

LATITUDE 39°22'30"

4,841'

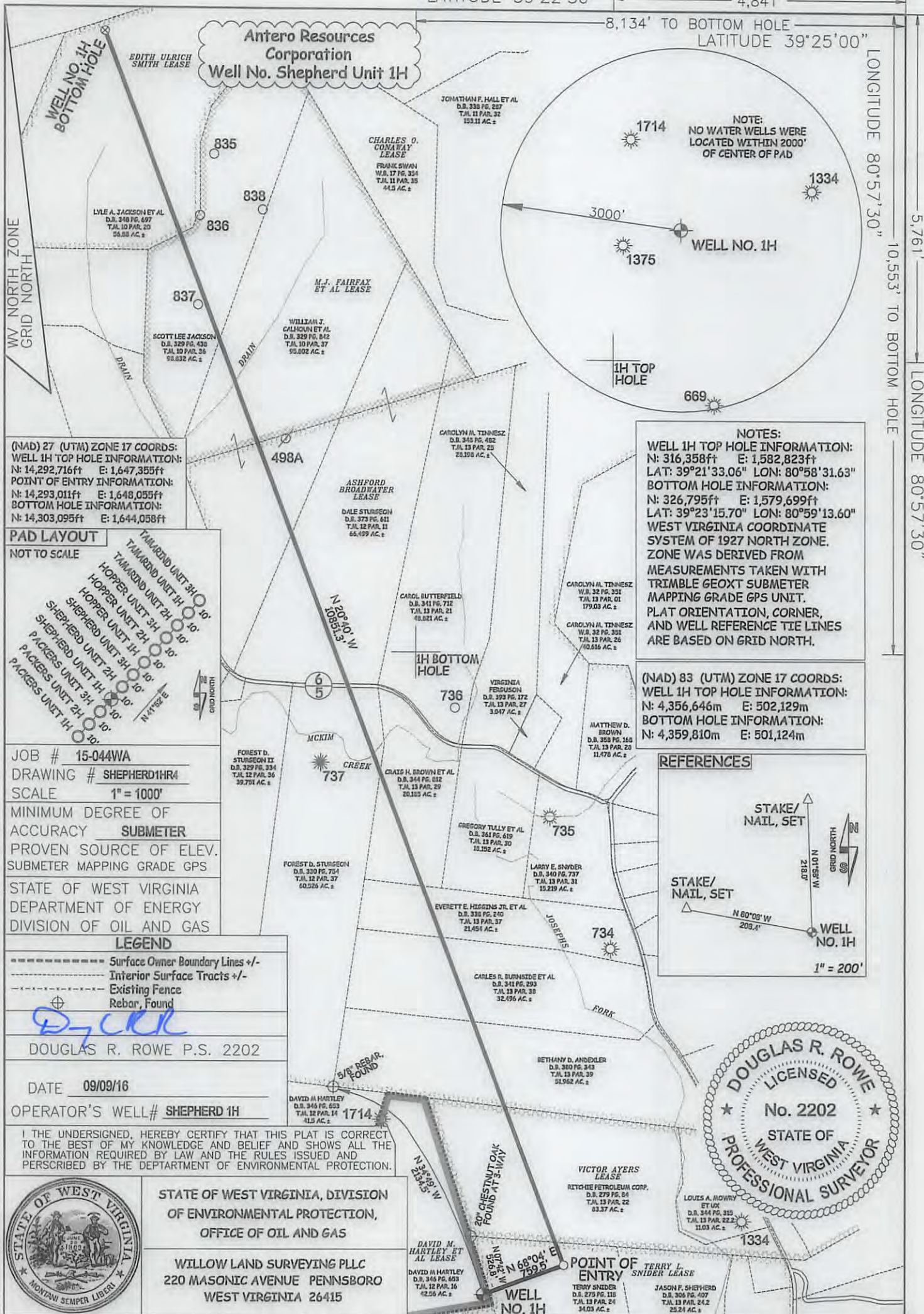
8,134' TO BOTTOM HOLE

LATITUDE 39°25'00"

LONGITUDE 80°57'30"

5,761' TO BOTTOM HOLE

LONGITUDE 80°57'30"



(NAD) 27 (UTM) ZONE 17 COORDS:
 WELL 1H TOP HOLE INFORMATION:
 N: 14,292,716ft E: 1,647,355ft
 POINT OF ENTRY INFORMATION:
 N: 14,293,011ft E: 1,648,055ft
 BOTTOM HOLE INFORMATION:
 N: 14,303,095ft E: 1,644,058ft

PAD LAYOUT
 NOT TO SCALE

TAMARIND UNIT 3H 10'
 TAMARIND UNIT 2H 10'
 HOPPER UNIT 3H 10'
 HOPPER UNIT 2H 10'
 SHEPHERD UNIT 3H 10'
 SHEPHERD UNIT 2H 10'
 PACKERS UNIT 3H 10'
 PACKERS UNIT 2H 10'

JOB # 15-044WA
 DRAWING # SHEPHERD1HR4
 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

LEGEND

- Surface Owner Boundary Lines +/-
- Interior Surface Tracts +/-
- Existing Fence
- Rebar, Found

DOUGLAS R. ROWE P.S. 2202

DATE 09/09/16
 OPERATOR'S WELL# SHEPHERD 1H

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.

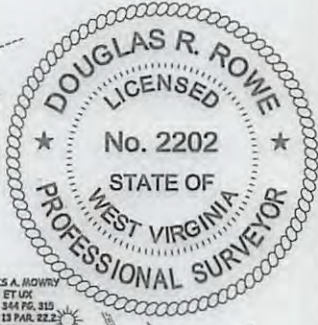
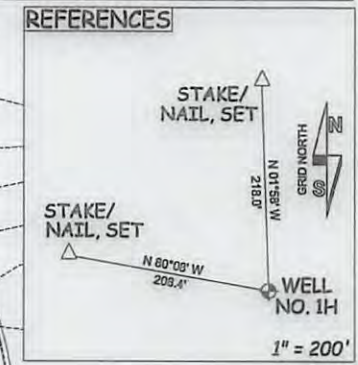


STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC
 220 MASONIC AVENUE PENNSBORO WEST VIRGINIA 26415

NOTES:
 WELL 1H TOP HOLE INFORMATION:
 N: 316,358ft E: 1,582,823ft
 LAT: 39°21'33.06" LON: 80°58'31.63"
 BOTTOM HOLE INFORMATION:
 N: 326,795ft E: 1,579,699ft
 LAT: 39°23'15.70" LON: 80°59'13.60"
 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: 4,356,646m E: 502,129m
 BOTTOM HOLE INFORMATION:
 N: 4,359,810m E: 501,124m



WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL API WELL # 47 - 095 **02385**

(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1,196 ORIGINAL - 1,178 PROPOSED WATERSHED OUTLET MIDDLE ISLAND CREEK STATE COUNTY TYLER 12/23/2016

QUADRANGLE PENNSBORO 7.5' SHL MIDDLEBOURNE 7.5 BHL DISTRICT MEADE COUNTY TYLER

SURFACE OWNER DAVID M. HARTLEY ACREAGE 42.56 ACRES +/-

OIL & GAS ROYALTY OWNER DAVID M. HARTLEY ET AL; TERRY L. SNIDER; VICTOR AYERS; LEASE ACREAGE 42.56 AC±; 221.24 AC±; 97 AC±; ASHFORD BROADWATER; M.J. FAIRFAX ET AL; EDITH ULRICH SMITH 583.712 AC±; 120 AC±; 56.88 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 6,800' TVD 18,800' MD

WELL OPERATOR ANTERO RESOURCES CORPORATION DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM

ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD

DENVER, CO 80202 CHARLESTON, WV 25313

FORM WW-6