

LATITUDE 39°20'00"

2,976'

6,933' TO BOTTOM HOLE
LATITUDE 39°22'30"

LONGITUDE 80°50'00"

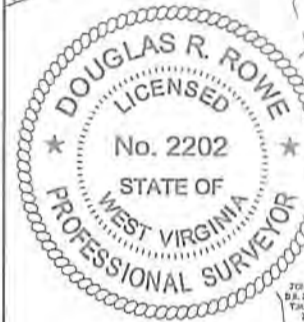
11,310'

13,067' TO BOTTOM HOLE

LONGITUDE 80°50'00"

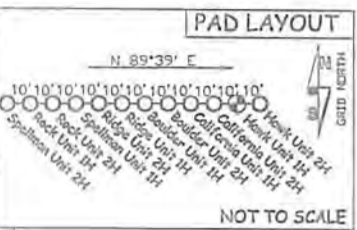
Antero Resources Corporation
Well No. Hawk Unit 1H
47-017-06792

WV NORTH ZONE
GRID NORTH



AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 295,052ft E: 1,619,720ft
LAT: 39°18'08.22" LON: 80°50'37.85"
BOTTOM HOLE INFORMATION:
N: 308,529ft E: 1,615,963ft
LAT: 39°20'20.85" LON: 80°50'12.21"
WEST VIRGINIA COORDINATE
SYSTEM OF 1927 NORTH ZONE.
ZONE WAS DERIVED FROM
MEASUREMENTS TAKEN WITH
TRIMBLE GEOXT 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 1H TOP HOLE INFORMATION:
N: 4,350,343m E: 513,479m
BOTTOM HOLE INFORMATION:
N: 4,354,429m E: 512,265m



- NOTE
- 1. 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.
- 2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLEGHENY SURVEYS, INC.
- 3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
- 4. 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.
- 5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.



JOB # 16-059WA
DRAWING # HAWK1HAD
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

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1,135.5' AS BUILT

QUADRANGLE WEST UNION 7.5 DISTRICT CENTRAL COUNTY DODDRIDGE
SURFACE OWNER JEFFREY K. JONES SR. ET AL ACREAGE 77.32 ACRES +/-
OIL & GAS ROYALTY OWNER DONALD L. PIGGOTT; NELL ALLEN; MARY MAXINE WELCH; LEASE ACREAGE 81 AC±; 178 AC±; 95 AC±;
SHIRLEY LOHR; BETTY COTTRILL; CHARLOTTE LOWE; MARY M. WELCH; HULL MILLER; J.A. EXLINE ET UX; 30.38 AC±; 24.5 AC±; 24.5 AC±; 29.08 AC±; 53.8 AC±; 60 AC±;
KATERINE MONTGOMERY; NATHAN CAIN ET AL; INA MONTGOMERY; N.M. WELCH HEIRS 26.13 AC±; 278 AC±; 142.25 AC±; 95 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 6,607' TVD 21,040' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
DENVER, CO 80202 CHARLESTON, WV 25313

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 07/17/18
OPERATOR'S WELL# HAWK UNIT 1H

API WELL # 47 - 017 - 06792
STATE COUNTY PERMIT
COUNTY NAME PERMIT

12/21/2018