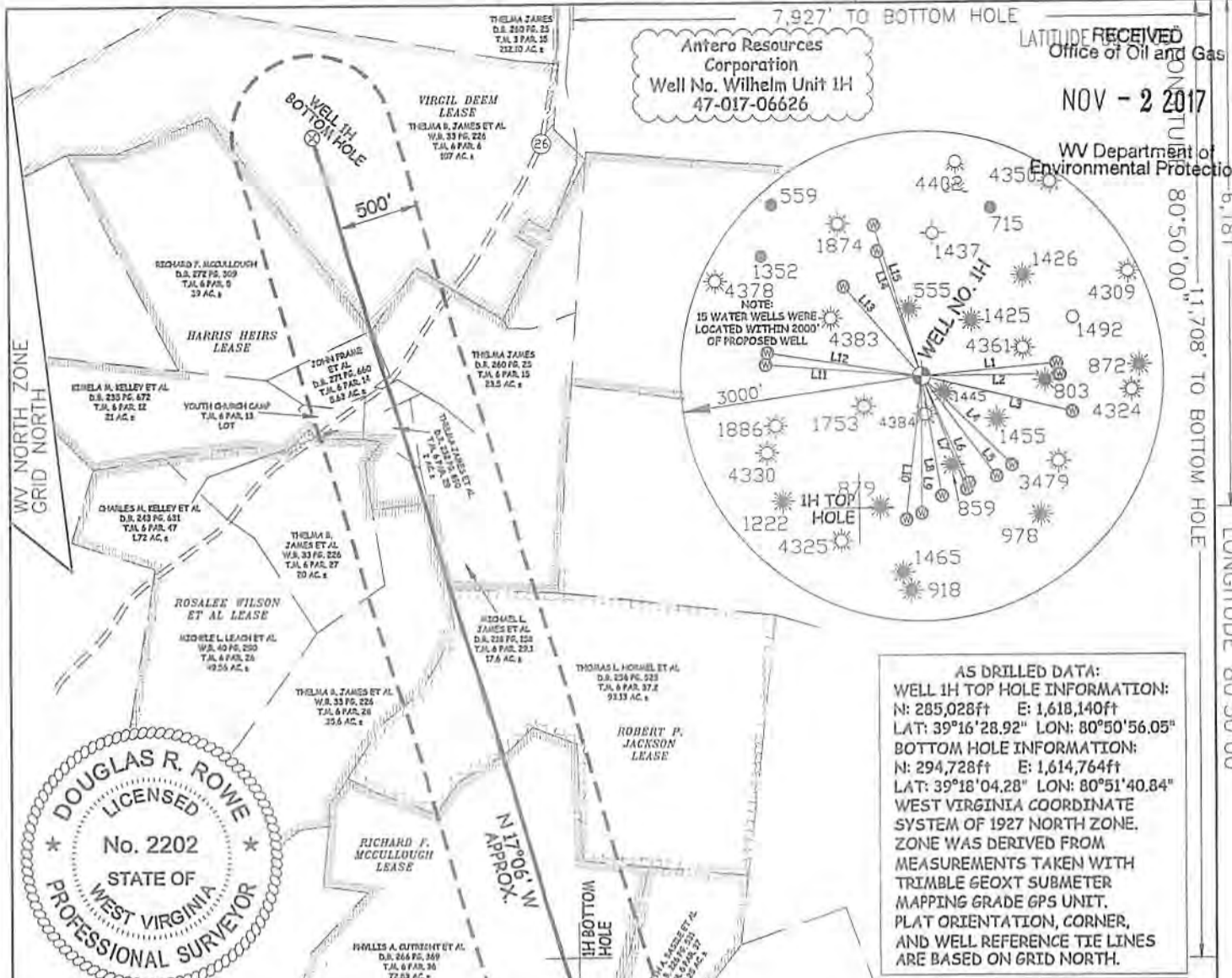


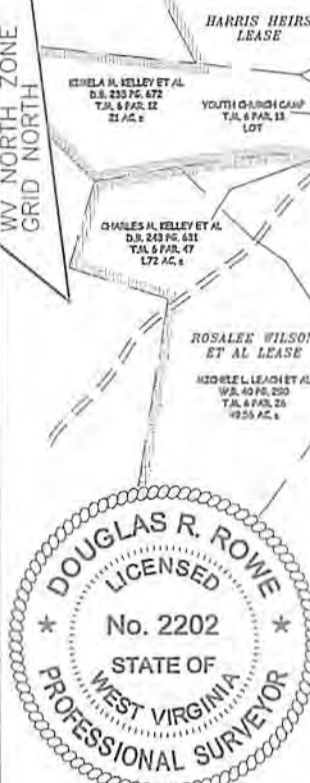
LATITUDE 39°17'30"

4,407'



Antero Resources Corporation
Well No. Wilhelm Unit 1H
47-017-06626

RECEIVED
Office of Oil and Gas
NOV - 2 2017
WV Department of Environmental Protection



AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 285,028ft E: 1,618,140ft
LAT: 39°16'28.92" LON: 80°50'56.05"
BOTTOM HOLE INFORMATION:
N: 294,728ft E: 1,614,764ft
LAT: 39°18'04.28" LON: 80°51'40.84"
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 1H TOP HOLE INFORMATION:
N: 4,347,281m E: 513,048m
BOTTOM HOLE INFORMATION:
N: 4,350,219m E: 511,970m

JOB # 12-103WA
DRAWING # WILHELM1HAD
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND
- - - Surface Owner Boundary Lines +/-
- - - Interior Surface Tracts +/-
- - - Proposed Well Path
- - - As Drilled Well Path

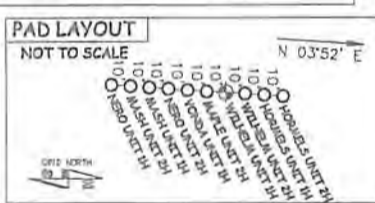
DOUGLAS R. ROWE P.S. 2202
DATE 10/17/17
OPERATOR'S WELL # WILHELM UNIT #1H
API WELL # 47 - 017 - 06626
STATE COUNTY PERMIT

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

STATE OF WEST VIRGINIA DEPT. OF ENERGY DIVISION OF OIL AND GAS
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1,165' WATERSHED HEADWATERS MIDDLE ISLAND CREEK
QUADRANGLE WEST UNION 7.5' DISTRICT CENTRAL COUNTY DODDRIE
SURFACE OWNER MARY F. BROWN ACREAGE 49.43 ACRES +/-
OIL & GAS ROYALTY OWNER MARY F. BROWN; PATRICK A. WRIGHT; WYSLA; THE STATE OF WEST VIRGINIA DEPT. OF MILITARY AFFAIRS, REGIONAL JAIL AND CORRECTIONAL FACILITY AUTHORITY; THELMA PRIMM ET AL; KEY OIL COMPANY; RICHARD F. MCCULLOUGH; ROBERT P. JACKSON; ROSALEE WILSON ET AL; HARRIS HEIRS; VIRGIL DEEM 78.04 AC.; 17 AC.; 72.83 AC.; 94 AC.; 100 AC.; 187 AC.; 107 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
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,612' TVD 16,831' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1615 WYNKOOP STREET ADDRESS CT CORPORATION SYSTEM
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313



- 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.

LINE	BEARING	DISTANCE
L1	N 84°43' E	1679.3
L2	N 89°29' E	1715.1
L3	S 76°43' E	1919.4
L4	S 45°39' E	1550.1
L5	S 37°02' E	1534.8
L6	S 24°03' E	1429.7
L7	S 21°49' E	1493.3
L8	S 09°34' E	1487.9
L9	S 00°08' W	1687.8
L10	S 06°20' W	1776.6
L11	N 85°41' W	1949.7
L12	N 85°41' W	1949.7
L13	N 41°09' W	1469.7
L14	N 19°34' W	1630.7
L15	N 17°34' W	1946.0

01/05/2018