

LATITUDE 39°27'30"

8,314'

5,769' TO BOTTOM HOLE

LATITUDE 39°25'00"

LONGITUDE 80°50'00"

9,610'

LONGITUDE 80°50'00"

Antero Resources Corporation
Well No. Johnston Unit 3H
47-095-02308

WILLIE R. LESTER
D.B. 326 PG. 402
T.M. 04 PAR. 07
97.75 AC. ±

ROBERT L. RIPLEY ET AL
D.B. 327 PG. 77
T.M. 04 PAR. 06.2
18.75 AC. ±

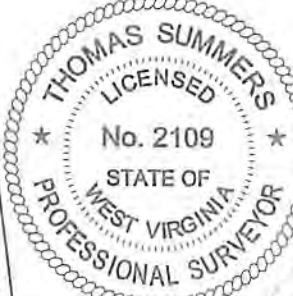
RAYMOND UNDERWOOD
W.B. 28 PG. 70
T.M. 04 PAR. 12
76.5 AC. ±

3H BOTTOM HOLE

AS DRILLED DATA:
WELL 3H TOP HOLE INFORMATION:
N: 342,355ft E: 1,615,084ft
LAT: 39°25'55.02" LON: 80°51'45.96"
BOTTOM HOLE INFORMATION:
N: 335,494ft E: 1,617,527ft
LAT: 39°24'47.59" LON: 80°51'13.51"
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 3H TOP HOLE INFORMATION:
N: 4,364,730m E: 511,825m
BOTTOM HOLE INFORMATION:
N: 4,362,653m E: 512,605m

WV NORTH ZONE
GRID NORTH



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 FOLIAGE PERMANENTLY ARE LOCATED WITHIN ONE HUNDRED TWENTY-FIVE (125) FEET OF THE CENTER OF THE WELL PAD.
2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLEGHENY SURVEYS, INC.
3. AS COLLECTED 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 INCONGRUITIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

W.V.D.N.R. LEASE

STATE OF WV DNR
D.B. 156 PG. 54
T.M. 04 PAR. 14
244.25 AC. ±

ROBERT JOHNSTON
D.B. 207 PG. 47
T.M. 08 PAR. 2.1
3.5 AC. ±

FORREST E. LEASEBURG ET UX LEASE

WILLIAM LEASEBURG ET UX
D.B. 408 PG. 210
T.M. 08 PAR. 02
77.25 AC. ±

EDNA MONROE
D.B. 407 PG. 528
T.M. 08 PAR. 3.4
37.51 AC. ±

ROBERT JOHNSTON
D.B. 322 PG. 371
T.M. 08 PAR. 09
68.31 AC. ±

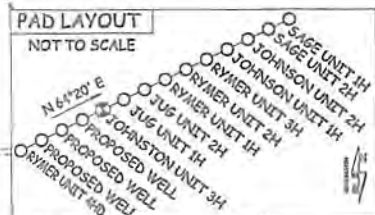
STONE FOUND

JOHN GRAFF ET UX LEASE

W.V. CONSERVATION COMMISSION
D.B. 156 PG. 353
T.M. 08 PAR. 22
111.41 AC. ±



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



CLINTON J. LANTZ ET AL
D.B. 420 PG. 124
T.M. 08 PAR. 07
71.19 AC. ±

ROBERT LEASURE ET UX
D.B. 222 PG. 191
T.M. 08 PAR. 08
59 AC. ±

ROBERT JOHNSTON
D.B. 322 PG. 371
T.M. 08 PAR. 9.2
33.51 AC. ±

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

MARY LOU WELLS
D.B. 334 PG. 526
T.M. 08 PAR. 8.1
84.25 AC. ±

ROBERT JOHNSTON
D.B. 184 PG. 443
T.M. 08 PAR. 15
74.452 AC. ±

LILLIE H. MAPLE ET AL LEASE

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 # JOHNSTON3HAD
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
Thomas Summers
THOMAS SUMMERS P.S. 2109
DATE 09/28/17
OPERATOR'S WELL# JOHNSTON UNIT 3H

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 3.3
C = ARBIT ARBOGAST D.B. 376 PG. 826 T.M. 8 PAR 3.2
D = DAVID D. CHIPPS D.B. 290 PG. 692 T.M. 8 PAR 3.5

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 - 095 - 02308
(IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW STATE COUNTY PERMIT
LOCATION: ELEVATION 1,017' AS BUILT 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; W.V.D.N.R.; EATHEL JOHNSTON; LILLIE H. MAPLE ET AL LEASE ACREAGE 96 ACRES±; 244.25 ACRES±; 108 ACRES±; 341 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
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,556' TVD 13,993' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

02/16/2018