

10,025' TO TOP HOLE

LATITUDE 39°22'30"

6,851'

LATITUDE 39°22'30"

LONGITUDE 80°52'30"

3,700'

LONGITUDE 80°52'30"

10,095' TO BOTTOM HOLE

Antero Resources Corporation
Well No. Hayes Unit 1H

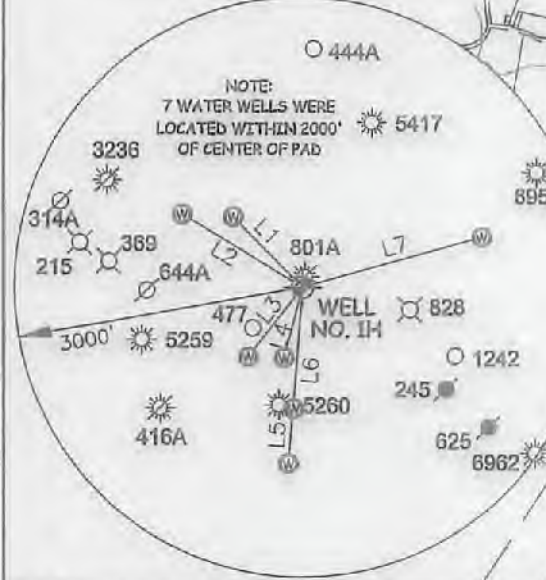
NOTES:
WELL 1H TOP HOLE INFORMATION:
N: 318,123ft E: 1,601,230ft
LAT: 39°21'53.43" N LON: 80°54'37.65" W
BOTTOM HOLE INFORMATION:
N: 311,680ft E: 1,604,306ft
LAT: 39°20'50.23" N LON: 80°53'57.21" W
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE 660XT 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: 4,355,330m E: 508,698m



WW NORTH ZONE GRID NORTH

TM-For	Surface Owner	Block/Pg	Acres
04-09	Christin Hayward	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	308/287	1.56 AC
04-11.8	Henry Hiller	288/1069	8,776 AC
04-11.9	Thomas Smith	331/858	30,639 AC
04-13	Antero Resources Corp.	341/928	1.25 AC
04-13.1	Trusted Mountain Coal, LLC	124/559	1 AC
04-14	Jacob Cox	340/525	3,747 AC
04-15	Christopher Hayward	214/99	1.83 AC
04-27	Perkins Oil & Gas Inc.	304/653	29,589 AC
04-27.1	Perkins Oil & Gas Inc.	308/653	0.79 AC
04-29	Ralph Hayes	265/913	9.91 AC
04-30.1	James Lanter	219/107	6.0 AC
04-32	Gary Bishop	339/45	4.7 AC
04-35	Gary Bishop	339/43	34,286 AC
04-35.1	Leola Jones	309/693	23.4 AC
04-36	William Shiriver	185/415	21.4 AC
04-47	Shella Taylor	316/853	6.07 AC
04-47.1	William Shiriver	185/415	8.5 AC
04-48	Suton Jones	287/276	42.05 AC
09-01	James Mahoney	277/668	17.83 AC
09-03	Matthew Washington	306/138	39.66 AC
09-04	Zacharia Kelley	312/913	33.50 AC
09-05	Suton Jones	287/276	29.19 AC
09-06	Richard Ridgway	312/65	18 AC
09-07	Suton 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	Russell Holmes	293/451	27.43 AC
09-19	Roger Scott	230/625	65 AC
09-20	Walter Smartychin	317/89	70.5 AC
09-21	Ray Robinson	175/817	36 AC
09-21.1	Ray Robinson	175/817	0.55 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	67.75 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°36' W	1820.0'
L6	S 04°09' W	1253.8'
L7	N 74°14' E	1942.9'

Royalty Owner
A The Irene Nutter Haymond Trust
B Gary R. David Et Ux
C Candice Winzeler Nigolian
D Perkins Oil & Gas
E Charles Eugene Allmon Et Ux
F Wilson Hoskins Et Ux
G Anette P. Deisford
H Norman Fleming
I L. S. Taggart Et Al
J Charlene Cottrill Et Ux
K Carl W. Ridgway Et Ux
L Michael A. Toothman Et Ux
M Charles Eugene Allmon Et Ux
N Gene P. Bond
O Frederick Handrury
P Orlean Fiddell Rowd Et Al

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

(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 14,294,787ft E: 1,665,724ft
POINT OF ENTRY INFORMATION:
N: 14,294,970ft E: 1,666,544ft
BOTTOM HOLE INFORMATION:
N: 14,298,398ft E: 1,668,906ft

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.



JOB # 17-014WA	LEGEND	REFERENCES
DRAWING # HAYES1HR	Surface Owner Boundary Lines +/-	STAKE/MAIL, SET
SCALE 1" = 2000'	Interior Surface Tracts +/-	
MINIMUM DEGREE OF ACCURACY SUBMETER	Existing Fence	
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS	Found monument, as noted	
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS	<i>Thomas Summers</i>	
	THOMAS SUMMERS P.S. 2109	
	DATE 07/18/18	
	OPERATOR'S WELL# HAYES UNIT 1H	
WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 085 10365		
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X STATE COUNTY PERMIT		
LOCATION: ELEVATION 870' 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±; 48.5 AC±; 151 AC±;		
CARL W. RIDGWAY ET UX; MICHAEL A. TOOTHMAN ET UX; 40 AC±; 34 AC±;		
PROPOSED WORK: DRILL CONVERT DRILL DEEPER X REDRILL FRACTURE OR STIMULATE X		
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL		
(SPECIFY) MOD-BHL PLUG & ABANDON CLEAN OUT & REPLUG		
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,800' TVD 15,100' MD		
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM		
ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD		
DENVER, CO 80202 CHARLESTON, WV 25313		

COUNTY NAME PERMIT