

LATITUDE 39°12'30"

6,908'

LATITUDE 39°10'00"

5,306' TO BOTTOM HOLE

LONGITUDE 80°52'30"

11,190' TO BOTTOM HOLE

12,963'

LONGITUDE 80°52'30"

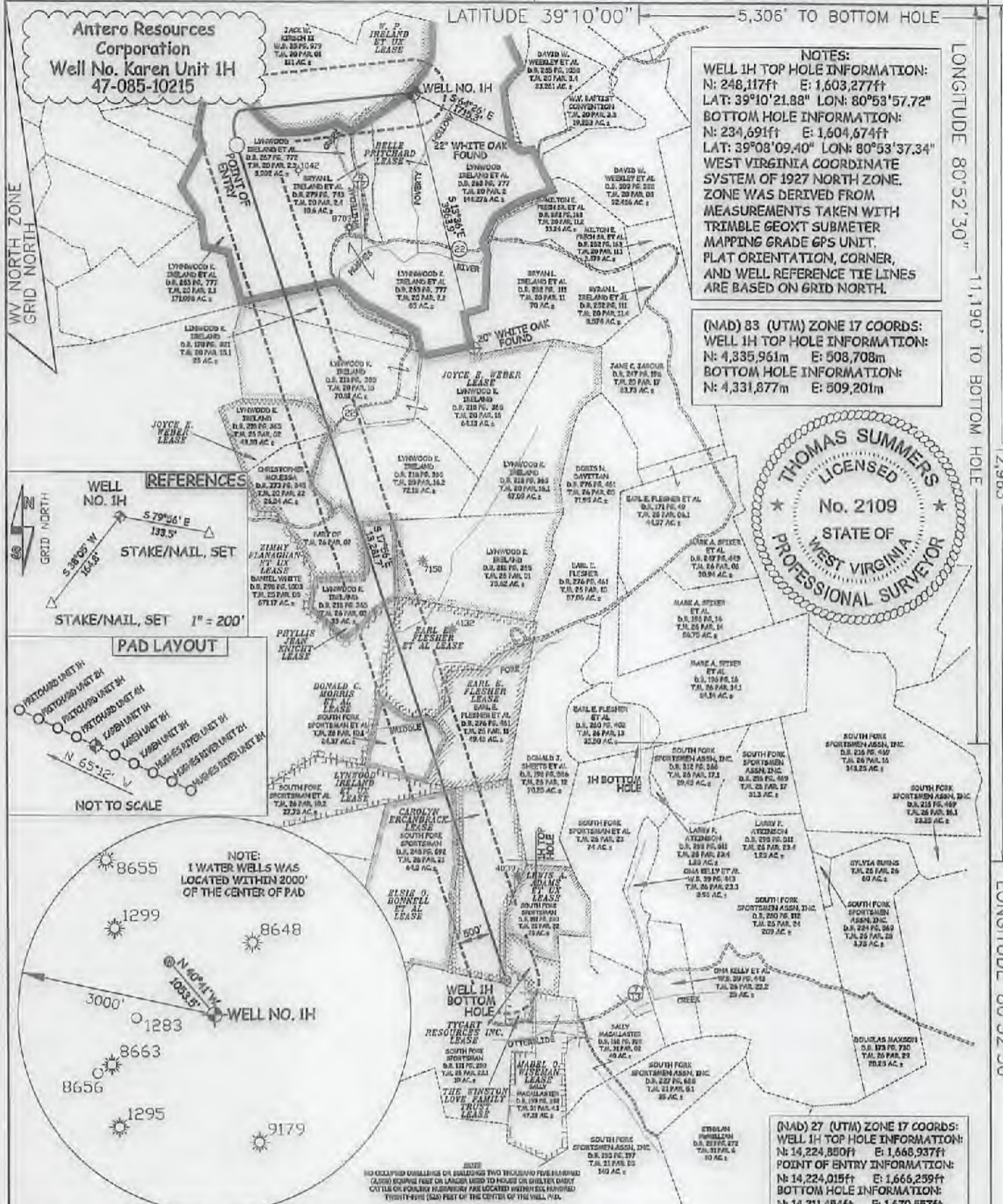
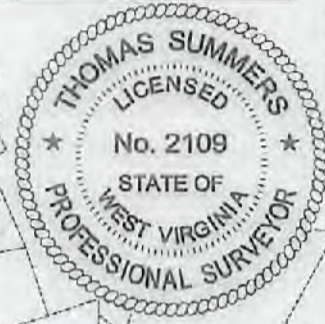
COUNTY NAME

PERMIT

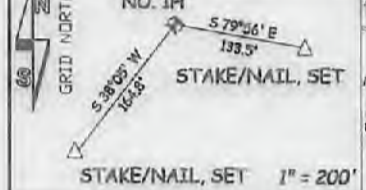
Antero Resources Corporation  
Well No. Karen Unit 1H  
47-085-10215

NOTES:  
WELL 1H TOP HOLE INFORMATION:  
N: 248,117ft E: 1,603,277ft  
LAT: 39°10'21.88" LON: 80°53'57.72"  
BOTTOM HOLE INFORMATION:  
N: 234,691ft E: 1,604,674ft  
LAT: 39°08'09.40" LON: 80°53'37.34"  
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE 6PS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

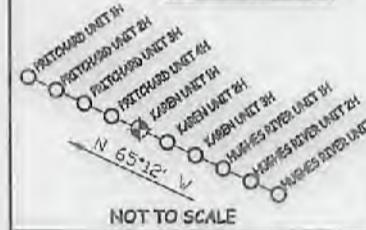
(NAD) 83 (UTM) ZONE 17 COORDS:  
WELL 1H TOP HOLE INFORMATION:  
N: 4,335,961m E: 508,708m  
BOTTOM HOLE INFORMATION:  
N: 4,331,877m E: 509,201m



REFERENCES



PAD LAYOUT



NOT TO SCALE



NOTE: 1 WATER WELLS WAS LOCATED WITHIN 2000' OF THE CENTER OF PAD

NO OCCUPIED CHALLENGE OR SURVEYING TWO THOUSAND FIVE HUNDRED (2,000) SQUARE FEET OR LARGER LEAS TO HOUSE OR SHEDS OR OTHER BARNY COTTAGE OR FURNITURE RESERVATION ARE LOCATED WITHIN SIX HUNDRED THIRTY-THREE (633) FEET OF THE CENTER OF THE WELL PAD.

(NAD) 27 (UTM) ZONE 17 COORDS:  
WELL 1H TOP HOLE INFORMATION:  
N: 14,224,850ft E: 1,668,937ft  
POINT OF ENTRY INFORMATION:  
N: 14,224,015ft E: 1,666,259ft  
BOTTOM HOLE INFORMATION:  
N: 14,211,454ft E: 1,670,557ft

JOB # 14-127WA  
DRAWING # KAREN1HR3  
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

THOMAS SUMMERS P.S. 2109  
DATE 06/26/18  
OPERATOR'S WELL# KAREN UNIT #1H

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL  
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X  
LOCATION: ELEVATION 945.5' AS BUILT WATERSHED SOUTH FORK HUGHES RIVER  
QUADRANGLE PULLMAN 7.5' DISTRICT UNION  
SURFACE OWNER LYNWOOD IRELAND ET AL  
OIL & GAS ROYALTY OWNER BELLE PRITCHARD; W. P. IRELAND ET UX; JOYCE E. WEBER; JOYCE E. WEBER; PHYLLIS JEAN KNIGHT; ZIMRY FLANAGHAN ET UX; EARL E. FLESHER ET AL; DONALD C. MORRIS ET AL  
EARL E. FLESHER; LYNWOOD IRELAND ET UX; ELSIE O. BONNELL; CAROLYN ERCANBRACK; THE WINSTON LOVE FAMILY TRUST  
PROPOSED WORK: DRILL CONVERT DRILL DEEPER X REDRILL FRACTURE OR STIMULATE X  
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL  
(SPECIFY) MOD-BHL PLUG & ABANDON CLEAN OUT & REPLUG  
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,800' TVD 23,300' MD  
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

API WELL # 47-085-10215  
STATE COUNTY PERMIT  
COUNTY RITCHIE  
ACREAGE 144.276 ACRES +/-  
LEASE ACREAGE 415 AC; 272 AC; 445.67 AC; 69.84 AC; 33 AC; 671.17 AC; 57 AC; 24.37 AC; 82 AC; 27.75 AC; 84.25 AC; 84.5 AC; 7.25 AC  
DATE 06/26/18  
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