

LATITUDE 39°12'30"

6,908'

LATITUDE 39°10'00"

4,991' TO BOTTOM HOLE

LONGITUDE 80°52'30"

9,341' TO BOTTOM HOLE

12,963'

LONGITUDE 80°52'30"

Antero Resources Corporation
Well No. Karen Unit 1H

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: 236,535ft E: 1,605,016ft
 LAT: 39°08'27.68" LON: 80°53'33.35"
 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: 4,335,961m E: 508,708m
 BOTTOM HOLE INFORMATION:
 N: 4,332,441m E: 509,296m

LEGEND

- Surface Owner Boundary Lines +/-
- - - Interior Surface Tracts +/-
- - - Existing Fence
- ⊗ Found monument, as noted

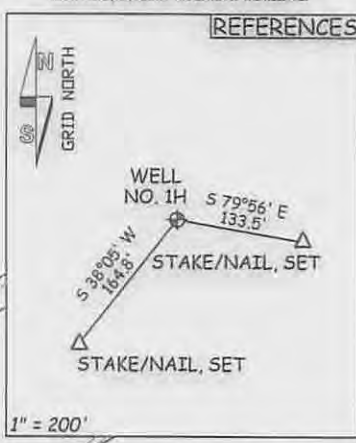
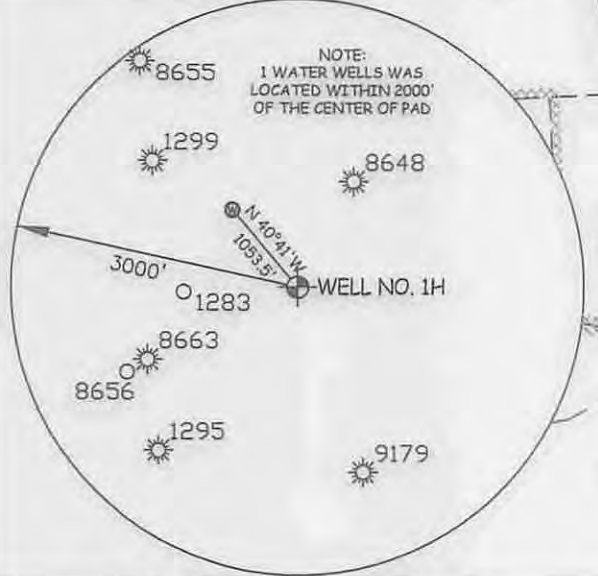
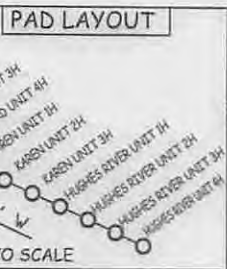
DOUGLAS R. ROWE P.S. 2202

DATE 04/23/15
 OPERATOR'S WELL# KAREN UNIT #1H

API WELL # 47 - 085 - 10215 WGA
 STATE COUNTY PERMIT

JOB # 14-127WA
 DRAWING # KAREN1H
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

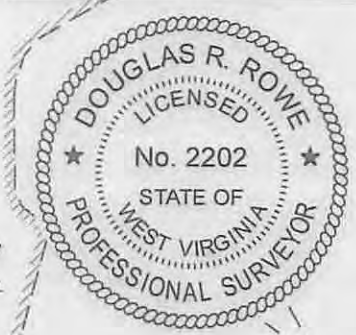
STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 DIVISION OF OIL AND GAS



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

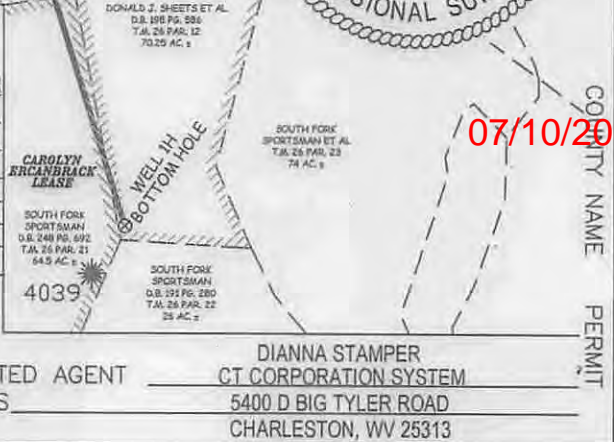


WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW

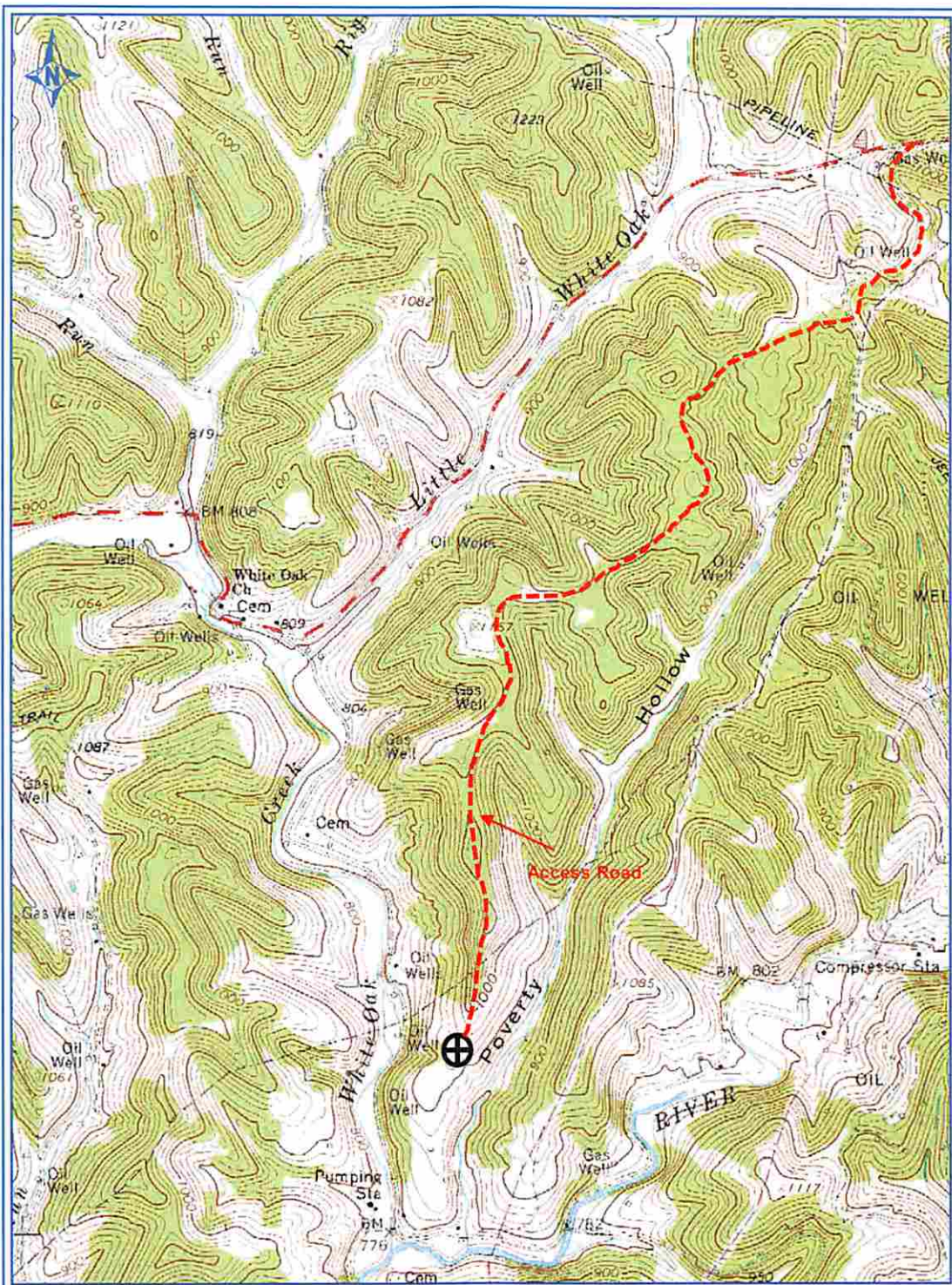
LOCATION: ORIGINAL GROUND ELEV. 957' PROPOSED ELEV. 947' WATERSHED SOUTH FORK HUGHES RIVER
 QUADRANGLE PULLMAN 7.5 DISTRICT UNION COUNTY RITCHIE
 SURFACE OWNER LYNWOOD IRELAND ET AL ACREAGE 144.276 ACRES +/-
 OIL & GAS ROYALTY OWNER BELLE PRITCHARD; W.P. IRELAND LEASE ACREAGE 415 AC±; 222 AC±;
 ET UX; JOYCE E. WEBBER; EARL E. FLESHER ET AL; 445.67 AC±; 57 AC±;
 EARL E. FLESHER; CAROLYN ERCANBRACK; 82 AC±; 64.5 AC±;
 ELBERT SHEETS HEIRS 70.25 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 18,300' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CT CORPORATION SYSTEM
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
 DENVER, CO 80202 CHARLESTON, WV 25313



07/10/2015



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Antero Resources Corp

APPALACHIAN BASIN

KAREN UNIT 1H

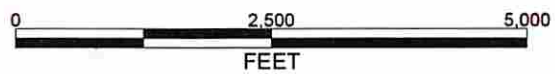
Ritchie County

REMARKS

QUADRANGLE: PULLMAN 7.5'
WATERSHED: SOUTH FORK HUGHES RIVER

DISTRICT: UNION

By: ECM



Received
Office of Oil & Gas
MAY 07 2015

07/10/2015