

**Antero Resources**  
**Well No. Treasury Unit 2H**  
**Antero Resources Corporation**

(+) Denotes  
 Location of Well on  
 United States  
 Topographic Maps

**PAGE 1 of 2**

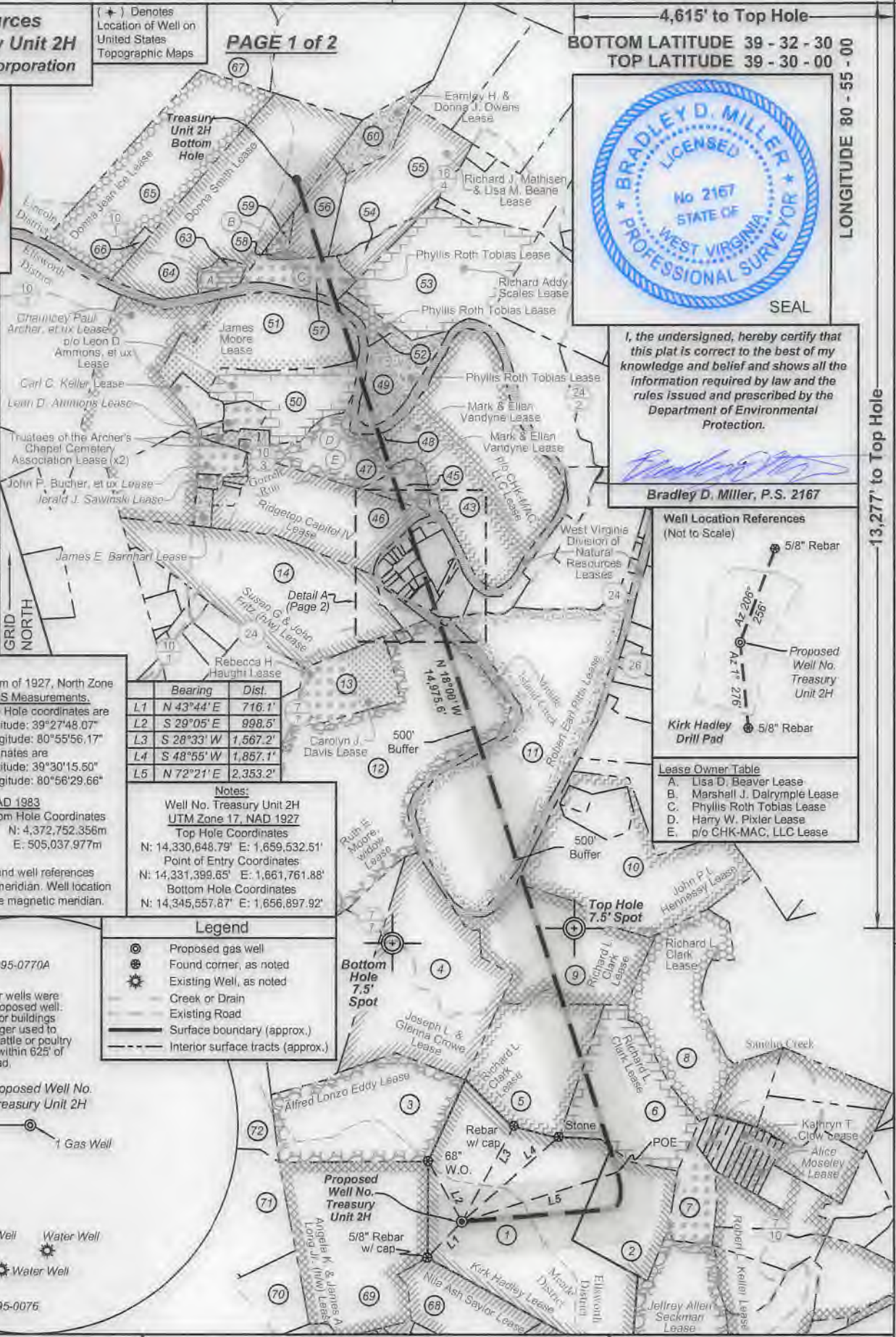
7,241' to Bottom Hole  
 4,615' to Top Hole  
**BOTTOM LATITUDE 39 - 32 - 30**  
**TOP LATITUDE 39 - 30 - 00**  
**LONGITUDE 80 - 55 - 00**



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**

- Wellhead Layout**  
 Detail Not to Scale
- Dierkes Unit 3H
  - Dierkes Unit 2H 47-095-02551
  - Dierkes Unit 1H 47-095-02550
  - Kirk Hadley Unit 2H
  - Kirk Hadley Unit 1H 47-095-02554
  - Proposed Treasury Unit 2H 47-095-02557
  - Treasury Unit 1H 47-095-02556
  - Weese Unit 2H 47-095-02553
  - Weese Unit 1H 47-095-02552
  - Houser Unit 3H
  - Houser Unit 2H 47-095-02555
  - Houser Unit 1H 47-095-02480
  - Kirk Hadley 8 47-095-02031



**Well Location References**  
 (Not to Scale)

**Lease Owner Table**

A.	Lisa D. Beaver Lease
B.	Marshall J. Dalrymple Lease
C.	Phyllis Roth Tobias Lease
D.	Harry W. Pixler Lease
E.	p/o CHK-MAC, LLC Lease

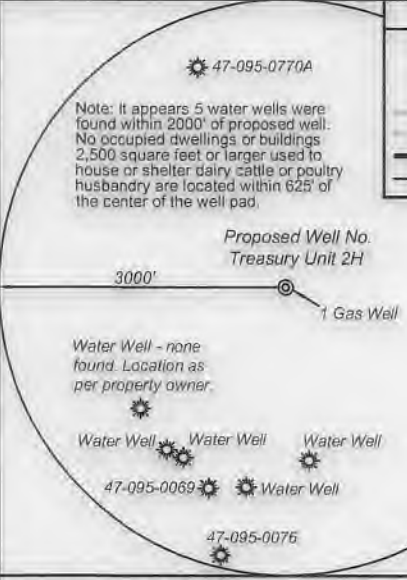
**Notes:**  
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
 Well No. Treasury Unit 2H Top Hole coordinates are N: 354,095.81' Latitude: 39°27'48.07" E: 1,595,636.23' Longitude: 80°55'56.17"  
 Bottom Hole coordinates are N: 369,051.94' Latitude: 39°30'15.50" E: 1,593,250.08' Longitude: 80°56'29.66"  
**UTM Zone 17, NAD 1983**  
 Top Hole Coordinates Bottom Hole Coordinates  
 N: 4,368,208.064m E: 505,840.9888m N: 4,372,752.356m E: 505,037.977m  
 Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

Bearing	Dist.
L1 N 43°44' E	716.1'
L2 S 29°05' E	998.5'
L3 S 28°33' W	1,567.2'
L4 S 48°55' W	1,857.1'
L5 N 72°21' E	2,353.2'

**Notes:**  
 Well No. Treasury Unit 2H  
**UTM Zone 17, NAD 1927**  
 Top Hole Coordinates  
 N: 14,330,648.79' E: 1,659,532.51'  
 Point of Entry Coordinates  
 N: 14,331,399.65' E: 1,661,761.88'  
 Bottom Hole Coordinates  
 N: 14,345,557.87' E: 1,656,897.92'

**Legend**

- Proposed gas well
- ⊕ Found corner, as noted
- ⊙ Existing Well, as noted
- Creek or Drain
- Existing Road
- Surface boundary (approx.)
- - - Interior surface tracts (approx.)



FILE NO: 101-54-E-18  
 DRAWING NO: Treasury 2H 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 14 20 19  
 OPERATOR'S WELL NO. Treasury Unit 2H  
 API WELL NO. **MoD**  
 47 - 095 - 02557  
 STATE COUNTY PERMIT

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

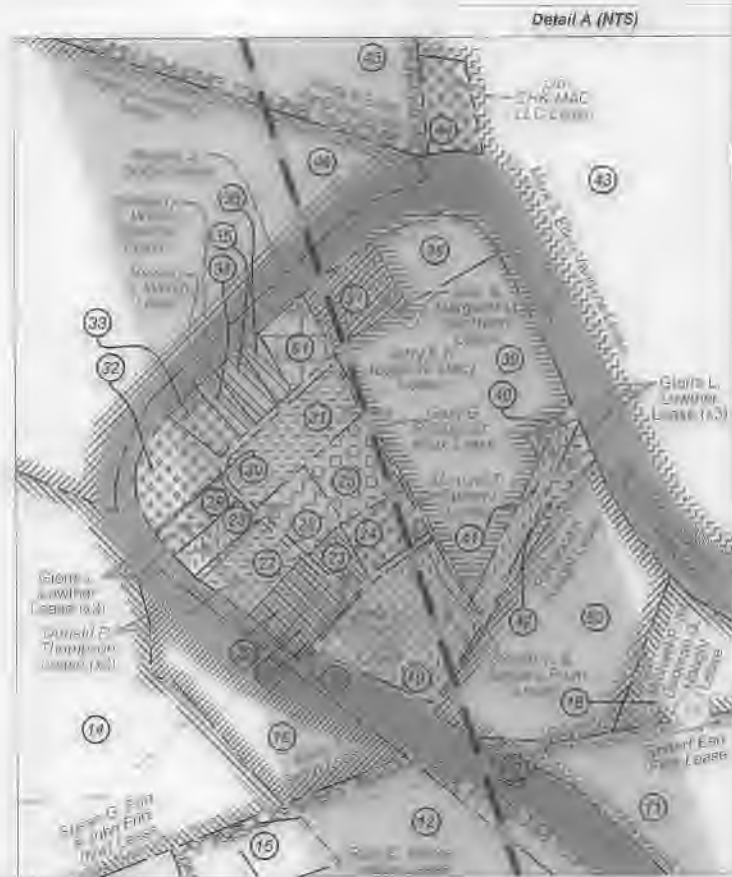
LOCATION: ELEVATION: As-Built 912' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne  
 DISTRICT: Meade, Ellsworth, Lincoln COUNTY: Tyler  
 SURFACE OWNER: Kirk L. Hadley ACREAGE: 162  
 ROYALTY OWNER: Kirk Hadley; Richard L. Clark(3); John P.L. Hennessy; Robert Earl Pitts; LEASE NO: ACREAGE: 0.60; 8.82;

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,300' 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

54	13-3-4	415/732	7.505	Justin L. & Jessica Carpenier	Elisworth District
53	13-5	393/473	78.06	Richard Adley Scales	
52	13-7	387/671	6.04	Robert D. & Sherry A. Ball	Elisworth District
51	13-8	WB43/425	58.98	Larry Moore & James Moore	
50	13-8-1	371/36	35.41	Leon B. & Deanna N. Ammons	Elisworth District
49	13-8	387/671	21.42	Robert D. & Sherry A. Ball	
48	19-4	388/250	1.20	Harry Wayne Pixler	Elisworth District
47	19-56	390/553	23.56	Mark L. & Ellen W. VanDyne	
46	19-33	308/18	60.12	Ridgetop Capital IV	Elisworth District
45	19-55	333/208	9.55	Mark & Ellen VanDyne	
44	19-5	471/812	0.89	Ruth A. McDonald	Elisworth District
43	20-1	210/37	126.90	Mark L. & Ellen W. VanDyne	
42	19-29	39/506	0.39	Gloria L. Lowther	Elisworth District
41	19-28	39/506	0.093	Gloria L. Lowther	
40	19-27	39/506	0.08	Gloria L. Lowther	Elisworth District
39	19-6	245/651	8.05	Jerry E. & Jessie K. Tracy	
38	19-7	337/653	0.77	Jerry E. & Jessie K. Tracy	Elisworth District
37	19-26	325/86	0.60	Jack & Margaret M. Hanthorn	
36	19-9	355/875	0.23	Kimberly L. Billings	Elisworth District
35	19-10	355/875	0.35	Kimberly L. Billings	
34	19-11	355/875	0.23	Kimberly L. Billings	Elisworth District
33	19-12	255/334	0.35	Beverly J. Welch	
32	19-13	255/334	0.80	Beverly J. Welch	Elisworth District
31	19-25.1	303/105	1.288	Gary G. Jr. & Debbie A. Phillips	
30	19-13.1	355/782	0.03	Gloria L. Lowther	Elisworth District
29	19-14	355/782	0.39	Gloria L. Lowther	
28	19-15	355/782	0.39	Gloria L. Lowther	Elisworth District
27	19-16	329/47	0.79	Donald R. Thompson	
26	19-25	329/47	1.241	Donald R. Thompson	Elisworth District
25	19-25.3	334/117	0.631	Keith & Barbara Frum	
24	19-25.2	334/117	0.631	Keith & Barbara Frum	Elisworth District
23	19-21	312/141	0.30	Jerry Michael & Anna Ariene Cooper	
22	19-17	312/141	0.51	Jerry Michael & Anna Ariene Cooper	Elisworth District
21	19-20	312/141	0.32	Jerry Michael & Anna Ariene Cooper	
20	19-18	312/141	0.06	Jerry Michael & Anna Ariene Cooper	Elisworth District
19	19-19	226/268	2.308	Keith V. & Barbara Frum	
18	20-34	344/268	7.75	Michael P. & Deborah G. Haught	Elisworth District
17	19-31	334/603	0.25	WV Department of Highways	
16	19-32	147/426	4.41	Mary J. Smith	Elisworth District
15	19-52.1	369/434	1.00	Hops Fellowship in Christ's Church	
14	19-34	318/636	95.60	Chauncy P. & Ruth Archer	Elisworth District
13	19-35	WB30/315	29.00	Rebecca Haught	
12	19-52	WB43/425	188.36	Larry Moore, et al	Elisworth District
11	20-35	161/375	140.00	Robert C. Sellers, et al	
10	20-99	247/7	74.231	John P. L. Hennessy	Elisworth District
9	20-97	314/699	66.84	Dennis J. & Connie S. Moore	
8	26-3	449/216	63.02	Dennis James Moore, et al	Elisworth District
7	26-9	404/352	28.021	JB Exploration I, LLC	
6	26-2	314/701	63.40	Larry G. & Besty E. Moore	Elisworth District
5	26-1	448/216	61.78	Dennis James Moore, et al	
4	19-54	WB36/738	100.00	Deborah Susan Reed	Elisworth District
3	25-2	333/188	75.00	Angela K. & James A. Long Jr.	
2	26-11	321/642	40.00	Kirk L. Hadley	Elisworth District
1	26-12	213/74	162.00	Kirk L. Hadley	
No.	TM - Par	Bk / Pg	Acres	Owner(s)	

72	2-15-1	333/188	23.70	Angela K. & James A. Long Jr.	Meade District
71	2-5	392/712	69.50	Robert L. & Nancy C. Donaghy, et al	
70	2-5-1	204/309	54.24	Donald R. & Shirley D. Fletcher	Meade District
69	2-15	333/188	100.00	Angela K. & James A. Long Jr.	
68	3-1-2	309/508	41.25	William Kent & Deborah Lee Snyder	Meade District
67	15-13	174/412	140.00	B.F., Ben H., & Ida M. Kile	
66	15-16.1	339/706	1.00	Richard G. Thomas	Lincoln District
65	15-16	WB30/1	81.67	Everett Glen Thomas	
64	15-17	191/112	127.39	Earl & Donna Smith	Lincoln District
63	15-17.1	327/758	6.35	Lisa D. Beaver	
62	19-30	WB30/315	5.40	Rebecca A. Haught	Elisworth District
61	19-8	357/127	0.60	Robert G. & Pamela R. Gorby	
60	13-3.1	350/388	13.919	Earnley H. & Donna J. Owens	Elisworth District
59	13-3.2	342/509	2.433	Marshal J. & Peggy S. Dairympole	
58	13-4	267/209	1.03	Marshal J. Dairympole	Elisworth District
57	13-3	387/671	8.62	Robert D. & Sherry A. Ball	
56	13-3.5	406/668	17.648	Lisa M. Beane	Elisworth District
55	13-3.3	349/563	70.509	Richard J. Mathisen	
No.	TM - Par	Bk / Pg	Acres	Owner(s)	



FILE NO: 101-54-E-18  
 DRAWING NO: Treasury 2H 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 14 20 19  
 OPERATOR'S WELL NO. Treasury Unit 2H  
 API WELL NO. MOD  
 47 095 02557  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION: ELEVATION: As-Built 912' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne  
 DISTRICT: Meade, Elisworth, Lincoln LEON D. AMMONS, et ux; JERRY E. & JESSIE K. TRACY; RICHARD J. MATHISEN & LISA M. BEANE; MARK & ELLEN VANDYNE(2); PHYLLIS ROSE TOBIAS(3); JACK & MARGARET M. HANTHORN; RUTH E. MOORE, WIDOW; REBECCA A. HAUGHT; MICHAEL T. FLUHARTY; ROBERT G. GORBY; JAMES MOORE; WEST VIRGINIA DIVISION OF NATURAL RESOURCES(3); DONNA SMITH; KEITH V. & BARBARA FRUM(2); HARRY W. PIXLER; GARY G. PHILLIPS, JR., et ux; RIDGETOP CAPITAL IV  
 COUNTY: Tyler  
 SURFACE OWNER: Kirk L. Hadley ACREAGE: 162  
 ROYALTY OWNER: Kirk Hadley, Richard L. Clark(3), John P. L. Hennessy, Robert Earl Pitts, LEASE NO: ACREAGE: 0.60; 8.82;  
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 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD 6,600' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,300' MD

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 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road  
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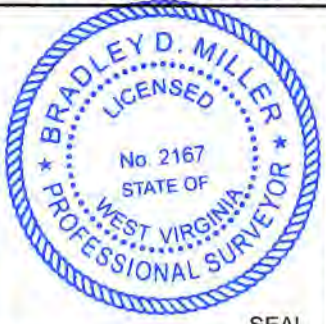
**PAGE 1 of 2**

7,241' to Bottom Hole

4,615' to Top Hole

**BOTTOM LATITUDE 39 - 32 - 30**  
**TOP LATITUDE 39 - 30 - 00**

LONGITUDE 80 - 55 - 00



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**

- Wellhead Layout**  
 Detail Not to Scale
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  - Dierkes Unit 2H 47-095-02551
  - Dierkes Unit 1H 47-095-02550
  - Kirk Hadley Unit 2H
  - Kirk Hadley Unit 1H 47-095-02554
  - Proposed Treasury Unit 2H 47-095-02557
  - Treasury Unit 1H 47-095-02556
  - Weese Unit 2H 47-095-02553
  - Weese Unit 1H 47-095-02552
  - Houser Unit 3H
  - Houser Unit 2H 47-095-02555
  - Houser Unit 1H 47-095-02480
  - Kirk Hadley 8 47-095-02031



**Well Location References**  
 (Not to Scale)



**Lease Owner Table**

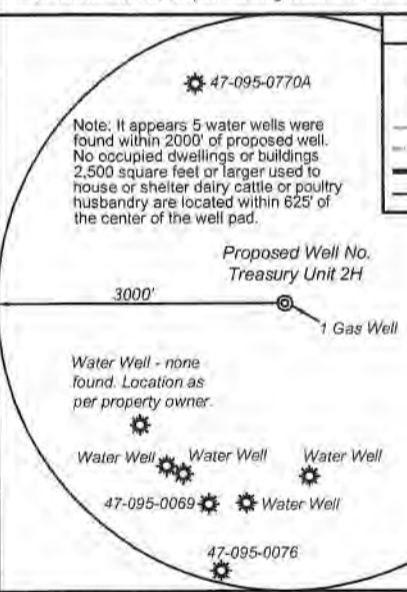
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B	Marshall J. Dalrymple Lease
C	Phyllis Roth Tobias Lease
D	Harry W. Pixler Lease
E	p/o CHK-MAC, LLC Lease

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**Legend**

- Proposed gas well
- ⊕ Found corner, as noted
- ⊙ Existing Well, as noted
- Creek or Drain
- Existing Road
- Surface boundary (approx.)
- - - Interior surface tracts (approx.)

RECEIVED  
 Office of Oil and Gas  
 JUN 18 2019

WV Department of Environmental Protection  
 Kathryn T. Clow Lease  
 Alice Mosley Lease  
 Robert L. Keller Lease  
 Jeffrey Allen Seckman Lease

FILE NO: 101-54-E-18  
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 SCALE: 1" = 2000'  
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**OIL AND GAS DIVISION**

DATE: June 14 20 19  
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 API WELL NO  
 47 - 095 - 02557  
 STATE COUNTY PERMIT

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 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

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 ROYALTY OWNER: Kirk Hadley; Richard L. Clark(3); John P.L. Hennessy; Robert Earl Pitts; LEASE NO: \_\_\_\_\_ ACREAGE: 0.60; 0.82;  
 PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD 6,600' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,300' MD

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 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road  
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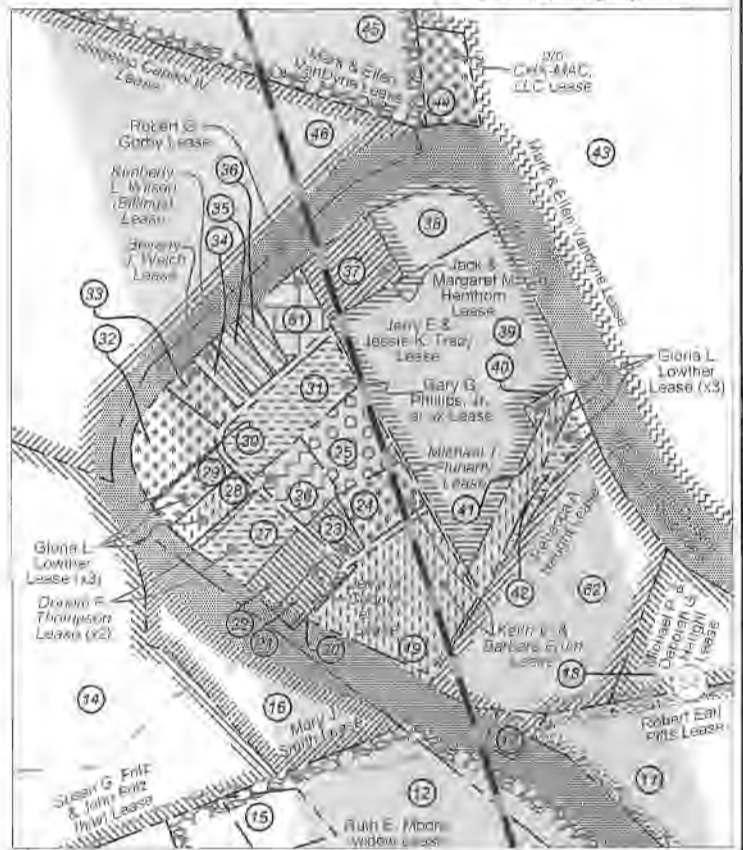
No.	TM - Par.	Bk / Pg	Acres	Owner(s)	District
54	13-3-4	415 / 733	7.605	Justin L. & Jessica Carpenter	Ellsworth District
53	13-5	393 / 473	78.00	Richard Addy Scales	
52	13-7	387 / 671	6.04	Robert D. & Sherry A. Ball	
51	13-8	WB43 / 425	56.98	Larry Moore & James Moore	Ellsworth District
50	13-8-1	371 / 38	35.11	Leon B. & Deanna N. Ammons	
49	13-6	387 / 671	21.42	Robert D. & Sherry A. Ball	
48	19-4	388 / 250	1.20	Harry Wayne Pixler	Ellsworth District
47	10-56	390 / 553	23.56	Mark L. & Ellen W. VanDyne	
46	19-33	308 / 18	60.72	Ridgeloop Capitol IV	
45	19-55	333 / 208	9.55	Mark & Ellen VanDyne	Ellsworth District
44	19-5	471 / 812	0.89	Ruth A. McDonald	
43	20-1	210 / 37	126.90	Mark L. & Ellen W. VanDyne	
42	19-29	39 / 506	0.39	Gloria L. Lowther	Ellsworth District
41	19-28	39 / 506	0.083	Gloria L. Lowther	
40	19-27	39 / 506	0.08	Gloria L. Lowther	
39	19-6	245 / 661	8.05	Jerry E. & Jessie K. Tracy	Ellsworth District
38	19-7	337 / 653	0.77	Jerry E. & Jessie K. Tracy	
37	19-26	326 / 86	0.60	Jack & Margaret M. Henthorn	
36	19-9	385 / 675	0.23	Kimberly L. Billings	Ellsworth District
35	19-10	355 / 675	0.35	Kimberly L. Billings	
34	19-11	355 / 675	0.23	Kimberly L. Billings	
33	19-12	265 / 334	0.36	Beverly J. Welch	Ellsworth District
32	19-13	265 / 334	0.80	Beverly J. Welch	
31	19-25.1	303 / 105	1.288	Gary G. Jr. & Debbie A. Phillips	
30	19-13.1	355 / 782	0.03	Gloria L. Lowther	Ellsworth District
29	19-14	355 / 782	0.39	Gloria L. Lowther	
28	19-15	355 / 782	0.39	Gloria L. Lowther	
27	19-16	329 / 47	0.79	Donald R. Thompson	Ellsworth District
26	19-25	329 / 47	1.241	Donald R. Thompson	
25	19-25.3	334 / 117	0.631	Keith & Barbara Frum	
24	19-25.2	334 / 117	0.631	Keith & Barbara Frum	Ellsworth District
23	19-21	312 / 141	0.30	Jerry Michael & Anna Arlene Cooper	
22	19-17	312 / 141	0.51	Jerry Michael & Anna Arlene Cooper	
21	19-20	312 / 141	0.22	Jerry Michael & Anna Arlene Cooper	Ellsworth District
20	19-18	312 / 141	0.06	Jerry Michael & Anna Arlene Cooper	
19	19-19	225 / 266	2.308	Keith V. & Barbara Frum	
18	20-34	344 / 268	7.75	Michael P. & Deborah G. Haught	Ellsworth District
17	19-31	334 / 603	0.25	WV Department of Highways	
16	19-32	147 / 426	4.41	Mary J. Smith	
15	19-52.1	369 / 434	1.00	Hope Fellowship in Christ's Church	Ellsworth District
14	19-34	318 / 636	95.60	Chauncy P. & Ruth Archer	
13	19-36	WB30 / 315	29.00	Rebecca Haught	
12	19-52	WB43 / 425	186.36	Larry Moore, et al	Ellsworth District
11	20-35	181 / 378	140.00	Robert G. Sellers, et al	
10	20-98	247 / 7	74.231	John R. L. Hennessy	
9	20-97	314 / 899	66.84	Dennis J. & Connie S. Moore	Ellsworth District
8	26-3	448 / 216	63.02	Dennis James Moore, et al	
7	26-9	404 / 352	28.021	JB Exploration I. LLC	
6	26-2	314 / 701	63.40	Larry G. & Besty E. Moore	Ellsworth District
5	26-1	448 / 216	61.78	Dennis James Moore, et al	
4	19-54	WB36 / 730	100.00	Deborah Susan Reed	
3	25-2	333 / 188	75.00	Angela K. & James A. Long Jr.	Ellsworth District
2	26-11	321 / 842	40.00	Kirk L. Hadley	
1	26-12	213 / 74	162.00	Kirk L. Hadley	
No.	TM - Par.	Bk / Pg	Acres	Owner(s)	

No.	TM - Par.	Bk / Pg	Acres	Owner(s)
72	2-15.1	333 / 188	23.70	Angela K. & James A. Long Jr.
71	2-5	382 / 712	69.50	Robert L. & Nancy C. Donaghy, et al
70	2-5.1	204 / 309	51.24	Donald R. & Shirley D. Fletcher
69	2-15	333 / 188	100.00	Angela K. & James A. Long Jr.
68	3-1.2	309 / 588	41.25	William Kent & Deborah Lee Snyder
67	15-13	174 / 412	140.00	B.F., Ben H., & Ida M. Kile
66	15-16.1	339 / 706	1.00	Richard G. Thomas
65	15-16	WB30 / 1	81.87	Everett Glen Thomas
64	15-17	191 / 12	137.89	Eari & Donna Smith
63	15-17.1	327 / 755	6.35	Lisa D. Beaver
62	19-30	WB30 / 315	5.40	Rebecca A. Haught
61	19-8	357 / 127	0.60	Robert G. & Pamela R. Gorby
60	13-3.1	350 / 388	13.919	Eamley H. & Donna J. Owens
59	13-3.2	342 / 509	2.433	Marshall J. & Peggy S. Dalrymple
58	13-4	267 / 209	1.03	Marshall J. Dalrymple
57	13-3	387 / 671	8.62	Robert D. & Sherry A. Ball
56	13-3.5	406 / 668	17.648	Lisa M. Beane
55	13-3.3	349 / 563	70.509	Richard J. Malisen
No.	TM - Par.	Bk / Pg	Acres	Owner(s)

RECEIVED  
Office of Oil and Gas

18 2019

WV Department of  
Environmental Protection



FILE NO: 101-54-E-18  
DRAWING NO: Treasury 2H 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 14 20 19  
OPERATOR'S WELL NO. Treasury Unit 2H  
API WELL NO  
47 - 095 - 02557  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: As-Built 912' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne  
DISTRICT: Meade, Ellsworth, Lincoln  
SURFACE OWNER: Kirk L. Hadley  
ROYALTY OWNER: Kirk Hadley; Richard L. Clark(3); John P.L. Hennessy; Robert Earl Pitts.  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,300' 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