

LATITUDE 39°17'30"

2,194'

11,406' TO BOTTOM HOLE

LATITUDE 39°17'30"

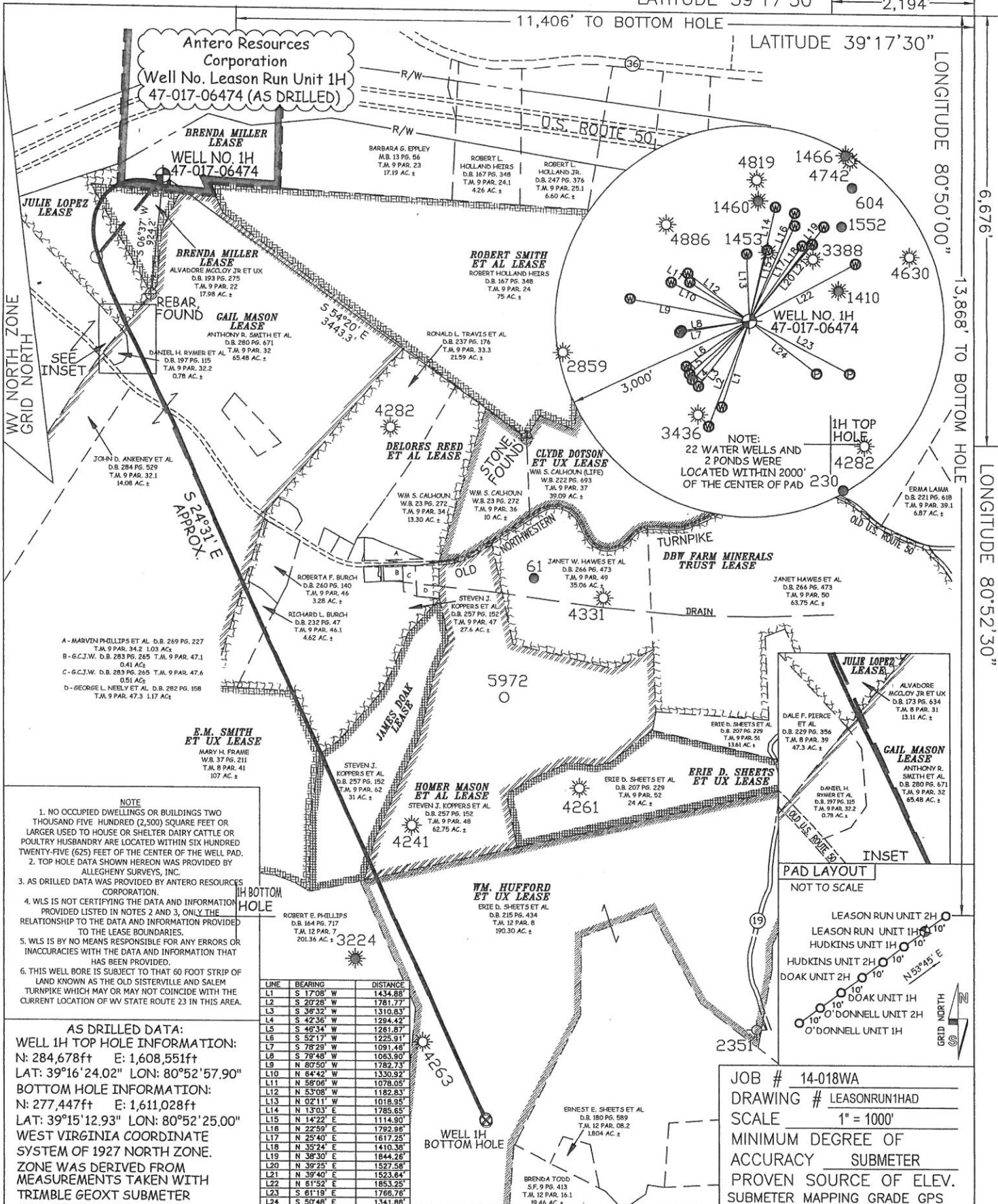
LONGITUDE 80°50'00"

6,676'

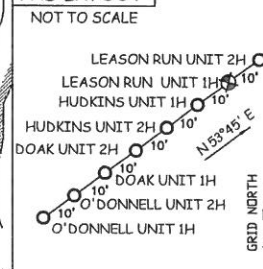
13,868' TO BOTTOM HOLE

LONGITUDE 80°52'30"

Antero Resources Corporation  
Well No. Leason Run Unit 1H  
47-017-06474 (AS DRILLED)



NOTE:  
22 WATER WELLS AND  
2 PONDS WERE  
LOCATED WITHIN 2000'  
OF THE CENTER OF PAD



- 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.
  6. THIS WELL BORE IS SUBJECT TO THAT 60 FOOT STRIP OF LAND KNOWN AS THE OLD SISTERVILLE AND SALEM TURNPIKE WHICH MAY OR MAY NOT COINCIDE WITH THE CURRENT LOCATION OF WV STATE ROUTE 23 IN THIS AREA.

AS DRILLED DATA:  
WELL 1H TOP HOLE INFORMATION:  
N: 284,678ft E: 1,608,551ft  
LAT: 39°16'24.02" LON: 80°52'57.90"  
BOTTOM HOLE INFORMATION:  
N: 277,447ft E: 1,611,028ft  
LAT: 39°15'12.93" LON: 80°52'25.00"  
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.

LINE	BEARING	DISTANCE
L1	S 17°08' W	1434.88'
L2	S 20°28' W	1781.77'
L3	S 36°32' W	1310.83'
L4	S 42°36' W	1294.42'
L5	S 46°34' W	1261.87'
L6	S 52°17' W	1225.91'
L7	S 78°29' W	1091.48'
L8	S 79°48' W	1063.90'
L9	N 07°50' W	1782.73'
L10	N 64°42' W	1330.92'
L11	N 58°06' W	1078.05'
L12	N 53°08' W	1182.83'
L13	N 02°11' W	1018.95'
L14	N 13°03' E	1785.65'
L15	N 14°22' E	1114.90'
L16	N 22°59' E	1792.96'
L17	N 25°40' E	1617.25'
L18	N 35°24' E	1410.38'
L19	N 38°30' E	1844.28'
L20	N 39°25' E	1527.58'
L21	N 39°40' E	1523.65'
L22	N 61°52' E	1853.25'
L23	S 61°19' E	1766.78'
L24	S 50°48' E	1341.88'

STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS



WILLOW LAND SURVEYING PLLC  
P.O. BOX 17  
PENNSBORO, WV 26415

JOB # 14-018WA  
DRAWING # LEASONRUN1HAD  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY SUBMETER  
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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

DATE 07/09/15  
OPERATOR'S WELL# LEASON RUN UNIT 1H

API WELL # 47 - 017 - 06474  
STATE COUNTY PERMIT

LOCATION: ELEVATION 1,083' ORIGINAL - 1,057' AS-DRILLED WATERSHED NORTH FORK HUGHES RIVER  
QUADRANGLE PENNSBORO 7.5' (TOP HOLE) WEST UNION 7.5' (BOTTOM HOLE) DISTRICT CENTRAL COUNTY DODDRIDGE

SURFACE OWNER ALVADORE MCCLOY JR ET UX ACREAGE 17.98 ACRES +/-  
OIL & GAS ROYALTY OWNER BRENDA MILLER; BRENDA MILLER; JULIE LOPEZ; GAIL MASON; LEASE ACREAGE 37.625 ACRES +/-; 6.2 ACRES +/-; 19 ACRES +/-; 148.793 ACRES +/-

DELORES REED ET AL; E.M. SMITH ET UX; JAMES DOAK; HOMER MASON ET AL; WM. HUFFORD ET UX 75.6 ACRES +/-; 108 ACRES +/-; 31 ACRES +/-; 62 ACRES +/-; 141 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 PLUG & ABANDON CLEAN OUT & REPLUG  
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,589' TVD 14,264' 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

COUNTY NAME PERMIT