

LATITUDE 39°15'00"

10,581'

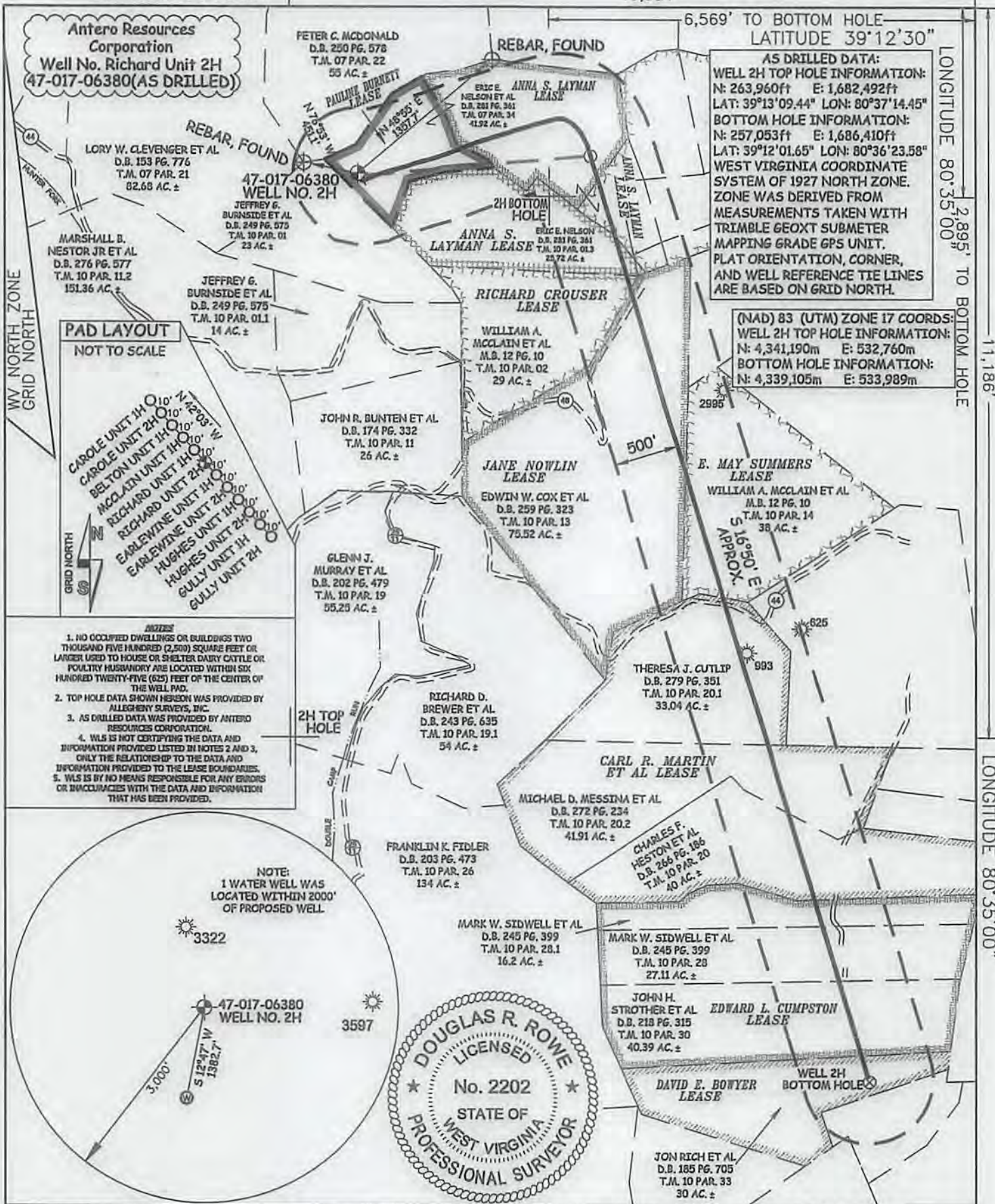
6,569' TO BOTTOM HOLE

LATITUDE 39°12'30"

LONGITUDE 80°35'00"

11,186'

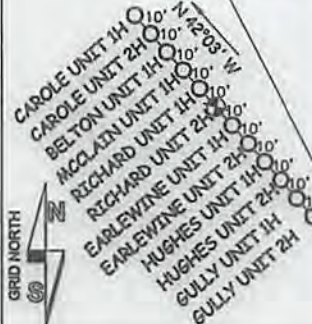
LONGITUDE 80°35'00"



AS DRILLED DATA:
WELL 2H TOP HOLE INFORMATION:
 N: 263,960ft E: 1,682,492ft
BOTTOM HOLE INFORMATION:
 N: 257,053ft E: 1,686,410ft
 LAT: 39°12'01.65" LON: 80°36'23.58"
 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.

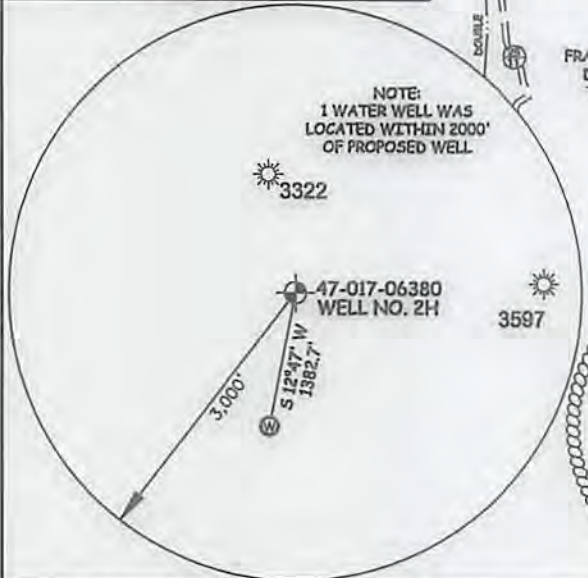
(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 2H TOP HOLE INFORMATION:
 N: 4,341,190m E: 532,760m
BOTTOM HOLE INFORMATION:
 N: 4,339,105m E: 533,989m

PAD LAYOUT
 NOT TO SCALE



- NOTES**
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.

NOTE:
 1 WATER WELL WAS LOCATED WITHIN 2000' OF PROPOSED WELL.



JOB # <u>12-148WA</u> DRAWING # <u>RICHARD2HAD</u> SCALE <u>1" = 1000'</u> MINIMUM DEGREE OF ACCURACY <u>SUBMETER</u> PROVEN SOURCE OF ELEV. <u>SUBMETER MAPPING GRADE GPS</u>		I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.		LEGEND - - - - - Surface Owner Boundary Lines +/- - - - - - Interior Surface Tracts +/- ○ Proposed Well Path ⊗ As Drilled Well Path	
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS		STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS		DOUGLAS R. ROWE P.S. 2202 DATE <u>11/28/17</u>	
WELL TYPE: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> (IF "GAS") PRODUCTION <input checked="" type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>		WILLow LAND SURVEYING PLLC 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415		OPERATOR'S WELL # <u>RICHARD UNIT #2H</u> API WELL # <u>47 - 017 - 06380</u>	
LOCATION: ELEVATION <u>1,332' AS DRILLED</u> QUADRANGLE <u>BIG ISSAC 7.5'</u> DISTRICT <u>GREENBRIER</u> COUNTY <u>DODD</u>		WATERSHED <u>HEADWATERS OF MIDDLE ISLAND CREEK</u>		STATE COUNTY PERMIT	
SURFACE OWNER <u>ERIC E. NELSON, ET AL</u> ACREAGE <u>41.92 ACRES +/-</u>		OIL & GAS ROYALTY OWNER <u>PAULINE BURNETT; ANNA S. LAYMAN; ANNA S. LAYMAN</u> LEASE ACREAGE <u>14.29 ACRES; 25.16 ACRES; 23.925 ACRES;</u> <u>ANNA S. LAYMAN; RICHARD CROUSER; JANE NOWLIN; E. MAY SUMMERS; CARL R. MARTIN ET AL; EDWARD L. CUMPTON; DAVID E. BOWYER</u> <u>10.275 ACRES; 29.93 ACRES; 76 ACRES; 30 ACRES; 115 ACRES; 90 ACRES; 30 ACRES;</u>		COUNTY NAME <u>DODD</u>	
PROPOSED WORK: DRILL <input type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) <u>(X) AS DRILLED</u>		PLUG & ABANDON CLEAN OUT & REPLUG ESTIMATED DEPTH <u>7,335' TVD 15,309' MD</u>		PERMIT	
TARGET FORMATION <u>MARCELLUS</u>		WELL OPERATOR <u>ANTERO RESOURCES CORP.</u> DESIGNATED AGENT <u>DIANNA STAMPER</u> ADDRESS <u>1815 WYNKOOP STREET</u> ADDRESS <u>5400 D BIG TYLER ROAD</u> FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313		DATE <u>11/28/17</u>	

01/05/2018