

LATITUDE 39°20'00" 3,861'

5,238' TO BOTTOM HOLE  
LATITUDE 39°22'30"

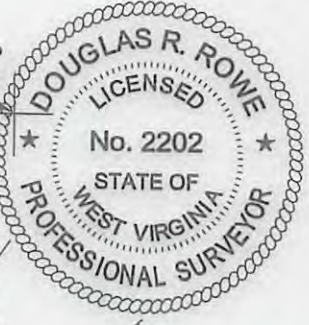
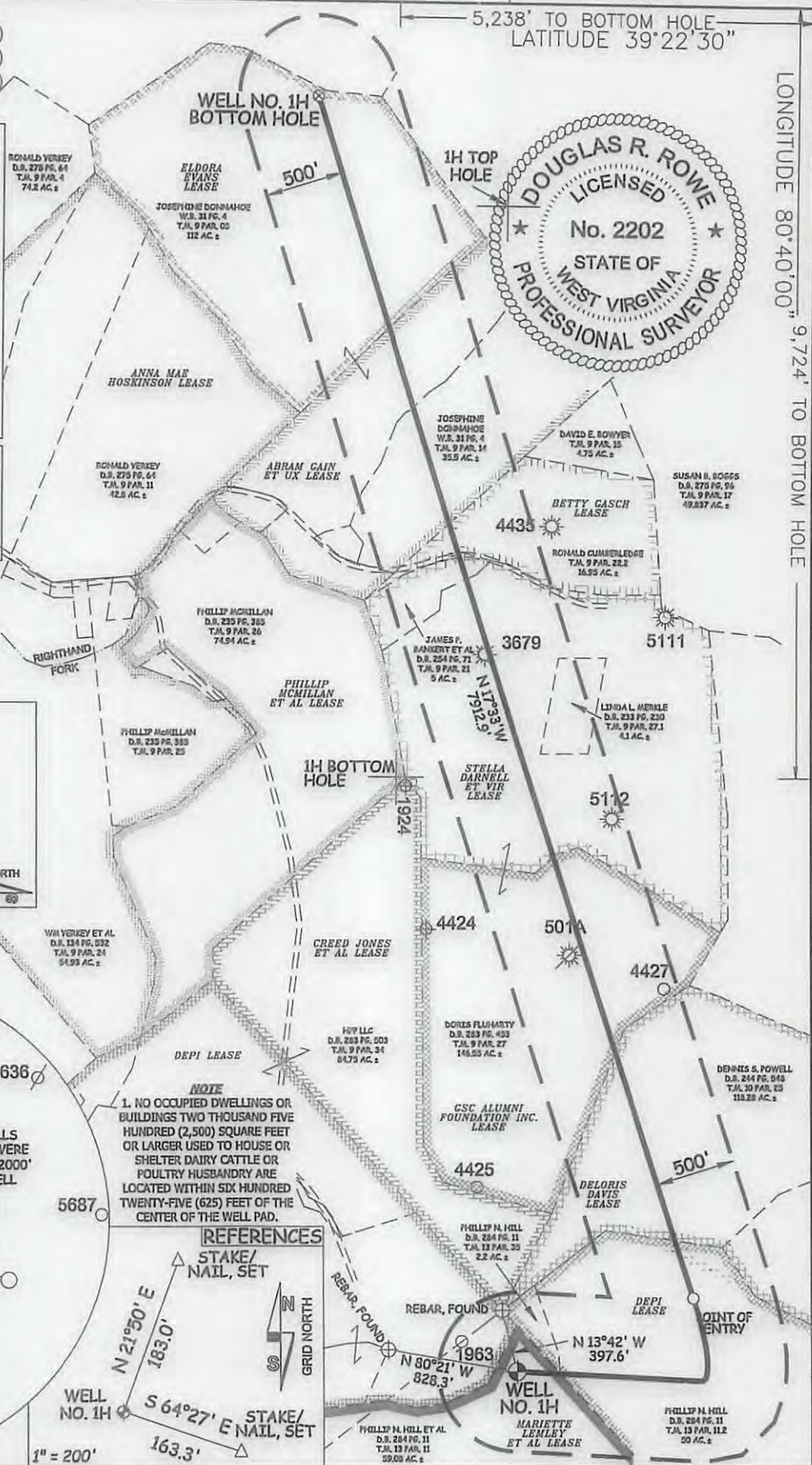
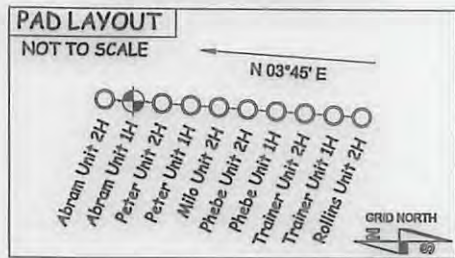
LONGITUDE 80°40'00" 9,724' TO BOTTOM HOLE  
LONGITUDE 80°40'00" 2,537'

### Antero Resources Corporation Well No. Abram Unit 1H

**NOTES:**  
**WELL 1H TOP HOLE INFORMATION:**  
 N: 303,174ft E: 1,666,109ft  
 LAT: 39°19'34.93" LON: 80°40'49.13"  
**BOTTOM HOLE INFORMATION:**  
 N: 311,180ft E: 1,664,836ft  
 LAT: 39°20'53.89" LON: 80°41'06.68"  
 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: 4,353,053m E: 527,570m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,355,486m E: 527,141m

**(NAD) 27 (UTM) ZONE 17 COORDS:**  
**WELL 1H TOP HOLE INFORMATION:**  
 N: 14,280,927ft E: 1,730,821ft  
**POINT OF ENTRY INFORMATION:**  
 N: 14,281,407ft E: 1,731,925ft  
**BOTTOM HOLE INFORMATION:**  
 N: 14,288,908ft E: 1,729,414ft



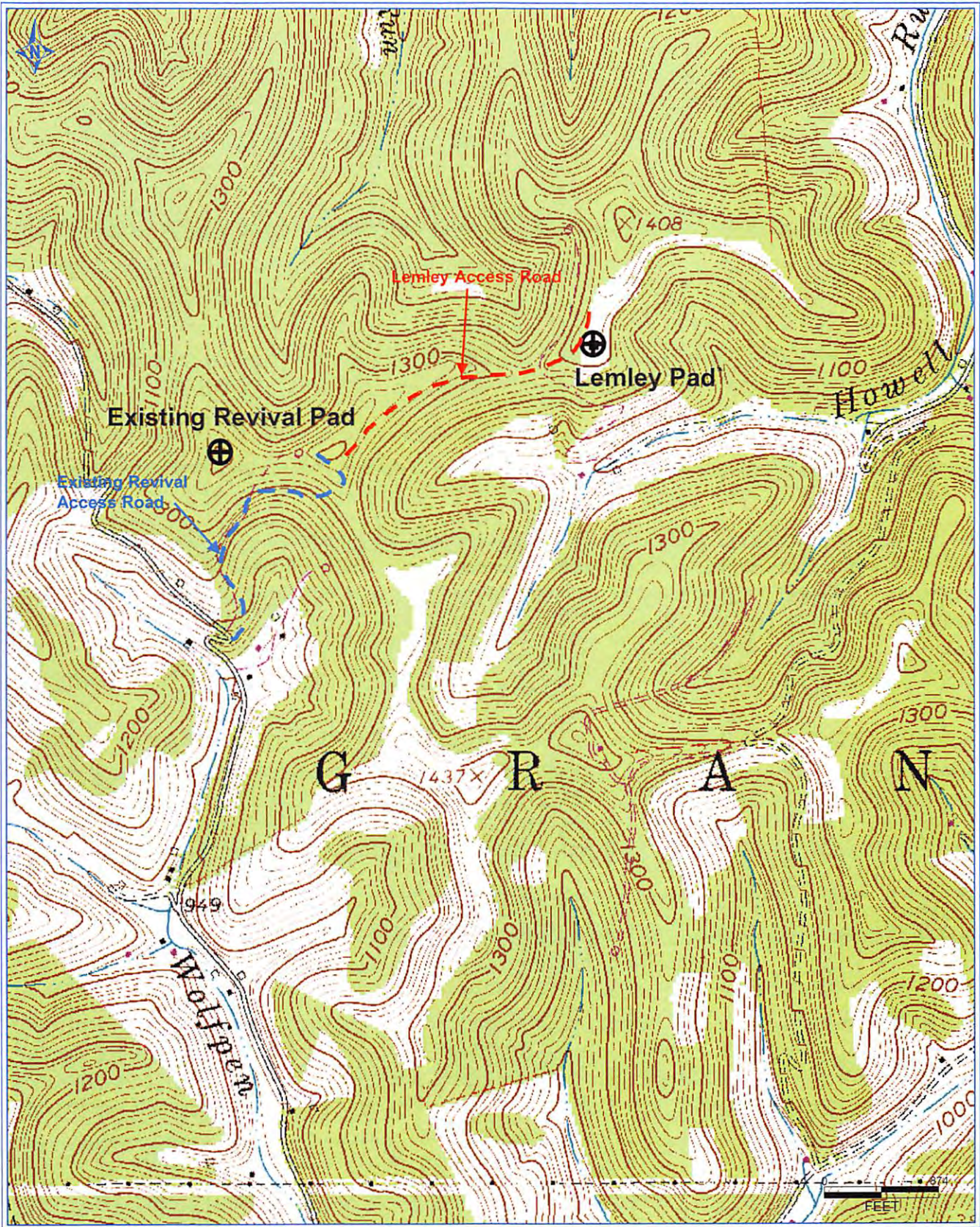
STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WILLOW LAND SURVEYING PLLC  
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

**LEGEND**  
 — Surface Owner Boundary Lines +/-  
 - - - Interior Surface Tracts +/-  
 ⊕ Existing Fence  
 ⊙ Found monument, as noted

DOUGLAS R. ROWE P.S. 2202  
 DATE 8/9/17  
 OPERATOR'S WELL# ABRAM UNIT #1H  
 API WELL # 47 - 017 - 06864  
 STATE COUNTY PERMIT

JOB # 17-030WA  
 DRAWING # ABRAM1H  
 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  
 WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL  
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X  
 LOCATION: ELEVATION 1,304' AS BUILT - 1,324' ORIGINAL WATERSHED MCELROY CREEK  
 QUADRANGLE SMITHBURG 7.5' DISTRICT GRANT COUNTY DODDRISE  
 SURFACE OWNER PHILLIP N. HILL ET AL ACREAGE 59.08 ACRES +/-  
 OIL & GAS ROYALTY OWNER MARIETTE LEMLEY ET AL; DEPI; DELORIS DAVIS; GSC ALUMNI FOUNDATION INC.; STELLA DARNELL ET VIR; BETTY GASCH; ABRAM GAIN ET UX; ELDORA EVANS  
 LEASE ACREAGE 66.87 AC±; 50 AC±; 158.4 AC±; 61.4 AC±; 112 AC±; 19 AC±; 85 AC±; 74 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)  
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,400' TVD 16,300' MD  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
 DENVER, CO 80202 CHARLESTON, WV 25313

10/06/2017



**Antero Resources Corporation**

Appalachian Basin

Abram Unit 1H

Doddridge County

Quadrangle: Smithburg 7.5'

Watershed: McElroy Creek

District: Grant

Date: 8-04-2014

047-017-06864

10/06/2017

RECEIVED  
Office of Oil and Gas  
AUG 21 2017  
WV Department of  
Environmental Protection