

LATITUDE 39°17'30"

11,232'

7,886' TO BOTTOM HOLE

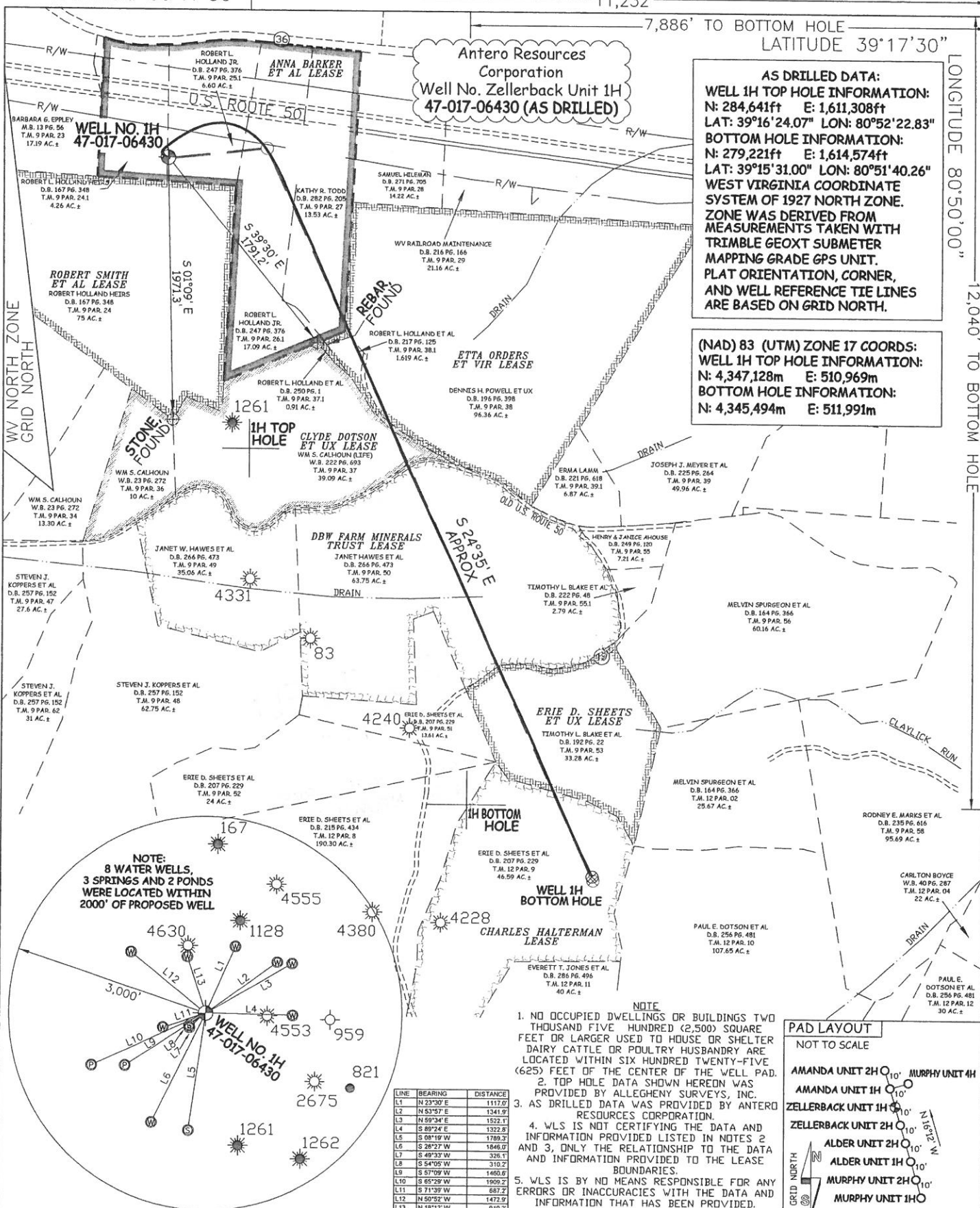
LATITUDE 39°17'30"

LONGITUDE 80°50'00"

6,670'

12,040' TO BOTTOM HOLE

LONGITUDE 80°50'00"

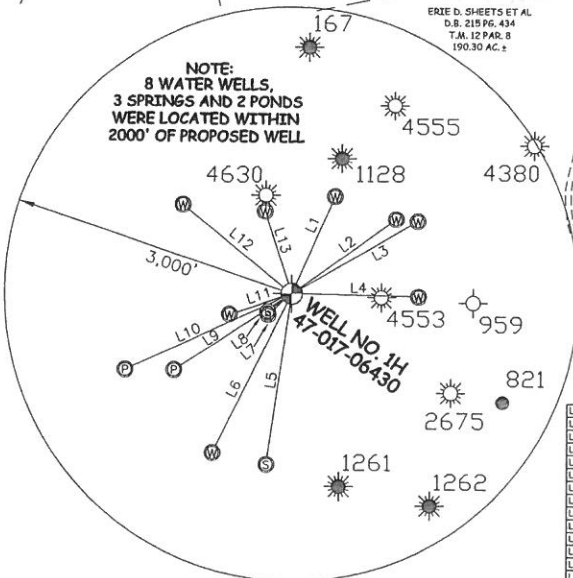


Antero Resources Corporation
Well No. Zellerback Unit 1H
47-017-06430 (AS DRILLED)

AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
 N: 284,641ft E: 1,611,308ft
 LAT: 39°16'24.07" LON: 80°52'22.83"
BOTTOM HOLE INFORMATION:
 N: 279,221ft E: 1,614,574ft
 LAT: 39°15'31.00" LON: 80°51'40.26"
 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: 4,347,128m E: 510,969m
BOTTOM HOLE INFORMATION:
 N: 4,345,494m E: 511,991m

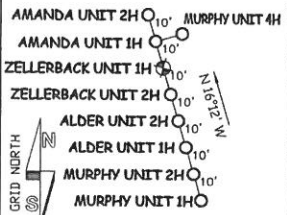
NOTE:
 8 WATER WELLS,
 3 SPRINGS AND 2 PONDS
 WERE LOCATED WITHIN
 2000' OF PROPOSED WELL



LINE	BEARING	DISTANCE
L1	N 23°30' E	1117.0'
L2	N 53°57' E	1341.9'
L3	N 59°34' E	1522.1'
L4	S 85°24' E	1322.8'
L5	S 08°19' W	1769.3'
L6	S 28°27' W	1846.0'
L7	S 49°33' W	326.1'
L8	S 54°05' W	316.2'
L9	S 57°09' W	1460.6'
L10	S 65°29' W	1909.2'
L11	S 71°39' W	687.2'
L12	N 50°52' W	1472.9'
L13	N 18°12' W	910.2'

- 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 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.

PAD LAYOUT
 NOT TO SCALE



JOB # 13-061WA
 DRAWING # ZELLERBACK1HAD
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

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

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

DATE 06/15/15
 OPERATOR'S WELL# ZELLERBACK UNIT #1H

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 990' ORIGINAL - 989' AS DRILLED WATERSHED NORTH FORK HUGHES RIVER

API WELL # 47 - 017 - 06430
 STATE COUNTY PERMIT

QUADRANGLE WEST UNION 7.5' DISTRICT CENTRAL COUNTY DODDRIDGE
 SURFACE OWNER ROBERT L. HOLLAND JR. ACREAGE 6.60 ACRES +/-
 OIL & GAS ROYALTY OWNER ANNA BARKER ET AL; ETTA ORDERS ET VIR; CLYDE DOTSON ET UX; LEASE ACREAGE 127 ACRES±; 100 ACRES±; 50 ACRES±;
 DBW FARM MINERALS TRUST; ERIE D. SHEETS ET UX; CHARLES HALTERMAN 98 ACRES±; 32.7 ACRES±; 47.17 ACRES±

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___
 PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) (X) AS DRILLED
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,560' TVD 13,034' MD

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

PERMIT

FORM WW-6

COUNTY NAME PERMIT