

LATITUDE 39°27'30"

8,260'

5,031' TO BOTTOM HOLE
LATITUDE 39°25'00"

LONGITUDE 80°50'00"

7,300' TO BOTTOM HOLE

9,583'

LONGITUDE 80°50'00"

RAYMOND UNDERWOOD
W.B. 28 PG. 70
T.M. 04 PAR. 12
76.5 AC. ±

Antero Resources Corporation
Well No. Johnston Unit 1H
A.P.I. #47-095-02307

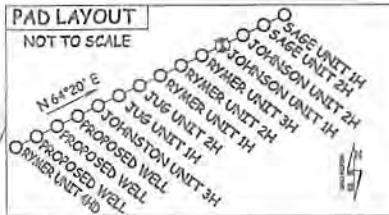
RAYMOND V. UNDERWOOD
ET UX LEASE
RAYMOND UNDERWOOD
D.B. 114 PG. 272
T.M. 04 PAR. 13
96 AC. ±

NOTES:
WELL 1H TOP HOLE INFORMATION:
N: 342,381ft E: 1,615,138ft
LAT: 39°25'55.29" LON: 80°51'45.28"
BOTTOM HOLE INFORMATION:
N: 329,441ft E: 1,618,175ft
LAT: 39°23'47.85" LON: 80°51'04.09"
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: 4,364,738m E: 511,842m
BOTTOM HOLE INFORMATION:
N: 4,360,812m E: 512,833m

A = LOREN E. BAGLEY D.B. 349 PG. 284 T.M. 8 PAR. 3.1
B = LOREN E. BAGLEY D.B. 349 PG. 284 T.M. 8 PAR. 3.2
C = ARLIT ARBOGAST D.B. 376 PG. 826 T.M. 8 PAR. 3.3
D = DAVID D. CHIPPS D.B. 250 PG. 682 T.M. 8 PAR. 3.5

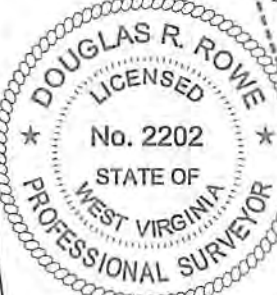
PAD LAYOUT
NOT TO SCALE



WV CONSERVATION COMMISSION
D.B. 155 PG. 303
T.M. 03 PAR. 22
111.41 AC. ±

JAMES L. HOWARD
ET AL
D.B. 297 PG. 95
T.M. 08 PAR. 10
68.31 AC. ±

RECEIVED
Office of Oil and Gas
OCT 30 2017
WV Department of Environmental Protection



NOTE:
1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR UNDER USED TO HOUSE OR SHELTER DAIRY CATTLE OR FOLIAGE HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
2. TOP HOLE DATA SHOWN HEREIN 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.

NOTE:
4 WATER WELLS AND 1 SPRING WERE LOCATED WITHIN 2000' OF CENTER OF PAD



47 - 095 - 02307
STATE COUNTY PERMIT

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 # 15-034WA
DRAWING # JOHNSTON1HAD
SCALE 1" = 1000'
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
DOUGLAS R. ROWE P.S. 2202
DATE 09/28/17
OPERATOR'S WELL# JOHNSTON UNIT #1H

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1,017' AS DRILLED WATERSHED HEADWATERS MIDDLE ISLAND CREEK
QUADRANGLE SHIRLEY 7.5' DISTRICT CENTERVILLE COUNTY TYLER
SURFACE OWNER RAYMOND UNDERWOOD ACREAGE 96 ACRES +/-
OIL & GAS ROYALTY OWNER RAYMOND V. UNDERWOOD ET UX; WVDNR;
FOREST E. LEASEBURG ET UX; HELEN L. OSBORNE; RITA J. HITCHCOCK; RONALD ASH ET UX; CARL W. ASH ET UX;
RICHARD DEULLY ET UX; WVDNR; PAUL CLELLAND; DENNIS SPENCER JR.
LEASE ACREAGE 96 ACRES±; 244.25 ACRES±; 78 ACRES±; 168.75 ACRES±; 50 ACRES±; 72 ACRES±; 88 ACRES±;
113 ACRES±; 4.7 ACRES±; 156 ACRES±; 221 ACRES±

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 6,540' TVD 20,246' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

02/16/2018

COUNTY NAME PERMIT