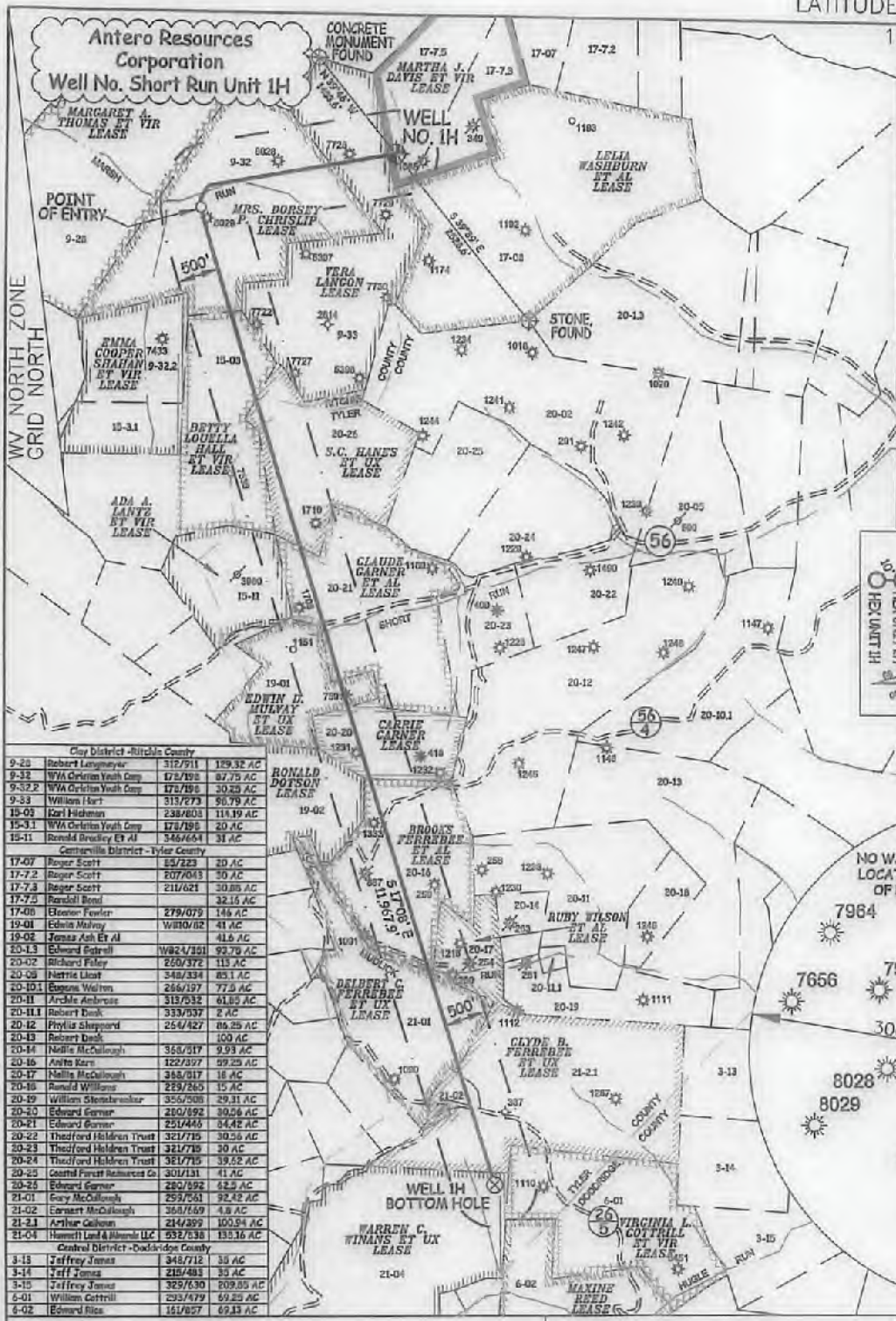


LATITUDE 39°22'30" 2,681'
 1,288' TO BOTTOM HOLE
 LATITUDE 39°20'00"

LONGITUDE 80°52'30" 10,262' TO BOTTOM HOLE

13,299'

LONGITUDE 80°52'30"



NOTES:
 WELL 1H TOP HOLE INFORMATION:
 N: 308,411ft E: 1,608,427ft
 LAT: 39°20'18.55" LON: 80°53'04.12"
 BOTTOM HOLE INFORMATION:
 N: 296,253ft E: 1,609,634ft
 LAT: 39°18'18.58" LON: 80°52'46.39"
 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: 4,354,355m E: 509,970m
 BOTTOM HOLE INFORMATION:
 N: 4,350,657m E: 510,400m



Clay District - Ritchie County		
9-25	Robert Langmeier	312/911 159.32 AC
9-23	WVA Clinton Youth Camp	172/892 87.75 AC
9-22	WVA Clinton Youth Camp	172/892 20.25 AC
9-23	William Hart	312/873 50.79 AC
15-03	Earl Hickman	238/803 114.19 AC
15-31	WVA Clinton Youth Camp	172/892 20 AC
15-11	Ronald Bradley Et Al	346/644 31 AC
Centerville District - Tyler County		
17-07	Roger Scott	232/223 20 AC
17-72	Roger Scott	207/643 30 AC
17-73	Roger Scott	211/621 20.85 AC
17-73	Reynold Bond	321/6 32.15 AC
17-08	Eleanor Fowler	279/079 146 AC
19-01	Edwin Mulvey	W810/62 41 AC
19-02	Jessie Ash Et Al	41.6 AC
20-13	Edward Estrell	W824/321 92.79 AC
20-02	Richard Piley	250/372 113 AC
20-09	Hattie Lutz	348/334 85.1 AC
20-10	Emma Wilson	266/197 77.3 AC
20-11	Archie Ambrose	313/532 61.85 AC
20-11	Robert Bank	323/537 2 AC
20-12	Phyllis Sheppard	254/427 86.25 AC
20-13	Robert Bank	100 AC
20-14	Nellie McCallough	368/317 9.93 AC
20-16	Anita Kern	122/397 99.25 AC
20-17	Nellie McCallough	368/317 16 AC
20-18	Ronald Williams	229/265 15 AC
20-19	William Stensbraker	356/508 29.31 AC
20-20	Edward Garner	250/592 30.26 AC
20-21	Edward Garner	251/649 34.42 AC
20-22	Theoford Holden Trust	321/795 30.26 AC
20-23	Theoford Holden Trust	321/795 30 AC
20-24	Theoford Holden Trust	321/795 39.52 AC
20-25	Central Forest Resources Co	301/131 41 AC
20-25	Edward Garner	280/592 62.5 AC
21-01	Gray McCallough	259/561 32.42 AC
21-02	Ernest McCallough	320/569 4.8 AC
21-21	Arthur Collins	214/395 100.94 AC
21-04	Hessell Land & Blanks LLC	532/338 133.36 AC
Central District - Doddridge County		
3-15	Jeffrey James	348/712 35 AC
3-14	Jeff James	218/493 35 AC
3-15	Jeffrey James	329/630 209.85 AC
6-01	William Cottrell	293/479 69.25 AC
6-02	Edward Rice	161/857 69.33 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 AVE. PENNSBORO WEST VIRGINIA 26415

(NAD) 27 (UTM) ZONE 17 COORDS:
 WELL 1H TOP HOLE INFORMATION:
 N: 14,285,200ft E: 1,673,080ft
 POINT OF ENTRY INFORMATION:
 N: 14,284,440ft E: 1,670,775ft
 BOTTOM HOLE INFORMATION:
 N: 14,273,058ft E: 1,674,489ft

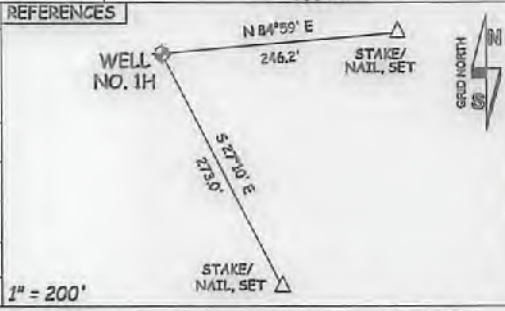
NOTE:
 NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.



JOB # 17-008WA
 DRAWING # SHORTRUN1HR1
 SCALE 1" = 2000'
 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

LEGEND
 - - - Surface Owner Boundary Lines +/-
 - - - Interior Surface Tracts +/-
 X Existing Fence
 ⊕ Found monument, as noted

Thomas Summers
 THOMAS SUMMERS P.S. 2109
 DATE 10/09/17
 OPERATOR'S WELL# SHORT RUN UNIT #1H

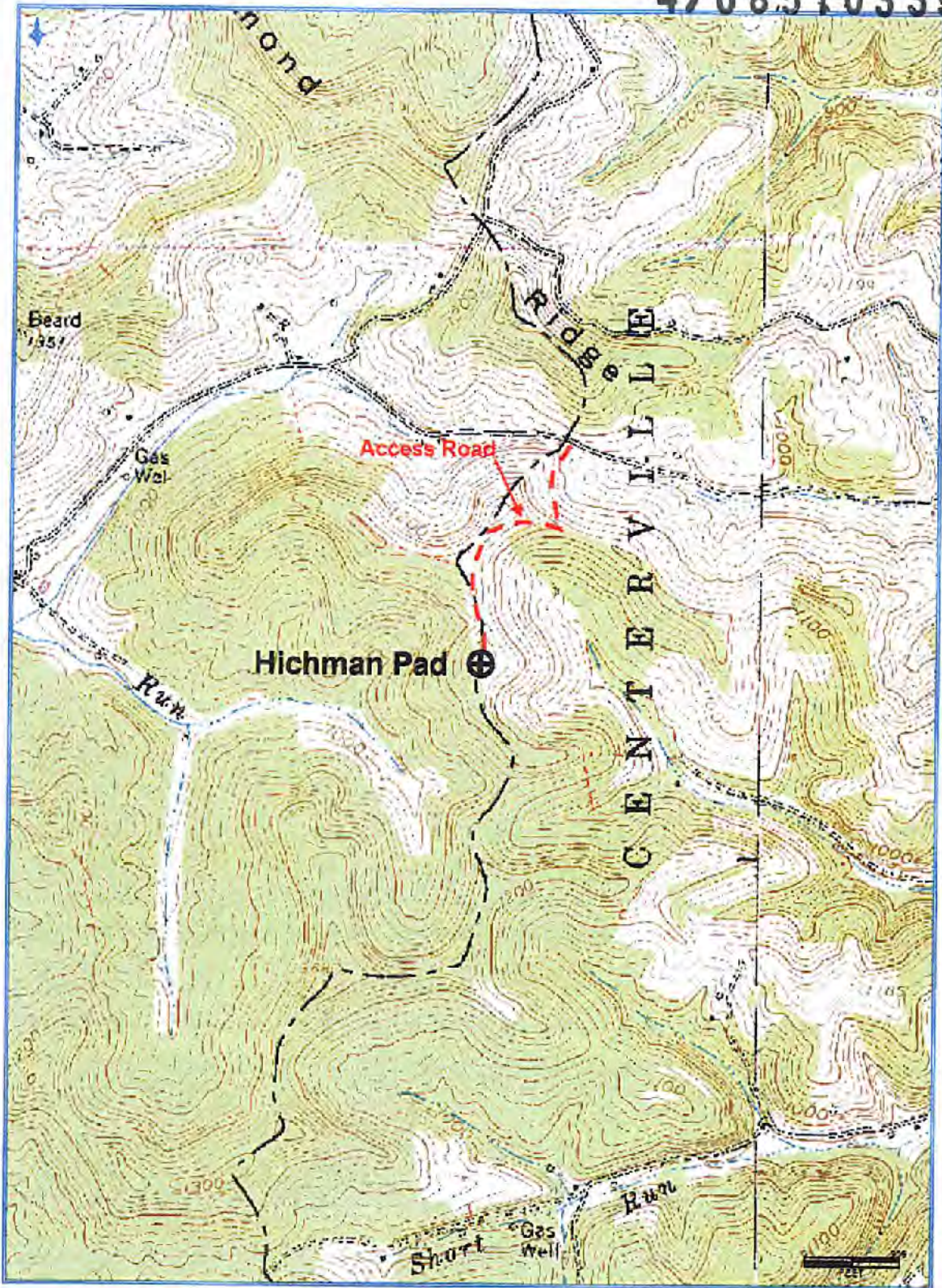


WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 - 085 -10339
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X STATE COUNTY PERMIT
 LOCATION: ELEVATION 1,278' ORIGINAL - 1,250' PROPOSED WATERSHED NORTH FORK HUGHES RIVER QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE
 SURFACE OWNER RADALL BOND ET AL ACREAGE 32.16 ACRES +/-
 OIL & GAS ROYALTY OWNER MARTHA J. DAVIS ET VIR; VERA LANGON; MRS. DORSEY P. CHRISLIP; LEASE ACREAGE 70 AC±; 98.79 AC±; 87.75 AC±;
 BETTY LOUELLA HALL ET VIR; S.C. HANES ET UX; CLAUDE GARNER ET AL; EDWIN D. MULVAY ET UX; CARRIE GARNER 56 AC±; 84 AC±; 85 AC±; 41 AC±; 30 AC±;
 BROOKS FERREBEE ET AL; DELBERT C. FERREBEE ET UX; CLYDE B. FERREBEE ET UX; WARREN C. WINANS ET UX 59.25 AC±; 78 AC±; 105 AC±; 143 AC±
 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 CLEAN OUT & REPLUG
 (SPECIFY) PLUG & ABANDON
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,000' TVD 20,000' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
 ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD
 DENVER, CO 80202 CHARLESTON, WV 25313

01/19/2018

COUNTY NAME PERMIT

4708510339



Antero Resources Corporation
Appalachian Basin
Short Run Unit 1H
Ritchie County

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

01/19/2018