

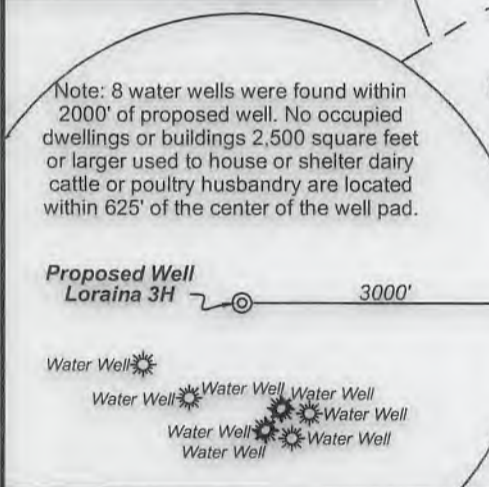
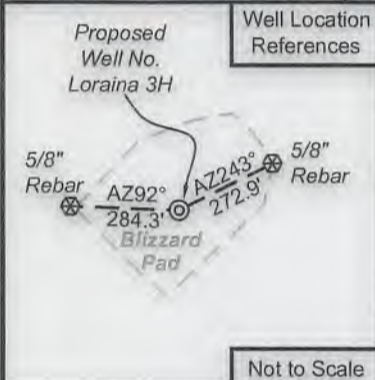
**Antero Resources  
Well No. Loraina 3H**

Antero Resources Corporation



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 prescribed by the Department of Environmental Protection.

*Bradley D. Miller*  
**Bradley D. Miller, P.S. 2167**



**Legend**

- ⊙ Proposed gas well
- ⊗ Found corner, as noted
- ☀ Existing Well, as noted
- ☀ Digitized Well
- Existing Road
- Surface boundary (approx.)
- - - Interior surface tracts (approx.)

5,013' to Top Hole

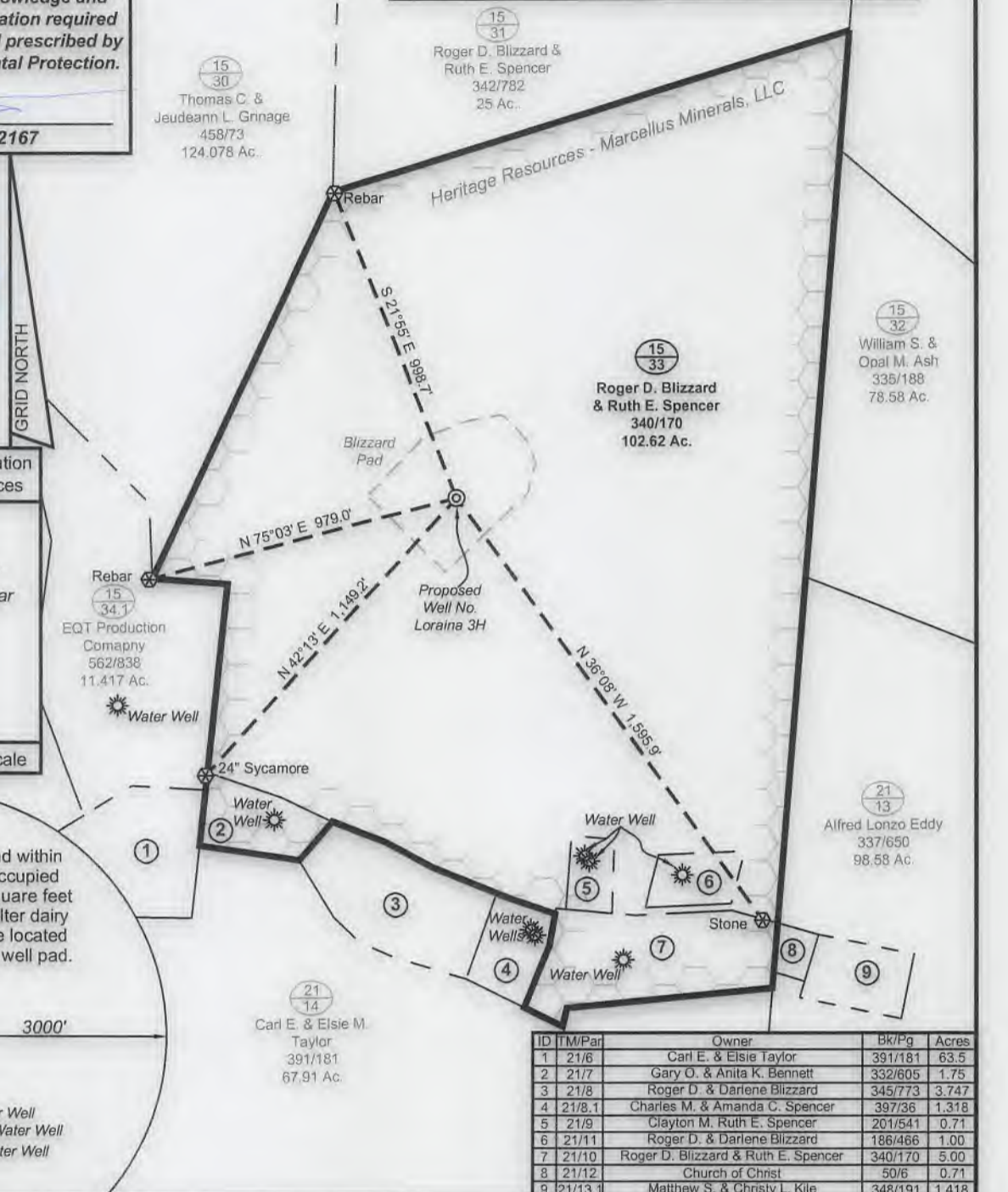
LATITUDE 39 - 30 - 00

LONGITUDE 80 - 50 - 00

7.5' Spot

**Notes:**  
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
Well No. Loraina 3H coordinates are  
N: 366,506.81' Latitude: 39°29'54.26"  
E: 1,618,751.37' Longitude: 80°51'03.85"  
UTM Zone 17, NAD 1983 UTM Zone 17, NAD 1927  
Top Hole Coordinates N: 4,372,106.879m E: 512,819.952m  
Top Hole Coordinates N: 14,343,439.52' E: 1,682,429.39'

Plat orientation and corner and well references are based upon the grid north meridian.  
Well location references are based upon the magnetic meridian.



| ID | Tract   | Owner                               | Bk/Pg   | Acres |
|----|---------|-------------------------------------|---------|-------|
| 1  | 21/6    | Carl E. & Elsie Taylor              | 391/181 | 63.5  |
| 2  | 21/7    | Gary O. & Anita K. Bennett          | 332/605 | 1.75  |
| 3  | 21/8    | Roger D. & Darlene Blizzard         | 345/773 | 3.747 |
| 4  | 21/8.1  | Charles M. & Amanda C. Spencer      | 397/36  | 1.318 |
| 5  | 21/9    | Clayton M. Ruth E. Spencer          | 201/541 | 0.71  |
| 6  | 21/11   | Roger D. & Darlene Blizzard         | 186/466 | 1.00  |
| 7  | 21/10   | Roger D. Blizzard & Ruth E. Spencer | 340/170 | 5.00  |
| 8  | 21/12   | Church of Christ                    | 50/6    | 0.71  |
| 9  | 21/13.1 | Matthew S. & Christy L. Kile        | 348/191 | 1.418 |

FILE NO: 43-54-E-19  
DRAWING NO: Loraina 3H Well Plat  
SCALE: 1" = 500'  
MINIMUM DEGREE OF ACCURACY: Submeter  
PROVEN SOURCE OF ELEVATION: WV DOT, Harrisville, WV

**STATE OF WEST VIRGINIA**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**OIL AND GAS DIVISION**

DATE: April 9 2019  
OPERATOR'S WELL NO. Loraina 3H  
API WELL NO  
47 - 095 - 02620  
STATE COUNTY PERMIT

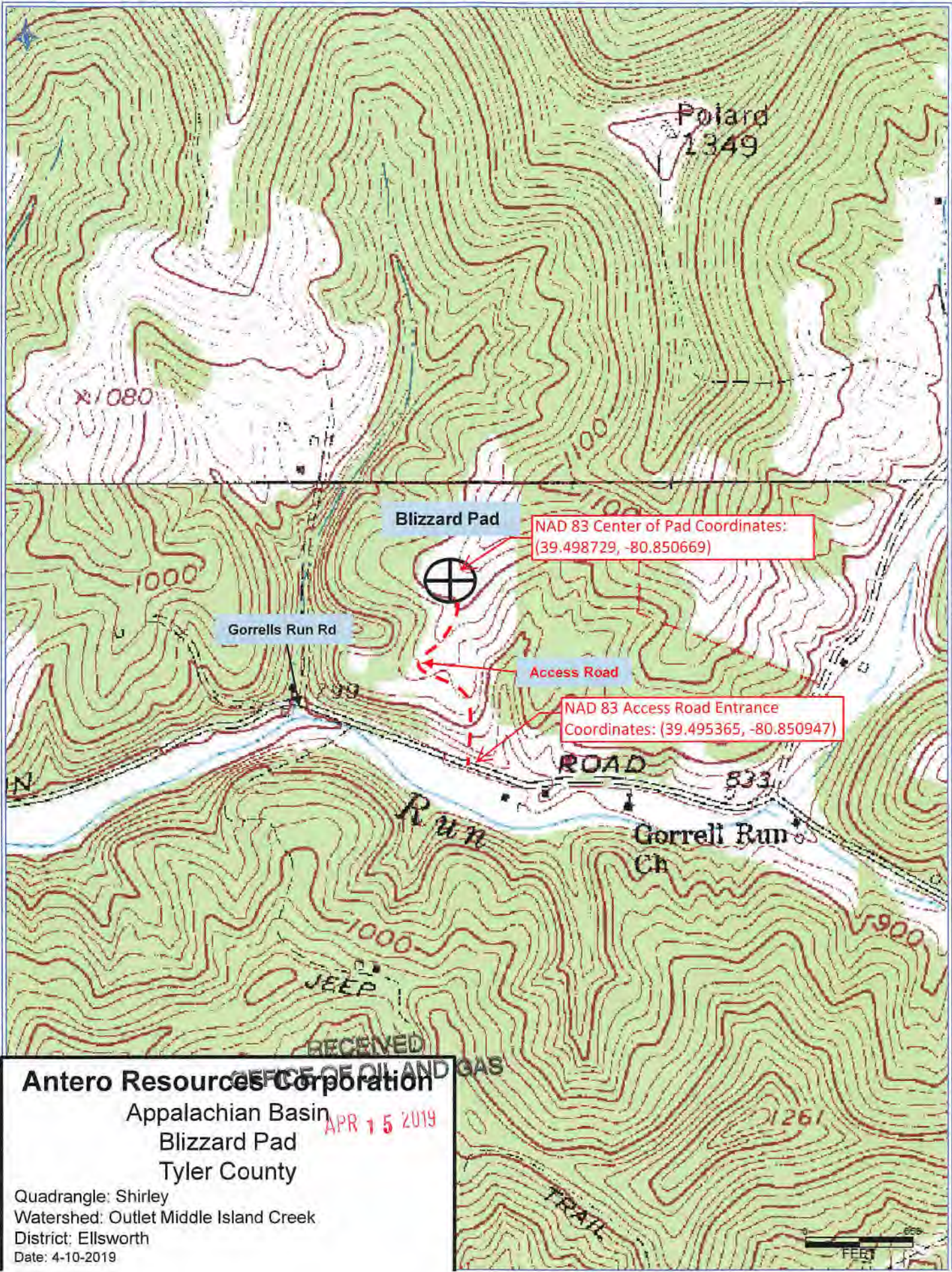
WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION: As-Built 1,004' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Shirley  
DISTRICT: Ellsworth COUNTY: Tyler

SURFACE OWNER: Roger D. Blizzard & Ruth E. Spencer ACREAGE: 102.62  
ROYALTY OWNER: Heritage Resources - Marcellus Minerals, LLC LEASE NO: ACREAGE: 90.168  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,000' TVD 7,000' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System  
ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road  
Denver, CO 80202 Charleston, WV 25313





**Antero Resources Corporation**  
 Appalachian Basin  
 Blizzard Pad  
 Tyler County

APR 15 2019

Quadrangle: Shirley  
 Watershed: Outlet Middle Island Creek  
 District: Ellsworth  
 Date: 4-10-2019

RECEIVED  
 OFFICE OF OIL AND GAS