

02/10/2023

WR-35  
Rev. 8/23/13

Page 1 of 4

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

API 47 - 085 - 10415 County Wetzel District Union  
Quad TH:Pullman BH: Oxford Pad Name Weekly West Field/Pool Name ----  
Farm name David W & David Martin Weekley Well Number Earl Unit 2H  
Operator (as registered with the OOG) Antero Resources Corporation  
Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4335634m Easting 510779m  
Landing Point of Curve Northing 4335914.09m Easting 511099.50m  
Bottom Hole Northing 4331954m Easting 511473m

Elevation (ft) 1125' 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)  
Air - Foam & 4% KCL  
Mud - Polymer

Date permit issued 11/10/2021 Date drilling commenced 1/5/2022 Date drilling ceased 2/28/2022  
Date completion activities began 4/28/2022 Date completion activities ceased 6/13/2022  
Verbal plugging (Y/N) N/A 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 401', 478' Open mine(s) (Y/N) depths No  
Salt water depth(s) ft 1511', 1926' Void(s) encountered (Y/N) depths No  
Coal depth(s) ft 1495', 742' Cavern(s) encountered (Y/N) depths No  
Is coal being mined in area (Y/N) No

Reviewed by:

02/10/2023

WR-35  
Rev. 8/23/13

Page 2 of 4

API 47- 085 - 10415 Farm name David W & David Martin Weekley Well number Earl Unit 2H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	24"	20"	80'	New	78#, X60	N/A	Y
Surface	17-1/2"	13-3/8"	549'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2775'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	21220'	New	23#, P-100	N/A	Y
Tubing		2-3/8"	7179'		4.7#, P-110		
Packer type and depth set		N/A					

Comment Details \_\_\_\_\_

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 (MD)	WOC (hrs)
Conductor	Class A	209 sx	15.6	1.18	44	0'	8 Hrs.
Surface	Class A	681 sx	15.8	1.16	141	0'	8 Hrs.
Coal							
Intermediate 1	Class A	947 sx	15.8	1.16	208	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	875 sx (Lead) 2814 sx (Tail)	15.2 (Lead), 15.2(Tail)	1.19 (Lead), 1.18 (Tail)	776	-500' Into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 21265' MD, 6539' TVD (BHL), 6569' (Deepest Point Drilled) Loggers TD (ft) 21265' MD  
 Deepest formation penetrated Marcellus Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 6045'

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 - 0  
 Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface  
 Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface  
 Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

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 N/A

WR-35  
Rev. 8/23/13

API 47- 085 - 10415 Farm name David W & David Martin Weekley Well number Earl Unit 2H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
<b>*PLEASE SEE ATTACHED EXHIBIT 1</b>					

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)
<b>*PLEASE SEE ATTACHED EXHIBIT 2</b>								

Please insert additional pages as applicable.

02/10/2023

WR-35  
Rev. 8/23/13

Page 4 of 4

API 47- 085 - 10415 Farm name David W & David Martin Weekley Well number Earl Unit 2H

PRODUCING FORMATION(S)	DEPTHS			
Marcellus	6516' (TOP)	TVD	7239' (TOP)	MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2800 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 12854 mcfpd Oil 101 bpd NGL --- bpd Water 184 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

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

**\*PLEASE SEE ATTACHED EXHIBIT 3**


Please insert additional pages as applicable.

Drilling Contractor H & P Drilling  
Address 912 N Eagle Valley Rd City Howard State PA Zip 16841

Logging Company Nine Energy Services  
Address 6500 West Fwy City Fort Worth State TX Zip 76116

Cementing Company Halliburton Energy Services  
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

Stimulating Company Halliburton  
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

Please insert additional pages as applicable.

Completed by Brandi Hankins Telephone 304-842-9759  
Signature  Title Completions Technician Date 2/2/23

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

02/10/2023

API 47-085-10415 Farm Name David W & David Martin Weekley Well Number Earl Unit 2H					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	04/28/2022	21149	21104	36	Marcellus
2	04/28/2022	21066.6401	20901.8406	36	Marcellus
3	04/29/2022	20866.48068	20701.6812	36	Marcellus
4	04/29/2022	20666.32126	20501.5217	36	Marcellus
5	04/29/2022	20466.16184	20301.3623	36	Marcellus
6	04/30/2022	20266.00242	20101.2029	36	Marcellus
7	04/30/2022	20065.843	19901.0435	36	Marcellus
8	04/30/2022	19865.68357	19700.8841	36	Marcellus
9	05/01/2022	19665.52415	19500.7246	36	Marcellus
10	05/01/2022	19465.36473	19300.5652	36	Marcellus
11	05/01/2022	19265.20531	19100.4058	36	Marcellus
12	05/02/2022	19065.04589	18900.2464	36	Marcellus
13	05/02/2022	18864.88647	18700.087	36	Marcellus
14	05/02/2022	18664.72705	18499.9275	36	Marcellus
15	05/03/2022	18464.56763	18299.7681	36	Marcellus
16	05/03/2022	18264.40821	18099.6087	36	Marcellus
17	05/03/2022	18064.24879	17899.4493	36	Marcellus
18	05/04/2022	17864.08937	17699.2899	36	Marcellus
19	05/04/2022	17663.92995	17499.1304	36	Marcellus
20	05/04/2022	17463.77053	17298.971	36	Marcellus
21	05/04/2022	17263.61111	17098.8116	36	Marcellus
22	05/05/2022	17063.45169	16898.6522	36	Marcellus
23	05/05/2022	16863.29227	16698.4928	36	Marcellus
24	05/06/2022	16663.13285	16498.3333	36	Marcellus
25	05/06/2022	16462.97343	16298.1739	36	Marcellus
26	05/06/2022	16262.81401	16098.0145	36	Marcellus
27	05/07/2022	16062.65459	15897.8551	36	Marcellus
28	05/07/2022	15862.49517	15697.6957	36	Marcellus
29	05/07/2022	15662.33575	15497.5362	36	Marcellus
30	05/08/2022	15462.17633	15297.3768	36	Marcellus
31	05/08/2022	15262.01691	15097.2174	36	Marcellus
32	05/08/2022	15061.85749	14897.058	36	Marcellus
33	05/08/2022	14861.69807	14696.8986	36	Marcellus
34	05/09/2022	14661.53865	14496.7391	36	Marcellus
35	05/09/2022	14461.37923	14296.5797	36	Marcellus
36	05/09/2022	14261.21981	14096.4203	36	Marcellus
37	05/09/2022	14061.06039	13896.2609	36	Marcellus
38	05/10/2022	13860.90097	13696.1014	36	Marcellus
39	05/10/2022	13660.74155	13495.942	36	Marcellus
40	05/10/2022	13460.58213	13295.7826	36	Marcellus
41	05/11/2022	13260.42271	13095.6232	36	Marcellus
42	05/11/2022	13060.26329	12895.4638	36	Marcellus
43	05/11/2022	12860.10386	12695.3043	36	Marcellus
44	05/11/2022	12659.94444	12495.1449	36	Marcellus
45	05/12/2022	12459.78502	12294.9855	36	Marcellus
46	05/12/2022	12259.6256	12094.8261	36	Marcellus
47	05/12/2022	12059.46618	11894.6667	36	Marcellus
48	05/13/2022	11859.30676	11694.5072	36	Marcellus
49	05/13/2022	11659.14734	11494.3478	36	Marcellus
50	05/13/2022	11458.98792	11294.1884	36	Marcellus
51	05/13/2022	11258.8285	11094.029	36	Marcellus
52	05/14/2022	11058.66908	10893.8696	36	Marcellus
53	05/14/2022	10858.50966	10693.7101	36	Marcellus
54	05/14/2022	10658.35024	10493.5507	36	Marcellus
55	05/15/2022	10458.19082	10293.3913	36	Marcellus
56	05/15/2022	10258.0314	10093.2319	36	Marcellus
57	05/15/2022	10057.87198	9893.07246	36	Marcellus
58	05/15/2022	9857.71256	9692.91304	36	Marcellus
59	05/16/2022	9657.55314	9492.75362	36	Marcellus
60	05/16/2022	9457.39372	9292.5942	36	Marcellus
61	05/16/2022	9257.2343	9092.43478	36	Marcellus
62	05/17/2022	9057.074879	8892.27536	36	Marcellus
63	05/18/2022	8856.915459	8692.11594	36	Marcellus
64	05/18/2022	8656.756039	8491.95652	36	Marcellus
65	05/18/2022	8456.596618	8291.7971	36	Marcellus
66	05/18/2022	8256.437198	8091.63768	36	Marcellus
67	05/19/2022	8056.277778	7891.47826	36	Marcellus
68	05/19/2022	7856.118357	7691.31884	36	Marcellus
69	05/19/2022	7655.958937	7491.15942	36	Marcellus
70	05/19/2022	7455.799517	7291	36	Marcellus

02/10/2023

---

02/10/2023

API 47-085-10415 Farm Name David W & David Martin Weekley, Well Number Earl Unit 2H								
EXHIBIT 2								
Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/ other (units)
1	04/28/2022	43.3	7412	7493	3433	41629	154149	N/A
2	04/28/2022	81.42	8284	5585	3502	411800	330367	N/A
3	04/29/2022	82.78	8145	4607	2570	405000	313964	N/A
4	04/29/2022	83.53	8090	7495	2951	407400	322726	N/A
5	04/29/2022	85.78	8174	6413	3020	403540	326302	N/A
6	04/30/2022	86.86	8145	5511	2778	402620	337784	N/A
7	04/30/2022	85.12	8463	6986	2960	405600	311993	N/A
8	04/30/2022	88.43	8550	7158	3495.36	403320	308552	N/A
9	05/01/2022	84.52	8179	6494	3004	403300	306304	N/A
10	05/01/2022	88.12	8421	6803	2775	407840	334906	N/A
11	05/01/2022	87.24	8534	6591	3189	404160	307839	N/A
12	05/02/2022	89.37	8388	5194	3624.67	399220	297790	N/A
13	05/02/2022	85.08	8382	6982	3020	407080	298891	N/A
14	05/02/2022	86.53	8500	6680	3223.02	403740	306190	N/A
15	05/03/2022	86.14	8471	6706	2925.69	401320	306737	N/A
16	05/03/2022	86.75	8444	7928	2847	406340	291552	N/A
17	05/03/2022	82.49	8444	6970	3157.96	404460	305258	N/A
18	05/04/2022	86.29	8451	5835	3061.32	411500	303310	N/A
19	05/04/2022	87.65	8510	7995	2814	408120	307887	N/A
20	05/04/2022	88.76	8505	7997	2851	411660	300403	N/A
21	05/04/2022	83.98	8385	6531	3426.38	406320	295912	N/A
22	05/05/2022	85.65	8591	7907	3186	411920	300662	N/A
23	05/05/2022	83.11	8457	6484	3392.25	409220	288851	N/A
24	05/06/2022	83.82	8495	6730	3240.97	410180	295110	N/A
25	05/06/2022	88.48	8606	8305	2728	408440	301327	N/A
26	05/06/2022	89.8	8428	6536	3381.4	403380	285306	N/A
27	05/07/2022	91.21	8286	7125	3425.71	406580	291741	N/A
28	05/07/2022	92.14	8603	7873	3091	412180	308677	N/A
29	05/07/2022	89.26	8517	6635	3259.25	401820	297086	N/A
30	05/08/2022	86.96	8512	7736	3095.01	403340	293654	N/A
31	05/08/2022	91.01	8466.45	6557.08	2908.93	409220	293947	N/A
32	05/08/2022	88.59	8370.39	7559.42	2916.81	404880	302083	N/A
33	05/08/2022	88.76	8614	7611	2905.13	403420	292056	N/A
34	05/09/2022	92.98	8344	6803	3348.35	406040	284201	N/A
35	05/09/2022	92.68	8527	8023	2786	407000	288957	N/A
36	05/09/2022	88.7	8474	7951	2824	402200	292834	N/A
37	05/09/2022	91.34	8438	6781	2823.77	401380	291287	N/A
38	05/10/2022	95.62	8231	7875	2664.95	400820	293575	N/A
39	05/10/2022	96.72	8438	7957	2853	403480	295812	N/A
40	05/10/2022	94.22	8385	6910	2741	404660	298653	N/A
41	05/11/2022	97.33	8307	6227	3018	407240	300658	N/A
42	05/11/2022	98.39	8216	7964	2917	409300	298058	N/A
43	05/11/2022	93.08	8256	8531	2838	405440	293012	N/A
44	05/11/2022	97.76	8176	7199	2928	405920	284867	N/A
45	05/12/2022	96.65	8236	6941	3144	403620	286143	N/A
46	05/12/2022	97.85	7989	8022	2818	408120	296132	N/A
47	05/12/2022	89.05	8199	8106	3004	410080	354729	N/A
48	05/13/2022	95.72	8033	7131	2942	408760	298779	N/A
49	05/13/2022	94.73	8032	8152	2730	408960	295382	N/A
50	05/13/2022	97.16	7739	8203	2706	411340	289145	N/A
51	05/13/2022	99.31	7689	7648	2810	403780	280426	N/A
52	05/14/2022	99.32	7885	7879	3059	405460	279838	N/A
53	05/14/2022	97.94	7562	7909	2864	412580	293865	N/A
54	05/14/2022	90.31	7765	7985	2841	404860	299321	N/A
55	05/15/2022	99.67	7435	6588	3182	403820	291772	N/A
56	05/15/2022	98.16	7325	7528	2997	403900	291995	N/A
57	05/15/2022	98.59	7416	7636	2990	405240	291358	N/A
58	05/15/2022	98.65	7480	7846	3125	409880	294044	N/A
59	05/16/2022	97.42	7248	6973	2985	412600	297264	N/A
60	05/16/2022	97.74	7337	7844	3026	405000	279471	N/A
61	05/16/2022	97.67	7446	6644	3008	409740	273393	N/A
62	05/17/2022	97.3	7376	6520	3015	402480	270493	N/A
63	05/18/2022	98.15	7568	6209	2967	409460	270517	N/A
64	05/18/2022	96.81	7353	6457	3127.98	413080	285321	N/A
65	05/18/2022	93.29	7267	6934	3067.12	405260	274644	N/A
66	05/18/2022	97.46	7042	6852	3124	405920	278583	N/A
67	05/19/2022	98.11	7156	6899	3029	407520	271556	N/A
68	05/19/2022	98.69	7128	6414	2859	406420	274956	N/A
69	05/19/2022	96.21	6609	3762	2712.72	403840	268453	N/A
70	05/19/2022	97.25	6851	6775	3337.82	407340	272020	N/A
	AVG=	91	8,054	7,073	3,020	28,083,089	20,600,830	TOTAL

02/10/2023

---



02/10/2023

API 47-085-10415 Farm Name Barbara Kay Turner Well Number Earl Unit 2H				
EXHIBIT 3				
LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Sandy Siltstone, tr LS	100	280	100	280
Sandy Siltstone, occ LS	280	430	280	430
Shaly Siltstone, tr SS	430	490	430	490
Shaly Siltstone, Coal	490	520	490	520
Shaly Siltstone, occ SS, tr Coal	520	610	520	610
Shaly Siltstone	610	730	610	730
Silty Shale, tr ls, coal	730	820	730	820
Sandy Shale, tr coal	820	970	820	970
Shaly Sandstone, tr coal	970	1,300	970	1,300
Sandy Shale, occ Siltstone	1,300	1,540	1,300	1,540
Silty Shale, occ sandstone	1,540	1,930	1,540	1,930
Shale, occ sandstone	1,930	2,050	1,930	2,050
Sandy Siltstone, occ shale	2,050	2,065	2,050	2,192
Big Lime	2,095	2,631	2,192	2,899
Fifty Foot Sandstone	2,631	2,830	2,869	3,152
Gordon	2,830	3,110	3,122	3,469
Fifth Sandstone	3,110	3,207	3,439	3,571
Bayard	3,207	3,950	3,541	4,336
Speechley	3,950	4,119	4,306	4,509
Balltown	4,119	4,644	4,479	5,044
Bradford	4,644	5,047	5,014	5,458
Benson	5,047	5,290	5,428	5,709
Alexander	5,290	6,376	5,679	6,883
Sycamore	6,175	6,346	6,632	6,853
Middlesex	6,346	6,462	6,853	7,054
Burkett	6,462	6,498	7,054	7,164
Tully	6,498	6,516	7,164	7,239
Marcellus	6,516	NA	7,239	NA

\*Please note Antero determines formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

02/10/2023

---

## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/28/2022
Job End Date:	5/19/2022
State:	West Virginia
County:	Ritchie
API Number:	47-085-10415-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	EARL UNIT 2H
Latitude:	39.16978000
Longitude:	-80.87539000
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,569
Total Base Water Volume (gal):	22,221,199
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
Produced Water	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	86.88382	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.17385	

HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
FDP-S1443-21	Halliburton	Corrosion Inhibitor					
				Listed Below			
Sand-Premium White-30/70	Halliburton	Proppant					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
Excelerate LX-15	Halliburton	Friction Reducer					
				Listed Below			
EXCELERATE LX-16	Halliburton	Friction Reducer					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
Sand-Premium White-30/50	Halliburton	Proppant					
				Listed Below			

WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
MC B-8614A	MultiChem	Biocide					
				Listed Below			
LEGEND(TM) LD-7750W	MultiChem	Scale Control					
				Listed Below			

Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.

			Crystalline silica, quartz	14808-60-7	100.00000	12.91808	
			Hydrochloric acid	7647-01-0	30.00000	0.03807	
			Complex Amine Compound	Proprietary	60.00000	0.02955	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01478	
			Methanol	67-56-1	100.00000	0.00704	
			Sodium chloride	7647-14-5	10.00000	0.00430	
			Guar gum	9000-30-0	100.00000	0.00414	
			Glutaraldehyde	111-30-8	30.00000	0.00240	
			Amine	Proprietary	5.00000	0.00187	
			Ethoxylated alcohol	Proprietary	5.00000	0.00187	
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00060	
			Surfactant	Proprietary	5.00000	0.00060	
			Phosphoric Acid Salt	Proprietary	5.00000	0.00056	
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00040	
			Ammonium persulfate	7727-54-0	100.00000	0.00020	
			Ethoxylated alcohols	Proprietary	30.00000	0.00019	

			Organic chloride compound	Proprietary	1.00000	0.00012
			Alkoxylated polyhydric alcohol	Proprietary	1.00000	0.00012
			Ethanol	64-17-5	1.00000	0.00008
			Oxylated phenolic resin	Proprietary	30.00000	0.00006
			Diethanolamine	111-42-2	0.10000	0.00004
			Sodium bisulphite	7681-57-4	0.10000	0.00004
			Potassium formate	590-29-4	0.10000	0.00004
			Modified thiourea polymer	Proprietary	10.00000	0.00002
			Formaldehyde	50-00-0	0.10000	0.00001
			Aldehyde	Proprietary	5.00000	0.00001
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	5.00000	0.00001
			Sodium hydroxide	1310-73-2	0.01000	0.00000
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0.01000	0.00000
			Nitrotriacetic acid, trisodium salt monohydrate	5064-31-3	0.01000	0.00000
			Hydroquinone monomethyl ether	150-76-5	0.01000	0.00000
			Ethylene oxide	75-21-8	0.01000	0.00000
			1,4-Dioxane	123-91-1	0.01000	0.00000
			Acetaldehyde	75-07-0	0.01000	0.00000
			1-Hexadecene	629-73-2	1.00000	0.00000
			1-Octadecene	112-88-9	1.00000	0.00000
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000
			Organic salt #1	Proprietary	0.01000	0.00000
			Nitrated acetate salt	Proprietary	0.01000	0.00000
			Acrylamide	79-06-1	0.01000	0.00000
			Sodium glycolate	2836-32-0	0.01000	0.00000
			Organic salt #2	Proprietary	0.01000	0.00000

LATITUDE 39°12'30" 109'

LATITUDE 39°10'00"

Antero Resources Corporation Well No. Earl Unit 2H

AS DRILLED DATA: WELL 2H TOP HOLE INFORMATION: N: 246,932ft E: 1,610,058ft LAT: 39°10'11.20" LON: 80°52'31.39" BOTTOM HOLE INFORMATION: N: 234,762ft E: 1,615,415ft LAT: 39°08'11.73" LON: 80°51'21.05" WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS: WELL 2H TOP HOLE INFORMATION: N: 4,335,634m E: 510,779m BOTTOM HOLE INFORMATION: N: 4,331,954m E: 511,473m

WELL 2H POINT OF ENTRY INFORMATION: WV STATE PLANE NAD '27 (NORTH ZONE): N: 248,072ft E: 1,611,105ft GEOGRAPHIC (NAD) 27: LAT: 39°10'22.63" LON: 80°51'21.05" (NAD) 83 (UTM) ZONE 17 COORDS: N: 4,335,987m E: 511,093m

WV NORTH ZONE GRID NORTH

6,386' TO BOTTOM HOLE

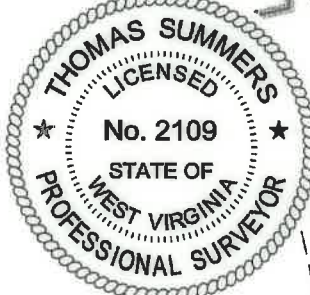
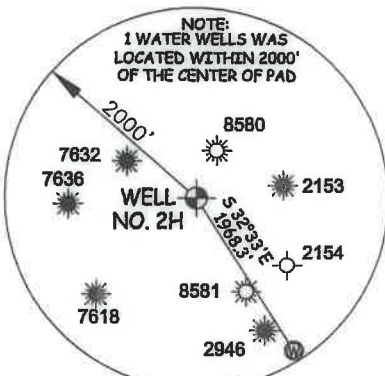
Table listing landowners and lease information for the area, including names like David W. Weekley, Albin Gezek, and Antero Resources Corp.

10,955' TO BOTTOM HOLE

14,043'

LONGITUDE 80°50'00"

LONGITUDE 80°52'30"



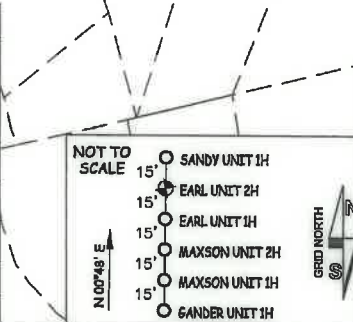
I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS. WILLOW LAND SURVEYING PLLC 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 16-044WA DRAWING # EARL2HAD SCALE 1" = 2000' MINIMUM DEGREE OF ACCURACY SUBMETER PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND: Surface Owner Boundary Lines +/- Interior Surface Tracts +/- Proposed Well Path As Drilled Well Path. THOMAS SUMMERS P.S. 2109 DATE 8/19/22 OPERATOR'S WELL# EARL UNIT #2H



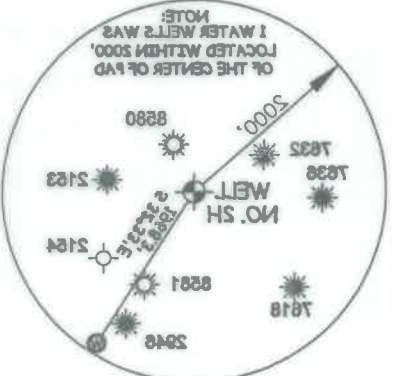
NOTES: 1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCKED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD. 2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ANTERO RESOURCES CORPORATION. 3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION. 4. WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES. 5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ 47 - 085 - 10415 (IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X STATE COUNTY PERMIT LOCATION: ELEVATION 1,125' - AS BUILT WATERSHED SOUTH FORK HUGHES RIVER QUADRANGLE TH - PULLMAN 7.5' BH - OXFORD 7.5' DISTRICT UNION COUNTY RITCHIE SURFACE OWNER DAVID W. & DAVID MARTIN WEEKLEY ACREAGE 39.87 ACRES +/- OIL & GAS ROYALTY OWNER T. D. DOTSON ET UX; ALIX PRUNTY ET UX; ANTERO MINERALS LLC; LEASE ACREAGE 39.87 AC +/-; 300AC +/-; 25 AC +/-; EARL PIERCE ET UX; EDWARD PIERCE; MARY J. BRITTON ET AL; CHARLES MAXSON; ELIZABETH E. BRITTON; 25 AC +/-; 92 AC +/-; 97 AC +/-; 70 AC +/-; 115.5 AC +/-; DARLENE BOSTON; BERNICE HAUGHT ET AL; ELVA MAXSON ET UX 100 AC +/-; 66.75 AC +/-; 66 AC +/- PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,539' TVD 21,265' MD WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

PERMIT COUNTY NAME COUNTY UNION COUNTY RITCHIE COUNTY PERMIT 47 082 10412

DATE 8/14/22 THOMAS SUMMERS P.S. 2108 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS ACCURACY SUBMETER MINIMUM DEGREE OF SCALE 1" = 2000' DRAWING # EARLHAD JOB # 10-044WA

OPERATOR'S WELL # EARL UNIT 5H	DATE 8/14/22	THOMAS SUMMERS P.S. 2108	PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS
STATE OF WEST VIRGINIA	DEPARTMENT OF ENERGY	DIVISION OF OIL AND GAS	STATE OF WEST VIRGINIA
WEST VIRGINIA 2615	520 MASONSIC AVE. PENNSBORO	WILLOW LAND SURVEYING P.L.C.	OFFICE OF OIL AND GAS
STATE OF ENVIRONMENTAL PROTECTION	STATE OF WEST VIRGINIA, DIVISION	OF ENVIRONMENTAL PROTECTION,	STATE OF WEST VIRGINIA, DIVISION
I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.			

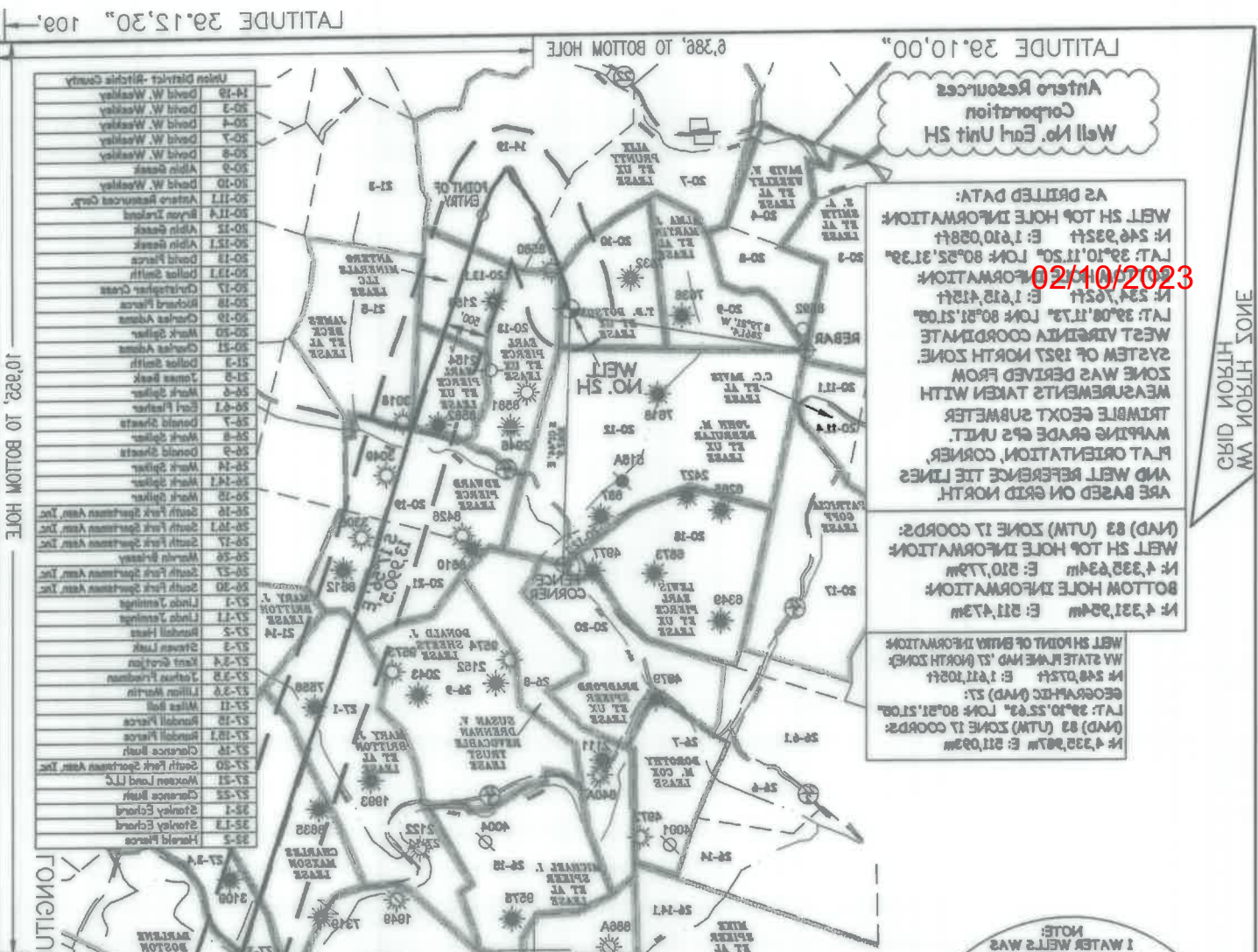


**WELL SHOT POINT OF BIRTH INFORMATION:**  
 N 4331.92m E 811.473m  
 (MAD) 83 (UTM) ZONE 17 COORDS:  
 W 247.12m E 1.611.70871  
 WA STATE PLANE MAP 27 (NORTH ZONE)

**BOTTOM HOLE INFORMATION:**  
 N 4332.934m E 810.772m  
 W 247.12m E 1.611.70871  
 (MAD) 83 (UTM) ZONE 17 COORDS:  
 W 247.12m E 1.611.70871  
 WA STATE PLANE MAP 27 (NORTH ZONE)

**WELL 5H TOP HOLE INFORMATION:**  
 N 4332.934m E 810.772m  
 W 247.12m E 1.611.70871  
 (MAD) 83 (UTM) ZONE 17 COORDS:  
 W 247.12m E 1.611.70871  
 WA STATE PLANE MAP 27 (NORTH ZONE)

**AS DRILLED DATA:**  
 N 246.9247 E 1.610.08871  
 L A T 32°10'.11" S O L O N 80°25'.31" W  
 N 237.0247 E 1.612.41571  
 L A T 32°08'.11" S O L O N 80°21'.51" W  
 N 237.0247 E 1.612.41571  
 L A T 32°08'.11" S O L O N 80°21'.51" W



UNIT	OWNER	ACRES
14-19	David W. Weekley	0.3
14-20	David W. Weekley	0.3
14-21	David W. Weekley	0.3
14-22	David W. Weekley	0.3
14-23	David W. Weekley	0.3
14-24	David W. Weekley	0.3
14-25	David W. Weekley	0.3
14-26	David W. Weekley	0.3
14-27	David W. Weekley	0.3
14-28	David W. Weekley	0.3
14-29	David W. Weekley	0.3
14-30	David W. Weekley	0.3
14-31	David W. Weekley	0.3
14-32	David W. Weekley	0.3
14-33	David W. Weekley	0.3
14-34	David W. Weekley	0.3
14-35	David W. Weekley	0.3
14-36	David W. Weekley	0.3
14-37	David W. Weekley	0.3
14-38	David W. Weekley	0.3
14-39	David W. Weekley	0.3
14-40	David W. Weekley	0.3
14-41	David W. Weekley	0.3
14-42	David W. Weekley	0.3
14-43	David W. Weekley	0.3
14-44	David W. Weekley	0.3
14-45	David W. Weekley	0.3
14-46	David W. Weekley	0.3
14-47	David W. Weekley	0.3
14-48	David W. Weekley	0.3
14-49	David W. Weekley	0.3
14-50	David W. Weekley	0.3
14-51	David W. Weekley	0.3
14-52	David W. Weekley	0.3
14-53	David W. Weekley	0.3
14-54	David W. Weekley	0.3
14-55	David W. Weekley	0.3
14-56	David W. Weekley	0.3
14-57	David W. Weekley	0.3
14-58	David W. Weekley	0.3
14-59	David W. Weekley	0.3
14-60	David W. Weekley	0.3
14-61	David W. Weekley	0.3
14-62	David W. Weekley	0.3
14-63	David W. Weekley	0.3
14-64	David W. Weekley	0.3
14-65	David W. Weekley	0.3
14-66	David W. Weekley	0.3
14-67	David W. Weekley	0.3
14-68	David W. Weekley	0.3
14-69	David W. Weekley	0.3
14-70	David W. Weekley	0.3
14-71	David W. Weekley	0.3
14-72	David W. Weekley	0.3
14-73	David W. Weekley	0.3
14-74	David W. Weekley	0.3
14-75	David W. Weekley	0.3
14-76	David W. Weekley	0.3
14-77	David W. Weekley	0.3
14-78	David W. Weekley	0.3
14-79	David W. Weekley	0.3
14-80	David W. Weekley	0.3
14-81	David W. Weekley	0.3
14-82	David W. Weekley	0.3
14-83	David W. Weekley	0.3
14-84	David W. Weekley	0.3
14-85	David W. Weekley	0.3
14-86	David W. Weekley	0.3
14-87	David W. Weekley	0.3
14-88	David W. Weekley	0.3
14-89	David W. Weekley	0.3
14-90	David W. Weekley	0.3
14-91	David W. Weekley	0.3
14-92	David W. Weekley	0.3
14-93	David W. Weekley	0.3
14-94	David W. Weekley	0.3
14-95	David W. Weekley	0.3
14-96	David W. Weekley	0.3
14-97	David W. Weekley	0.3
14-98	David W. Weekley	0.3
14-99	David W. Weekley	0.3
15-00	David W. Weekley	0.3

LATITUDE 39.15,30" 109. LONGITUDE 80.20,00" 10922, 10 BOTTOM HOLE 1'4"043, LONGITUDE 80.25,30"