

LATITUDE 39°27'30"

8,198'

8,654' TO BOTTOM HOLE

LATITUDE 39°27'30"

LONGITUDE 80°52'30"

12,083'

LONGITUDE 80°52'30"

Antero Resources Corporation Well No. San Juan Unit 4H

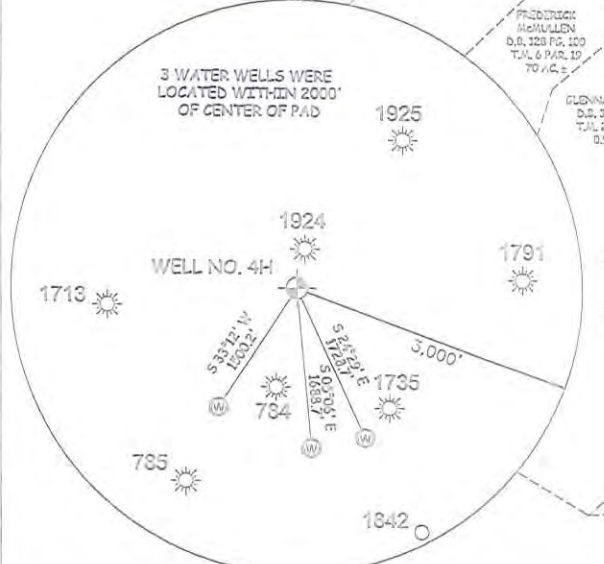
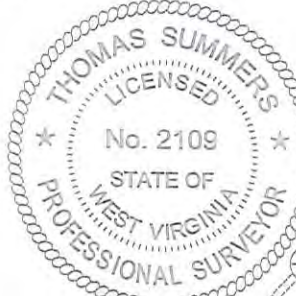
- NO OCCUPIED DWELLINGS OR BUILDINGS THIRTY THOUSAND FIVE HUNDRED (32,000) SQUARE FEET OR LARGER USED TO HOUSE OR SHEDDERS DAIRY CATTLE OR POULTRY (EXCLUDING AND LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
- TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLEN GUY SURVEYING, 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.

AS DRILLED DATA:
 WELL 4H TOP HOLE INFORMATION:
 N: 340,082ft E: 1,603,394ft
 LAT: 39°25'30.78" LON: 80°54'14.48"
 BOTTOM HOLE INFORMATION:
 N: 349,215ft E: 1,603,078ft
 LAT: 39°27'00.99" LON: 80°54'20.32"
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH 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 4H TOP HOLE INFORMATION:
 N: 4,363,978m E: 508,276m
 BOTTOM HOLE INFORMATION:
 N: 4,366,759m E: 508,133m

04/05/2019

WV NORTH ZONE GRID NORTH

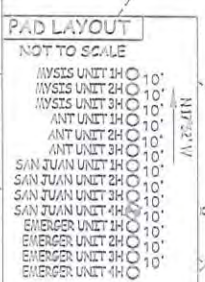


I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



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 # 16-042WA
 DRAWING # SAN JUAN-MHAD
 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
 (Symbol) As Drilled Well Path

THOMAS SUMMERS P.S. 2109
 DATE 10/12/18
 OPERATOR'S WELL# SAN JUAN UNIT #4H

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 - 095 - 02383
 (IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW STATE COUNTY PERMIT
 LOCATION: ELEVATION 1,148.1' AS BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK
 QUADRANGLE MIDDLEBOURNE 7.5' DISTRICT CENTERVILLE COUNTY TYLER
 SURFACE OWNER VERA O. THOMAS ACREAGE 51.11 ACRES +/-
 OIL & GAS ROYALTY OWNER NORMAN H. THOMAS ET UX; PEGGY E. WIND; PATRICIA A. RAGER; CATHY JO ASH; MELVIN WILEY ET UX; LARRY D. WILLEY LEASE ACREAGE 125 AC +/- 70.71 AC +/- 30.50 AC +/- 30 AC +/- 370 AC +/- 03 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 6,552' TVD 16,133' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
 ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD
 DENVER, CO 80202 CHARLESTON, WV 25313