

LATITUDE 39°20'00"

4,326'

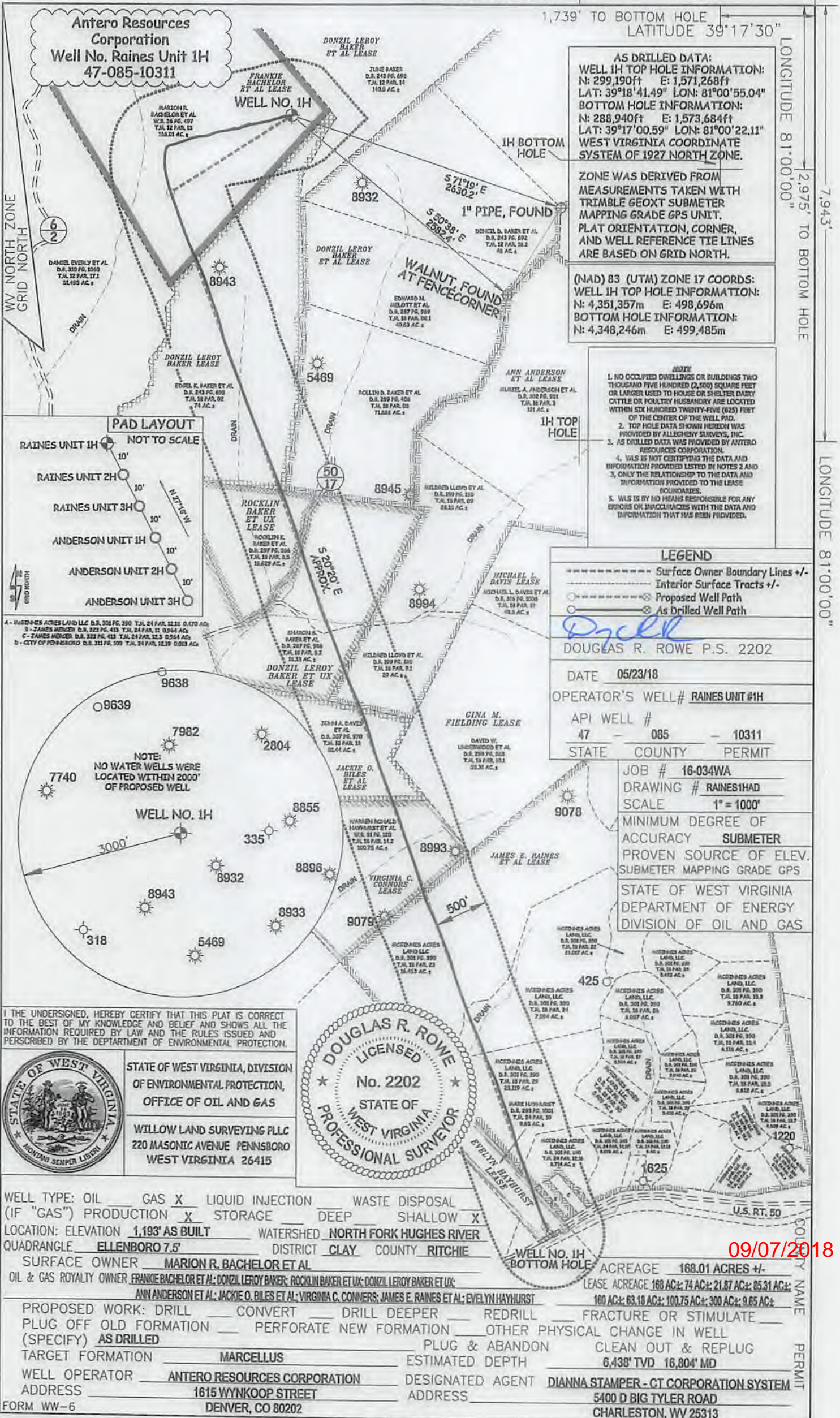
1,739' TO BOTTOM HOLE

LATITUDE 39°17'30"

LONGITUDE 81°00'00"

7,943'

LONGITUDE 81°00'00"



AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
 N: 299,190ft E: 1,571,268ft
 LAT: 39°18'41.49" LON: 81°00'55.04"
BOTTOM HOLE INFORMATION:
 N: 288,940ft E: 1,573,684ft
 LAT: 39°17'00.59" LON: 81°00'22.11"
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: 4,351,357m E: 498,696m
BOTTOM HOLE INFORMATION:
 N: 4,348,246m E: 499,485m

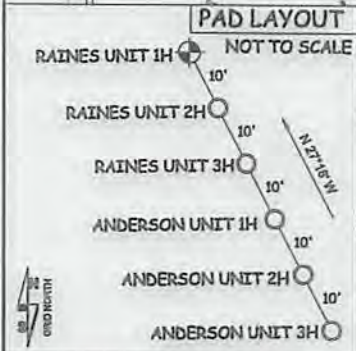
- NOTE**
1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAILY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
 2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLEGHENY 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.

LEGEND

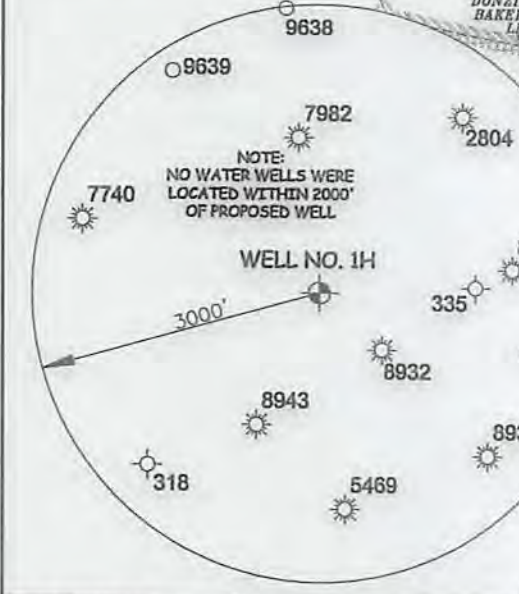
- Surface Owner Boundary Lines +/-
- Interior Surface Tracts +/-
- Proposed Well Path
- As Drilled Well Path

Dyck
 DOUGLAS R. ROWE P.S. 2202
 DATE 05/23/18
 OPERATOR'S WELL# RAINES UNIT #1H
 API WELL # 47 - 085 - 10311
 STATE COUNTY PERMIT

JOB # 16-034WA
 DRAWING # RAINES1HAD
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS
 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS



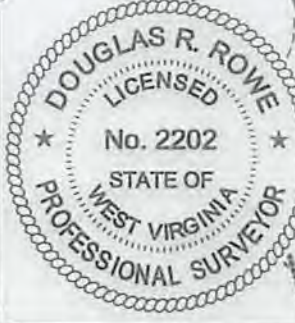
A - HUGHES ACRES LAND LLC D.S. 301 PG. 390 T.J. 24 PAR. 12.31 0.470 AC.
 B - JAMES MERGER D.S. 324 PG. 413 T.J. 24 PAR. 11 0.964 AC.
 C - JAMES MERGER D.S. 323 PG. 413 T.J. 24 PAR. 12.3 0.264 AC.
 D - CITY OF PENNSBORO D.S. 311 PG. 100 T.J. 24 PAR. 12.19 0.013 AC.



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 AVENUE PENNSBORO WEST VIRGINIA 26415



WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1,193' AS BUILT WATERSHED NORTH FORK HUGHES RIVER
 QUADRANGLE ELLENBORO 7.5' DISTRICT CLAY COUNTY RITCHIE
 SURFACE OWNER MARION R. BACHELOR ET AL
 OIL & GAS ROYALTY OWNER FRANKIE BACHELOR ET AL; DONZIL LEROY BAKER; ROCKLIN BAKER ET UX; DONZIL LEROY BAKER ET UX;
 ANN ANDERSON ET AL; JACKIE O. BILES ET AL; VIRGINIA C. CONNORS; JAMES E. RAINES ET AL; EVELYN HAYHURST
 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 PLUG & ABANDON CLEAN OUT & REPLUG
 WELL OPERATOR ANTERO RESOURCES CORPORATION ESTIMATED DEPTH 6,438' TVD 16,804' MD
 ADDRESS 1615 WYNNKOOP STREET DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
 DENVER, CO 80202 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

ACREAGE 168.01 ACRES +/-
 LEASE ACREAGE 168 AC; 74 AC; 21.87 AC; 85.31 AC;
 160 AC; 63.18 AC; 100.75 AC; 300 AC; 9.85 AC;

DATE 09/07/2018