

10,026' TO TOP HOLE

LATITUDE 39°22'30"

6,833' LATITUDE 39°22'30"

LONGITUDE 80°52'30"

LONGITUDE 80°52'30"

LONGITUDE 80°52'30"

LONGITUDE 80°52'30"

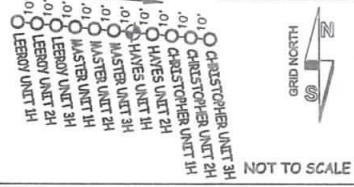
10,067' TO BOTTOM HOLE

### Antero Resources Corporation Well No. Hayes Unit 1H

**AS DRILLED DATA:**  
**WELL 1H TOP HOLE INFORMATION:**  
 N: 318,123ft E: 1,601,230ft  
 LAT: 39°21'53.43" LON: 80°54'37.65"  
**BOTTOM HOLE INFORMATION:**  
 N: 311,708ft E: 1,604,325ft  
 LAT: 39°20'50.50" LON: 80°53'56.98"  
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER 1H TOP MAPPING GRADE GPS UNIT. HOLE PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

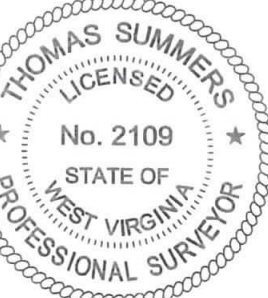
**(NAD) 83 (UTM) ZONE 17 COORDS:**  
**WELL 1H TOP HOLE INFORMATION:**  
 N: 4,357,277m E: 507,728m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,355,339m E: 508,704m

#### PAD LAYOUT



TM-Par	Surface Owner	Book/Pg	Acreage
04-09	Christin Haymond	346/484	111.48 AC
04-10	Perkins Oil & Gas Inc.	318/683	73.168 AC
04-10.2	Perkins Oil & Gas Inc.	316/760	19.772 AC
04-11.2	Tommy Richmond	305/287	1.56 AC
04-11.8	Henry Hiller	288/1069	8.776 AC
04-11.9	Thomas Smith	331/358	30.639 AC
04-13	Antero Resources Corp.	341/928	1.25 AC
04-13.1	Trustees Mountain Comm. Bldg.	124/569	1 AC
04-14	Jacob Cox	340/525	5.747 AC
04-15	Christopher Haymond	214/99	1.33 AC
04-27	Perkins Oil & Gas Inc.	308/653	29.589 AC
04-27.1	Perkins Oil & Gas Inc.	308/653	0.79 AC
04-29	Ralph Hayes	265/513	9.91 AC
04-30.1	James Lasater	219/107	60 AC
04-32	Gary Bishop	339/45	4.7 AC
04-35	Gary Bishop	339/43	24.256 AC
04-35.1	Lewis Jones	309/603	23.424 AC
04-36	William Shriver	185/415	21.4 AC
04-47	Shella Taylor	316/853	6.07 AC
04-47.1	William Shriver	185/415	8.5 AC
04-48	Susan Jones	287/276	42.05 AC
09-01	James Mahoney	277/668	147.83 AC
09-03	Matthew Washington	306/138	39.66 AC
09-04	Zacharia Kelley	312/915	33.80 AC
09-05	Susan Jones	287/276	29.19 AC
09-06	Richard Ridgway	312/65	18 AC
09-07	Susan Jones	287/276	24 AC
09-09	Jeanette Bean Et Al	221/577	51.41 AC
09-12	Jeanette Bean Et Al	174/450	16.33 AC
09-14	Jeanette Bean Et Al	174/450	75.55 AC
09-17	Rossiter Holmes	295/451	27.43 AC
09-19	Roger Scott	280/625	65 AC
09-20	Walter Smertycha	317/89	70.5 AC
09-21	Roy Robinson	175/817	36 AC
09-21.1	Roy Robinson	175/817	5.56 AC
09-28	Robert Langmeyer	312/911	129.32 AC
09-28.1	Robert Langmeyer	312/911	27.52 AC
09-32	W.V. Christian Youth Camp	178/198	87.75 AC

LINE	BEARING	DIST.
L1	N 44°29' W	1030.7'
L2	N 58°42' W	1467.2'
L3	S 38°14' W	908.2'
L4	S 14°39' W	747.3'
L5	S 04°35' W	1820.0'
L6	S 04°09' W	1253.8'
L7	N 74°14' E	1942.9'



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

JOB # 17-014WA  
 DRAWING # HAYES1HAD  
 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

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

THOMAS SUMMERS P.S. 2109

DATE 09/04/19

OPERATOR'S WELL# HAYES UNIT #1H

**NOTE**

- NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
- TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
- 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.

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  47 - 085 - 10365  
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 970' AS BUILT WATERSHED NORTH FORK HUGHES RIVER  
 QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE

SURFACE OWNER DANIEL M. HAYMOND IV ET AL ACREAGE 111.48 ACRES +/-  
 OIL & GAS ROYALTY OWNER THE IRENE NUTTER HAYMOND TRUST; PERKINS OIL & GAS; LEASE ACREAGE 375 AC±; 94.0 AC±;  
 CANDICE WINZELER NIGOLIAN; NORMAN FLEMING; L. S. TAGGART ET AL; 35.89 AC±; 49.5 AC±; 151 AC±;  
 CARL W. RIDGWAY ET UX; MICHAEL A. TOOTHMAN ET UX; 40 AC±; 34 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 PLUG & ABANDON CLEAN OUT & REPLUG

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,355' TVD 13,661' MD  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM  
 ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD  
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

COUNTY NAME PERMIT