

LATITUDE 39°27'30" 1,705'

LATITUDE 39°25'00"

10,930' TO BOTTOM HOLE

8,847' TO BOTTOM HOLE

14,767'

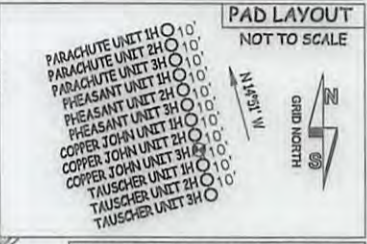
LONGITUDE 80°52'30"

LONGITUDE 80°55'00"

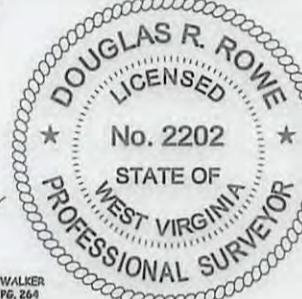
Antero Resources Corporation  
Well No. Copper John Unit 3H

**NOTES:**  
**WELL 3H TOP HOLE INFORMATION:**  
 N: 337,461ft E: 1,598,075ft  
 LAT: 39°25'04.05" LON: 80°55'21.73"  
**BOTTOM HOLE INFORMATION:**  
 N: 328,166ft E: 1,600,480ft  
 LAT: 39°23'32.56" LON: 80°54'49.22"  
**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.

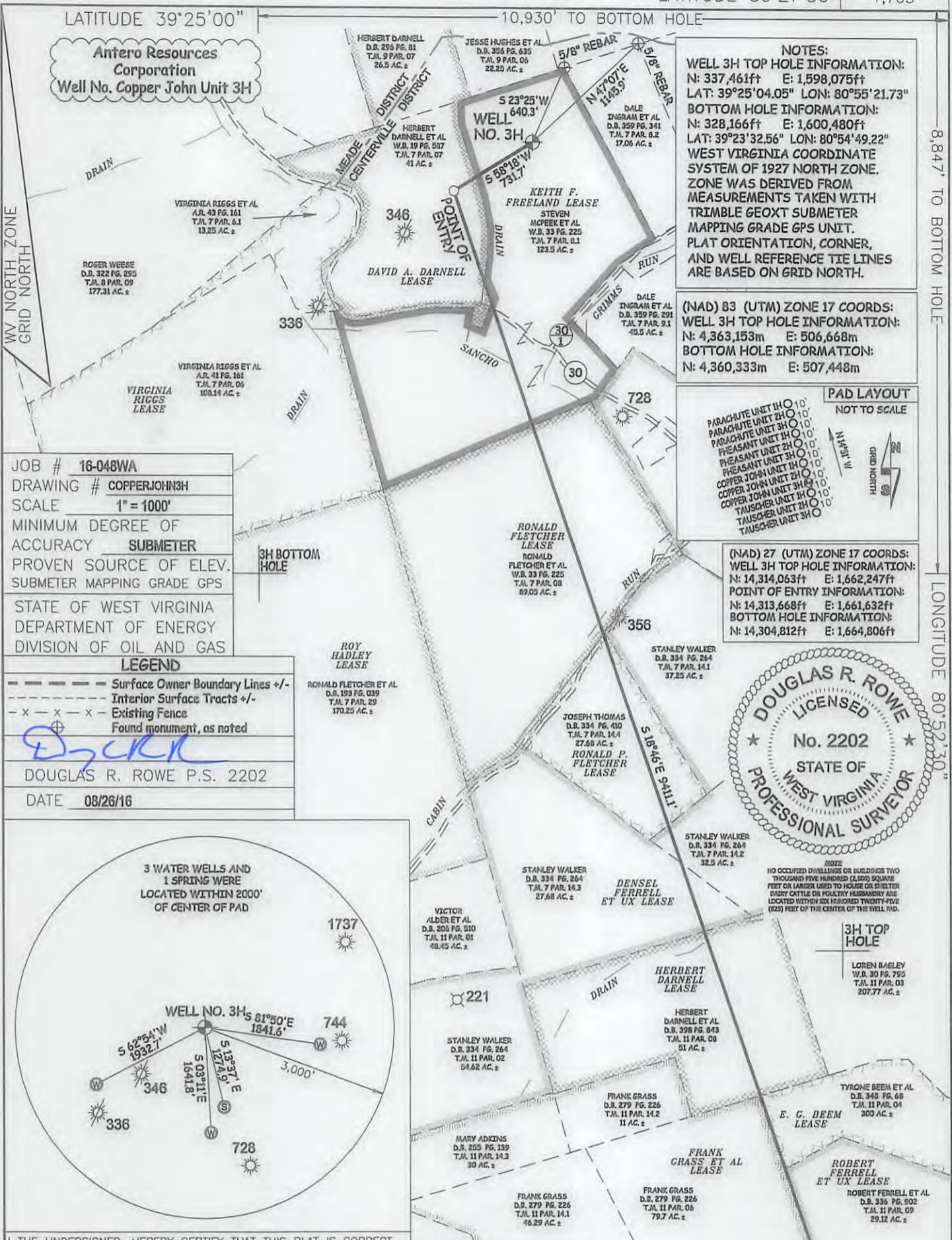
**(NAD) 83 (UTM) ZONE 17 COORDS:**  
**WELL 3H TOP HOLE INFORMATION:**  
 N: 4,363,153m E: 506,668m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,360,333m E: 507,448m



**(NAD) 27 (UTM) ZONE 17 COORDS:**  
**WELL 3H TOP HOLE INFORMATION:**  
 N: 14,314,063ft E: 1,662,247ft  
**POINT OF ENTRY INFORMATION:**  
 N: 14,313,668ft E: 1,661,632ft  
**BOTTOM HOLE INFORMATION:**  
 N: 14,304,812ft E: 1,664,806ft



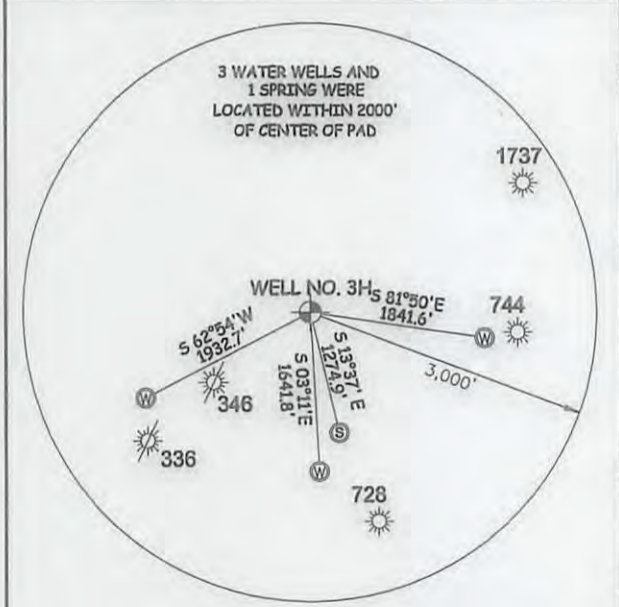
**NOTE:**  
 NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.



JOB # 16-048WA  
 DRAWING # COPPERJOHN3H  
 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 +/-  
 - x - x - Existing Fence  
 ⊕ Found monument, as noted

DOUGLAS R. ROWE P.S. 2202  
 DATE 08/26/16

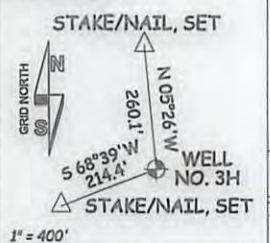


I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



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

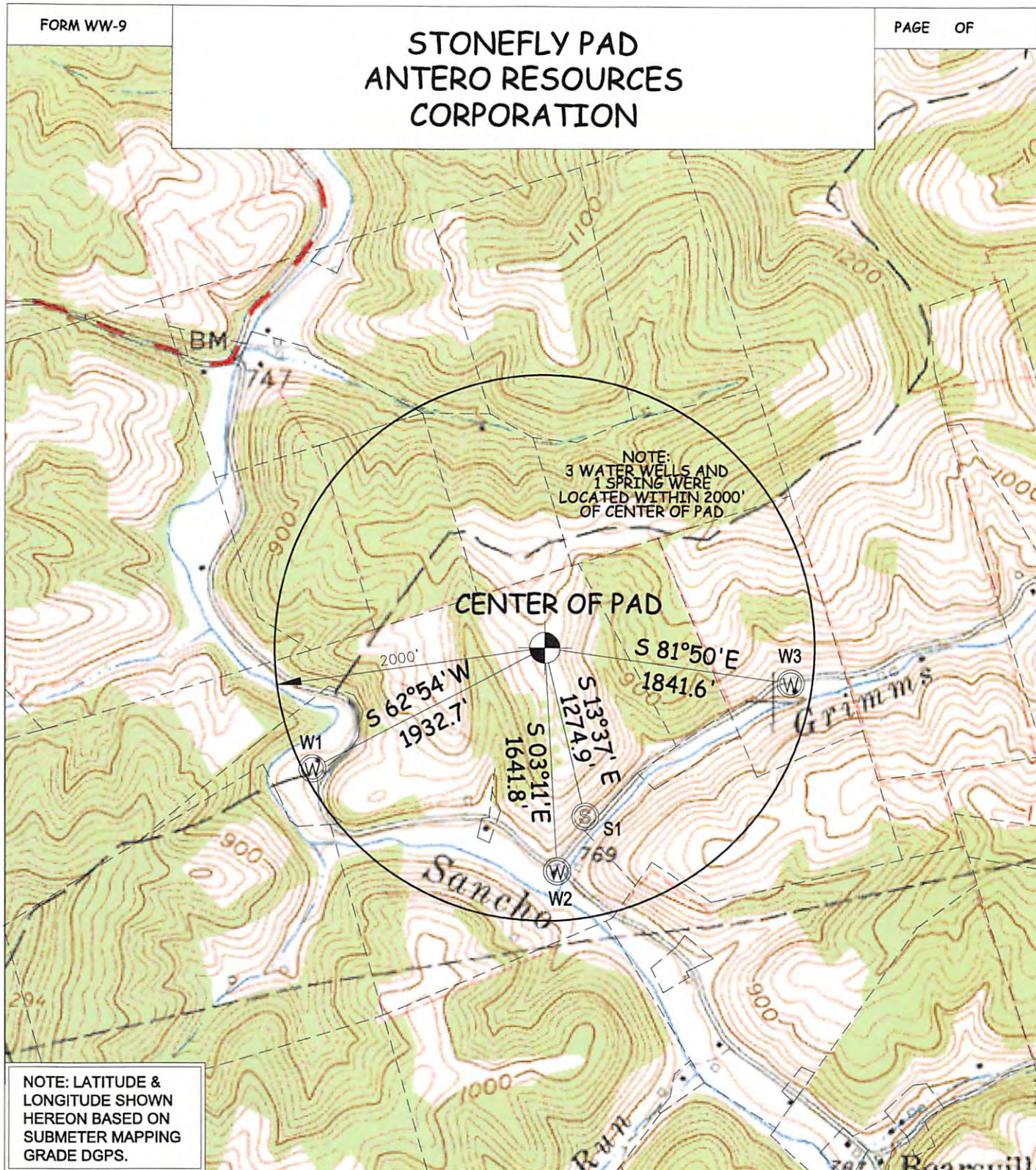
**REFERENCES**



WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 992' - ORIGINAL 982' - PROPOSED  WATERSHED  OUTLET MIDDLE ISLAND CREEK  
 QUADRANGLE MIDDLEBOURNE 7.5' DISTRICT CENTERVILLE COUNTY TYLER  
 SURFACE OWNER STEVEN MCPEEK ET AL ACREAGE 123.5 ACRES +/-  
 OIL & GAS ROYALTY OWNER KEITH F. FREELAND; DAVID A. DARNELL; RONALD FLETCHER; LEASE ACREAGE 123.5 AC±; 68.33 AC±; 93 AC±;  
 RONALD P. FLETCHER; DENSEL FERRELL ET UX; HERBERT DARNELL; E. G. BEEM; ROBERT FERRELL ET UX; FRANK GRASS ET AL 27.68 AC±; 248 AC±; 51 AC±; 317 AC±; 29.12 AC±; 431.29 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 6,600' TVD 16,300' MD  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM  
 ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD  
 DENVER, CO 80202 CHARLESTON, WV 25313

0311762017

# STONEFLY PAD ANTERO RESOURCES CORPORATION



NOTE: LATITUDE & LONGITUDE SHOWN HEREON BASED ON SUBMETER MAPPING GRADE DGPS.

WELL	SURFACE OWNER	ADDRESS	DISTRICT-TAX MAP-PARCEL	WELL LATITUDE	WELL LONGITUDE
W1	VIRGINIA RIGGS	654 BEARSVILLE RD, MIDDLEBOURNE, WV 26149	1-7-06.1	39°24'54.78"	80°55'43.39"
W2	STEPHEN MCPEEK	267 RECTOR RD, PARKERSBURG, WV 26105	1-7-08.1	39°24'47.56"	80°55'20.15"
W3	GENEVA MEREDITH	2222 BORING LN, EAST LIVERPOOL, OH 43820	1-7-09	39°25'01.45"	80°54'58.37"
S1	STEPHEN MCPEEK	267 RECTOR RD, PARKERSBURG, WV 26105	1-7-08.1	39°24'51.55"	80°55'17.57"

**WILLOW LAND SURVEYING, PLLC**  
P.O. BOX 17, PENNSBORO, WV 26415  
(304) 659-1717

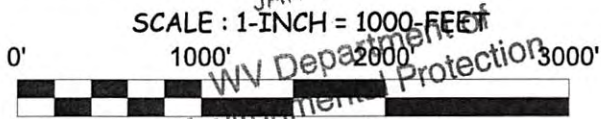
TOPO SECTION(S) OF:  
MIDDLEBOURNE 7.5'

JOB #: 16-027WA

FILE: STONEFLYPADWM

DATE: 5/3/16

DRAWN BY: T.B.S.



03/17/2017