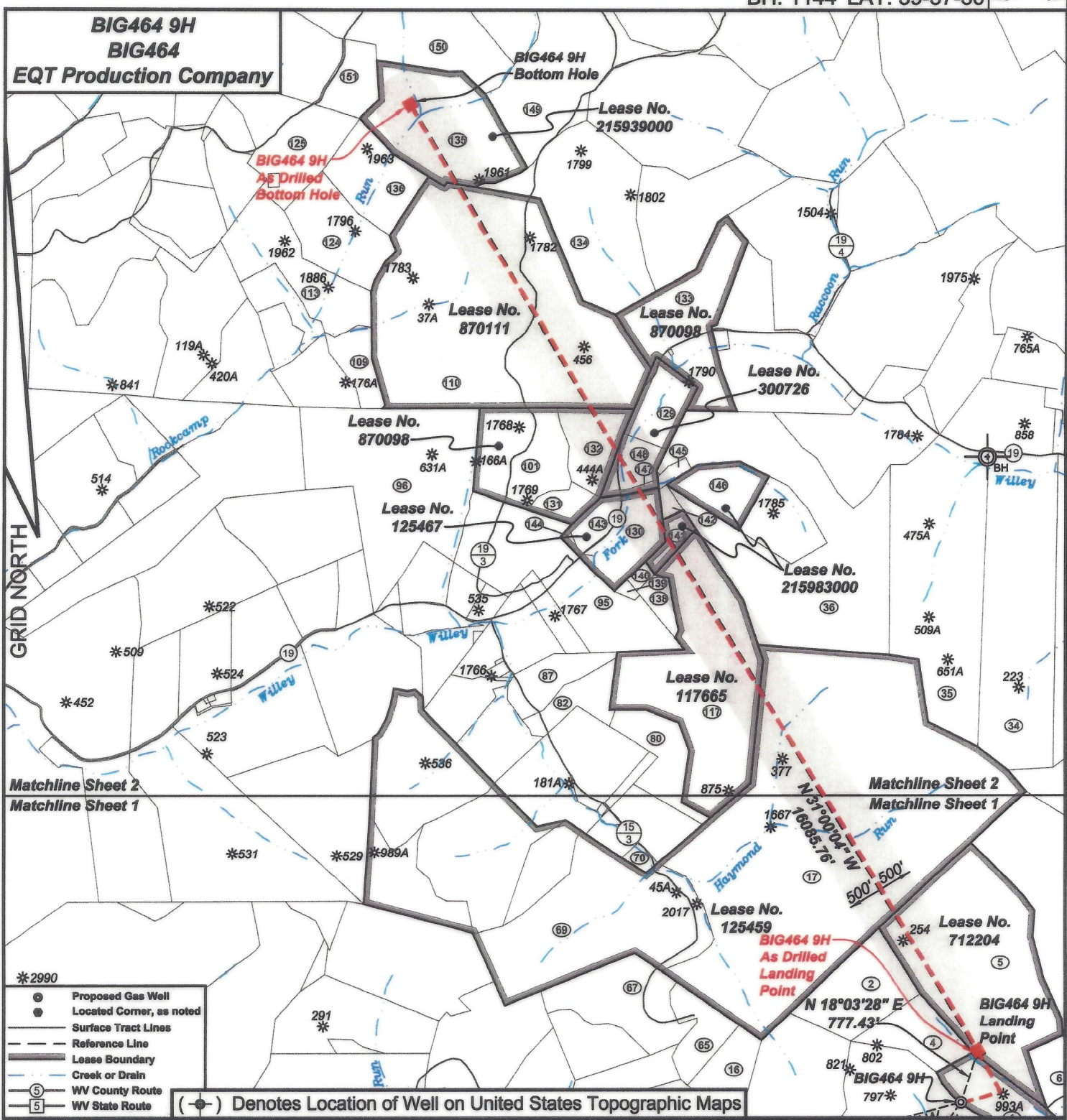
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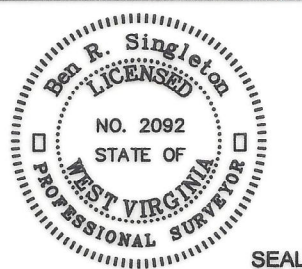
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SEAL

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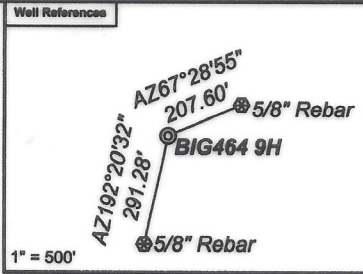
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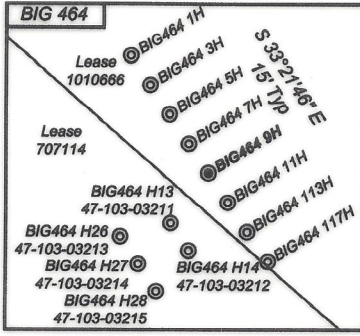
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BIG464 9H
BIG464
EQT Production Company

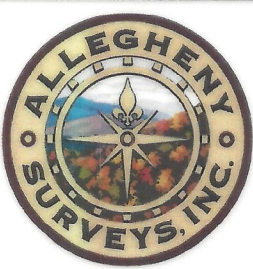
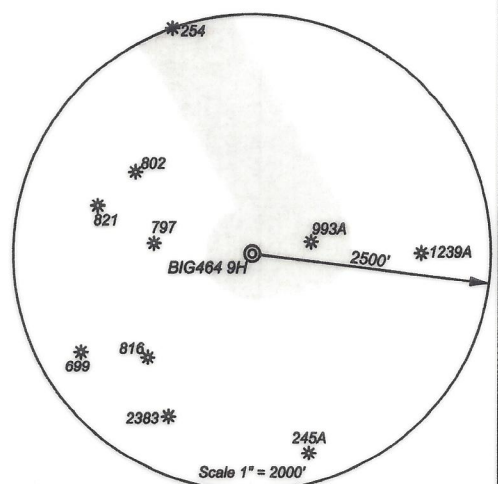
Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	14	34	Wetzel	Grant	EQT Production Company	25.25
2	20	1	Wetzel	Grant	Coastal Forest Resources Company	520.00
3	15	27	Wetzel	Grant	Beverly Lynn Barr Life Estate	10.00
4	14	27	Wetzel	Grant	EQT Production Company	22.00
5	14	20	Wetzel	Grant	EQT Production Company	128.50
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	Allee H. & Hilda B. Conaway	108.00
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	26	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	138.68
70	14	13	Wetzel	Grant	Coastal Forest Resources Company	2.80
80	14	5	Wetzel	Grant	Dale K. & Sherry Dulaney	21.50
82	9	60	Wetzel	Grant	Jeffery Willey Life Estate	18.50
87	9	59.1	Wetzel	Grant	Clydie R. & Connie L. Fordyce	16.70
95	9	30	Wetzel	Grant	John D. Parks, et al.	73.66
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	6	Wetzel	Grant	James A. Yoho	45.06
117	9	61	Wetzel	Grant	Jimbo's 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
130	9	32	Wetzel	Grant	Terry L. & Carolyn M. Fry	23.85
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
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	8.25
142	9	34	Wetzel	Grant	Terry L. & Carolyn M. Fry	3.25
143	9	32.2	Wetzel	Grant	John D. Parks & Deborah Fronczek	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
146	9	38	Wetzel	Grant	Terry L. & Carolyn M. Fry	15.00
147	9	33	Wetzel	Grant	Terry L. & Carolyn M. Fry	0.95
148	9	26	Wetzel	Grant	Elizabeth L. Taylor, et al.	10.06
149	20	38	Wetzel	Center	William B. Franck, Sr. & Pamela Spinoao	68.58
150	4	5	Wetzel	Grant	James Daniel Kennedy	100.00
151	4	4	Wetzel	Grant	Ralph D. Thacker & Maurice J. Carlele, Jr.	63.60



As Drilled Well Information:
BIG464 9H coordinates are
 NAD 27 N: 390,443.43 E: 1,713,414.48
 NAD 83 UTM N: 4,379,881.53 E: 541,538.70
BIG464 9H Kick Out Point coordinates are
 NAD 27 N: 390,447.24 E: 1,713,413.52
 NAD 83 UTM N: 4,379,882.68 E: 541,538.39
BIG464 9H Landing Point coordinates are
 NAD 27 N: 391,203.59 E: 1,713,652.29
 NAD 83 UTM N: 4,380,114.33 E: 541,607.30
BIG464 9H Bottom Hole coordinates are
 NAD 27 N: 404,988.54 E: 1,705,368.60
 NAD 83 UTM N: 4,384,265.81 E: 539,013.70
 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.

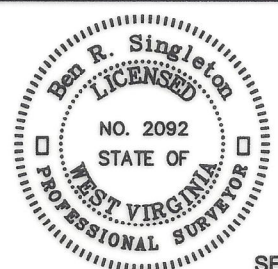


Lease No.	Owner	Acres
712204	Janice E. Nolan, et al.	120
125459	Randel J. Hartman, et al.	693
117685	AMP Fund III, L.P., et al.	150
215983000	The Mineral Company LLC	21.25
125467	Roger K. Hinerman, et al.	34
300726	Emma Joyce Dahlin Anderson, et al.	43
870098	Emma Joyce Dahlin Anderson, et al.	196.5
870111	Three Rivers Royalty II, LLC, et al.	234
215939000	James Arthur Yoho, et al.	62.75



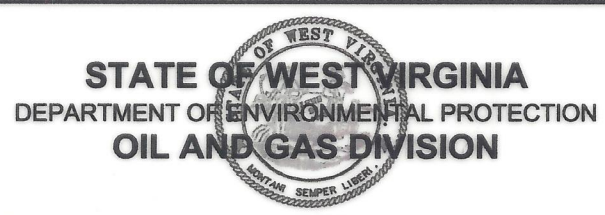
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Ben R. Singleton
P.S. 2092



SEAL

FILE NO: 125-16
 DRAWING NO: BIG464 9H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: May 17 20 22
 OPERATOR'S WELL NO.: BIG464 9H
 API WELL NO
 47 - 103 - 03435
 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