

API 47-085-10348 Farm Name David L. Weekley Revocable Trust Well Number Ray Unit 3H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	8/11/2019	14186.2	14240.8	60	Marcellus
2	8/12/2019	13988.65	14155.275	60	Marcellus
3	8/12/2019	13791.1	13957.725	60	Marcellus
4	8/12/2019	13593.55	13760.175	60	Marcellus
5	8/13/2019	13396	13562.625	60	Marcellus
6	8/13/2019	13198.45	13365.075	60	Marcellus
7	8/13/2019	13000.9	13167.525	60	Marcellus
8	8/13/2019	12803.35	12969.975	60	Marcellus
9	8/14/2019	12605.8	12772.425	60	Marcellus
10	8/14/2019	12408.25	12574.875	60	Marcellus
11	8/14/2019	12210.7	12377.325	60	Marcellus
12	8/15/2019	12013.15	12179.775	60	Marcellus
13	8/15/2019	11815.6	11982.225	60	Marcellus
14	8/15/2019	11618.05	11784.675	60	Marcellus
15	8/15/2019	11420.5	11587.125	60	Marcellus
16	8/16/2019	11222.95	11389.575	60	Marcellus
17	8/16/2019	11025.4	11192.025	60	Marcellus
18	8/16/2019	10827.85	10994.475	60	Marcellus
19	8/16/2019	10630.3	10796.925	60	Marcellus
20	8/17/2019	10432.75	10599.375	60	Marcellus
21	8/17/2019	10235.2	10401.825	60	Marcellus
22	8/17/2019	10037.65	10204.275	60	Marcellus
23	8/17/2019	9840.1	10006.725	60	Marcellus
24	8/17/2019	9642.55	9809.175	60	Marcellus
25	8/18/2019	9445	9611.625	60	Marcellus
26	8/19/2019	9247.45	9414.075	60	Marcellus
27	8/19/2019	9049.9	9216.525	60	Marcellus
28	8/19/2019	8852.35	9018.975	60	Marcellus
29	8/19/2019	8654.8	8821.425	60	Marcellus
30	8/19/2019	8457.25	8623.875	60	Marcellus
31	8/20/2019	8259.7	8426.325	60	Marcellus
32	8/20/2019	8062.15	8228.775	60	Marcellus
33	8/20/2019	7864.6	8031.225	60	Marcellus
34	8/20/2019	7667.05	7833.675	60	Marcellus
35	8/21/2019	7469.5	7636.125	60	Marcellus
36	8/21/2019	7271.95	7438.575	60	Marcellus
37	8/21/2019	7074.4	7241.025	60	Marcellus
38	8/21/2019	6876.85	7043.475	60	Marcellus

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	8/11/2019	70.1	7155	6524	3160	201840	5616	N/A
2	8/12/2019	77.92	7636	6326	2946	404660	8691	N/A
3	8/12/2019	78.08	7352	6429	3094	403040	8678	N/A
4	8/12/2019	77.24	7261	5640	3231	404600	8801	N/A
5	8/13/2019	75.85	7362	5618	3529	406840	10340	N/A
6	8/13/2019	72.51	7674	5675	3263	404320	8819	N/A
7	8/13/2019	72.03	7839	5285	3170	403440	8754	N/A
8	8/13/2019	77.35	8188	5441	3326	406120	8661	N/A
9	8/14/2019	78	8246	5582	3280	401400	8821	N/A
10	8/14/2019	75.6	8075	6437	3529	403640	8795	N/A
11	8/14/2019	77.2	8134	5660	3438	411460	9126	N/A
12	8/15/2019	78.57	8059	5218	3552	403080	8689	N/A
13	8/15/2019	78	8230	5641	3500	406380	8572	N/A
14	8/15/2019	79.8	8224	5693	3585	401660	8650	N/A
15	8/15/2019	81.38	8203	4476	3905	401160	8610	N/A
16	8/16/2019	82.55	8422	5628	3481	406820	8587	N/A
17	8/16/2019	82.7	8183	5680	3600	405380	8597	N/A
18	8/16/2019	84	8350	5826	3696	413820	8792	N/A
19	8/16/2019	85.03	8190	5133	3609	411940	8575	N/A
20	8/17/2019	82.5	8018	5571	3427	409520	8672	N/A
21	8/17/2019	82.5	8304	4955	3746	407380	8518	N/A
22	8/17/2019	83.1	8332	5996	3554	398620	8543	N/A
23	8/17/2019	85.15	8041	5509	3609	404980	8479	N/A
24	8/17/2019	84.43	8152	5611	3576	412920	8582	N/A
25	8/18/2019	82.09	7609	5913	3848	414520	8710	N/A
26	8/19/2019	84.65	8077	5699	3576	404640	8334	N/A
27	8/19/2019	87.32	7918	5768	3431	401240	8320	N/A
28	8/19/2019	85	7838	5716	3660	410080	8581	N/A
29	8/19/2019	85.7	8034	5734	3642	418020	8701	N/A
30	8/19/2019	86.06	7986	5973	3699	411840	8572	N/A
31	8/20/2019	85.63	8007	6034	3739	417280	8647	N/A
32	8/20/2019	85.9	7865	5833	3710	402420	8470	N/A
33	8/20/2019	88.2	8065	5368	3863	400440	8545	N/A
34	8/20/2019	81.01	7738	6102	3986	398060	8427	N/A
35	8/21/2019	83.23	7751	5380	3892	400420	8411	N/A
36	8/21/2019	85.75	7898	5465	3851	400320	8437	N/A
37	8/21/2019	87	7856	5435	3796	400040	8384	N/A
38	8/21/2019	86.29	7842	6006	3879	400120	8276	N/A
	AVG	81.5	7,950	5,684	3,563	15,214,460	325,783	TOTAL

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Silty sandstone	0	225	0	225
Silty sandstone w/ coal	225	265	225	265
Sandy Siltstone	265	325	265	325
Silty sandstone	325	405	325	405
Sandy sahle	405	425	405	425
Sandy, limy siltstone	425	485	425	485
Sandstone	485	585	485	585
Siltstone	585	685	585	685
Sandstone w lime stingers	685	1,275	685	1,275
Silty sandstone	1,275	1,685	1,275	1,685
Limy shale	1,685	1,905	1,685	1,905
Sandstone	1,905	2,045	1,905	2,045
Siltstone	2,045	2,066	2,045	2,083
Big Lime	2,081	2,836	2,059	2,839
Fifty Foot Sandstone	2,836	3,020	2,815	3,024
Gordon	3,020	3,116	3,000	3,120
Fifth Sandstone	3,116	3,531	3,096	3,543
Bayard	3,531	4,122	3,519	4,150
Speechley	4,122	4,360	4,126	4,395
Balltown	4,360	4,968	4,371	5,022
Bradford	4,968	5,348	4,998	5,413
Benson	5,348	5,564	5,389	5,635
Alexander	5,564	6,401	5,611	6,553
Sycamore	6,275	6,377	6,393	6,529
Middlesex	6,377	6,484	6,529	6,718
Burkett	6,484	6,513	6,718	6,779
Tully	6,513	6,532	6,779	6,831
Marcellus	6,532	NA	6,831	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.

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Discharge Monitoring Report
Oil and Gas General Permit

Company Name: Antero Resources Corporation
API No: 47-085-10348 County: Ritchie
District: Clay Well No: Ray Unit 3H
Farm Name: David Weekley L. Revocable Trust
Discharge Date/s From:(MMDDYY) 09/26/19 To: (MMDDYY) 10/26/19
Discharge Times. From: 0:00 To: 24:00
Total Volume to be Disposed from this facility (gallons): 906,634
Disposal Option(s) Utilized (write volumes in gallons):

- (1) Land Application: _____ (Include a topographical map of the Area.)
(2) UIC: 104,033 Permit No. 3400923821, 3400923823, 3400923824, 3416729731, 3416729543, 3416729464, 3416729445, 3410523619, 3410523652
(3) Offsite Disposal: _____ Site Location: _____
(4) Reuse: 802,601 Alternate Permit Number: _____
(5) Centralized Facility: _____ Permit No. _____
(6) Other method: _____ (Include an explanation)

Follow Instructions below to determine your treatment category:

Optional Pretreatment test: n/a Cl- mg/l n/a DO mg/l

1. Do you have permission to use expedited treatment from the Director or his representative?
(Y/N) n/a If yes, who? _____ and place a four (4) on line 7.
If not go to line 2
2. Was Frac Fluid or flowback put into the pit? (Y/N) n/a If yes, go to line 5. If not, go to line 3.
3. Do you have a chloride value pretreatment (see above)? (Y/N) n/a If yes, go to line 4
If not, go to line 5.
4. Is the Chloride level less than 5000 mg/l? (Y/N) n/a If yes, then enter a one (1) on line 7.
5. Do you have a pretreatment value for DO? (See above) (Y/N) n/a If yes, go to line 6
If not, enter a three (3) in line 7.
6. Is the DO level greater than 2.5 mg/l?(Y/N) n/a If yes, enter a two (2) on line 7. If not, enter a three (3) on line 7.
7. n/a is the category of your pit. Use the Appropriate section.
8. Comments on Pit condition: n/a No pit on site

Name of Principal Exec. Officer: Gretchen Kohler

Title of Officer: Senior Environmental and Regulatory Manager

Date Completed: 3/16/20

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Gretchen Kohler
Signature of a Principal Exec. Officer or Authorized agent.

Category 1
Sampling Results
API No : _____

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	5	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl	5,000	_____	5,000	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

*** Al is only reported if the pH is above 9.0

Category 2
Sampling Results
API No : _____

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	10	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

* Can be 25,000 with inspector's approval,

(Inspector's signature): _____

Date: _____

** Include a description of your aeration technique.

Aeration Code: _____

*** Al is only reported if the pH is above 9.0

Category 3
Sampling Results
API No : _____

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	20	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**			Monitor	_____	mg/l
Oil and Grease			Monitor	_____	mg/l
Total Al***			Monitor	_____	mg/l
TSS			Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume			Monitor	_____	Gal
Flow			Monitor	_____	Gal/min
Disposal Area			Monitor	_____	Acres

* Can be 25,000 with inspector's approval,

(Inspector's signature): _____

Date: _____

** Include a description of your aeration technique.

Aeration Code: _____

*** Al is only reported if the pH is above 9.0.

Category 4
Sampling Results
API No: _____

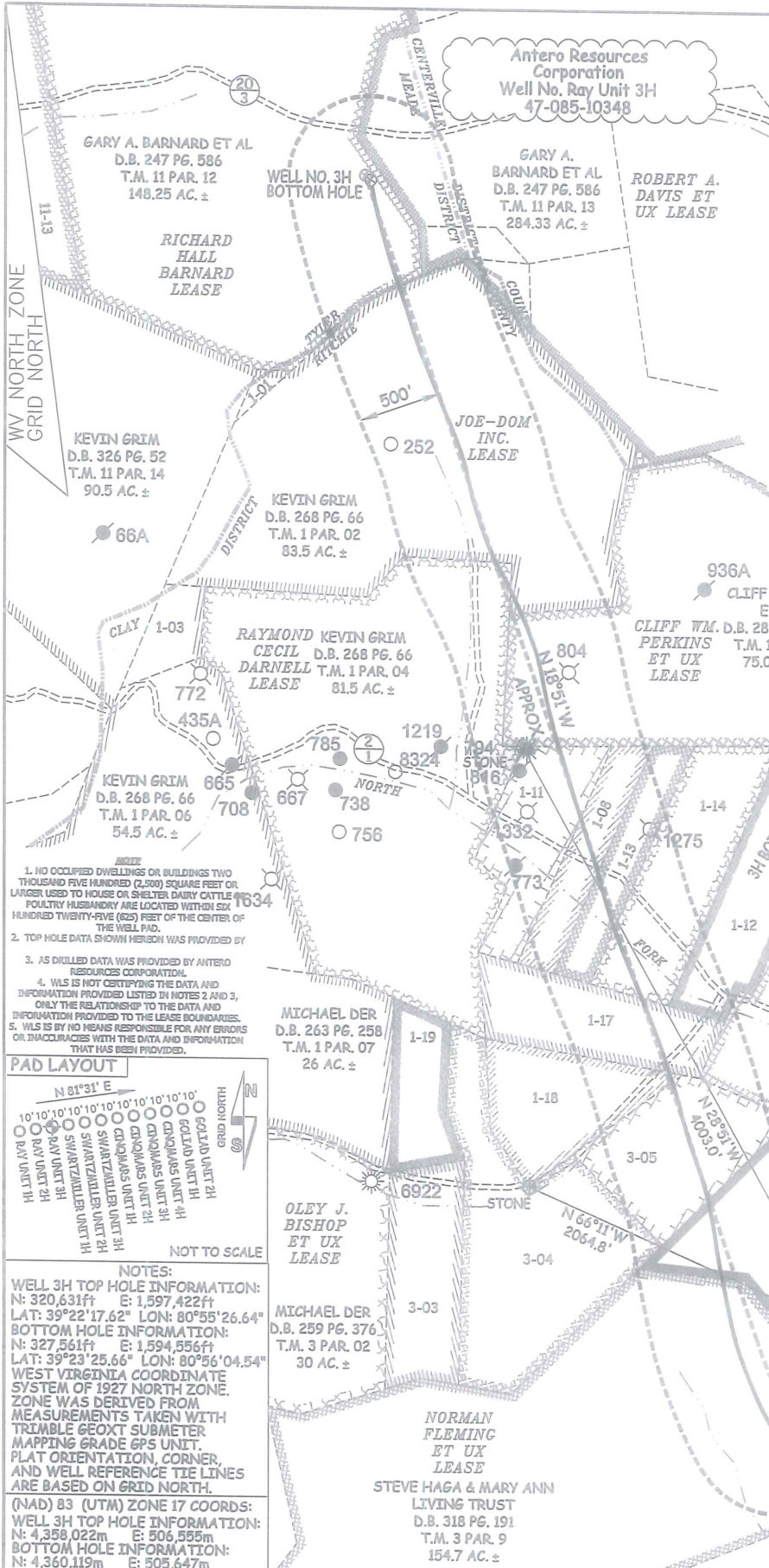
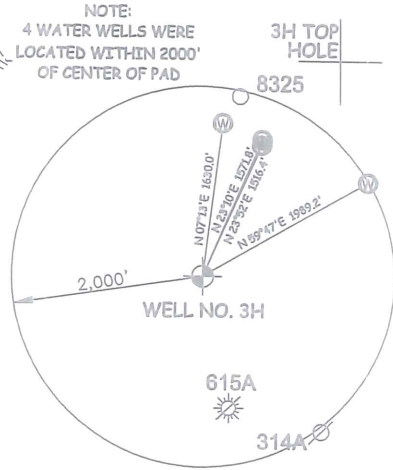
Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	1	_____	N/A	N/A	Days
Fe	Monitor	_____	Monitor	_____	mg/l
D.O.	Monitor	_____	Monitor	_____	mg/l
Settleable Sol.	Monitor	_____	Monitor	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**			Monitor	_____	mg/l
Oil and Grease			Monitor	_____	mg/l
TSS			Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume			Monitor	_____	Gal
Flow			Monitor	_____	Gal/min
Activated Carbon (0.175)			N/A	N/A	lb/Bl
Date Site Reclaimed	N/A	N/A			10 days from dis.
Disposal Area			Monitor	_____	Acres

* Can be 25,000 with inspector's approval,

(Inspector's signature): _____

Date: _____

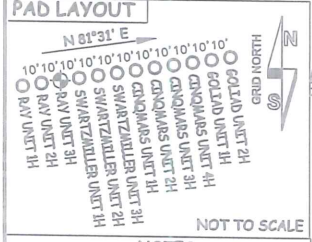
LATITUDE 39°22'30" TO 39°25'00"
 5,067' TO BOTTOM HOLE
 LONGITUDE 80°55'00" TO 80°55'00"



Clay District - Ritchie County		
PAR.	SURFACE OWNER	OIL & GAS ROYALTY OWNER
1-08	CLIFF PERKINS ET AL	CLIFF WM. PERKINS ET UX
1-09	CLIFF PERKINS ET AL	CLIFF WM. PERKINS ET UX
1-11	CLIFF PERKINS ET AL	CLIFF WM. PERKINS ET UX
1-12	CLIFF PERKINS ET AL	LAURA ULAM
1-13	CLIFF PERKINS ET AL	CLIFF WM. PERKINS ET UX
1-14	CLIFF PERKINS ET AL	CLIFF WM. PERKINS ET UX
1-15	CLIFF PERKINS ET AL	CLIFF WM. PERKINS ET UX
1-16	CLIFF PERKINS ET AL	CLIFF WM. PERKINS ET UX
1-17	CLIFF PERKINS ET AL	CLIFF WM. PERKINS ET UX
1-18	CLIFF PERKINS ET AL	CLIFF WM. PERKINS ET UX
1-19	MICHAEL DER	GARY MICHAEL DER ET UX
1-20	TONY PERKINS ET AL	TONY ADRIAN PERKINS
3-03	BRIAN JONES	BRIAN KEITH JONES
3-04	BRIAN JONES	BRIAN KEITH JONES
3-05	DENNY COWGER	DENNY COWGER ET UX
3-06	CLIFF PERKINS ET AL	TONY ADRIAN PERKINS

Maede District - Tyler County		
PAR.	SURFACE OWNER	OIL & GAS ROYALTY OWNER
11-13	GARY A. BARNARD ET AL	GARY A. BARNARD ET UX

- NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY/HABERNARY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
- TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY _____
- AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
- 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.
- WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.



NOTES:
 WELL 3H TOP HOLE INFORMATION:
 N: 320,631ft E: 1,597,422ft
 LAT: 39°22'17.62" LON: 80°55'26.64"
 BOTTOM HOLE INFORMATION:
 N: 327,561ft E: 1,594,556ft
 LAT: 39°23'25.66" LON: 80°56'04.54"
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE 680XT 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 3H TOP HOLE INFORMATION:
 N: 4,358,022m E: 506,555m
 BOTTOM HOLE INFORMATION:
 N: 4,360,119m E: 505,647m

JOB # 17-043WA
 DRAWING # RAY3HAD
 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

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.

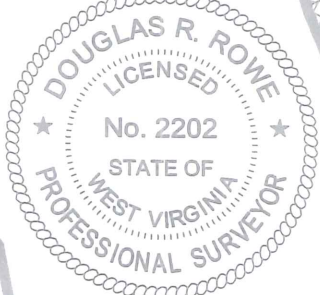


STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

LEGEND
 - - - - - Surface Owner Boundary Lines +/-
 - - - - - Interior Surface Tracts +/-
 ○ Proposed Well Path
 ⊗ As Drilled Well Path

DOUGLAS R. ROWE P.S. 2202
 DATE 02/10/20
 OPERATOR'S WELL# RAY UNIT #3H

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1,235' AS BUILT WATERSHED NORTH FORK HUGHES RIVER
 QUADRANGLE PENNSBORO 7.5' - TH MIDDLEBOURNE 7.5' - BH DISTRICT CLAY COUNTY RITCHIE
 SURFACE OWNER DAVID L. WEEKLEY REVOCABLE TRUST ACREAGE 203.38 ACRES +/-
 OIL & GAS ROYALTY OWNER DAVID L. WEEKLEY REVOCABLE TRUST; NORMAN FLEMING ET UX; DENNY COWGER ET UX; LEASE ACREAGE 229 AC ±; 126.5 AC ±; 15.17 AC ±;
 CLIFF WM. PERKINS ET UX; CLIFF WM. PERKINS ET UX; CLIFF WM. PERKINS ET UX; CLIFF WM. PERKINS ET UX; CLIFF WM. PERKINS ET UX; 13 AC ±; 13.5 AC ±; 16 AC ±; 8.25 AC ±; 8.5 AC ±;
 CLIFF WM. PERKINS ET UX; CLIFF WM. PERKINS ET UX; RAYMOND CECIL DARNELL; JOE-DOM INC.; RICHARD HALL BARNARD 13 AC ±; 75.08 AC ±; 81.5 AC ±; 380 AC ±; 148.25 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
 TARGET FORMATION MARCELLUS PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
 WELL OPERATOR ANTERO RESOURCES CORP. ESTIMATED DEPTH 6,592' TVD 14,355' MD
 ADDRESS 1615 WYNKOOP ST. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
 FORM WW-6 DENVER, CO 80202 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313



COUNTY NAME PERMIT