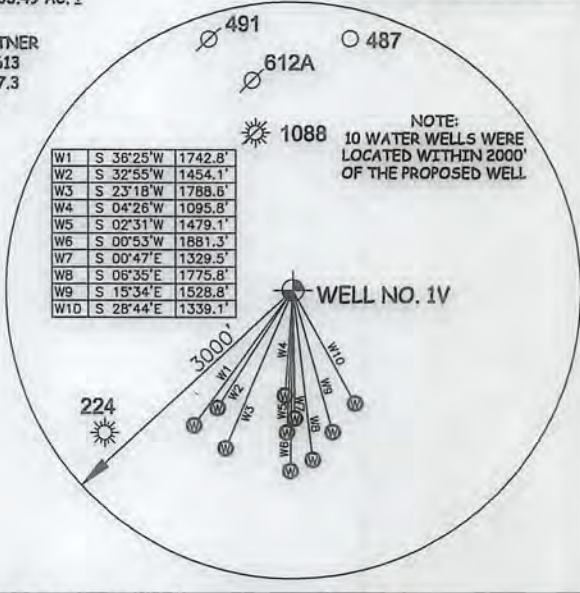
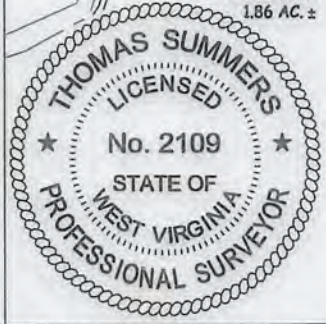


**NOTES:**  
**WELL 1V INFORMATION:**  
 WV STATE PLANE NAD 27 COORDS:  
 N: 335,894ft E: 1,635,393ft  
 GEOGRAPHIC NAD 27 COORDS:  
 LAT: 39°24'54.13" LON: 80°47'25.96"  
 (NAD) 83 (UTM) ZONE 17 COORDS:  
 N: 4,362,865m E: 518,046m  
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.



JOB # 16-015WA  
 DRAWING # JACKMAN1V  
 SCALE 1" = 500'  
 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  
 WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1,050' - ORIGINAL 1,042' - AS-BUILT WATERSHED McELROY CREEK  
 QUADRANGLE SHIRLEY 7.5' DISTRICT McELROY COUNTY TYLER  
 SURFACE OWNER ROBERT J. KOCHER ACREAGE 99.439 ACRES +/-  
 OIL & GAS ROYALTY OWNER LOREN E. BAGLEY ET AL LEASE ACREAGE 502.5 ACRES±  
 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 \_\_\_ ESTIMATED DEPTH 6,900'  
 TARGET FORMATION MARCELLUS  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
 ADDRESS 1615 WYNKOOP STREET ADDRESS CT CORPORATION SYSTEM  
 DENVER, CO 80202 CHARLESTON, WV 25313

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.

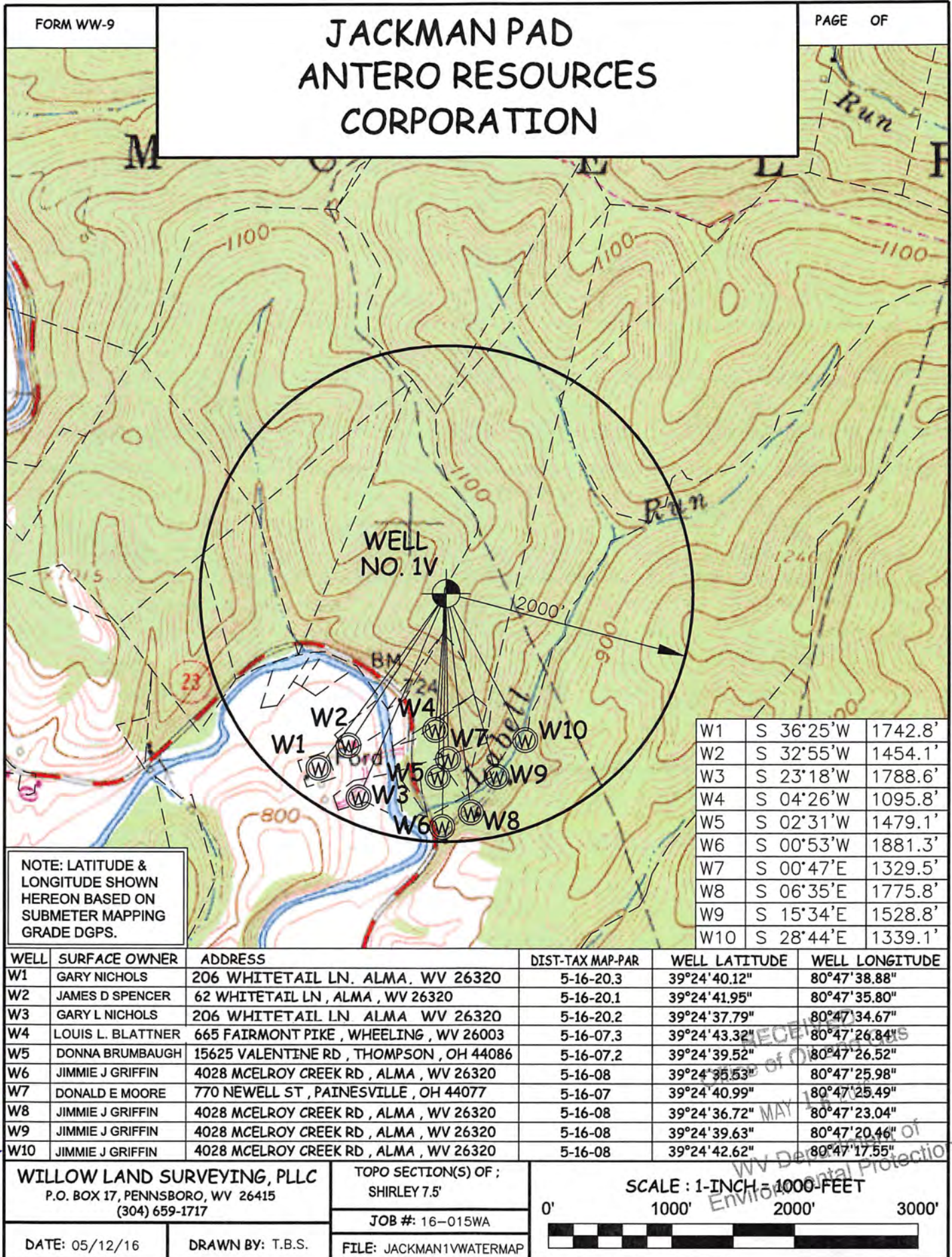


STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WILLOW LAND SURVEYING PLLC  
 266 HUSHERS RUN RD PENNSBORO WEST VIRGINIA 26415

**LEGEND**  
 — Surface Owner Boundary Lines +/-  
 - - - Adjoining Surface Tracts +/-  
 ⊕ Found monument, as noted

THOMAS SUMMERS P.S. 2109  
 DATE 05/31/16  
 OPERATOR'S WELL# JACKMAN #1V  
 API WELL # 47 - 095 - 02363  
 STATE COUNTY PERMIT  
 COUNTY TYLER  
 PERMIT

06/10/2016



FORM WW-9

# JACKMAN PAD ANTERO RESOURCES CORPORATION

PAGE OF

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

W1	S 36°25'W	1742.8'
W2	S 32°55'W	1454.1'
W3	S 23°18'W	1788.6'
W4	S 04°26'W	1095.8'
W5	S 02°31'W	1479.1'
W6	S 00°53'W	1881.3'
W7	S 00°47'E	1329.5'
W8	S 06°35'E	1775.8'
W9	S 15°34'E	1528.8'
W10	S 28°44'E	1339.1'

WELL	SURFACE OWNER	ADDRESS	DIST-TAX MAP-PAR	WELL LATITUDE	WELL LONGITUDE
✓ W1	GARY NICHOLS	206 WHITETAIL LN. ALMA, WV 26320	5-16-20.3	39°24'40.12"	80°47'38.88"
✓ W2	JAMES D SPENCER	62 WHITETAIL LN, ALMA, WV 26320	5-16-20.1	39°24'41.95"	80°47'35.80"
✓ W3	GARY L NICHOLS	206 WHITETAIL LN ALMA WV 26320	5-16-20.2	39°24'37.79"	80°47'34.67"
✓ W4	LOUIS L. BLATTNER	665 FAIRMONT PIKE, WHEELING, WV 26003	5-16-07.3	39°24'43.32"	80°47'26.84"
✓ W5	DONNA BRUMBAUGH	15625 VALENTINE RD, THOMPSON, OH 44086	5-16-07.2	39°24'39.52"	80°47'26.52"
✓ W6	JIMMIE J GRIFFIN	4028 MCELROY CREEK RD, ALMA, WV 26320	5-16-08	39°24'35.53"	80°47'25.98"
✓ W7	DONALD E MOORE	770 NEWELL ST, PAINESVILLE, OH 44077	5-16-07	39°24'40.99"	80°47'25.49"
✓ W8	JIMMIE J GRIFFIN	4028 MCELROY CREEK RD, ALMA, WV 26320	5-16-08	39°24'36.72"	80°47'23.04"
✓ W9	JIMMIE J GRIFFIN	4028 MCELROY CREEK RD, ALMA, WV 26320	5-16-08	39°24'39.63"	80°47'20.46"
✓ W10	JIMMIE J GRIFFIN	4028 MCELROY CREEK RD, ALMA, WV 26320	5-16-08	39°24'42.62"	80°47'17.55"

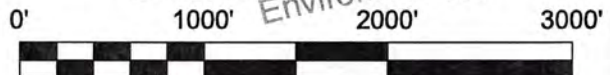
WILLOW LAND SURVEYING, PLLC  
P.O. BOX 17, PENNSBORO, WV 26415  
(304) 659-1717

TOPO SECTION(S) OF :  
SHIRLEY 7.5'

JOB #: 16-015WA

FILE: JACKMAN1VWATERMAP

SCALE: 1-INCH = 1000- FEET



DATE: 05/12/16

DRAWN BY: T.B.S.