

LATITUDE 39°22'30" 2.662'

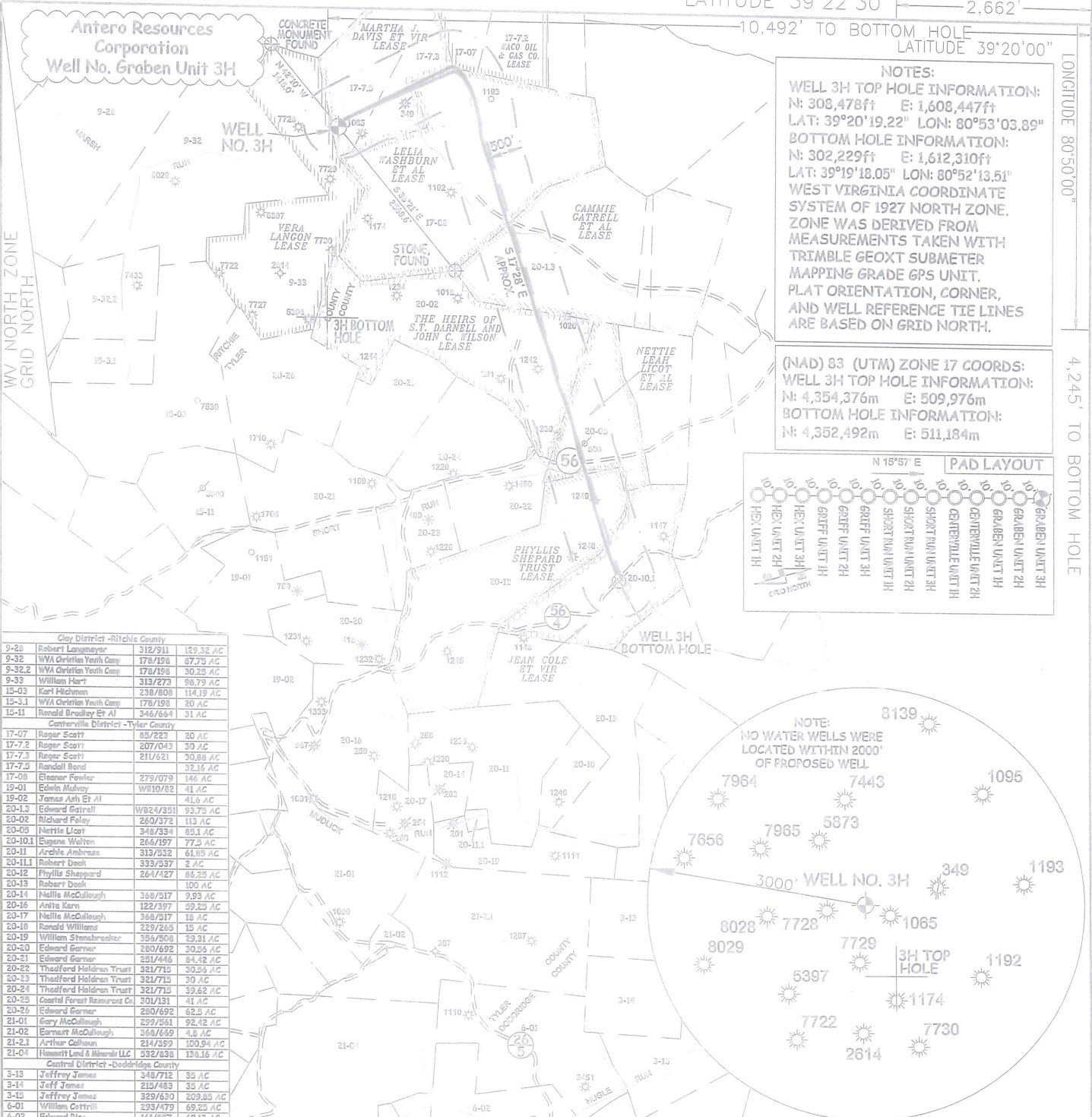
10,492' TO BOTTOM HOLE
LATITUDE 39°20'00"

LONGITUDE 80°50'00"

4,245' TO BOTTOM HOLE

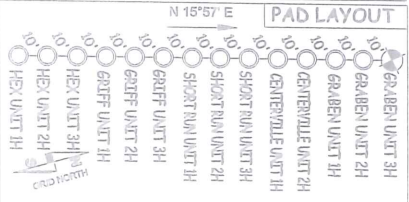
13,232'

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: 302,229ft E: 1,612,310ft
 LAT: 39°19'18.05" LON: 80°52'13.51"
 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: 4,352,492m E: 511,184m



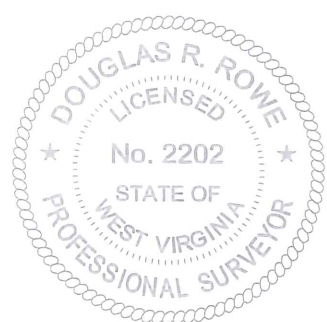
Clay District - Ritchie County		
9-20	Robert Langmeyer	312/911 129.32 AC
9-32	WVA Christian Youth Camp	178/198 87.73 AC
9-32.2	WVA Christian Youth Camp	178/198 30.25 AC
9-33	William Hart	313/273 98.79 AC
15-03	Karl Hichman	238/808 114.19 AC
15-3.1	WVA Christian Youth Camp	178/198 20 AC
15-11	Ronald Dravley Et Al	346/664 31 AC
Catherine District - Tyler County		
17-07	Roger Scott	85/223 20 AC
17-7.2	Roger Scott	207/043 30 AC
17-7.3	Roger Scott	211/621 30.88 AC
17-7.5	Randall Bond	32/16 AC
17-08	Eleanor Fowler	279/079 146 AC
19-01	Edwin Mahay	W810/82 41 AC
19-02	Jamaiah Et Al	41.6 AC
20-13	Edward Gairill	W824/351 93.75 AC
20-02	Richard Foley	260/372 113 AC
20-05	Nettie Licot	348/334 81.1 AC
20-10.1	Eugene Walton	264/197 77.5 AC
20-11	Archie Ambrose	313/332 61.85 AC
20-11.1	Robert Deak	333/337 2 AC
20-12	Phyllis Shepard	264/427 86.25 AC
20-13	Robert Deak	100 AC
20-14	Nellie McCullough	368/517 9.95 AC
20-16	Anita Kern	122/397 29.25 AC
20-17	Nellie McCullough	368/517 18 AC
20-18	Ronald Williams	229/265 15 AC
20-19	William Stensbraker	386/508 29.31 AC
20-20	Edward Garner	260/692 30.35 AC
20-21	Edward Garner	251/446 84.42 AC
20-22	Thadford Holdman Trust	321/715 30.55 AC
20-23	Thadford Holdman Trust	321/715 39 AC
20-24	Thadford Holdman Trust	321/715 39.62 AC
20-25	Coastal Forest Resources Co	301/131 41 AC
20-26	Edward Garner	260/692 62.5 AC
21-01	Gary McCullough	239/361 92.42 AC
21-02	Earnest McCullough	368/669 4.6 AC
21-2.1	Arthur Colman	214/359 100.94 AC
21-04	Hessert Land & Minerals LLC	332/638 138.16 AC
Central District - Doddridge County		
3-13	Jeffrey James	348/712 35 AC
3-14	Jeff James	215/483 35 AC
3-15	Jeffrey James	329/630 209.85 AC
6-01	William Cottrill	293/479 69.25 AC
6-02	Edward Rice	161/657 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.

- NOTES:**
- 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.
 - TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALECHEVY SURVEYS, INC.
 - AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
 - 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.
 - WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415



JOB # 17-010WA
 DRAWING # GRABEN3H
 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 +/-
 - - - - - Proposed Well Path
 - - - - - As Drilled Well Path

DATE 06/03/19
 OPERATOR'S WELL# GRABEN UNIT #3H

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 - 085 - 10336
 (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X STATE COUNTY PERMIT
 LOCATION: ELEVATION 1,250' AS BUILT 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; WACO OIL AND GAS CO.; LEASE ACREAGE 70 AC±; 150 AC±; 50 AC±; CAMMIE GATRELL ET AL; THE HEIRS OF S.T. DARNELL AND JOHN C. WILSON; NETTIE LEAH LICOT ET AL; 139.75 AC±; 113 AC±; 43 AC±; PHYLLIS SHEPARD TRUST; JEAN COLE ET VIR 86.25 AC±; 77.5 AC±
 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 PLUG & ABANDON CLEAN OUT & REPLUG
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,684' TVD 14,059' 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