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

API 47 - 103 - 03426 County Wet:	zel	District Green	1
Quad TH:Pine Grove BH: Center Point Pad Name Do	ogwood	Field/Pool Nan	
Farm name_Dallison Lumber, Inc		_Well Number	Gribben Unit 1H
Operator (as registered with the OOG) Antero Resour	ces Corporation		
Address 1615 Wynkoop Street City	Denver	State CO	Zip 80202
Top hole Northing 4375237m	rilled plat, profile view, ar Eas	sting 523685m	
Landing Point of Curve Northing 4374856.5		523317.96m	
Bottom Hole Northing 4371020m	Eas	sting <u>524653m</u>	
Elevation (ft) 1308' GL Type of W	ell ■New □ Existing	Type of R	eport □Interim ■Final
Permit Type □ Deviated □ Horizontal ■ Hor	izontal 6A	Depth Ty	pe 🗆 Deep 📱 Shallow
Type of Operation □ Convert □ Deepen ■ Drill	□ Plug Back □ Redr	rilling 🗆 Rew	ork Stimulate
Well Type □ Brine Disposal □ CBM ■ Gas ■ Oil □	Secondary Recovery S	Solution Mining	□ Storage □ Other
Type of Completion ■ Single □ Multiple Fluids Pr	roduced □ Brine ■Gas	□ NGL ■	Oil 🗆 Other
Drilled with □ Cable ■ Rotary			RECENT
			Office of Oil and Gas
Drilling Media Surface hole ■ Air □ Mud □ Fresh	Water Intermediate	hole ■ Air □	Mud
Production hole □ Air ■ Mud □ Fresh Water □ I	Brine		, LD 0 1 2023
Mud Type(s) and Additive(s) Air - Foam & 4% KCL			WV Department of Environmental Protection
Mud - Polymer			
Date nermit issued 8/23/2021 Date drilling of	ommenced 10/30/202	01	lling ceased 12/9/2021
Date driving c	ommeneed	Date un	ning ceased
bute completion activities began	Date completion act		4/23/2022
Verbal plugging (Y/N)N/A Date permission gra	anted N/A	Granted by	N/A -
Please note: Operator is required to submit a plugging ap	plication within 5 days of	verbal permissio	n to plug
Freshwater depth(s) ft 539'	Open mine(s) (Y/N)	depths	No
Salt water depth(s) ft 2341'	Void(s) encountered	(Y/N) depths	No
Coal depth(s) ft 815'	Cavern(s) encountered		No
Is coal being mined in area (Y/N) No			

APPROVED

03/17/2023

WR-35 Rev. 8/23/13

API 47- 103	03426	Farm name_	Dallison Lumb	ber, Inc	Well	number_Gribb	en Unit 1H
CASING STRINGS	Hole Size	Casing Size I		w or Grade sed wt/ft			oid cement circulate (Y/N) Provide details below*
Conductor	24"	20"	80' N	lew 94#	, H-40	N/A	Υ
Surface	17-1/2"	13-3/8"	594' N	New 54.5	#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8" 2	2596 N	lew 36#	, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2" 2	1648' N	New 20#,	P-100	N/A	Υ
Tubing	2 410.32 314		'477'		P-110		
Packer type and de	epth set	N/A		1.00	1110		
Comment Details							
CEMENT	Class/Type		Slurry	Yield	Volume	Cement	woc
DATA Conductor	of Cement		wt (ppg)	(ft ³ /sks)	(ft ²)	Top (MD)	(hrs)
Surface	Class A	352 sx	15.6	1.18	75 163	0'	8 Hrs.
Coal	Class A	630 sx	15.8	1.20	103	U	8 Hrs.
Intermediate 1	Class A	000	15.0	1.10	190	0'	0.16
ntermediate 2	Class A	920 sx	15.8	1.16	190	.0	8 Hrs.
ntermediate 3						4	
Production	0, 1,				700	real to the same	0.04
Tubing	Class H	792 sx (Lead) 3625 sx (Tail)) 13.5 (Lead), 15.2(Tail)	1.4 (Lead), 1.18 (Tail)	760	~500' into Intermediate	e Casing 8 Hrs.
	tion penetrated	TVD (BHL), 7226' (Deepest Poi		ggers TD (ft) 216 g back to (ft) N/A			
Kick off depth	(ft) <u>6516'</u>						
Check all wire	line logs run			deviated/directi gamma ray		duction imperature	⊐sonic
Well cored	Yes No	Conventional	Sidewall	W	ere cuttings	collected \square Y	es No
	HE CENTRAI	LIZER PLACEMENT	USED FOR EA	ACH CASING S	TRING		
Conductor - 0 Surface - 1 above gui	ide shoe, 1 above inse	rt float, 1 every 4th joint to surface					
Intermediate - 1 abov	ve float joint, 1 above f	loat collar, 1 every 4th joint to surfa at collar, 1 every 3rd joint to top of co					
WAS WELL (COMPLETED	AS SHOT HOLE	Yes No	DETAILS			
WAS WELL	COMPLETED	OPEN HOLE?	es 🖪 No	DETAILS _			
WERE TRAC	ERS USED	□ Yes ■ No TY	PE OF TRAC	ER(S) USED N	A		

API 4	7- 103	03426	Farm name_	Dallison Lumb	er, Inc	Well numb	er_Gribben Unit 1H	
Stage No.	Perforation		forated from MD ft.	PERFORATION Perforated to MD ft.	Number of Perforations		Formation(s)	
-	;	*PLEA	SE SE	E ATT	ACHE	EXHI	BIT 1	
		onal pages as a			MATION PER S	TAGE	RECEIVED Office of Oil and Gas FEB 0 7 2023	
Comple			STIMUI		vn		Office of Oil and Gas	t of er (unit
Comple	ete a separate	Ave Pump Rate (BPM)	STIMUI ch stimulation sta	ge. Max Breakdor Pressure (PS	vn () ISIP (PSI)	Amount of Proppant (lbs)	FEB 0 7 2023	t of er (uni
Comple Stage	ete a separate	Ave Pump Rate (BPM)	STIMUI ch stimulation sta Ave Treatment Pressure (PSI)	ge. Max Breakdor Pressure (PS	vn () ISIP (PSI)	Amount of Proppant (lbs)	FEB 0 7 2023	t of er (unit
Comple Stage	ete a separate	Ave Pump Rate (BPM)	STIMUI ch stimulation sta Ave Treatment Pressure (PSI)	ge. Max Breakdor Pressure (PS	vn () ISIP (PSI)	Amount of Proppant (lbs)	FEB 0 7 2023	t of er (unit
Comple Stage	ete a separate	Ave Pump Rate (BPM)	STIMUI ch stimulation sta Ave Treatment Pressure (PSI)	ge. Max Breakdor Pressure (PS	vn () ISIP (PSI)	Amount of Proppant (lbs)	FEB 0 7 2023	t of er (unit
Comple Stage	ete a separate	Ave Pump Rate (BPM)	STIMUI ch stimulation sta Ave Treatment Pressure (PSI)	ge. Max Breakdov Pressure (PS	vn () ISIP (PSI)	Amount of Proppant (lbs)	FEB 0 7 2023	t of er (uni

Please insert additional pages as applicable.



WR-35 Rev. 8/23/13 API 47- 103 _ 03426 Farm name Dallison Lumber, Inc Well number Gribben Unit 1H PRODUCING FORMATION(S) **DEPTHS** Marcellus 7099' (TOP) 7556' (TOP) TVD MD Please insert additional pages as applicable. **GAS TEST** □ Build up □ Drawdown ■ Open Flow OIL TEST Flow Pump Surface 2800 SHUT-IN PRESSURE psi DURATION OF TEST -Bottom Hole --psi Oil OPEN FLOW Gas NGL Water GAS MEASURED BY 3554 2602 mcfpd bpd bpd □ Estimated ■ Orifice □ Pilot bpd LITHOLOGY/ TOP BOTTOM TOP BOTTOM FORMATION DEPTH IN FT DEPTH IN FT DEPTH IN FT DEPTH IN FT DESCRIBE ROCK TYPE AND RECORD QUANTITYAND MD TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC) Please insert additional pages as applicable. Drilling Contractor H & P Drilling Zip 16841 State PA Address 912 N Eagle Valley Rd Howard City Logging Company Nine Energy Services Address 6500 West Fwy Zip 76116 Fort Worth TX City State Cementing Company Halliburton Energy Services Address 3000 W. Sam Houston Pkwy TX Zip 76114 Houston City State Stimulating Company Halliburton Address 3000 W. Sam Houston Pkwy State TX Houston City Please insert additional pages as applicable Telephone 304-842-9759 Brandi Hankins Completed Completions Technician Signature

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry

المديد	Total March 1	Perforated from MD	Perforated to	Number of	A Comment
Stage No.	Perforation Date	ft.	MD ft.	Perforations	Formations
1	02/12/2022	21584	21543	32	Marcellus
2	02/12/2022	21504.34783	21338.087	32	Marcellus
3	02/12/2022	21302.43478	21136.1739	32	Marcellus
4	02/13/2022	21100.52174	20934.2609	32	Marcellus
5	02/13/2022	20898.6087	20732.3478	32	Marcellus
6	02/13/2022	20696.69565	20530.4348	32	Marcellus
7	02/13/2022	20494.78261 20292.86957	20328.5217	32	Marcellus
9	02/14/2022	20090.95652	19924.6957	32	Marcellus
10	02/14/2022	19889.04348	19722.7826	32	Marcellus
11	02/15/2022	19687.13043	19520.8696	32	Marcellus
12	02/15/2022	19485,21739	19318.9565	32	Marcellus
13	02/15/2022	19283.30435	19117.0435	32	Marcellus
14	02/15/2022	19081.3913	18915.1304	32	Marcellus
15	02/16/2022	18879,47826	18713.2174	32	Marcellus
16	02/16/2022	18677,56522	18511.3043	32	Marcellus
17	02/16/2022	18475,65217	18309.3913	32	Marcellus
18	02/16/2022	18273.73913	18107.4783	32	Marcellus
19	02/16/2022	18071.82609	17905.5652	32	Marcellus
20	02/17/2022	17869,91304	17703.6522	32	Marcellus
21	02/17/2022	17668	17501.7391	32	Marcellus
22	02/17/2022	17466.08696	17299,8261	32	Marcellus
23	02/18/2022	17264.17391	17097.913	32	Marcellus
24	02/18/2022	17062.26087	16896	32	Marcellus
25	02/18/2022	16860.34783	16694.087	32	Marcellus
26	02/19/2022	16658.43478	16492,1739	32	Marcellus
27	02/19/2022	16456.52174	16290.2609	32	Marcellus
28	02/19/2022	16254.6087	16088.3478	32	Marcellus
29	02/19/2022	16052.69565	15886.4348	32	Marcellus
30	02/20/2022	15850.78261	15684.5217	32	Marcellus
31	02/20/2022	15648.86957 15446.95652	15482.6087 15280.6957	32	Marcellus
32	02/20/2022	15245.04348	15078.7826	32 32	Marcellus
34	02/20/2022	15043.13043	14876.8696	32	Marcellus
35	02/21/2022	14841.21739	14674.9565	32	Marcellus
36	02/21/2022	14639.30435	14473.0435	32	Marcellus
37	02/21/2022	14437.3913	14271.1304	32	Marcellus
38	02/22/2022	14235.47826	14069.2174	32	Marcellus
39	02/22/2022	14033.56522	13867,3043	32	Marcellus
40	02/22/2022	13831.65217	13665.3913	32	Marcellus
41	02/23/2022	13629.73913	13463.4783	32	Marcellus
42	02/23/2022	13427.82609	13261,5652	32	Marcellus
43	02/23/2022	13225.91304	13059.6522	32	Marcellus
44	02/24/2022	13024	12857.7391	32	Marcellus
45	02/24/2022	12822.08696	12655.8261	32	Marcellus
46	02/24/2022	12620.17391	12453,913	32	Marcellus
47	02/25/2022	12418.26087	12252	32	Marcellus
48	02/25/2022	12216.34783	12050.087	32	Marcellus
49	02/25/2022	12014.43478	11848.1739	32	Marcellus
50	02/26/2022	11812.52174	11646.2609	32	Marcellus
51	02/26/2022	11610.6087	11444.3478	32	Marcellus
52	02/27/2022	11408.69565	11242.4348	32	Marcellus
53	02/27/2022	11206.78261 11004.86957	11040.5217 10838.6087	32	Marcellus
54	02/27/2022	1004.86957	10636.6957	32	Marcellus
56	02/28/2022	10601.04348	10434.7826	32	Marcellus
57	02/28/2022	10399.13043	10232.8696	32	Marcellus
58	02/28/2022	10197.21739	10030.9565	32	Marcellus
59	02/28/2022	9995.304348	9829.04348	32	Marcellus
60	03/01/2022	9793.391304	9627.13043	32	Marcellus
61	03/01/2022	9591.478261	9425,21739	32	Marcellus
62	03/01/2022	9389.565217	9223.30435	32	Marcellus
63	03/02/2022	9187.652174	9021.3913	32	Marcellus
64	03/02/2022	8985.73913	8819.47826	32	Marcellus
65	03/02/2022	8783.826087	8617.56522	32	Marcellus
66	03/02/2022	8581.913043	8415.65217	32	Marcellus
67	03/03/2022	8380	8213.73913	32	Marcellus
58	03/03/2022	8178.086957	8011.82609	32	Marcellus
69	03/03/2022	7976,173913	7809,91304	32	Marcellus
70	03/03/2022	7774.26087	7608	32	Marcellus

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				EXHIBI	T 7			
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	02/12/2022	75.32	8635	8660	3531	173080	213800	N/A
2	02/12/2022	76.67	8675	7714	4173	406860	319551	N/A
3	02/12/2022	73.63	8799	6040	3884	406080	312115	N/A
4	02/13/2022	77.95	8703	5770	4319	414250	314717	N/A
5	02/13/2022	75.59	8643	7420	4333	411720	311125	N/A
6	02/13/2022	78,47	8753	7871	4088	405880	310391	N/A
7	02/13/2022	77.92	8737	7916	4127	409600	303240	N/A
8	02/14/2022	65.17	8545	8656	3935	412690	318713	N/A
9	02/14/2022	74.66	8722	8155	4197	416610	304983	N/A
10	02/14/2022	78.69	8815	7172	4133 4166	413050 413150	300498	N/A N/A
11	02/15/2022	75.21	8781	7661	3682	413130	304118	
12	02/15/2022	73.29	8862 8596.51	6377 7490.9	4071.64	411060	303065	N/A N/A
13	02/15/2022	75.22	8643	7928	3996	413720	294493	N/A
14	02/15/2022	67.95	8538	7600	3640	389470	285019	N/A
15	02/16/2022	61.62	8777	7158	3572	413660	305172	N/A
17	02/16/2022	80.75	8721	9070	4228	412460	317334	N/A
18	02/16/2022	79.93	8840	9128	4083	408465	315630	N/A
19	02/16/2022	82.9	8873	7108	4314	413880	296040	N/A
20	02/10/2022	81.53	8796	6969	4068	409590	294004	N/A
21	02/17/2022	84.94	8767	8881	4206	417760	301094	N/A
22	02/17/2022	78.3	8889	6981	4037	410580	294439	N/A
23	02/18/2022	82,68	8898	7777	4162	412240	294540	N/A
24	02/18/2022	80.41	8824	9094	4184	418970	298525	N/A
25	02/18/2022	82.67	8889	7455	3963	398440	292471	N/A
26	02/19/2022	87.98	8888.84	6894.68	3685.62	417840	295155	N/A
27	02/19/2022	90.72	8858	7127	4115	418940	297236	N/A
28	02/19/2022	90.09	8896	8525	4262	413035	306514	N/A
29	02/19/2022	89.47	9027	7508	4389	408990	293364	N/A
30	02/20/2022	88.22	9056	7504	4235	419400	293347	N/A
31	02/20/2022	93.64	8838	8490	4366	396840	293994	N/A
32	02/20/2022	90.71	8924	8255	4337	414230	303987	N/A
33	02/20/2022	92.84	8916	8464	4272	422880	300297	N/A
34	02/20/2022	93,3	9095	7144	4283	417220	292250	N/A
35	02/21/2022	93,9	8797	6936	4240	404140	289799	N/A
36	02/21/2022	87.69	8895	8554	4110	421270	300707	N/A
37	02/21/2022	94.58	9088	6434	4341	401480	283574	N/A
38	02/22/2022	95.94	9031	6413	4323	417860	292056	N/A
39	02/22/2022	94.14	8889	5889	4241	414600	296521	N/A
40	02/22/2022	92.85	8982	6740	4309	418610	291348	N/A
41	02/23/2022	95.43	9055	6479	4078	419400	289750	N/A
42	02/23/2022	93.81	8776	6651	4405	395290	286312	N/A
43	02/23/2022	94.73	8944	5982	4358	397880	289312	N/A
44	02/24/2022	91.4	8587	6841	4130	197410	288071	N/A
45	02/24/2022	91.98	8841	6500	4270	202580	301973	N/A
46	02/24/2022	94.53	8862	7177	4602	199340	290241	N/A
47	02/25/2022	91.23	8713 8545	6966 6059	4368 4483	193670	288383	N/A
48	02/25/2022	96.43 87.88	8151	7641	4379	192880 242745	287560 293214	N/A N/A
50	02/25/2022	94.38	8465	6937	3702	196210	284557	N/A
51	02/26/2022	76.89	8461	5927	4366	197360	310703	N/A
52	02/27/2022	93.32	8369	7092	3983	203220	296608	N/A
53	02/27/2022	86.28	8498	7747	3949	193160	286642	N/A
54	02/27/2022	92.54	8462	5949	4248	202710	286760	N/A
55	02/27/2022	93.94	8265	6452	4473	198810	296729	N/A
56	02/28/2022	96.35	8273	6459	4267	200180	292525	N/A
57	02/28/2022	92.79	8255	6814	4385	238330	288659	N/A
58	02/28/2022	91.65	8100	6537	4343	202060	307272	N/A
59	02/28/2022	96.19	8020	6724	4125	202620	293163	N/A
60	03/01/2022	88.63	8409	7184	3964	200690	340679	N/A
61	03/01/2022	90.37	7671	6050	4650	175110	292051	N/A
62	03/01/2022	87.25	7822	7897	3330	197630	294563	N/A
63	03/02/2022	90.62	7784	8269	3248	199100	302444	N/A
64	03/02/2022	76.47	7654	7690	3510	197270	375723	N/A
65	03/02/2022	76.78	7338	6290	3252	196350	309887	N/A
66	03/02/2022	90.39	7751	8067	3418	205920	307997	N/A
67	03/03/2022	86.5	7703	7278	3617	195000	295995	N/A
68	03/03/2022	78.27	7296	6005	3278	173350	293289	N/A
69	03/03/2022	70.22	7371	6107	4078.64	195410	363172	N/A
70	03/03/2022	83.3	7412	7442	3376	197090	307917	TOTA

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AF1 47		llison Lumber Inc Well Numbe	CHARLET OTHER	
		EXHIBIT 3	**************************************	
LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Sandstone, tr shale	100	310	100	310
Shaly Siltstone, tr coal	310	460	310	460
Silty Sandstone, tr shale	460	550	460	550
Siltstone, tr coal	550	670	550	670
Sandstone	670	790	670	790
Siltstone, tr LS	790	910	790	910
Sandy Siltstone	910	1,090	910	1,090
Siltstone, tr LS	1,090	1,270	1,090	1,270
Sandstone, tr LS	1,270	1,390	1,270	1,390
Shaly Sandstone	1,390	1,540	1,390	1,540
Silty Sandstone, tr salt	1,540	1,690	1,540	1,690
Silty Sandstone, tr shale, tr coal	1,690	1,990	1,690	1,990
Sandy Siltstone, tr salt, tr shale	1,990	2,195	1,990	2,255
Big Lime	2,225	2,744	2,225	2,796
ifty Foot Sandstone	2,744	2,922	2,766	2,982
Gordon	2,922	3,178	2,952	3,252
Fifth Sandstone	3,178	3,227	3,222	3,303
Bayard	3,227	4,133	3,273	4,245
Speechley	4,133	4,273	4,215	4,391
Balltown	4,273	4,761	4,361	4,895
Bradford	4,761	5,310	4,865	5,465
Benson	5,310	5,720	5,435	5,892
Alexander	5,720	6,917	5,862	7,183
Sycamore	6,750	6,887	6,982	7,153
Middlesex	6,887	6,989	7,153	7,304
Burkett	6,989	7,023	7,304	7,367
Tully	7,023	7,099	7,367	7,556
Marcellus	7,099	NA	7,556	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.

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Job Start Date:	2/12/2022	RE OF	-
Job End Date:	Fluid Product Compone 2/12/2022 3/3/2022 West Virginia Wetzel	Office	L
State:	West Virginia		
County:	Wetzel		5
API Number:	47-103-03426-00-00	-	
Operator Name:	Antero Resources Corporation		-
Well Name and Number:	GRIBBEN UNIT 1H		
Latitude:	39.52638000	Cher	n
Longitude:	-80.72458300		
Datum:	NAD83	CPOLINIDA	AT
Federal Well:	NO	CHOONDWI	1
Indian Well:	NO	PROTECTION CO	JIN.
True Vertical Depth:	7,224		
otal Base Water Volume (gal):	22,403,798		
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	86.74499	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.16951	

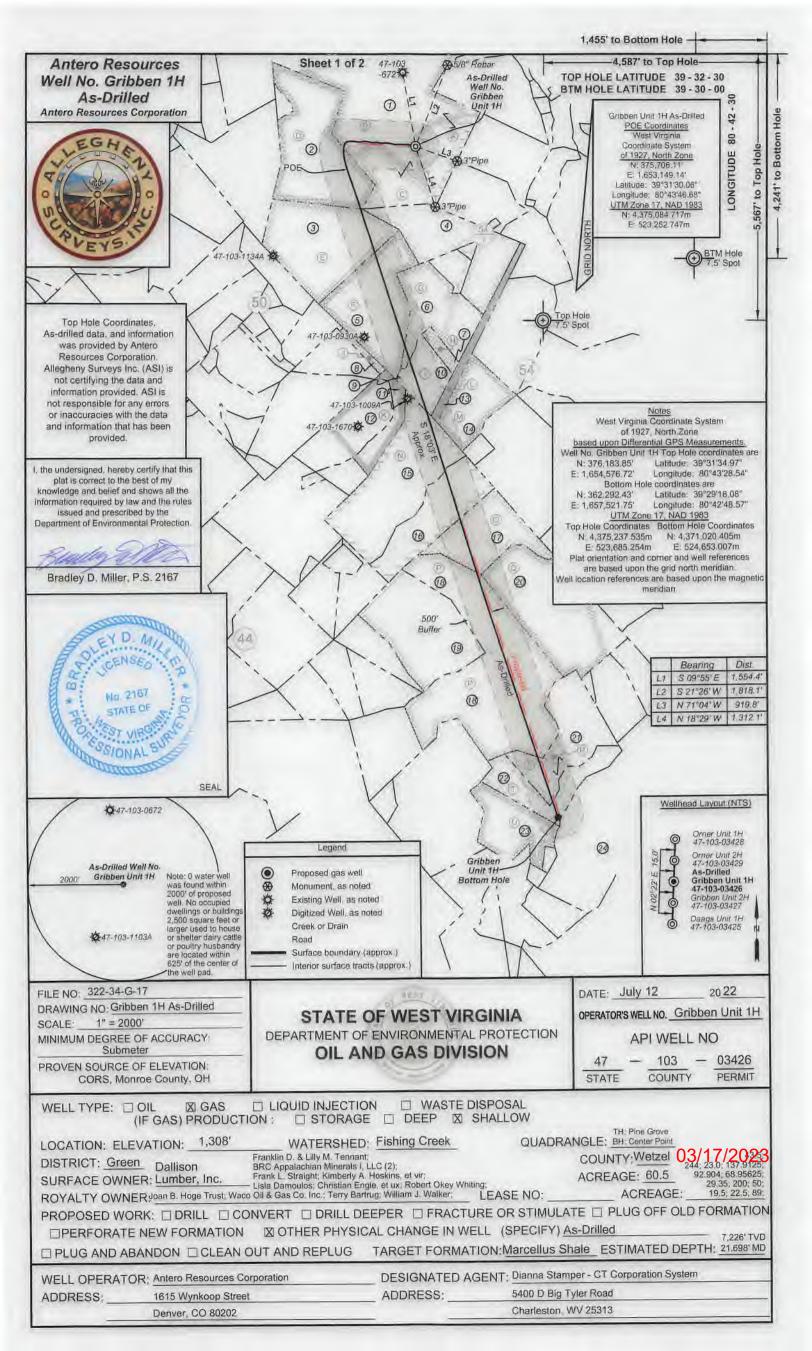
HAI-501	Halliburton	Acid Corrosion Inhibitor		
			Listed Below	
MC B-8614A	MultiChem	Biocide		
			Listed Below	
Excelerate LX-15	Halliburton	Friction Reducer		
			Listed Below	
HYDROCHLORI C ACID, 22 BAUME	Halliburton	Solvent		
,			Listed Below	
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker		
			Listed Below	
WG-36 GELLING AGENT	Halliburton	Gelling Agent		
			Listed Below	A
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant		A Company of the Comp
			Listed Below	
Sand-Premium White-40/70	Halliburton	Proppant		
			Listed Below	

FLUID Enviro- Syn HCR-7000- WL	Fluid Energy Group	Acid Replacement					
				Listed Below			
Items above are Ti	ade Names with th	e exception of Base V	Vater . Items below are the ind	ividual ingredients.			
			Crystalline silica, quartz	14808-60-7	100,00000	13.03883	
			Complex Amine Compound	Proprietary	60.00000	0.04730	123 feet
			Hydrochloric acid	7647-01-0	30.00000	0.034 6	7 21 Pre
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.02365	Dogram Trita
			Guar gum	9000-30-0	100.00000	0.00425	FEB wy Use
			Sobitan, mono-9- octadecenoate, (Z)	1338-43-8	5.00000	0.00394	E.
			Surfactant	Proprietary	5.00000	0.00394	
			Glutaraldehyde	111-30-8	30.00000	0.00251	
			Proprietary	Proprietary	20.00000	0.00209	
			Proprietary	Proprietary	10.00000	0.00104	
			Ethoxylated alcohols	Proprietary	5.00000	0.00080	
			Organic chloride compound	Proprietary	1.00000	0.00079	
			Alkoxylated polyhydric alcohol	Proprietary	1.00000	0.00079	
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00042	
			Ammonium persulfate	7727-54-0	100.00000	0.00025	
			Methanol	67-56-1	100.00000	0.00021	
			Ethanol	64-17-5	1.00000	0.00008	
			Oxylated phenolic resin	Proprietary	30.00000	0.00007	
			Modified thiourea polymer	Proprietary	30.00000	0.00006	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00006	

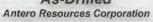
	Propargyl alcohol	107-19-7	5.00000	0.00001	
	Hexadecene	629-73-2	5.00000	0.00001	
	Nitrated acetate salt	Proprietary	0.01000	0.00001	
	Sodium hydroxide	1310-73-2	0.01000	0.00001	
	Organic salt #2	Proprietary	0.01000	0.00001	
	Acrylamide	79-06-1	0.01000	0.00001	
	Organic salt #1	Proprietary	0.01000	0.00001	
	Sodium glycolate	2836-32-0	0.01000	0.00001	
	Formaldehyde	50-00-0	0.01000	0.00001	
	C.I. pigment Orange 5	3468-63-1	1.00000	0.00000	

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)

^{*} 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



Sheet 2 of 2





	Leases
A	Joan B. Hoge Trust
В	Waco Oil & Gas Company Inc.
C	BRC Appalachian Minerals I, LLC
D	Terry Bartrug
E	BRC Appalachian Minerals I, LLC
F	William J. Walker
G	Franklin D. & Lilly M. Tennant
H	Julita Ann Myers
1	Lisla Damoulos
J	Tony Eugene Crabtree, et ux
K	Shiben Estates, Inc.
L	Antero Minerals, LLC
M	S.A. Smith, et al
N	Christian Engle, et ux
0	Robert Okey Whiting
P	BRC Appalachian Minerals I LLC
Q	Lucius Hoge, et al
R	Larry Hoover
S	Frank L. Straight
T	Kimberly A. Hoskins, et vir
U	Sharon Hosey Seckman

ID	TM/Par	Owner	Bk/Pg	Acres
1	20-13	Dallison Lumber Inc.	440/243	208.00
2	20-12	Terry Bartrug	361/465	92.90
3	20-24	Lloyd Conley	355/553	89.00
4	20-25	Unknown Owner	/	42.00
5	20-31	Tony E. & Marion L. Crabtree	365/337	68.95
6	20-32	Tony E. & Marion L. Crabtree	365/337	43.50
7	20-45	Tony E. & Marion L. Crabtree	365/337	5.50
8	20-44	Tony E. & Marion L. Crabtree	365/337	4.50
9	22-6.1	Ancient Energy LTD	441/591	0.04
10	22-7	Lisla W. Damoulos	399/428	29.40
11	22-6	Denzil W. Sloan	305/582	21.23
12	22-14.1	Tony E. & Marion L. Crabtree	365/337	41.80
13	20-34	Columbia Gas Transmission Corp.	263/164	12.00
14	22-8	Robert P & Carolyn J. Kocher	291/332	42.12
15	22-19	Coastal Forest Resources Co.	444/105	155.30
16	22-20	Lawrence J. Bish, et al	420/736	63.23
17	22-29	Timothy L. Yoho	377/411	50.00
18	22-34	Coastal Forest Resources Co.	444/105	172.91
19	22-28	Coastal Forest Resources Co.	444/105	77.10
20	22-34.1	Coastal Forest Resources Co.	444/105	129.00
21	25-2	Coastal Forest Resources Co.	444/105	61.93
22	25-3	Coastal Forest Resources Co.	444/105	32.00
23	25-5	Christopher & Dennis Doyle	410/80	39.36
24	25-6	State of West Virginia Public Land Corp.	331/497	216.30

FILE NO: 322-34-G-17

DRAWING NO: Gribben 1H As-Drilled

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:
CORS, Monroe County, OH

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

DATE: July 12 2022

OPERATOR'S WELL NO. Gribben Unit 1H

API WELL NO

47 - 103 - 03426 STATE COUNTY PERMIT

	ID INJECTION □ WASTE DIS □ STORAGE □ DEEP ☒ SI	HALLOW				
DISTRICT: Green Dallison Franklin D. 8 BRC Appala Frank L. Stra	ATERSHED: Fishing Creek & Lilly M. Tennant; achian Minerals I, LLC (2); aight; Kimberly A. Hoskins, et vir; alos; Christian Engle, et ux; Robert Okey Whiting to. Inc.; Terry Bartrug; William J. Walker;	TH: Pine Grove QUADRANGLE: BH: Center Point COUNTY: Wetzel 03/17/2023 244; 23.0; 137.9125; 92.904; 68.95625; 92.904; 68.95625; 29.35; 200; 50; LEASE NO: ACREAGE: 19.5; 22.5; 89;				
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 7,226' TVD						
☐ PLUG AND ABANDON ☐ CLEAN OUT AND	REPLUG TARGET FORMATION	ON:Marcellus Shale ESTIMATED DEFTA. 21,030 MD				
WELL OPERATOR: Antero Resources Corporation	DESIGNATED AG	DESIGNATED AGENT: Dianna Stamper - CT Corporation System				
ADDRESS: 1615 Wynkoop Street	ADDRESS:	5400 D Big Tyler Road				
Denver CO 80202	2-30000000	Charleston, WV 25313				