

LATITUDE 39°15'00"

5,535'

1,574' TO BOTTOM HOLE

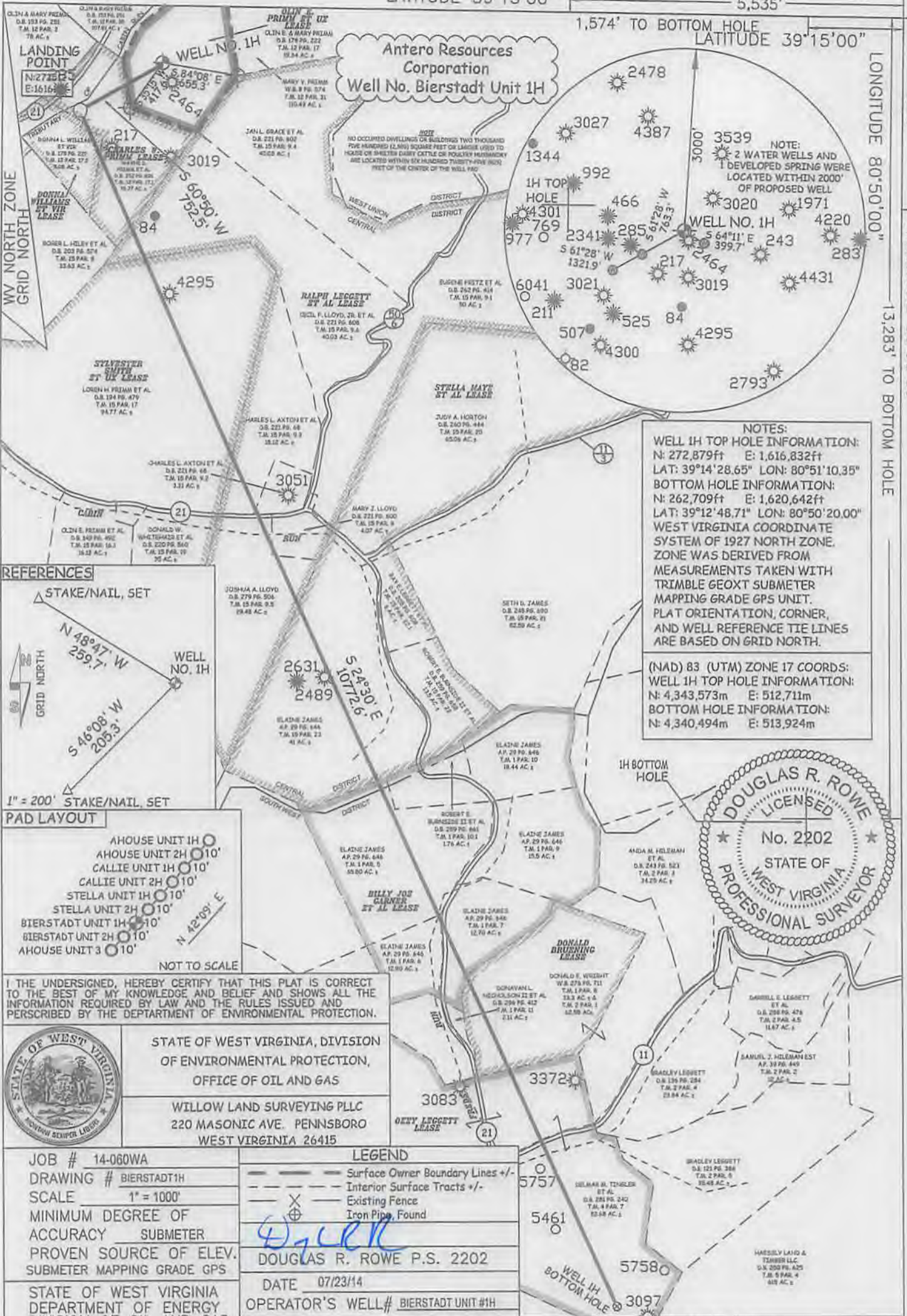
LATITUDE 39°15'00"

LONGITUDE 80°50'00"

3,172'

LONGITUDE 80°50'00"

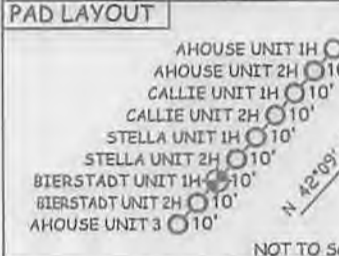
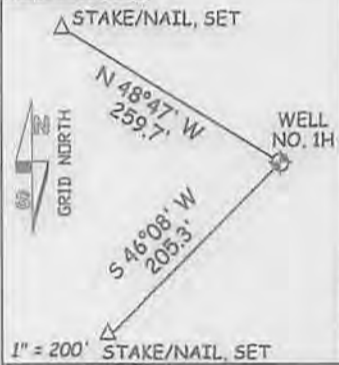
13,283' TO BOTTOM HOLE



NOTES:
 WELL 1H TOP HOLE INFORMATION:
 N: 272,879ft E: 1,616,832ft
 LAT: 39°14'28.65" LON: 80°51'10.35"
 BOTTOM HOLE INFORMATION:
 N: 262,709ft E: 1,620,642ft
 LAT: 39°12'48.71" LON: 80°50'20.00"
 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 1H TOP HOLE INFORMATION:
 N: 4,343,573m E: 512,711m
 BOTTOM HOLE INFORMATION:
 N: 4,340,494m E: 513,924m

REFERENCES



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 PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



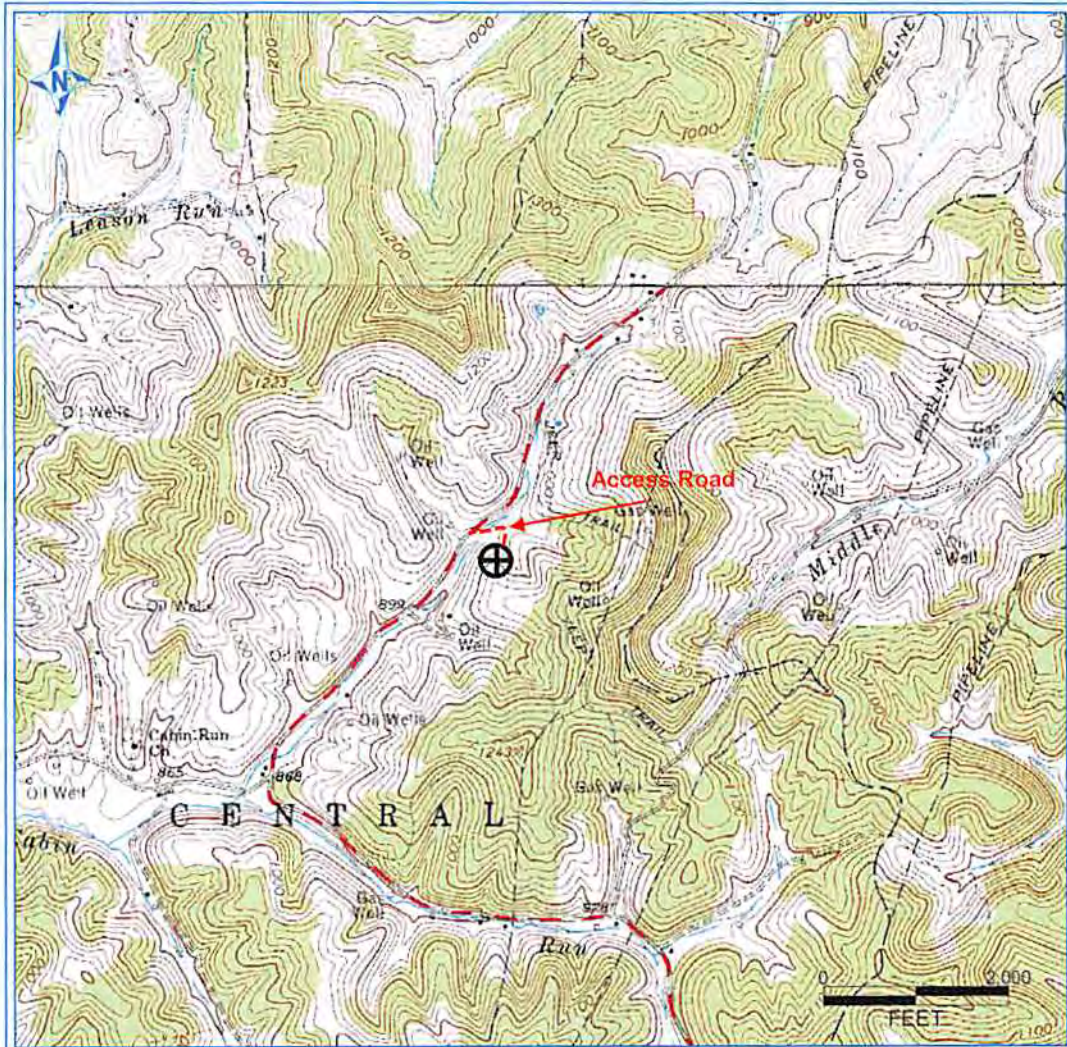
STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 14-060WA
 DRAWING # BIERSTADT1H
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND
 - - - Surface Owner Boundary Lines +/-
 - - - Interior Surface Tracts +/-
 X Existing Fence
 ⊕ Iron Pipe, Found

DOUGLAS R. ROWE P.S. 2202
 DATE 07/23/14
 OPERATOR'S WELL# BIERSTADT UNIT #1H

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
 WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL API WELL # 47 017 -06561HUA
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW STATE COUNTY PERMIT
 LOCATION: ELEVATION 1,008' WATERSHED TRIBUTARY OF CABIN RUN
 QUADRANGLE OXFORD 7.5' DISTRICT CENTRAL COUNTY DODDRIDGE
 SURFACE OWNER OLIN E. & MARY PRIMM ACREAGE 19.34 ACRES +/-
 OIL & GAS ROYALTY OWNER OLIN E. PRIMM ET UX; CHARLES W. PRIMM; DONNA WILLIAMS ET VIR; LEASE ACREAGE 19.34 ACRES+; 19.37 ACRES+; 11.25 ACRES+;
 RALPH L. LEGGETT ET AL; SYLVESTER SMITH ET UX; STELLA MAYE ET AL; BILLY JOE GARNER ET AL; DONALD BRUENING; OKEY LEGGETT 187 ACRES+; 210 ACRES+; 125.5 ACRES+; 83.79 ACRES+; 33.33 ACRES+; 141 ACRES+
 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 6,800' TVD 19,000' 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



PETRA 11/29/2012 4:07:45 PM

Antero Resources Corporation

APPALACHIAN BASIN

Bierstadt Unit 1H
Doddridge County



REMARKS
 QUADRANGLE: OXFORD
 WATERSHED: TRIB. OF CABIN RUN
 DISTRICT: CENTRAL

Date: 11/29/2012

RECEIVED

Office of Oil and Gas

JUL 28 2014

WV Department of
Environmental Protection