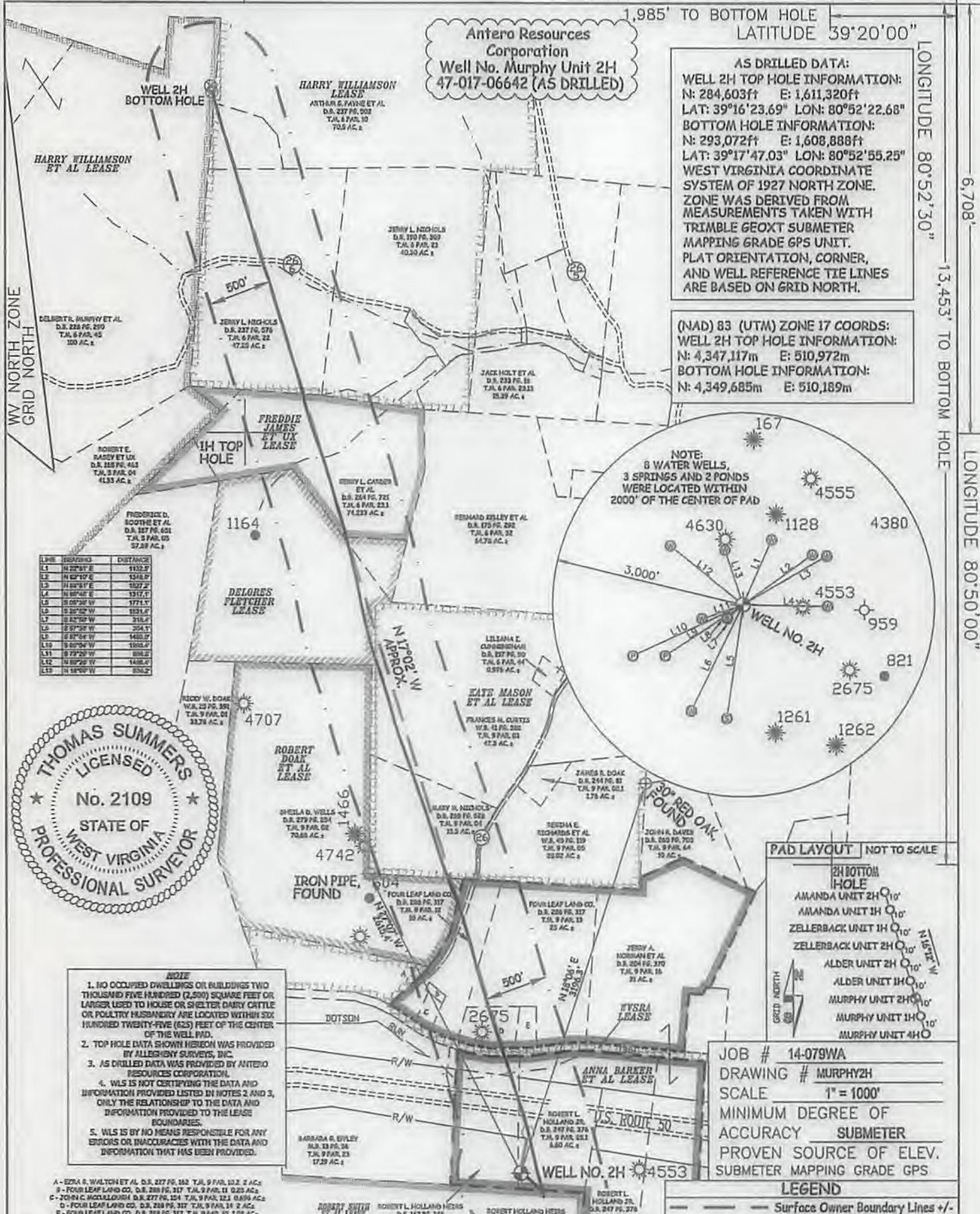


LATITUDE 39°17'30"

11,220'

1,985' TO BOTTOM HOLE

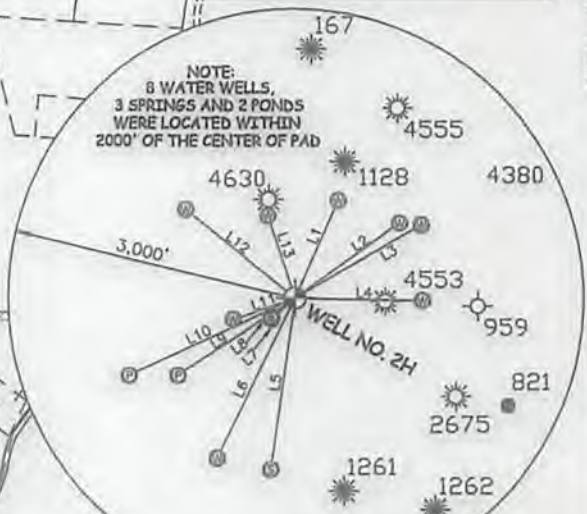
LATITUDE 39°20'00"



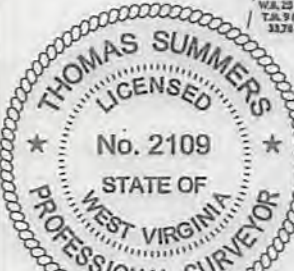
Antero Resources Corporation
Well No. Murphy Unit 2H
47-017-06642 (AS DRILLED)

AS DRILLED DATA:
WELL 2H TOP HOLE INFORMATION:
 N: 284,603ft E: 1,611,320ft
 LAT: 39°16'23.69" LON: 80°52'22.68"
BOTTOM HOLE INFORMATION:
 N: 293,072ft E: 1,608,888ft
 LAT: 39°17'47.03" LON: 80°52'55.25"
 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 2H TOP HOLE INFORMATION:
 N: 4,347,117m E: 510,972m
BOTTOM HOLE INFORMATION:
 N: 4,349,685m E: 510,189m

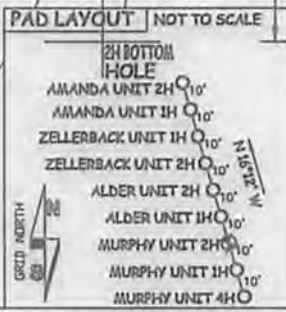


LINE	BEARING	DISTANCE
L1	N 22° 51' E	1132.9'
L2	N 82° 10' E	1548.9'
L3	N 82° 10' E	1527.2'
L4	N 82° 10' E	1317.1'
L5	S 02° 20' W	1771.1'
L6	S 82° 52' W	1831.6'
L7	S 82° 52' W	316.4'
L8	S 82° 52' W	204.1'
L9	S 82° 54' W	1460.2'
L10	S 82° 54' W	1800.9'
L11	S 72° 20' W	808.2'
L12	N 82° 52' W	1408.4'
L13	N 18° 00' W	286.2'



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 500 HUNDRED TWENTY-FIVE (525) FEET OF THE CENTER OF THE WELL PAD.
2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLEGANY 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.



JOB # 14-079WA
 DRAWING # MURPHY2H
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND

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

*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 DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
 WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 989' AS DRILLED WATERSHED NORTH FORK HUGHES RIVER
 QUADRANGLE WEST UNION 7.5' DISTRICT CENTRAL COUNTY DODD
 SURFACE OWNER ROBERT L. HOLLAND JR. ACREAGE 6.80 ACRES +/-
 OIL & GAS ROYALTY OWNER ANNA BARKER ET AL; ROBERT SMITH ET AL; WVSRA; ROBERT DOAK ET AL; LEASE ACREAGE 127 ACRES; 75 ACRES; 301.10 ACRES; 71 ACRES; KATE MASON ET AL; DELORES FLETCHER; FREDDIE JAMES ET UX; HARRY WILLIAMSON; HARRY WILLIAMSON ET AL. 96 ACRES; 40 ACRES; 34 ACRES; 166 ACRES; 176 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 6,446' TVD 15,305' 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

THOMAS SUMMERS P.S. 2109
 DATE 08/24/17
 OPERATOR'S WELL # MURPHY UNIT 2H
 API WELL # 47 - 017 - 06642
 STATE COUNTY PERMIT
 COUNTY NAME PERMIT

11/10/2017