

LATITUDE 39°15'00"

5,913'

LATITUDE 39°15'00"

LONGITUDE 80°35'00"

14,365'

LONGITUDE 80°35'00"

Antero Resources Corporation
Well No. Lettie Unit 1H
47-017-06422 (AS DRILLED)

PAD LAYOUT

NOT TO SCALE

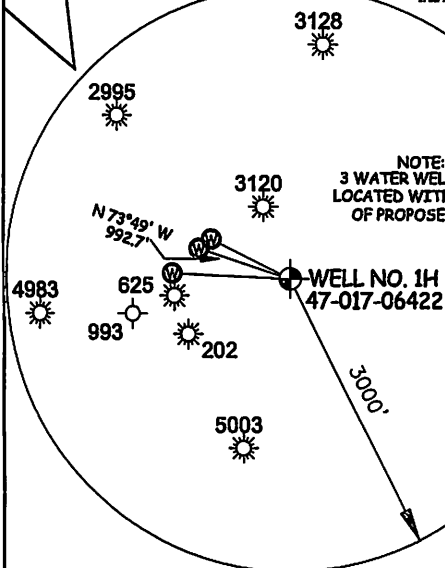
- 10' DOWNS UNIT 1H
- 10' DOWNS UNIT 2H
- 10' MASON UNIT 2H
- 10' LETTIE UNIT 2H
- 10' MASON UNIT 1H
- 10' MCGUIRE UNIT 2H
- 10' BOLTE UNIT 1H
- 10' BOLTE UNIT 2H
- 10' MCGUIRE UNIT 1H



AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 260,724ft E: 1,687,121ft
LAT: 39°12'38.02" LON: 80°36'15.13"
BOTTOM HOLE INFORMATION:
N: 270,665ft E: 1,682,992ft
LAT: 39°14'15.77" LON: 80°37'09.16"
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: 4,340,228m E: 534,187m
BOTTOM HOLE INFORMATION:
N: 4,343,235m E: 532,878m

WV NORTH ZONE GRID NORTH



NOTE:
3 WATER WELLS WERE LOCATED WITHIN 2000' OF PROPOSED WELL

LEGEND

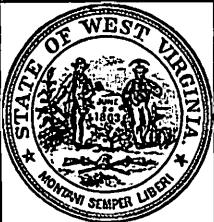
- Surface Owner Boundary Lines +/-
- Interior Surface Tracts +/-
- Existing Fence
- Found monument, as noted
- Proposed Well Path
- As Drilled Well Path

DATE 05/13/15

OPERATOR'S WELL# LETTIE UNIT #1H

API WELL # 47 - 017 - 06422

STATE COUNTY PERMIT



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 # 13-087WA

DRAWING # LETTIE1HAD

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

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1,283' ORIGINAL - 1,270' AS DRILLED WATERSHED HEADWATERS MIDDLE ISLAND CREEK
QUADRANGLE BIG ISSAC 7.5' DISTRICT GREENBRIER COUNTY DODDRIDGE

SURFACE OWNER JUNIOR PERINE
OIL & GAS ROYALTY OWNER RECALL BARNETT ET AL.; E. MAY SUMMERS; E. MAY SUMMERS; MARY WELCH;
DAVID M. BELL ET UX; HARRIET A. CRABBE; ANNA S. LAYMAN; DENVER JACK CORK; J.J. ADAMS; DENNIS FOREMAN; HARRY H. MEEK JR. ET AL.; HARRY H. MEEK JR. ET AL.

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 7,325' TVD 18,308' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

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

RECEIVED
Office of Oil and Gas
07/24/2015
JUL 26 2015
Department of Environmental Protection