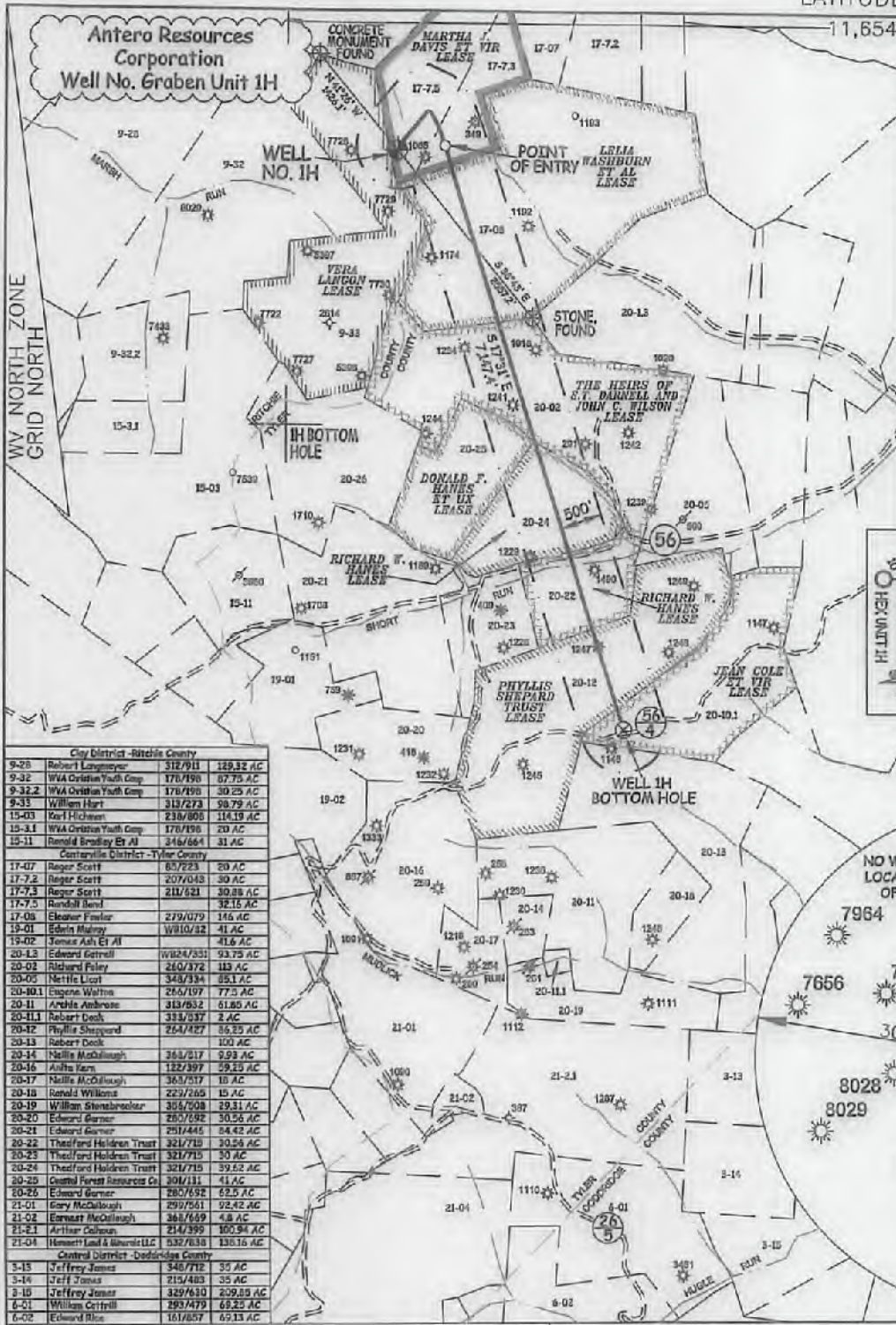


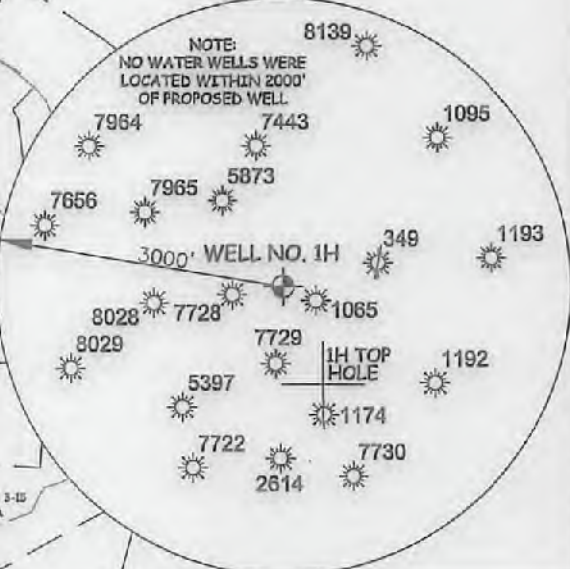
LATITUDE 39°22'30" 2,668'
 11,654' TO BOTTOM HOLE
 LATITUDE 39°20'00"

LONGITUDE 80°50'00"
 4,843' TO BOTTOM HOLE
 13,251'



NOTES:
 WELL 1H TOP HOLE INFORMATION:
 N: 308,459ft E: 1,608,441ft
 LAT: 39°20'19.03" LON: 80°53'03.95"
 BOTTOM HOLE INFORMATION:
 N: 301,649ft E: 1,611,139ft
 LAT: 39°19'12.13" LON: 80°52'28.30"
 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: 4,354,370m E: 509,974m
 BOTTOM HOLE INFORMATION:
 N: 4,352,309m E: 510,831m



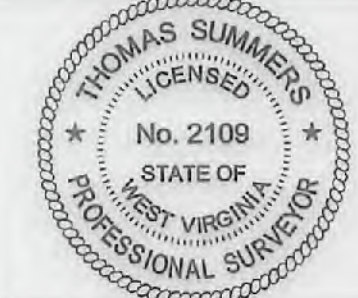
I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

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

WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

(NAD) 27 (UTM) ZONE 17 COORDS:
 WELL 1H TOP HOLE INFORMATION:
 N: 14,285,248ft E: 1,673,093ft
 POINT OF ENTRY INFORMATION:
 N: 14,285,263ft E: 1,673,639ft
 BOTTOM HOLE INFORMATION:
 N: 14,278,486ft E: 1,675,903ft

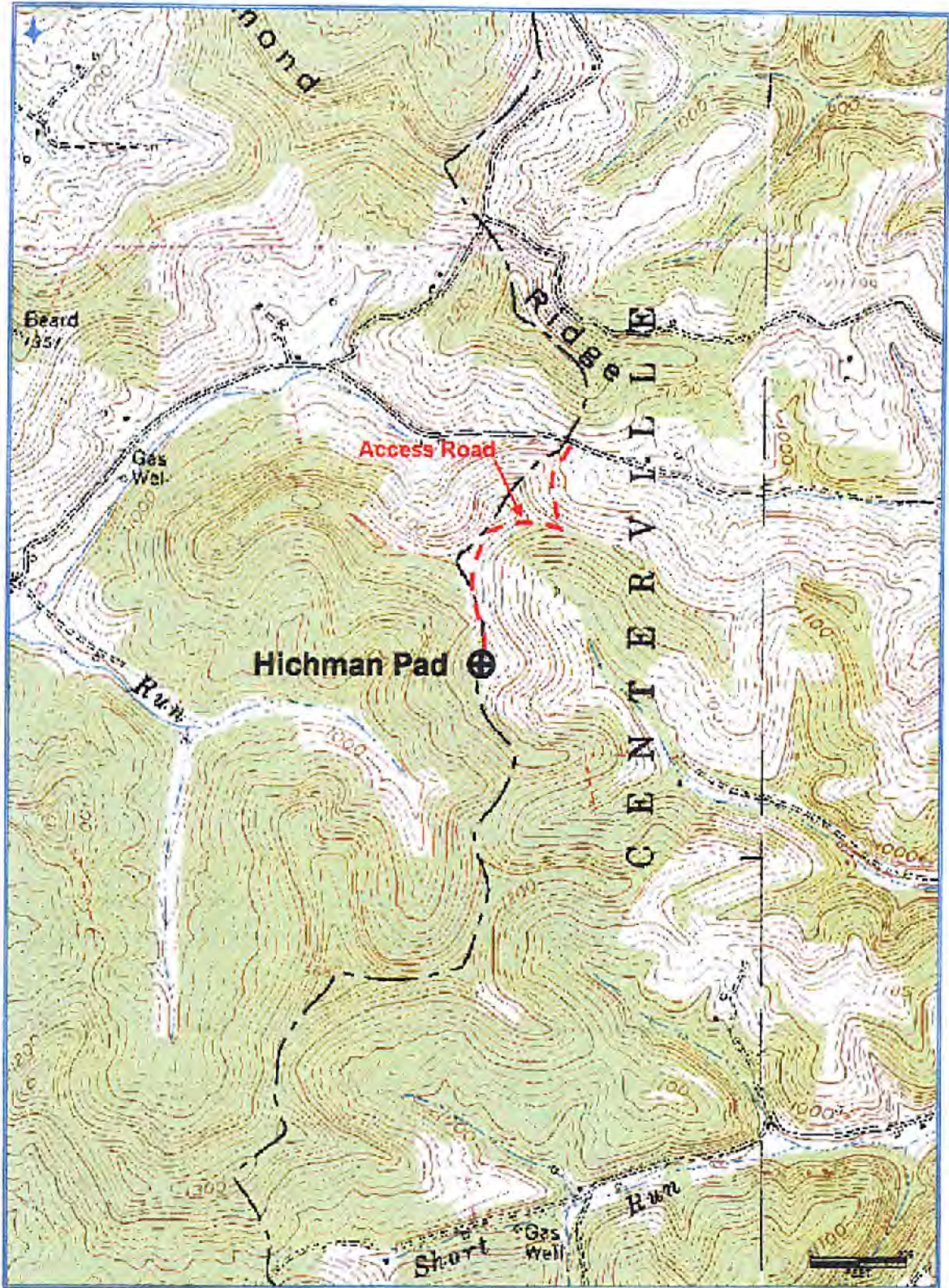
NOTE
 NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.



| | | |
|--|----------------------------------|-----------------|
| JOB # 17-010WA | LEGEND | REFERENCES |
| DRAWING # GRABENVH | Surface Owner Boundary Lines +/- | WELL NO. 1H |
| SCALE 1" = 2000' | Interior Surface Tracts +/- | 233.0' |
| MINIMUM DEGREE OF ACCURACY SUBMETER | Existing Fence | STAKE/MAIL, SET |
| PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS | Found monument, as noted | 5 63°27' E |
| STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS | THOMAS SUMMERS P.S. 2109 | 311.4' |
| | DATE 09/26/17 | STAKE/MAIL, SET |
| | OPERATOR'S WELL# GRABEN UNIT #1H | 1" = 200' |
| WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 - 085 - 10334 | | |
| (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X | | |
| LOCATION: ELEVATION 1,278' ORIGINAL - 1,250' PROPOSED | | |
| QUADRANGLE PENNSBORO 7.5' | | |
| SURFACE OWNER RADALL BOND ET AL | | |
| OIL & GAS ROYALTY OWNER MARTHA J. DAVIS ET VIR; LELIA WASHBURN ET AL; | | |
| THE HEIRS OF S.T. DARNELL AND JOHN C. WILSON; RICHARD W. HANES; RICHARD W. HANES; | | |
| PHYLLIS SHEPARD TRUST; JEAN COLE ET VIR | | |
| PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X | | |
| PLUG OFF OLD FORMATION PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) | | |
| TARGET FORMATION MARCELLUS | | |
| ESTIMATED DEPTH 7,000' TVD 14,500' MD | | |
| WELL OPERATOR ANTERO RESOURCES CORP. | | |
| DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM | | |
| ADDRESS 1815 WYNKOOP ST. DENVER, CO 80202 | | |
| ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313 | | |

01/12/2018

COMITY NAME PERMIT



Antero Resources Corporation
Appalachian Basin
Graben Unit 1H
Ritchie County

Quadrangle: Pennsboro
Watershed: North Fork Hughes River
District: Clay
Date: 3-14-2017