

LATITUDE 39°27'30" 3,190'

LATITUDE 39°25'00"

LONGITUDE 80°55'00"

11,734' TO BOTTOM HOLE

15,065'

LONGITUDE 80°57'30"

COUNTY NAME

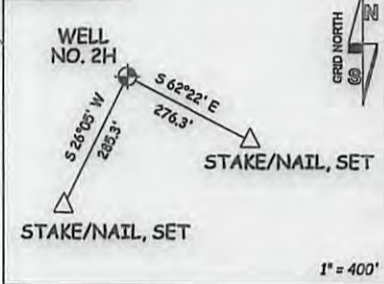
PERMIT

Antero Resources Corporation  
Well No. Carse Unit 2H

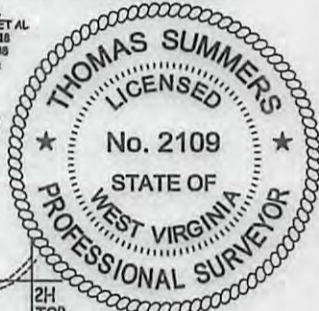
NOTES:  
 WELL 2H TOP HOLE INFORMATION:  
 N: 337,376ft E: 1,584,815ft  
 LAT: 39°25'01.10" LON: 80°58'10.65"  
 BOTTOM HOLE INFORMATION:  
 N: 325,475ft E: 1,588,126ft  
 LAT: 39°23'04.02" LON: 80°57'26.00"  
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN 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: 4,363,059m E: 502,629m  
 BOTTOM HOLE INFORMATION:  
 N: 4,359,450m E: 503,699m

REFERENCES

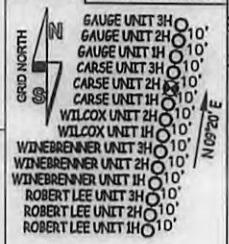


NOTE  
 NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.

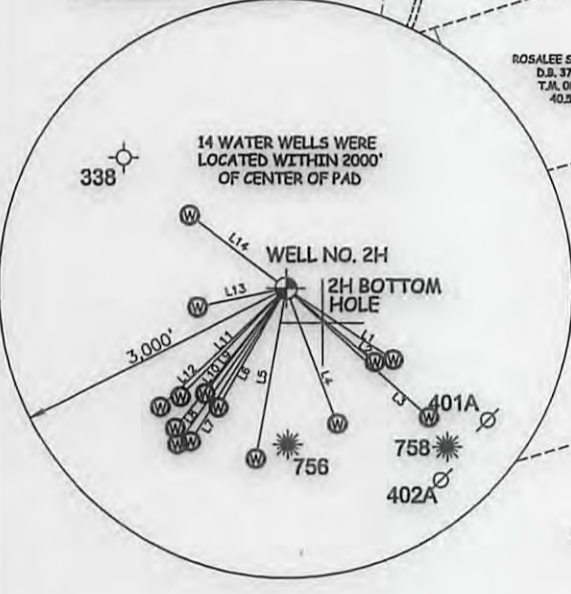


(NAD) 27 (UTM) ZONE 17 COORDS:  
 WELL 2H TOP HOLE INFORMATION:  
 N: 14,313,757ft E: 1,648,995ft  
 POINT OF ENTRY INFORMATION:  
 N: 14,313,542ft E: 1,648,328ft  
 BOTTOM HOLE INFORMATION:  
 N: 14,301,917ft E: 1,652,504ft

PAD LAYOUT



LINE	BEARING	DISTANCE
L1	S 58°56' E	1337.0'
L2	S 50°46' E	1198.0'
L3	S 48°14' E	1093.3'
L4	S 20°46' E	1496.0'
L5	S 10°14' W	1788.2'
L6	S 29°59' W	1421.0'
L7	S 32°14' W	1078.9'
L8	S 35°09' W	1078.9'
L9	S 37°56' W	1381.3'
L10	S 39°43' W	1658.1'
L11	S 44°37' W	1574.9'
L12	S 48°58' W	1691.2'
L13	S 78°16' W	945.7'
L14	N 53°07' W	1259.7'



47 - 095 - 02444 H6A  
 STATE COUNTY PERMIT

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.

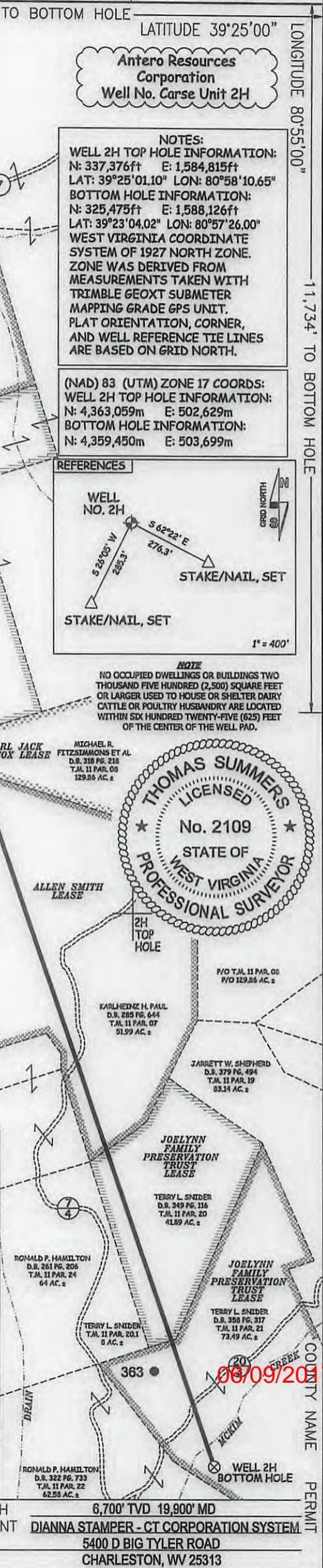


STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WILLOW LAND SURVEYING PLLC  
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

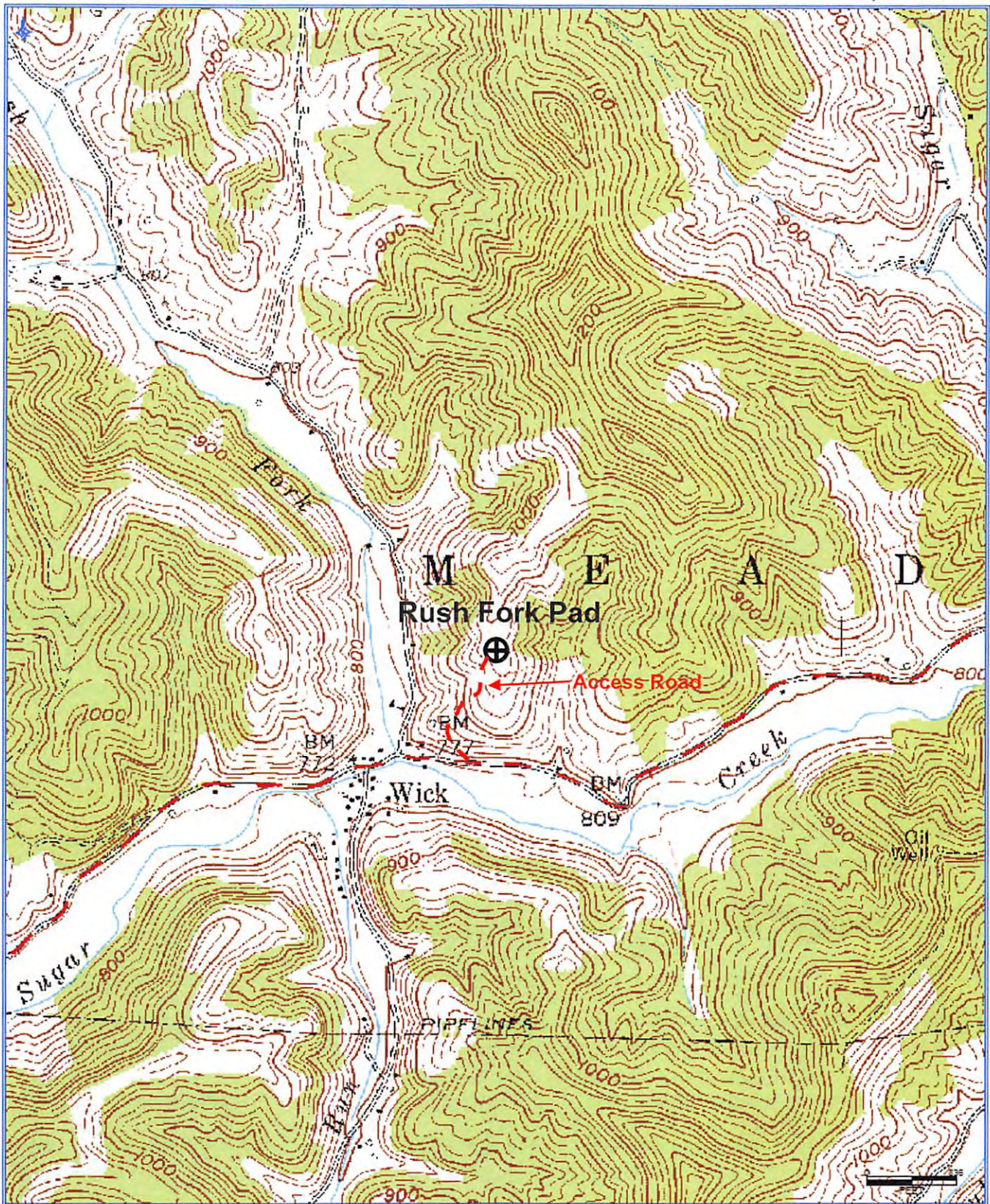
JOB # 17-022WA  
 DRAWING # CARSE2H  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY SUBMETER  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS  
 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND  
 - - - - - Surface Owner Boundary Lines +/-  
 - - - - - Interior Surface Tracts +/-  
 - - - - - Existing Fence  
 ⊕ Found monument, as noted  
 THOMAS SUMMERS P.S. 2109  
 DATE 03/20/17  
 OPERATOR'S WELL# CARSE UNIT #2H

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL  
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X  
 LOCATION: ELEVATION 1,000' - ORIGINAL 986' - PROPOSED WATERSHED OUTLET MIDDLE ISLAND CREEK  
 QUADRANGLE MIDDLEBOURNE 7.5' DISTRICT MEADE COUNTY TYLER  
 SURFACE OWNER JOSEPH R. RYMER JR. ACREAGE 44.33 ACRES +/-  
 OIL & GAS ROYALTY OWNER HOWARD HARCHA III, BRENDA MAYS, KERR-MCGEE OIL & GAS ONSHORE LP, FORREST LEASE ACREAGE 44.33 AC +/- 3.21 AC +/- 23.97 AC +/- 14.80 AC +/-  
 MILLER-KENNETH JONES, CARL JACK WILCOX, ALLEN SMITH, JOELYNN FAMILY PRESERVATION TRUST, JOELYNN FAMILY PRESERVATION TRUST 65.5 AC +/- 129.86 AC +/- 149.18 AC +/- 41.89 AC +/- 73.49 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 6,700' TVD 19,900' MD  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM  
 ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD  
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313



06/09/2017



**Antero Resources Corporation**  
Appalachian Basin  
Carse Unit 2H  
Tyler County

Quadrangle: Middlebourne  
Watershed: Outlet Middle Island Creek  
District: Meade  
Date: 3-14-2017

06/09/2017