

LATITUDE 39°20'00"

8,727'

66' TO BOTTOM HOLE
LATITUDE 39°22'30"

LONGITUDE 80°57'30"

6,378'

LONGITUDE 80°55'00"

2H BOTTOM HOLE

COUNTY NAME PERMIT

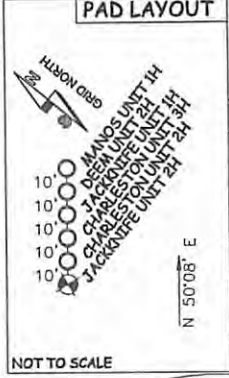
Antero Resources Corporation
Well No. Jackknife Unit 2H
A.P.I. 47-085-10179

A - JEFFREY A. HURST ET AL. D.B. 309 PG. 1081 T.J. 14 PAR. 10.3 1.7 AC.±
B - REGINA A. WAINSTREET D.B. 305 PAR. 207 T.J. 14 PAR. 10.2 0.576 AC.±
C - JEFFREY A. HURST ET AL. W.B. 59 PAR. 917 T.J. 14 PAR. 10.1 2.38 AC.±
D - JAMES F. WILLIAMSON ET AL. D.B. 262 PAR. 312 T.J. 14 PAR. 11.3 1 AC.±
E - JAMES F. WILLIAMSON ET AL. D.B. 262 PAR. 310 T.J. 14 PAR. 11.2 0.823 AC.±
F - JAMES F. WILLIAMSON ET AL. D.B. 265 PAR. 316 T.J. 14 PAR. 11.4 0.91 AC.±
G - FRED L. FREELAND ET AL. D.B. 179 PG. 726 T.J. 14 PAR. 11.5 0.76 AC.±
H - KENNETH L. CUNNINGHAM ET AL. D.B. 216 PAR. 353 T.J. 14 PAR. 11.1 0.89 AC.±
I - FLOYD T. BUTCHER III D.B. 234 PAR. 1 T.J. 14 PAR. 11.2 0.44 AC.±
J - FLOYD T. BUTCHER III D.B. 234 PAR. 1 T.J. 14 PAR. 11.7 1.16 AC.±
K - FAY JONES D.B. 223 PG. 369 T.J. 14 PAR. 11.6 1.24 AC.±
L - DANIEL A. SHUMAN ET AL. D.B. 296 PG. 331 T.J. 14 PAR. 11.9 1.77 AC.±
M - CHRISTOPHER B. SHAFER ET AL. D.B. 312 PG. 817 T.J. 14 PAR. 11.1 1.60 AC.±

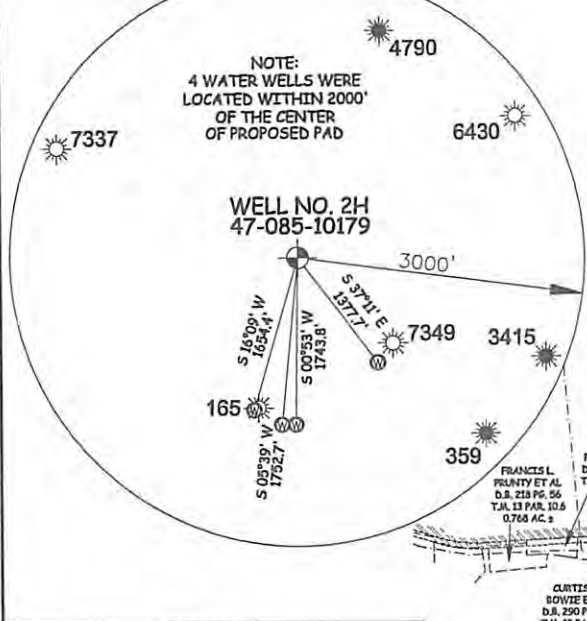
NOTES:
WELL 2H TOP HOLE INFORMATION:
N: 300,439ft E: 1,590,468ft
LAT: 39°18'56.97" LON: 80°56'51.04"
BOTTOM HOLE INFORMATION:
N: 309,907ft E: 1,587,493ft
LAT: 39°20'30.06" LON: 80°57'30.84"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT 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 2H TOP HOLE INFORMATION:
N: 4,351,835m E: 504,540m
BOTTOM HOLE INFORMATION:
N: 4,354,704m E: 503,585m

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.



NOT TO SCALE



LEGEND
- - - - - Surface Owner Boundary Lines +/-
- - - - - Interior Surface Tracts +/-
⊕ Found monument, as noted
○ Proposed Well Path
⊗ As Drilled Well Path

DATE 12/22/16
OPERATOR'S WELL# JACKKNIFE UNIT #2H

JOB # 14-008WA
DRAWING # JACKKNIFE2HAD
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WILLOW LAND SURVEYING PLLC
P.O. BOX 17 PENNSBORO WEST VIRGINIA 26415

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 1,127' AS BUILT WATERSHED NORTH FORK HUGHES RIVER

QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY CLAY
SURFACE OWNER STEPHEN C. JACKSON ET AL ACREAGE 40.835 ACRES +/-
OIL & GAS ROYALTY OWNER HARVEY WEIGLE HEIRS; STEVE JACKSON; LEASE ACREAGE 51 ACRES±; 117 ACRES±;
W.J. COLLINS ET UX; CLIFF WILSON ET UX; MARY MAXINE WELCH; HAROLD JEWELL; WILLIAM DAVIS HEWITT 575 ACRES±; 413 ACRES±; 76.43 ACRES±; 26.5 ACRES±; 20 ACRES±;
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
OTHER PHYSICAL CHANGE IN WELL (SPECIFY) (X) AS DRILLED
PLUG & ABANDON CLEAN OUT & REPLUG ESTIMATED DEPTH 6,423' TVD 16,484' MD
TARGET FORMATION MARCELLUS DIANNA STAMPER
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CT CORPORATION SYSTEM
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
DENVER, CO 80202 CHARLESTON, WV 25313

05/20/2017