

LATITUDE 39°27'30"

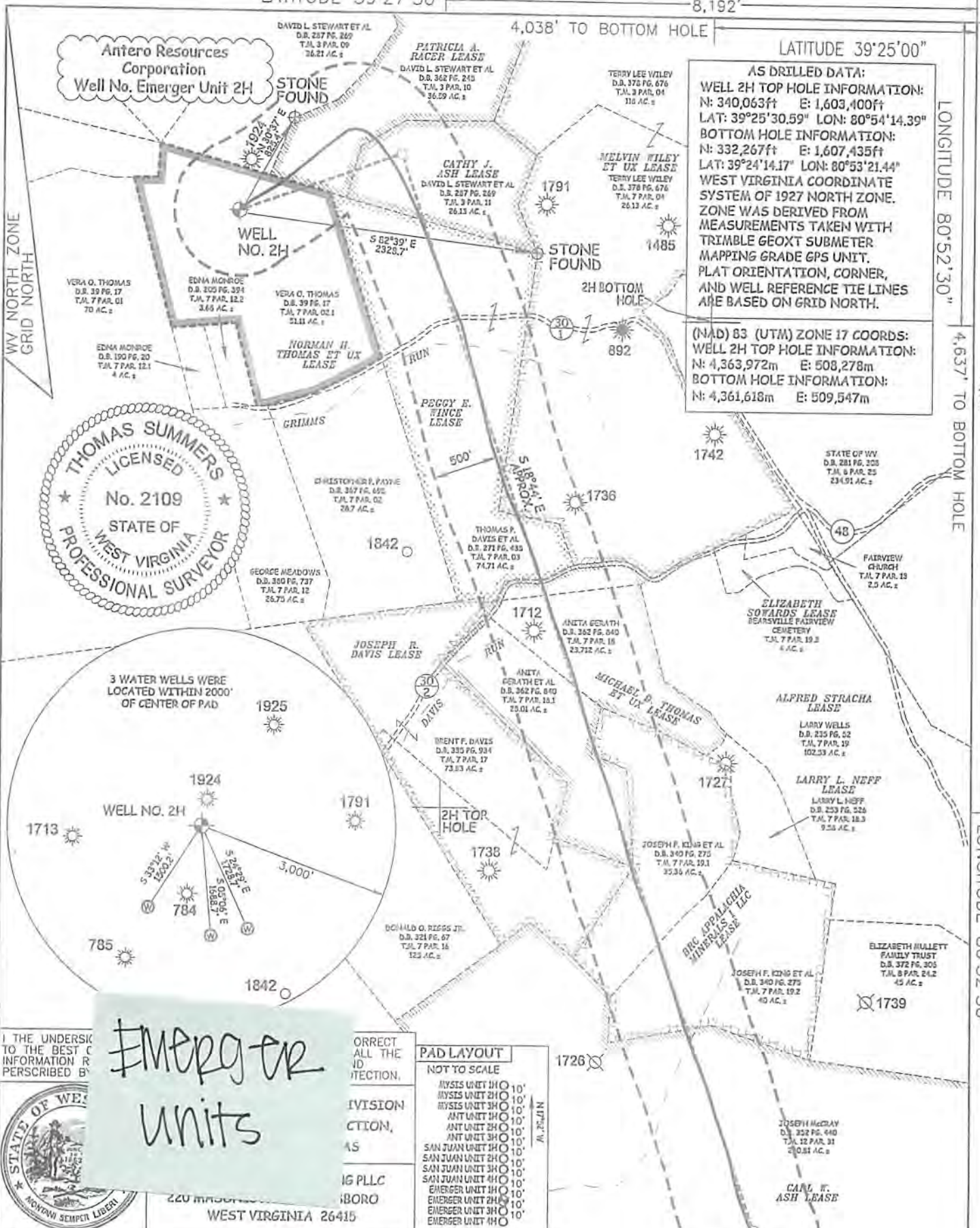
8,192'

LATITUDE 39°25'00"

LONGITUDE 80°52'30"

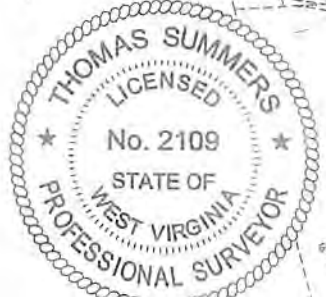
12,082'

LONGITUDE 80°52'30"



**AS DRILLED DATA:**  
**WELL 2H TOP HOLE INFORMATION:**  
 N: 340,063ft E: 1,603,400ft  
 LAT: 39°25'30.59" LON: 80°54'14.39"  
**BOTTOM HOLE INFORMATION:**  
 N: 332,267ft E: 1,607,435ft  
 LAT: 39°24'14.17" LON: 80°53'21.44"  
 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 2H TOP HOLE INFORMATION:**  
 N: 4,363,972m E: 508,278m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,361,618m E: 509,547m



3 WATER WELLS WERE LOCATED WITHIN 2000' OF CENTER OF PAD



**Emerger units**

THE UNDERSIGNED HAS THE BEST INFORMATION RECORDED AND DESCRIBED BY



WEST VIRGINIA 26415

CORRECT ALL THE INFORMATION

DIVISION OF OIL AND GAS

REGISTRATION BOARD

**PAD LAYOUT**

- NOT TO SCALE
- EMERGER UNIT 1H
- EMERGER UNIT 2H
- EMERGER UNIT 3H
- EMERGER UNIT 4H
- EMERGER UNIT 5H
- EMERGER UNIT 6H
- EMERGER UNIT 7H
- EMERGER UNIT 8H
- EMERGER UNIT 9H
- EMERGER UNIT 10H
- EMERGER UNIT 11H
- EMERGER UNIT 12H
- EMERGER UNIT 13H
- EMERGER UNIT 14H
- EMERGER UNIT 15H
- EMERGER UNIT 16H
- EMERGER UNIT 17H
- EMERGER UNIT 18H
- EMERGER UNIT 19H
- EMERGER UNIT 20H

JOB # 16-020WA  
 DRAWING # EMERGER2HAD  
 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

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

THOMAS SUMMERS P.S. 2109  
 DATE 10/12/18  
 OPERATOR'S WELL# EMERGER UNIT #2H

**NOTES**  
 1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HERDSMANRY 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 ALLEGHANY 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.

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  47 - 095 - 02378  
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW  STATE COUNTY PERMIT  
 LOCATION: ELEVATION 1,148.1 AS BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK  
 QUADRANGLE MIDDLEBOURNE 7.5' DISTRICT CENTERVILLE COUNTY TYLER  
 SURFACE OWNER VERA O. THOMAS ACREAGE 51.11 ACRES +/-  
 OIL & GAS ROYALTY OWNER NORMAN H. THOMAS ET UX; PATRICIA A. RACER; CATHY J. ASH; LEASE ACREAGE 125 AC.±; 36.59 AC.±; 30 AC.±;  
 PEGGY E. WINCE; MELVIN WILEY ET UX; MICHAEL D. THOMAS ET UX; JOSEPH R. DAVIS; BRC APPALACHIA MINERALS I LLC; CARL W. ASH 74.71 AC.±; 553.16 AC.±; 48.13 AC.±; 73.83 AC.±; 79.74 AC.±; 352.8 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  
 TARGET FORMATION MARCELLUS PLUG & ABANDON CLEAN OUT & REPLUG  
 WELL OPERATOR ANTERO RESOURCES CORP. ESTIMATED DEPTH 6,581' TVD 15,610' MD  
 ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD  
 DENVER, CO 80202 CHARLESTON, WV 25313