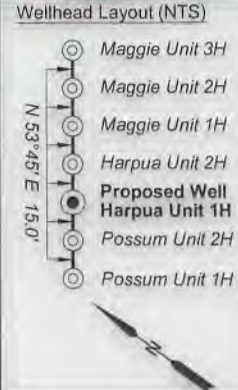


Antero Resources
Well No. Harpua Unit 1H

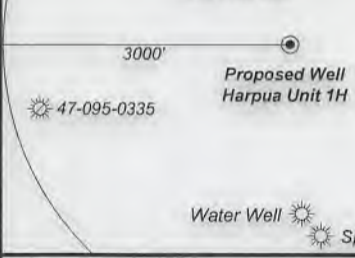
Antero Resources Corporation



Lessor

A	Linda L. Newbrough
B	Jack Russell Folger, et ux
C	Naomi V. Beagle
D	Scott Denomme, et ux
E	Stanley M. & Irene E. Koterba
F	Sarah Valentour Nass
G	Kim M. & Larry M. Henthorn
H	Sarah A. Midcap
I	James F. Sr. & Phyllis M. Henthorn
J	James F. Sr. & Phyllis M. Henthorn
K	Larry R. Henthorn
L	Sarah A. Midcap
M	Michael P. & Sherri J. Tuttle
N	Roger Ankrom
O	Bobby S. & Sue Marie Adams
P	David E. Bowyer
Q	James W. Chapman
R	Waco Oil & Gas Inc.
S	Marylin S. Parkinson
T	Nancy J. Squires
U	Sandra L. Baumgardner
V	Charles M. Ferrell
W	H3, LLC
X	Kathryn L. Watkins
Y	Robert D. & Jessica J. Masters
Z	Beatrice Lee Henthorn
AA	Michael E. & Lois J. Henthorn
AB	Jason L. & Patty J. Henthorn
AC	Kenneth F. & Donna Blake

Note: It appears 1 water well and 2 springs were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

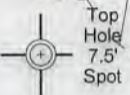


Notes:
Well No. Harpua Unit 1H
UTM Zone 17, NAD 1927
Top Hole Coordinates
N: 14,347,530.99'
E: 1,672,492.97'
Point of Entry Coordinates
N: 14,347,352.00'
E: 1,671,281.26'
Bottom Hole Coordinates
N: 14,357,289.61'
E: 1,667,841.37'

Notes:
West Virginia Coordinate System
of 1927, North Zone
based upon Differential GPS Measurements.
Well No. Harpua Unit 1H Top Hole coordinates are
N: 370,765.03' Latitude: 39°30'34.86"
E: 1,608,881.25' Longitude: 80°53'10.59"
Bottom Hole coordinates are
N: 380,603.30' Latitude: 39°32'11.40"
E: 1,604,391.67' Longitude: 80°54'09.83"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,373,353.894m N: 4,376,328.317m
E: 509,791.367m E: 508,373.649m
Plat orientation and corner and well references
are based upon the grid north meridian.
Well location references are based upon the magnetic
meridian.



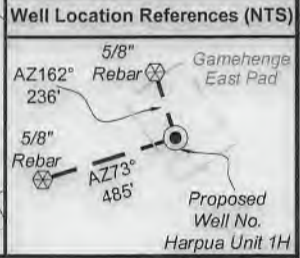
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.
Bradley D. Miller, P.S. 2167



Legend

- Proposed gas well
- Monument, as noted
- Existing Well, as noted
- Digitized Well, as noted
- Creek or Drain
- Surface boundary (approx.)
- Interior surface tracts (approx.)
- Open lease

	Bearing	Dist.
L1	S 64°08' E	2,066.9'
L2	S 31°00' E	1,041.8'
L3	N 02°07' W	1,498.5'
L4	N 57°27' E	2,812.1'
L5	S 80°19' W	1,263.1'



FILE NO: 34-54-E-16
DRAWING NO: Harpua 1H Well Plat
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: June 24 2019
OPERATOR'S WELL NO. Harpua Unit 1H
API WELL NO. 464
47 - 095 - 02136
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
Proposed 1061'

LOCATION: ELEVATION: Existing 1072' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City 62.84375;
DISTRICT: Ellsworth COUNTY: Tyler 452.99125;
SURFACE OWNER: Barbara Kay Turner Marilyn S. Parkinson; David E. Bowyer; James W. Chapman; 113.725; 64.18;
Stanley M. & Irene E. Koterba; Sarah A. Midcap (2); ACREAGE: 26.18 74.169; 91.831;
ROYALTY OWNER: Naomi V. Beagle; Scott Denomme, et ux; Linda L. Newbrough; LEASE NO: ACREAGE: 20; 217.30; 23.38688;
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,000' TVD
18,700' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
Denver, CO 80202 Charleston, WV 25313

7,849' to Bottom Hole

3,359' to Top Hole

LATITUDE 39 - 32 - 30

LONGITUDE 80 - 52 - 30

11,599' to Top Hole

1,761' to Bottom Hole



ID	TM/Par	Owner	Bk/Pg	Acres
1	15-19	David Mendenhall, et al	282/723	45.00
2	15-18	Barbara Kay Turner	398/670	26.18
3	14-26	Brenda K. Turner	398/670	26.34
4	14-27	Ridgetop Capital LP	372/299	64.96
5	14-24	Ridgetop Capital LP	372/299	124.76
6	14-25	Stanley M. Koterba, et al	331/32	126.05
7	14-25.2	Andrew B. & Angela M. Negie	489/577	3.00
8	14-25.1	Roy F. Gorrell	447/180	2.00
9	14-11	Larry R. Henthron	270/363	21.50
10	9-61	Larry R. Henthron	212/606	10.00
11	14-10	Sara A. Midcap	342/568	40.00
12	9-39	Board of Education of Tyler County	290/88	65.00
13	9-59	James F. & Phyllis Henthorn	190/311	46.13
14	9-40	Sara A. Midcap	168/3	16.83
15	9-31	Sara A. Midcap	168/3	74.00
16	9-25	Michael & Sherri Tuttle	319/341	24.52
17	9-24	Bob S. & Sue M. Adams	204/599	7.15
18	9-26	Mariyn Ankrom	WB 47/269	18.94
19	9-15	Heartwood Forestland Fund II LP	326/547	225.64
20	9-23	Raymond Chapman, et al	WB 45/271	22.31
21	9-15.1	Timothy & Marilyn S. Skinner	226/477	0.71
22	9-22	Shawn A. & Cathy A. Potts	291/219	0.98
23	9-15.2	Par Mar Realty Co.	534/407	3.091
24	9-15.3	Fred Midcap	351/7	44.00
25	9-16	Sara A. Midcap	181/278	96.78
26	9-14	Leroy Kent Morris	480/311	93.63
27	9-1	Linda L. Stemple	369/9	24.24
28	9-2	William & Margaret A. Garrett	284/41	22.19
29	9-60	James F. & Phyllis Henthorn	190/311	36.47
30	9-57	Kenneth & Donna Blake	323/91	0.37
31	9-56	Jason Lee Henthorn	546/431	0.92
32	9-40.1	Board of Education of Tyler County	290/88	9.17
33	9-55	Michael E. & Lois Henthorn	319/327	1.02
34	9-56.1	Michael E. & Lois Henthorn	297/623	1.04
35	9-58	Beatrice Lee Henthorn	WB 31/242	0.37
36	9-54	Beatrice Lee Henthorn	WB 31/242	0.89
37	9-58.1	Robert D. & Jessica J. Masters	342/737	0.76
38	9-53	R&S Lumber Co.	318/200	5.49
39	9-52	Mark A. & Lisa D. Richmond	328/344	1.59
40	9-51	Robert L. & Toni R. Vancamp	444/541	0.68
41	9-48.1	Kirk Family Trust	511/167	0.70
42	9-48.2	Kirk Family Trust	511/167	0.33
43	9-49	Claudia Jean Gray	WB 29/220	15.15
44	9-48.5	Kathleen Fluharty	291/212	0.93
45	9-48.4	Francis D. & Barbara A. Slider	290/347	3.64
46	9-47	Brian & Tricia Brinkmeier	328/887	1.01
47	9-50	Lloyd & Linda Waggoner	299/497	1.06
48	9-53.1	Jessie A. Thompson	346/698	1.67
49	9-45	Stanley Modesitt	332/70	0.35
50	9-46	Michael J. & Heather D. Mongold	510/509	0.86
51	9-41	Daniel J. & Sha M. Yoho	306/514	2.93
52	9-42	Michael D. & Martha K. Pierpoint	215/276	1.06
53	9-48.7	Kathleen Fluharty Baxter	332/216	0.55
54	9-43	Catherine L. Bennett	217/376	0.72
55	9-48.3	Larry R. Henthorn	290/166	0.32
56	9-48	Michael D. & Martha K. Pierpoint	332/514	2.82



Detail B
(NTS)

FILE NO: 34-54-E-16
DRAWING NO: Harpua 1H Well Plat
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: June 24 2019
OPERATOR'S WELL NO. Harpua Unit 1H
API WELL NO. 464
47 - 095 - 02636
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
Proposed 1061'
LOCATION: ELEVATION: Existing 1072' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City 62.84375;
DISTRICT: Ellsworth COUNTY: Tyler 452.99125;
SURFACE OWNER: Barbara Kay Turner Marylin S. Parkinson; David E. Bowyer; James W. Chapman; 113.725; 64.18;
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