

LATITUDE 39°25'00"

9,812'

LATITUDE 39°22'30"

5,859' TO BOTTOM HOLE

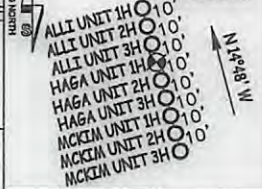
# Antero Resources Corporation Well No. Haga Unit 1H

**NOTES:**  
**WELL 1H TOP HOLE INFORMATION:**  
 N: 325,833ft E: 1,589,783ft  
 LAT: 39°23'07.83" LON: 80°57'04.97"  
**BOTTOM HOLE INFORMATION:**  
 N: 313,480ft E: 1,593,542ft  
 LAT: 39°21'06.33" LON: 80°56'14.59"  
 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 1H TOP HOLE INFORMATION:**  
 N: 4,359,568m E: 504,202m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,355,824m E: 505,410m

**(NAD) 27 (UTM) ZONE 17 COORDS:**  
**WELL 1H TOP HOLE INFORMATION:**  
 N: 14,302,303ft E: 1,654,154ft  
**POINT OF ENTRY INFORMATION:**  
 N: 14,302,034ft E: 1,653,490ft  
**BOTTOM HOLE INFORMATION:**  
 N: 14,290,017ft E: 1,658,117ft

### PAD LAYOUT NOT TO SCALE



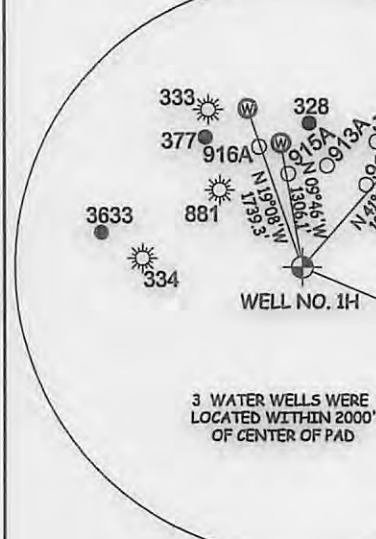
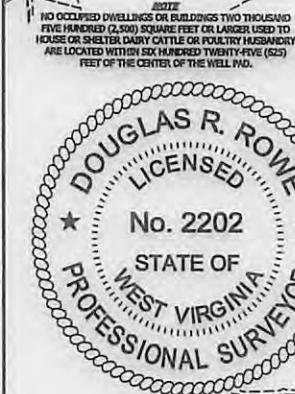
WV NORTH ZONE  
GRID NORTH

8,465' TO BOTTOM HOLE

1,349'

LONGITUDE 80°55'00"

LONGITUDE 80°55'00"



JOB # 16-062WA  
 DRAWING # HAGA1H  
 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

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.



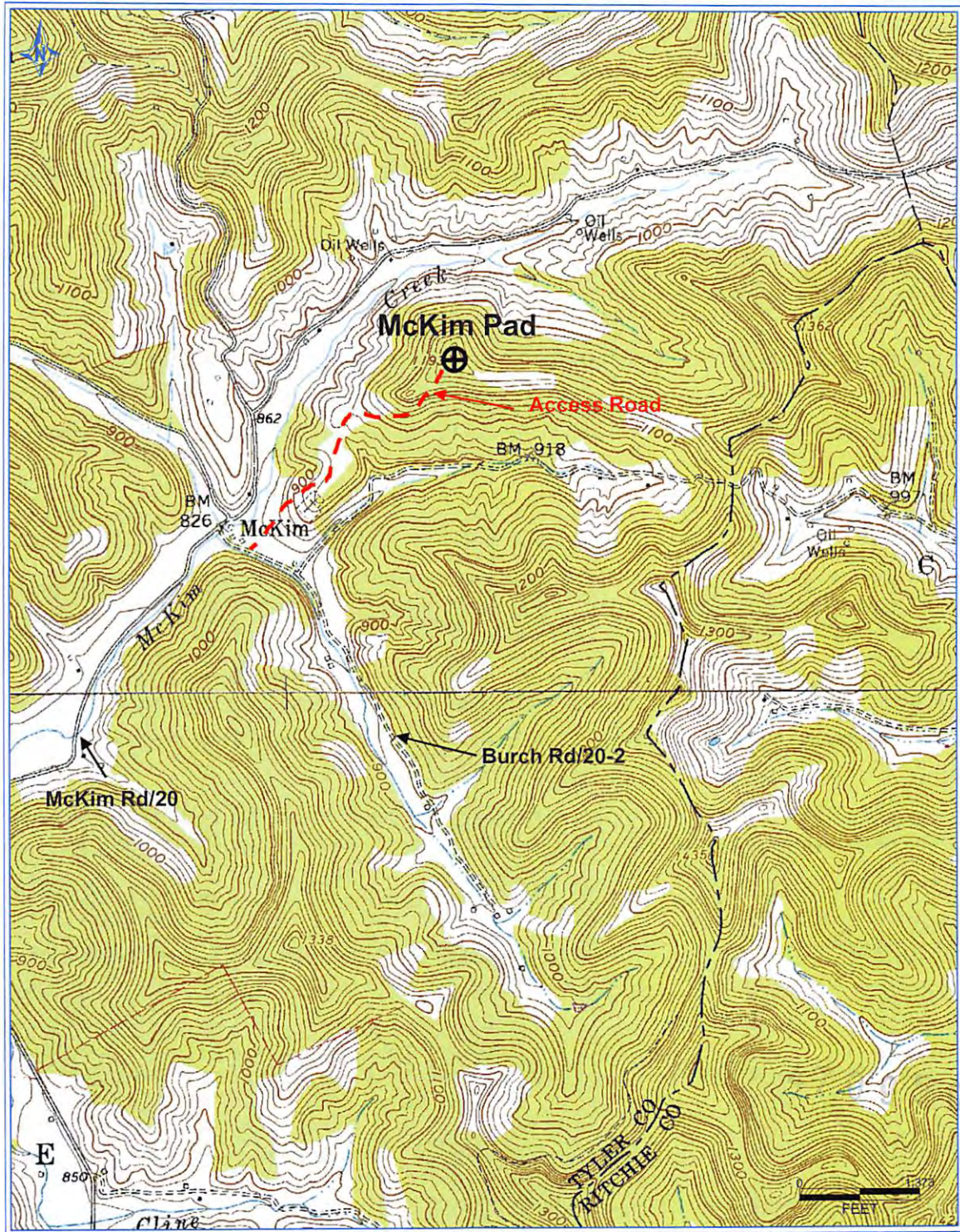
STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WILLOW LAND SURVEYING PLLC  
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

**LEGEND**  
 - - - - - Surface Owner Boundary Lines +/-  
 - - - - - Interior Surface Tracts +/-  
 - - - - - Existing Fence  
 ⊕ Found monument, as noted  
 DOUGLAS R. ROWE P.S. 2202  
 DATE 01/17/17  
 OPERATOR'S WELL# HAGA UNIT #1H

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1,208' - ORIGINAL 1,172' - PROPOSED WATERSHED OUTLET MIDDLE ISLAND CREEK  
 QUADRANGLE MIDDLEBOURNE 7.5' (TH) PENNSBORO 7.5' (BH) DISTRICT MEADE COUNTY TYLER  
 SURFACE OWNER JARRET W. SHEPHERD ET AL ACREAGE 83.14 ACRES +/-  
 OIL & GAS ROYALTY OWNER JOEYLYN FAMILY TRUST; RUTH M. HUFFORD; RALPH D. HACKER; HUNTERS INC.; LEASE ACREAGE 431.53 AC±; 93.78 AC±; 84.61 AC±; 471.20 AC±;  
 EVERETT MCCULLOUGH ET UX; EUGENE R. HILL TRUST; ALLIANCE PETROLEUM CORP.; BLANCHE STEWART; MARIANNA LEE MATTHEW; LELAH B. RICHMOND 188.72 AC±; 104.3 AC±; 87.15 AC±; 195 AC±; 16.75 AC±; 78 AC±;  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL   
 (SPECIFY) PLUG & ABANDON  CLEAN OUT & REPLUG   
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,500' TVD 20,000' 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

04/07/2017

CITY NAME PERMIT



2423

**Antero Resources Corporation**  
 Appalachian Basin  
 Haga Unit 1H  
 Tyler County  
 Quadrangle: Middlebourne  
 Watershed: Outlet Middle Island Creek  
 District: Meade  
 Date: 5-5-2016

Received  
 Office of Oil & Gas  
 FEB 10 2017

04/07/2017