

LATITUDE 39°20'00"

8,688'

1,731' TO BOTTOM HOLE

LATITUDE 39°22'30"

LONGITUDE 80°57'30" 13,328' TO BOTTOM HOLE

6,346'

LONGITUDE 80°55'00"

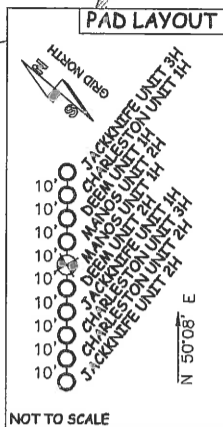
(NAD) 27 (UTM) ZONE 17 COORDS:  
 WELL 1H TOP HOLE INFORMATION:  
 N: 14,276,964ft E: 1,655,301ft  
 POINT OF ENTRY INFORMATION:  
 N: 14,276,606ft E: 1,653,933ft  
 BOTTOM HOLE INFORMATION:  
 N: 14,285,152ft E: 1,650,467ft

NOTES:  
 WELL 1H TOP HOLE INFORMATION:  
 N: 300,470ft E: 1,590,507ft  
 LAT: 39°18'57.28" LON: 80°56'50.55"  
 BOTTOM HOLE INFORMATION:  
 N: 308,741ft E: 1,585,810ft  
 LAT: 39°20'18.27" LON: 80°57'52.03"  
 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: 4,351,845m E: 504,551m  
 BOTTOM HOLE INFORMATION:  
 N: 4,354,341m E: 503,078m

A - JEFFREY A. HURST ET AL. D.B. 305 PG. 1081 T.M. 14 PAR. 10.3 1.7 AC.±  
 B - REGINA A. WANSTREET D.B. 265 PAR. 207 T.M. 14 PAR. 10.2 0.526 AC.±  
 C - JEFFREY A. HURST ET AL. W.B. 39 PAR. 917 T.M. 14 PAR. 10.1 2.38 AC.±  
 D - JAMES F. WILLIAMSON ET AL. D.B. 262 PAR. 312 T.M. 14 PAR. 11.3 1 AC.±  
 E - JAMES F. WILLIAMSON ET AL. D.B. 262 PAR. 310 T.M. 14 PAR. 11.2 0.825 AC.±  
 F - JAMES F. WILLIAMSON ET AL. D.B. 262 PAR. 316 T.M. 14 PAR. 11.4 0.91 AC.±  
 G - PERL L. FREELAND ET AL. D.B. 179 PG. 726 T.M. 14 PAR. 11.5 0.76 AC.±  
 H - KENNETH L. CUNNINGHAM ET AL. D.B. 216 PAR. 363 T.M. 14 PAR. 11.1 0.89 AC.±  
 I - FLOYD T. BUTCHER III D.B. 234 PAR. 1 T.M. 14 PAR. 11.8 0.44 AC.±  
 J - FLOYD T. BUTCHER III D.B. 234 PAR. 1 T.M. 14 PAR. 11.7 1.16 AC.±  
 K - FAY JONES D.B. 223 PG. 369 T.M. 14 PAR. 11.4 1.24 AC.±

- NOTE:  
 1. 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.  
 2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLEGHENY SURVEYS, INC.  
 3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.  
 4. WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES.  
 5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.



**Antero Resources Corporation**  
**Well No. Manos Unit 1H**  
**A.P.I. 47-085-10180**

CLIFF WILSON  
 ET UX LEASE

FRANK TUMAS  
 D.B. 270 PG. 565  
 T.M. 13 PAR. 04.2  
 20.87 AC.±

FRANK TUMAS  
 D.B. 270 PG. 565  
 T.M. 13 PAR. 04.2  
 65 AC.±

TORIE L. KNIGHT  
 ET AL.  
 D.B. 305 PG. 380  
 T.M. 14 PAR. 01  
 84.39 AC.±

CURTIS H.  
 ROWIE ET AL.  
 D.B. 290 PG. 819  
 T.M. 13 PAR. 10.9  
 0.782 AC.±

FRANCIS L.  
 FRANTY ET AL.  
 D.B. 190 PG. 357  
 T.M. 13 PAR. 10.2  
 0.538 AC.±

ROBERT E. BOLIN ET AL.  
 D.B. 302 PG. 98  
 T.M. 13 PAR. 10  
 6.925 AC.±

STEPHEN D.  
 JACKSON  
 D.B. 307 PG. 390  
 T.M. 14 PAR. 09  
 93.911 AC.±

LEWIS P. DAVIS  
 ET AL.  
 D.B. 275 PG. 27  
 T.M. 14 PAR. 10  
 12.49 AC.±

MICHAEL H. YUDT  
 ET AL.  
 D.B. 295 PG. 169  
 T.M. 14 PAR. 11.2  
 23.9 AC.±

LEWIS P.  
 DAVIS ET AL.  
 D.B. 275 PG. 27  
 T.M. 14 PAR. 03  
 72.337 AC.±

JAMES F.  
 WILLIAMSON ET AL.  
 D.B. 262 PAR. 312  
 T.M. 14 PAR. 01.2  
 4.91 AC.±

IRON PIPE FOUND  
 FLOYD T.  
 BUTCHER III  
 D.B. 234 PG. 1  
 T.M. 14 PAR. 11.0  
 15 AC.±

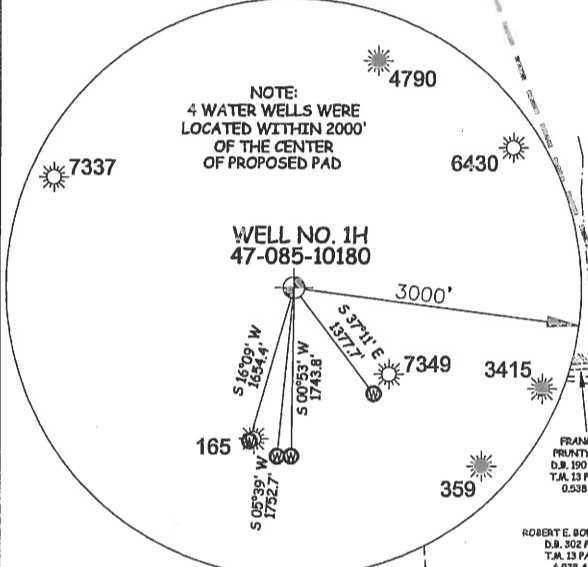
JEFFREY A.  
 HURST ET AL.  
 D.B. 305 PG. 1081  
 T.M. 14 PAR. 11  
 16.97 AC.±

BELL COOPER  
 HEIRS  
 D.B. 190 PG. 324  
 T.M. 14 PAR. 16  
 117 AC.±

STEVE  
 JACKSON  
 LEASE

STEPHEN C.  
 JACKSON ET AL.  
 D.B. 236 PG. 742  
 T.M. 14 PAR. 22  
 40.835 AC.±

R. JONES ET AL.  
 D.B. 216 PG. 669  
 T.M. 14 PAR. 21  
 31 AC.±



NOTE:  
 4 WATER WELLS WERE LOCATED WITHIN 2000' OF THE CENTER OF PROPOSED PAD

WELL NO. 1H  
 47-085-10180

**LEGEND**

- Surface Owner Boundary Lines +/-
- Interior Surface Tracts +/-
- Found monument, as noted
- 500' Wellbore Offset
- As Drilled Well Path

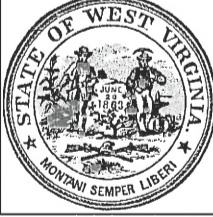
THOMAS SUMMERS P.S. 2109

DATE 05/31/17

OPERATOR'S WELL# MANOS UNIT #1H

JOB # 14-009WA  
 DRAWING # MANOS1HAD  
 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

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

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

LOCATION: ELEVATION 1,127' AS BUILT WATERSHED NORTH FORK HUGHES RIVER  
 QUADRANGLE PENNSBORO 7.5' DISTRICT CLAY COUNTY RITCHIE

SURFACE OWNER STEPHEN C. JACKSON ET AL ACREAGE 40.835 ACRES +/-

OIL & GAS ROYALTY OWNER HARVEY WEIGLE HEIRS; STEVE JACKSON; LEASE ACREAGE 51 ACRES±; 117 ACRES±;  
 CONSTANCE K. GRIFFITH; MARY MAXINE WELCH; CLIFF WILSON ET UX; JAMES W. UTT 31 ACRES±; 163 ACRES±; 413 ACRES±; 82 ACRES±

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_  
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) MOD - POE

PLUG & ABANDON \_\_\_ CLEAN OUT & REPLUG \_\_\_ ESTIMATED DEPTH 6,403' TVD 16,235' MD

TARGET FORMATION MARCELLUS

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

API WELL # 47 - 085 - 10180  
 STATE COUNTY PERMIT

06/09/2017