

LATITUDE 39°22'30"

2,662'

10,421' TO BOTTOM HOLE

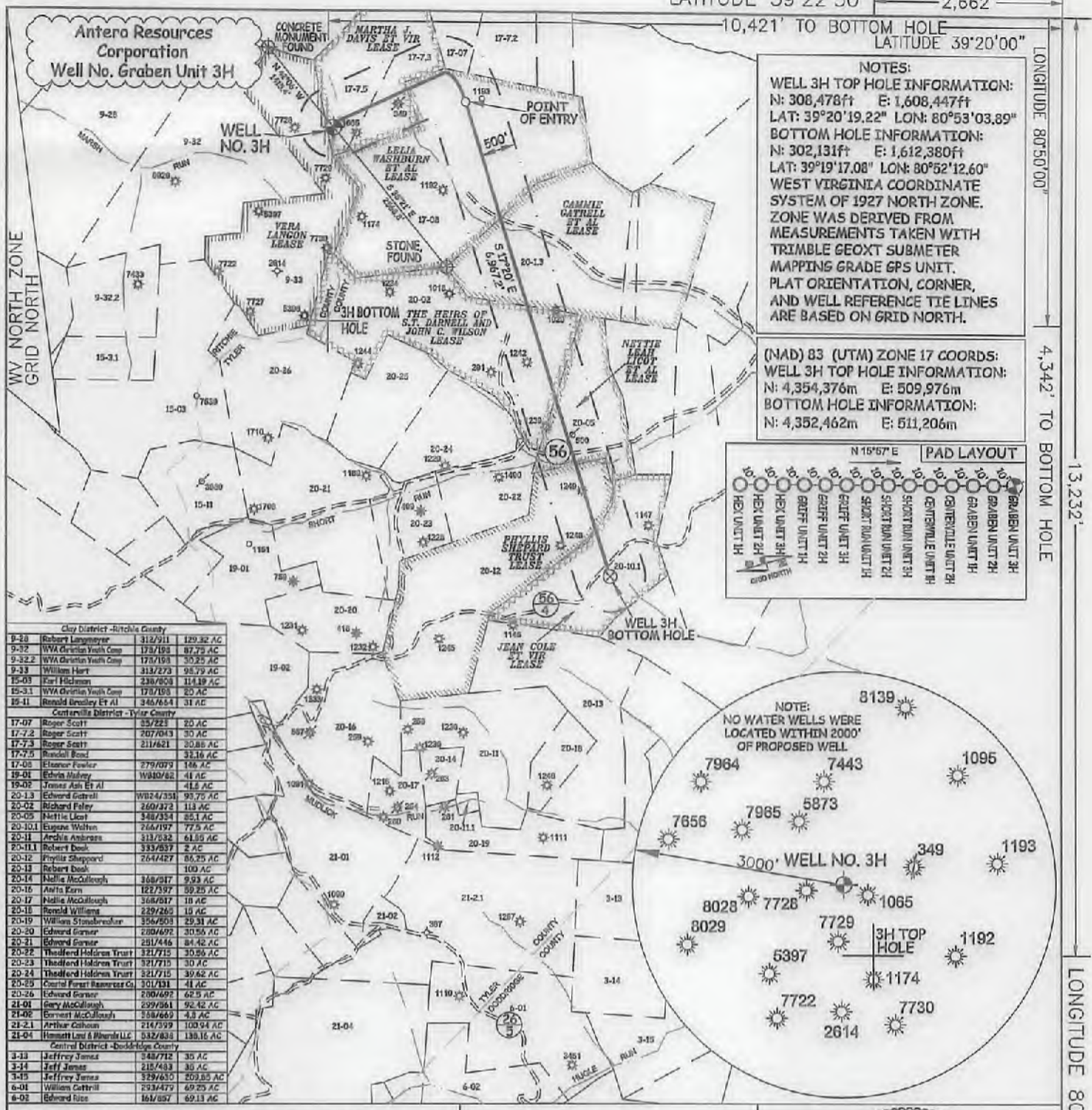
LATITUDE 39°20'00"

LONGITUDE 80°50'00"

4,342' TO BOTTOM HOLE

13,232'

LONGITUDE 80°52'30"



NOTES:
 WELL 3H TOP HOLE INFORMATION:
 N: 308,478ft E: 1,608,447ft
 LAT: 39°20'19.22" LON: 80°53'03.89"
 BOTTOM HOLE INFORMATION:
 N: 302,131ft E: 1,612,380ft
 LAT: 39°19'17.08" LON: 80°52'12.60"
 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 3H TOP HOLE INFORMATION:
 N: 4,354,376m E: 509,976m
 BOTTOM HOLE INFORMATION:
 N: 4,352,462m E: 511,206m



Clay District - Ritchie County		
9-23	Robert Langmyer	312/911 129.32 AC
9-27	WVA Christian Youth Camp	173/193 87.79 AC
9-32.2	WVA Christian Youth Camp	173/193 30.25 AC
9-33	William Hart	312/273 95.79 AC
15-03	Karl Hickman	238/608 114.19 AC
15-31	WVA Christian Youth Camp	173/193 20 AC
15-11	Reynold Brasley Et Al	346/654 31 AC
Carterville District - Tyler County		
17-07	Roger Scott	35/223 20 AC
17-7.2	Roger Scott	207/643 30 AC
17-7.3	Roger Scott	211/621 30.86 AC
17-7.5	Randall Bond	31.16 AC
17-08	Eleanor Fowler	279/079 186 AC
19-01	Edwin Mahony	W830/62 41 AC
19-02	James Ash Et Al	41.8 AC
20-13	Edward Gattrell	W824/334 93.79 AC
20-02	Richard Paley	260/272 113 AC
20-05	Nettie Licot	348/354 85.1 AC
20-10.1	Eugene Wilton	266/197 77.5 AC
20-11	Archie Ambrose	313/332 44.93 AC
20-11.1	Robert Book	333/837 2 AC
20-12	Phyllis Shepard	264/427 86.25 AC
20-13	Robert Book	100 AC
20-14	Nellie McCullough	368/917 9.93 AC
20-16	Anita Kern	122/397 59.25 AC
20-17	Nellie McCullough	368/917 10 AC
20-18	Reynold Williams	229/265 15 AC
20-19	William Stansbreder	356/803 29.31 AC
20-20	Edward Garner	238/692 30.54 AC
20-21	Edward Garner	281/446 84.42 AC
20-22	Theodore Halder Trust	321/715 30.84 AC
20-23	Theodore Halder Trust	321/715 30 AC
20-24	Theodore Halder Trust	321/715 39.62 AC
20-25	Conrad Forest Resources Co	301/131 41 AC
20-26	Edward Garner	200/692 62.5 AC
21-01	Gary McCullough	299/861 92.42 AC
21-02	Bernett McCullough	358/663 4.3 AC
21-21	Arthur Colborn	214/239 103.94 AC
21-04	Harrett Lee & Richard LLC	532/833 188.16 AC
Central District - Boone County		
3-13	Jeffrey James	348/712 35 AC
3-14	Jeff James	218/403 30 AC
3-15	Jeffrey James	329/630 209.85 AC
6-01	William Gattrell	293/479 69.25 AC
6-02	Edward Liss	161/397 69.13 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

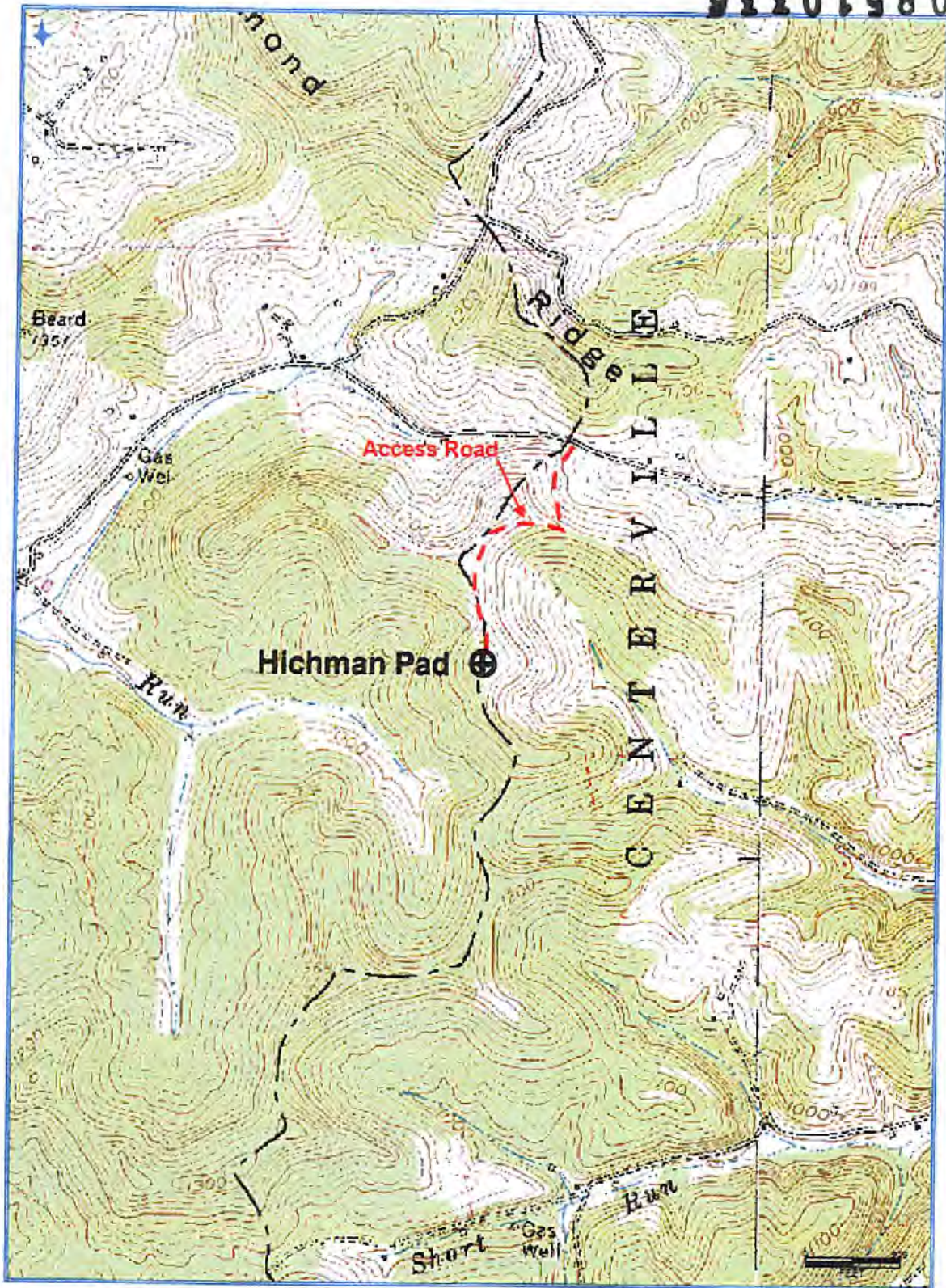
(NAD) 27 (UTM) ZONE 17 COORDS:
 WELL 3H TOP HOLE INFORMATION:
 N: 14,285,267ft E: 1,673,098ft
 POINT OF ENTRY INFORMATION:
 N: 14,285,601ft E: 1,674,950ft
 BOTTOM HOLE INFORMATION:
 N: 14,278,988ft E: 1,677,135ft

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 # GRABEN3H	Surface Owner Boundary Lines +/-	WELL NO. 3H
SCALE 1" = 2000'	Interior Surface Tracts +/-	230.6'
MINIMUM DEGREE OF ACCURACY SUBMETER	Existing Fence	516.17' E
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS	Found monument, as noted	201.8'
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS	THOMAS SUMMERS P.S. 2109	1" = 200'
	DATE 09/26/17	STAKE/ NAIL, SET
	OPERATOR'S WELL# GRABEN UNIT #3H	STAKE/ NAIL, SET
WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 - 085 - 10336		
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X		
LOCATION: ELEVATION 1,276' 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; LELIA WASHBURN ET AL; CAMMIE GATRELL ET AL; THE HEIRS OF S.T. DARNELL AND JOHN C. WILSON; NETTIE LEAH LICOT ET AL; PHYLLIS SHEPARD TRUST; JEAN COLE ET VIR		
LEASE ACREAGE 70 AC±; 150 AC±; 139.75 AC±; 113 AC±; 43 AC±; 86.25 AC±; 77.5 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 (SPECIFY) PLUG & ABANDON CLEAN OUT & REPLUG		
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,000' TVD 14,500' MD		
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM		
ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313		

01/19/2018



Antero Resources Corporation
Appalachian Basin
Griff Unit 3H
Ritchie County

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