

LATITUDE 39°17'30" 1,832'

LATITUDE 39°20'00" 3,008' TO BOTTOM HOLE

LONGITUDE 80°40'00" 10,577' TO BOTTOM HOLE
LONGITUDE 80°40'00" 2,393'

Antero Resources Corporation Well No. Manser Unit 3H

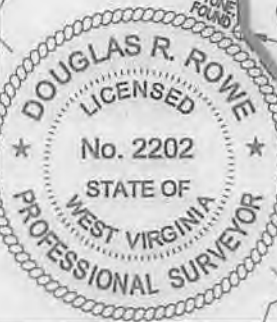
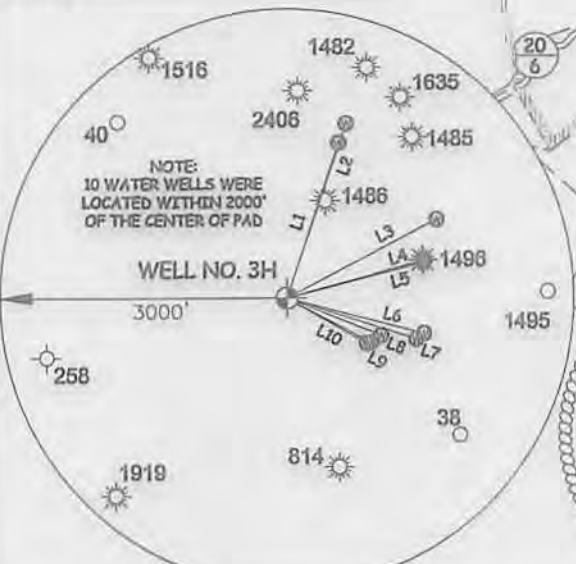
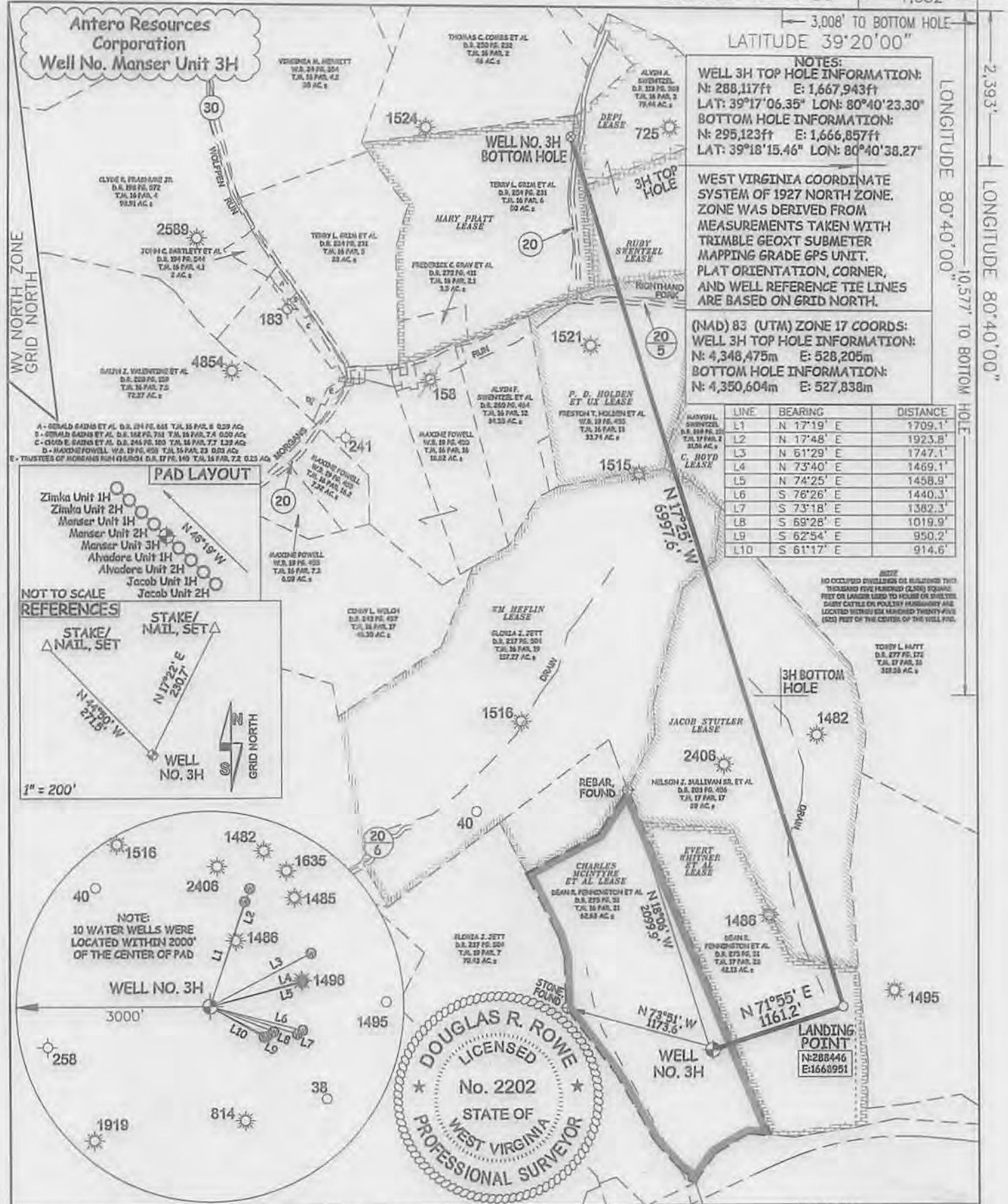
NOTES:
WELL 3H TOP HOLE INFORMATION:
 N: 288,117ft E: 1,667,943ft
 LAT: 39°17'06.35" LON: 80°40'23.30"
BOTTOM HOLE INFORMATION:
 N: 295,123ft E: 1,666,857ft
 LAT: 39°18'15.46" LON: 80°40'38.27"

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 3H TOP HOLE INFORMATION:
 N: 4,348,475m E: 528,205m
BOTTOM HOLE INFORMATION:
 N: 4,350,604m E: 527,838m

LINE	BEARING	DISTANCE
L1	N 17°19' E	1709.1'
L2	N 17°48' E	1923.8'
L3	N 61°29' E	1747.1'
L4	N 73°40' E	1469.1'
L5	N 74°25' E	1458.9'
L6	S 76°26' E	1440.3'
L7	S 73°18' E	1382.3'
L8	S 69°28' E	1019.9'
L9	S 62°54' E	950.2'
L10	S 61°17' E	914.6'

NOTE:
 NO OCCUPIED DWELLINGS OR BUILDINGS WITHIN 100 FEET OF THE WELL. FIVE HEMLOCK (2,500) SQUARE FEET OR LARGER LOGS TO HOUSE OR SHEDS. DEAD CATTLE OR POULTRY REMAINS ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.



JOB # 14-027WA
 DRAWING # MANSER3H
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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

LEGEND

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

DOUGLAS R. ROWE P.S. 2202

DATE 04/03/14

OPERATOR'S WELL# MANSER UNIT #3H

API WELL # 47 - 017 - 060487/H0A

STATE COUNTY PERMIT

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 1,141' WATERSHED BUCKEYE CREEK

QUADRANGLE SMITHBURG 7.5 DISTRICT GRANT COUNTY DODDRIDGE

SURFACE OWNER DEAN R. PENNINGTON ET AL ACREAGE 62.63 ACRES +/-

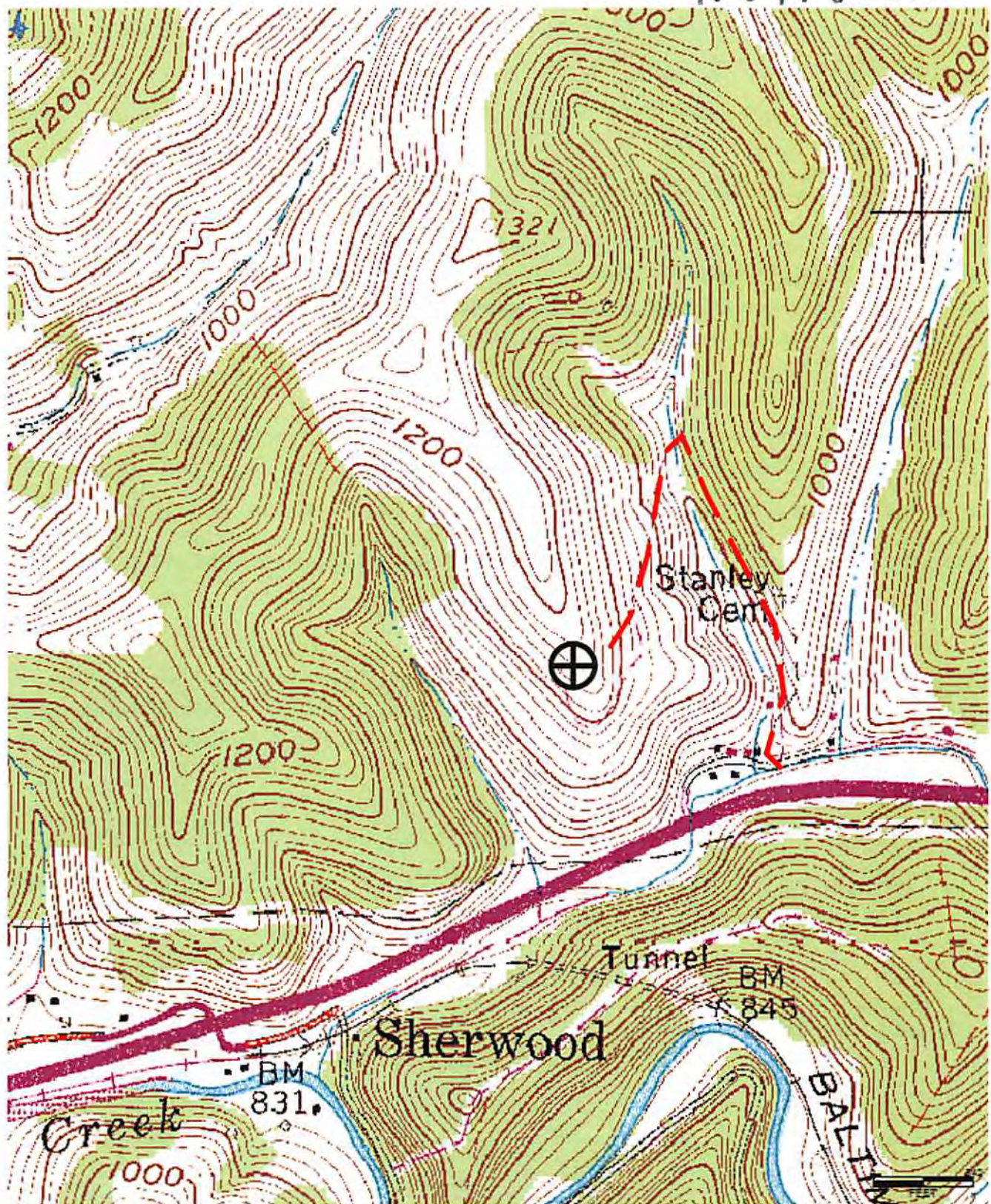
OIL & GAS ROYALTY OWNER CHARLES MCINTYRE ET AL; EVERT WHITNER ET AL; JACOB STUTLER; WM. HEFLIN; CAROL BOYD; P.D. HOLDEN ET UX; RUBY SWENTZEL; DEPI; MARY PRATT 120.8 AC±; 31.58 AC±; 35 AC±; 21.25 AC±; 33.5 AC±; 54 AC±

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) PLUG & ABANDON CLEAN OUT & REPLUG

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,200' TVD 16,300' MD

WELL OPERATOR ANTERO RESOURCES CORPORATION DESIGNATED AGENT DIANNA STAMPER
 ADDRESS 1625 17TH STREET ADDRESS CT CORPORATION SYSTEM
 DENVER, CO 80202 CHARLESTON, WV 25310

4701706487 *plat spotted*



Antero Resources Corporation
Appalachian Basin
Manser Unit 3H
Dodridge County

Quadrangle: Smithburg
Watershed: Morgans Run and Buckeye Creek
Watersheds
District: Grant
Date: 10/17/13