

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

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MAY 10 2023

API 47 - 103 - 03492 County Wetzel District Green
Quad Pine Grove Pad Name Furbee Field/Pool Name -----
Farm name James A. Sell Well Number Eckleberry Unit 1H
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 4378660.562m Easting 523085.425m
Landing Point of Curve Northing 4378772.42m Easting 523841.85m
Bottom Hole Northing 4374493.853m Easting 525336.253m

Elevation (ft) 1211' 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 4/28/2022 Date drilling commenced 8/15/2022 Date drilling ceased 11/4/2022
Date completion activities began 1/8/2023 Date completion activities ceased 2/12/2023
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 575' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 2284' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 973' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

APPROVED

Reviewed by [Signature]
05/10/2024

API 47-103 - 03492 Farm name James A. Sell Well number Eckleberry Unit 1H

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	28"	20"	130'	New	78.67#, X-60	N/A	Y
Surface	17-1/2"	13-3/8"	673'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3674'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	22961'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7577'		4.7#, P-110		
Packer type and depth set		N/A					

Comment Details _____

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CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	WOC (hrs)
Conductor	Class A	209 sx	15.6	1.18	247	8 Hrs.
Surface	Class C	620 sx	15.8	1.17	725	8 Hrs.
Coal						
Intermediate 1	Class C	1270 sx	15.8	1.16	1473	8 Hrs.
Intermediate 2						
Intermediate 3						
Production	Class H	3655 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.25 (Tail)	4569	8 Hrs.
Tubing						

Department of Environmental Protection

Drillers TD (ft) 22961' MD, 7132' TVD (BHL), 7132' (Deepest Point Drilled) Loggers TD (ft) 22961' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6801'

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

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
Marcellus	7005' (TOP)	TVD	7796' (TOP) MD
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 985.46 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 17394 mcfpd Oil 486 bpd NGL --- bpd Water 953 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	

***PLEASE SEE ATTACHED EXHIBIT 3**

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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 Carly Marvel Telephone 303-357-7373
Signature Carly Marvel Title Permitting Agent Date 5/2/2023

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


05/10/2024 

Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	1/8/2023	22831.7	22787.6	60	Marcellus
2	1/8/2023	22748.75946	22582.5568	60	Marcellus
3	1/9/2023	22546.91622	22380.7135	60	Marcellus
4	1/9/2023	22345.07297	22178.8703	60	Marcellus
5	1/9/2023	22143.22973	21977.027	60	Marcellus
6	1/10/2023	21941.38649	21775.1838	60	Marcellus
7	1/10/2023	21739.54324	21573.3405	60	Marcellus
8	1/10/2023	21537.7	21371.4973	60	Marcellus
9	1/10/2023	21335.85676	21169.6541	60	Marcellus
10	1/11/2023	21134.01351	20967.8108	60	Marcellus
11	1/11/2023	20932.17027	20765.9676	60	Marcellus
12	1/11/2023	20730.32703	20564.1243	60	Marcellus
13	1/12/2023	20528.48378	20362.2811	60	Marcellus
14	1/12/2023	20326.64054	20160.4378	60	Marcellus
15	1/12/2023	20124.7973	19958.5946	60	Marcellus
16	1/12/2023	19922.95405	19756.7514	60	Marcellus
17	1/13/2023	19721.11081	19554.9081	60	Marcellus
18	1/13/2023	19519.26757	19353.0649	60	Marcellus
19	1/13/2023	19317.42432	19151.2216	60	Marcellus
20	1/14/2023	19115.58108	18949.3784	60	Marcellus
21	1/14/2023	18913.73784	18747.5351	60	Marcellus
22	1/14/2023	18711.89459	18545.6919	60	Marcellus
23	1/14/2023	18510.05135	18343.8486	60	Marcellus
24	1/15/2023	18308.20811	18142.0054	60	Marcellus
25	1/15/2023	18106.36486	17940.1622	60	Marcellus
26	1/15/2023	17904.52162	17738.3189	60	Marcellus
27	1/16/2023	17702.67838	17536.4757	60	Marcellus
28	1/16/2023	17500.83514	17334.6324	60	Marcellus
29	1/16/2023	17298.99189	17132.7892	60	Marcellus
30	1/16/2023	17097.14865	16930.9459	60	Marcellus
31	1/17/2023	16895.30541	16729.1027	60	Marcellus
32	1/17/2023	16693.46216	16527.2595	60	Marcellus
33	1/17/2023	16491.61892	16325.4162	60	Marcellus
34	1/17/2023	16289.77568	16123.573	60	Marcellus
35	1/18/2023	16087.93243	15921.7297	60	Marcellus
36	1/18/2023	15886.08919	15719.8865	60	Marcellus
37	1/18/2023	15684.24595	15518.0432	60	Marcellus
38	1/18/2023	15482.4027	15316.2	60	Marcellus
39	1/19/2023	15280.55946	15114.3568	60	Marcellus
40	1/19/2023	15078.71622	14912.5135	60	Marcellus
41	1/19/2023	14876.87297	14710.6703	60	Marcellus
42	1/20/2023	14675.02973	14508.827	60	Marcellus
43	1/20/2023	14473.18649	14306.9838	60	Marcellus
44	1/20/2023	14271.34324	14105.1405	60	Marcellus
45	1/20/2023	14069.5	13903.2973	60	Marcellus
46	1/20/2023	13867.65676	13701.4541	60	Marcellus
47	1/21/2023	13665.81351	13499.6108	60	Marcellus
48	1/21/2023	13463.97027	13297.7676	60	Marcellus
49	1/21/2023	13262.12703	13095.9243	60	Marcellus
50	1/21/2023	13060.28378	12894.0811	60	Marcellus
51	1/22/2023	12858.44054	12692.2378	60	Marcellus
52	1/22/2023	12656.5973	12490.3946	60	Marcellus
53	1/22/2023	12454.75405	12288.5514	60	Marcellus
54	1/22/2023	12252.91081	12086.7081	60	Marcellus
55	1/23/2023	12051.06757	11884.8649	60	Marcellus
56	1/23/2023	11849.22432	11683.0216	60	Marcellus
57	1/24/2023	11647.38108	11481.1784	60	Marcellus
58	1/24/2023	11445.53784	11279.3351	60	Marcellus
59	1/24/2023	11243.69459	11077.4919	60	Marcellus
60	1/24/2023	11041.85135	10875.6486	60	Marcellus
61	1/24/2023	10840.00811	10673.8054	60	Marcellus
62	1/25/2023	10638.16486	10471.9622	60	Marcellus
63	1/25/2023	10436.32162	10270.1189	60	Marcellus
64	1/25/2023	10234.47838	10068.2757	60	Marcellus
65	1/25/2023	10032.63514	9866.43243	60	Marcellus
66	1/26/2023	9830.791892	9664.58919	60	Marcellus
67	1/26/2023	9628.948649	9462.74595	60	Marcellus
68	1/26/2023	9427.105405	9260.9027	60	Marcellus
69	1/27/2023	9225.262162	9059.05946	60	Marcellus
70	1/27/2023	9023.418919	8857.21622	60	Marcellus
71	1/27/2023	8821.575676	8655.37297	60	Marcellus
72	1/28/2023	8619.732432	8453.52973	60	Marcellus
73	1/28/2023	8417.889189	8251.68649	60	Marcellus
74	1/28/2023	8216.045946	8049.84324	60	Marcellus
75	1/28/2023	8014.202703	7848	60	Marcellus

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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	1/8/2023	68.7	9621	6850	3675	177300	248381	N/A
2	1/8/2023	85.6	10447	7000.84	4259.433	411940	317184	N/A
3	1/9/2023	83.3	9831	5898	4547	414480	333419	N/A
4	1/9/2023	84.3	10315	5811	4198	404050	329716	N/A
5	1/9/2023	84.6	10288	5371	4110	408050	337406	N/A
6	1/10/2023	81.4	10291	5890	4382	399540	298702	N/A
7	1/10/2023	84.1	10468	4805	3759	413610	289761	N/A
8	1/10/2023	89.0	10561	5758	4183	411660	292879	N/A
9	1/10/2023	86.1	10562	5642	4097	416610	292608	N/A
10	1/11/2023	87.7	10543	4935	4279	414760	302846	N/A
11	1/11/2023	83.4	10047	4866	4531	414830	301479	N/A
12	1/11/2023	84.8	10071	5326	4573	414710	295139	N/A
13	1/12/2023	83.6	10042	5451	4313	408110	295638	N/A
14	1/12/2023	82.4	10020	4672	4414	399980	283108	N/A
15	1/12/2023	86.4	10034	5532	4653	414720	302447	N/A
16	1/12/2023	84.9	10056	5509	4310	398780	289614	N/A
17	1/13/2023	88.9	10065	4510.32	4374.646	412910	319283	N/A
18	1/13/2023	88.9	10024	5509	4448	397310	288992	N/A
19	1/13/2023	89.6	10056	5728	4421	405310	280286	N/A
20	1/14/2023	89.7	10075	5211	4307	418700	294656	N/A
21	1/14/2023	91.9	10044	5808	4589	405730	290400	N/A
22	1/14/2023	91.2	10066	5679	4710	412340	294765	N/A
23	1/14/2023	93.7	10101	5612	4350	412690	294969	N/A
24	1/15/2023	90.3	10037	2687	4388	397130	287048	N/A
25	1/15/2023	94.8	10051	6475	4195	410010	299780	N/A
26	1/15/2023	90.0	10085	6179	4296	400590	294468	N/A
27	1/16/2023	91.8	9513	5636	4824	415140	352208	N/A
28	1/16/2023	97.9	10036	5945	4434	418580	292532	N/A
29	1/16/2023	95.4	9963	5905	4086	397390	291004	N/A
30	1/16/2023	97.2	10021	5822	4423	400010	277802	N/A
31	1/17/2023	97.6	10070	5830	4552	413050	295256	N/A
32	1/17/2023	96.6	9976	5720	4456	415470	290229	N/A
33	1/17/2023	95.6	10045	5375	4453	399650	283028	N/A
34	1/17/2023	96.9	9959	5327	4396	403560	284226	N/A
35	1/18/2023	95.2	9936	5527	4214	407930	288494	N/A
36	1/18/2023	96.8	10001	5605	4284	401190	281820	N/A
37	1/18/2023	97.9	10014	7699	4344	417820	293401	N/A
38	1/18/2023	94.6	9670	5095	4136	415747	286848	N/A
39	1/19/2023	93.0	9091	5049	4129	407580	280854	N/A
40	1/19/2023	95.9	9073	5563	4447	406090	283477	N/A
41	1/19/2023	96.3	8996	5442	4310	414270	317011	N/A
42	1/20/2023	97.3	9030	4695	4331	417990	300699	N/A
43	1/20/2023	95.6	9003	5179	4270	409420	302293	N/A
44	1/20/2023	96.5	9045	5103	4000	415820	305161	N/A
45	1/20/2023	96.6	9063	5545	4342	418420	297714	N/A
46	1/20/2023	98.0	9009	5409	4317	413110	305252	N/A
47	1/21/2023	96.5	9029	5130	4361	417700	306238	N/A
48	1/21/2023	98.1	9071	5438	4261	412240	288231	N/A
49	1/21/2023	96.4	8999	5157	4135	400110	295653	N/A
50	1/21/2023	98.0	9053	5451	4166	415400	297489	N/A
51	1/22/2023	98.2	9019	4503	4111	412580	298195	N/A
52	1/22/2023	98.1	9034	5278.31	3865.215	397320	289312	N/A
53	1/22/2023	98.2	8995	5150.07	4054.489	404938	287617	N/A
54	1/22/2023	97.2	9023	4211	4091	404150	293388	N/A
55	1/23/2023	97.3	9062	5492	4121	397848	290505	N/A
56	1/23/2023	98.2	8943	5937	3996	413270	300870	N/A
57	1/24/2023	98.1	9018	5448	4052	408990	298800	N/A
58	1/24/2023	96.6	8788	5156	3956	398010	298127	N/A
59	1/24/2023	97.5	8875	3927	4259	402500	288942	N/A
60	1/24/2023	96.8	8709	5094	4091	396540	291585	N/A
61	1/24/2023	97.5	8967	4665	4491	412300	287615	N/A
62	1/25/2023	98.3	8766	5324	4037	411800	295009	N/A
63	1/25/2023	93.6	8086	5015	4189	414510	295665	N/A
64	1/25/2023	97.3	8223	5331	3962	414310	297493	N/A
65	1/25/2023	98.1	8696	5436	4016	415880	296060	N/A
66	1/26/2023	98.7	8856	5346	4215	405460	293899	N/A
67	1/26/2023	97.4	8895	4358	3954	414840	290990	N/A
68	1/26/2023	98.4	8456	5414	3970	411352	292780	N/A
69	1/27/2023	97.8	8571	5530	4031	409410	298082	N/A
70	1/27/2023	98.4	8766	5366	3580	407440	289358	N/A
71	1/27/2023	97.9	8635	5333	4042	394660	289148	N/A
72	1/28/2023	97.4	8530	5275	4294	405380	275739	N/A
73	1/28/2023	97.5	8243	4879	3850	391500	285696	N/A
74	1/28/2023	97.5	8196	4687	3705	412120	289793	N/A
75	1/28/2023	99.4	7880	5428	3547	411810	303077	N/A
	AVERAGE	93	9,449	5,373	4,220	30,418,455	22,170,539	0

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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, LS	100	320	100	320
Shaley Siltstone, tr LS	320	370	320	370
Sandy Shale	370	620	370	620
Siltstone, Occ SS, tr Shale, tr Coal	470	820	470	820
Sandy Siltstone, tr LS, tr Shale	620	820	620	820
Silty Sandstone, tr LS	820	920	820	920
Sandy Siltstone, tr LS, tr Shale	920	1,020	920	1,020
Silty Sandstone, tr Shale	1,020	1,120	1,020	1,120
Silty Sandstone, tr Shale, tr LS	1,120	1,220	1,120	1,220
Shaley Sandstone, occ Siltstone	1,220	1,420	1,220	1,420
Silty Sandstone, tr shale	1,420	1,520	1,420	1,520
Sandy Siltstone, tr Coal	1,520	1,670	1,520	1,670
Silty Sandstone, tr Coal, tr Shale	1,670	1,870	1,670	1,870
Sandy Shale, tr Coal	1,870	2,020	1,870	2,020
Silty Sandstone, rr Coal	2,020	2,109	2,020	2,168
Big Lime	2,139	2,983	2,168	3,135
Fifty Foot Sandstone	2,983	3,025	3,105	3,180
Gordon	3,025	3,248	3,150	3,423
Fifth Sandstone	3,248	3,594	3,393	3,801
Bayard	3,594	3,978	3,771	4,239
Speechley	3,978	4,123	4,209	4,404
Balltown	4,123	4,626	4,374	4,961
Bradford	4,626	5,201	4,931	5,585
Benson	5,201	5,638	5,555	6,064
Alexander	5,638	6,828	6,034	7,406
Sycamore	6,665	6,798	7,203	7,376
Middlesex	6,798	6,894	7,376	7,529
Burkett	6,894	6,925	7,529	7,588
Tully	6,925	7,005	7,588	7,796
Marcellus	7,005	NA	7,796	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.

05/10/2024

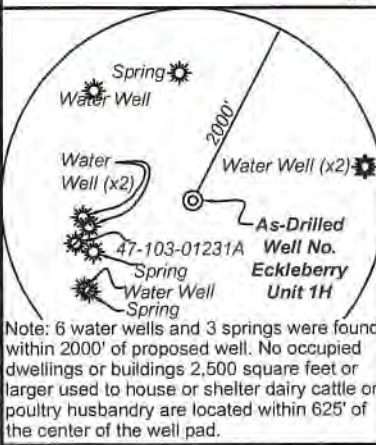
Antero Resources
Well No. Eckleberry 1H
As-Drilled
 Antero Resources Corporation



Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

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 prescribed by the Department of Environmental Protection.

Bradley D. Miller
 Bradley D. Miller, P.S. 2167



	Bearing	Dist.
L1	S 75°41' W	1,921.5'
L2	N 82°37' W	2,097.8'
L3	N 74°23' E	1,558.6'
L4	N 79°38' E	1,559.7'

- Legend**
- Proposed gas well
 - Monument, as noted
 - Existing Well, as noted
 - Digitized Well, as noted
 - Creek or Drain
 - Road
 - Railroad Right-of-Way
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)

FILE NO: 120-34-G-18
 DRAWING NO: Eckleberry Unit 1H As-Drilled
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

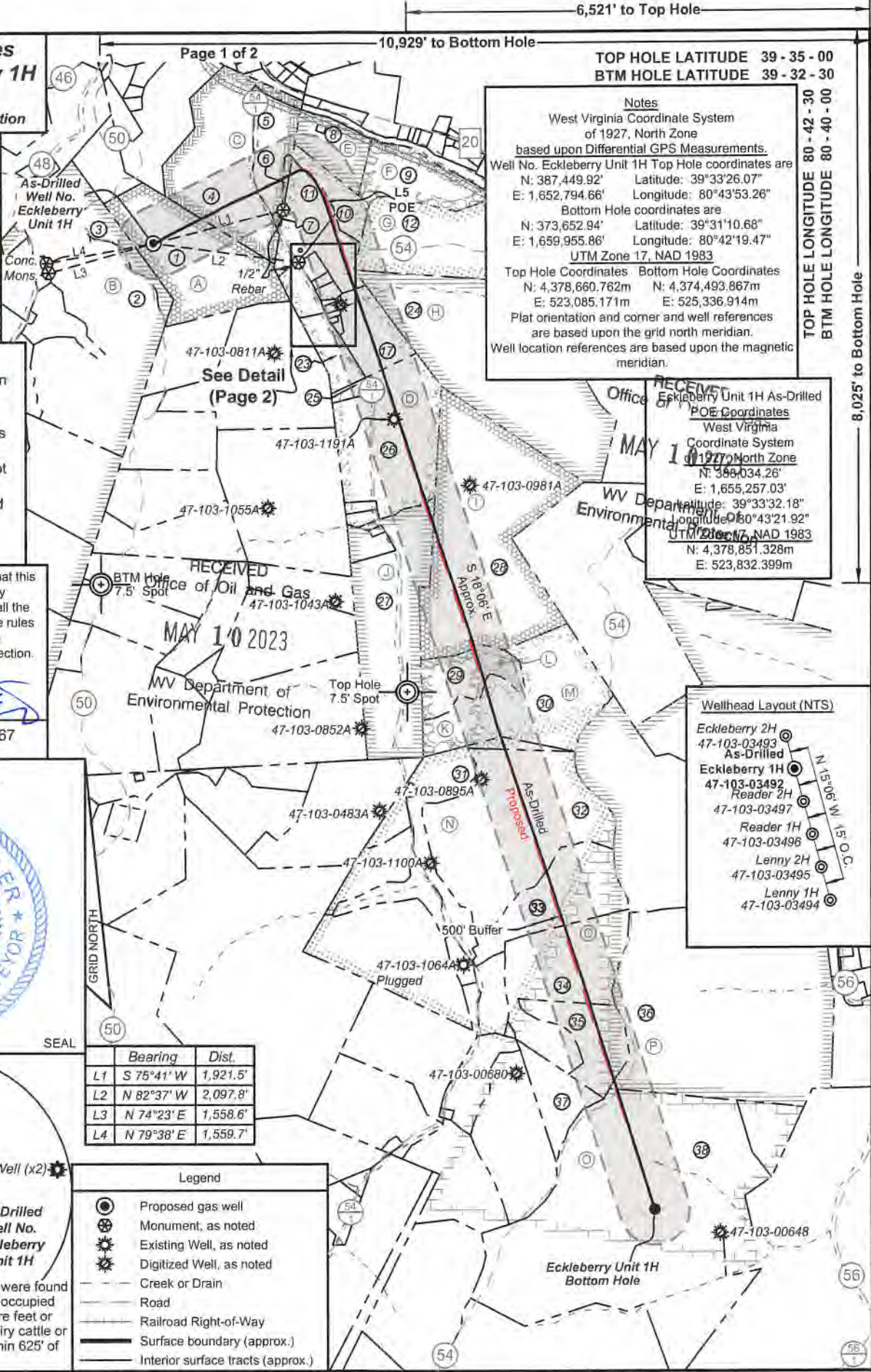
STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: May 5 20 23
 OPERATOR'S WELL NO. Eckleberry Unit 1H
 API WELL NO
 47 - 103 - 03492
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

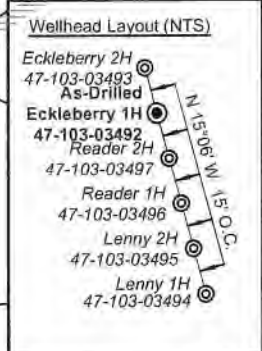
LOCATION: ELEVATION: As-Drilled 1,211' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
 DISTRICT: Green James COUNTY: Wayne
 SURFACE OWNER: A. Sell Shiben Estates, Inc.; Josephine Brast, et al; AMP Fund II, LP (2); Robert G. Bassett, et ux; Michael M. Holman; ACREAGE: 58.1
 ROYALTY OWNER: James Allen Sell; Marilyn Halley Seeley; Tribune Resources Minerals, LLC (3) LEASE NO: _____ ACREAGE: 257; 500; 300
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,132' TVD
22,961' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis
 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
Denver, CO 80202 Bridgeport, WV 26330



Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Eckleberry Unit 1H Top Hole coordinates are
 N: 387,449.92' Latitude: 39°33'26.07"
 E: 1,652,794.66' Longitude: 80°43'53.26"
 Bottom Hole coordinates are
 N: 373,652.94' Latitude: 39°31'10.68"
 E: 1,659,955.86' Longitude: 80°42'19.47"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,378,660.762m N: 4,374,493.867m
 E: 523,085.171m E: 525,336.914m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

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 Eckleberry Unit 1H As-Drilled
 POE Coordinates
 West Virginia Coordinate System of 1927, North Zone
 N: 387,449.92'
 E: 1,655,257.03'
 Latitude: 39°33'32.18"
 Longitude: 80°43'21.92"
 UTM Zone 17, NAD 1983
 N: 4,378,851.328m
 E: 523,832.399m



TOP HOLE LONGITUDE 80 - 42 - 30
 BTM HOLE LONGITUDE 80 - 40 - 00
 8,025' to Bottom Hole
 9,504' to Top Hole



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Leases	
A	James Allen Sell
B	William R. Stalnaker
C	Marilyn Halley Seeley
D	Tribune Resources Minerals, LLC
E	Linda Darlene Straight
F	Marcella K. Harrison
G	Tribune Resources Minerals, LLC
H	Shiben Estates, Inc.
I	AMP Fund II, LP
J	AMP Fund II, LP
K	Michael M. Holman
L	Tribune Resources Minerals, LLC
M	Robert G. Bassett, et ux
N	Tribune Resources Minerals, LLC
O	Josephine Brast, et al
P	Shiben Estates, Inc.

ID	TM-Par	Owner	Bk/Pg	Acres
1	17-12	James Allen Sell	370/148	58.10
2	17-60	Ross Bucher	411/765	79.00
3	17-1	James Allen Sell	370/148	15.35
4	13-71	Charles R. & Kay L. Blair	387/577	63.11
5	17-71.1	Clarence L. & Carol J. Lancaster	387/266	19.19
6	17-3.1	Bradford D. Highley	386/607	1.00
7	17-2	Clarence & Carol Lancaster	287/357	0.50
8	13-73	James Straight, et al	W57/427	14.60
9	13-78	Sebastian, Jr. & Marcella Harrison	281/94	25.37
10	17-4	James Straight	223/193	10.80
11	17-3	Bradford Highley	386/607	17.00
12	17-5	Coastal Forest Resources	444/105	90.00
13	17-14	Bradford Highley	386/607	18.53
14	17-14.2	Michael & Tammy Lemasters	384/10	2.18
15	17-14.1	Michael Lemasters	331/413	0.93
16	17-13	Russell & Carol Walls	416/637	1.53
17	17-19	Donna Bassett	299/614	19.10
18	17-19.4	Everett Haught	293/243	0.52
19	17-19.2	Everett Haught	428/118	0.15
20	17-19.1	Lloyd Bassett	270/106	0.35
21	17-19.5	Mitchel Eddy	415/429	0.24
22	17-19.3	Howard & Patricia Bassett	280/136	0.81
23	17-18	Samuel Highley	387/408	12.07
24	17-20	Heartland Forest Land Fund VII LP	431/936	123.50
25	17-27	Eliza Louiza Highley	303/352	2.70
26	17-29	Leslie & Georgia Bassett	319/394	66.00
27	17-38	Heartland Forest Land Fund VII, LP	431/936	60.00
28	17-31	Heartland Forest Land Fund VII, LP	431/936	120.33
29	17-49	Heartland Forest Land Fund VII, LP	431/936	20.90
30	17-50	EIP III, West Virginia LLC	463/193	69.00
31	20-14	Robert Bassett	371/32	126.74
32	20-14.4	Matthew D. Bassett, et al	421/365	97.18
33	20-14.2	Coastal Forest Resources Co.	444/105	37.40
34	20-14.1	Coastal Forest Resources Co.	444/105	49.25
35	20-21	Coastal Forest Resources Co.	444/105	29.00
36	20-15	Coastal Forest Resources Co.	444/105	198.00
37	20-20	Coastal Forest Resources Co.	444/105	26.00
38	20-37	Coastal Forest Resources Co.	444/105	246.84

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FILE NO: 120-34-G-18
 DRAWING NO: Eckleberry Unit 1H As-Drilled
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV

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

DATE: May 5 2023
 OPERATOR'S WELL NO. Eckleberry Unit 1H
 API WELL NO
 47 - 103 - 03492
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Drilled 1,211' WATERSHED: Fishing Creek

QUADRANGLE: Pine Grove
 COUNTY: Wayne 58.1: 83.8;
 25.3: 312.5;

DISTRICT: Green James
 SURFACE OWNER: A. Sell Shiben Estates, Inc.; Josephine Brast, et al;
 AMP Fund II, LP (2); Robert G. Bassett, et ux; Michael M. Holman;

ACREAGE: 58.1 140.3333; 65.4875;
 7.9; 203.163; 22;
 257; 500; 300

ROYALTY OWNER: James Allen Sell; Marilyn Halley Seeley; Tribune Resources Minerals, LLC (3) LEASE NO: ACREAGE:
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 7,132' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,961' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis
 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
 Denver, CO 80202 Bridgeport, WV 26330

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/8/2023
Job End Date:	1/28/2023
State:	West Virginia
County:	Wetzel
API Number:	47-103-03492-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Eckleberry Unit 1H
Latitude:	39.55724000
Longitude:	-80.73146000
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,131
Total Base Water Volume (gal):	23,274,978
Total Base Non Water Volume:	0



WV Department of Environmental Protection



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	86.49071	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.13574	

DM

HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
Chemstream StimSTREAM FR 2800	Chemstream, Inc.	Friction Reducer					
				Listed Below			
MC B-8614A	MultiChem	Biocide					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				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	13.29838	
			Hydrochloric acid	7647-01-0	30.00000	0.03811	

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		Distillates, (petroleum), hydrotreated light	64742-47-8	25.00000	0.01798
		Alcohols, C11-14-iso, C-13-rich, ethoxylated	78330-21-9	5.00000	0.00360
		Guar gum	9000-30-0	100.00000	0.00293
		Glutaraldehyde	111-30-8	30.00000	0.00261
		Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00044
		Methanol	67-56-1	100.00000	0.00024
		Ethanol	64-17-5	1.00000	0.00009
		Ammonium persulfate	7727-54-0	100.00000	0.00007
		Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00007
		Modified thiourea polymer	Proprietary	30.00000	0.00007
		Oxylated phenolic resin	Proprietary	30.00000	0.00002
		Hexadecene	629-73-2	5.00000	0.00001
		Propargyl alcohol	107-19-7	5.00000	0.00001
		Ethoxylated alcohols	Proprietary	5.00000	0.00001
		C.I. pigment Orange 5	3468-63-1	1.00000	0.00000

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

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

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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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