

LATITUDE 39°17'30" 2,226'

LATITUDE 39°20'00"

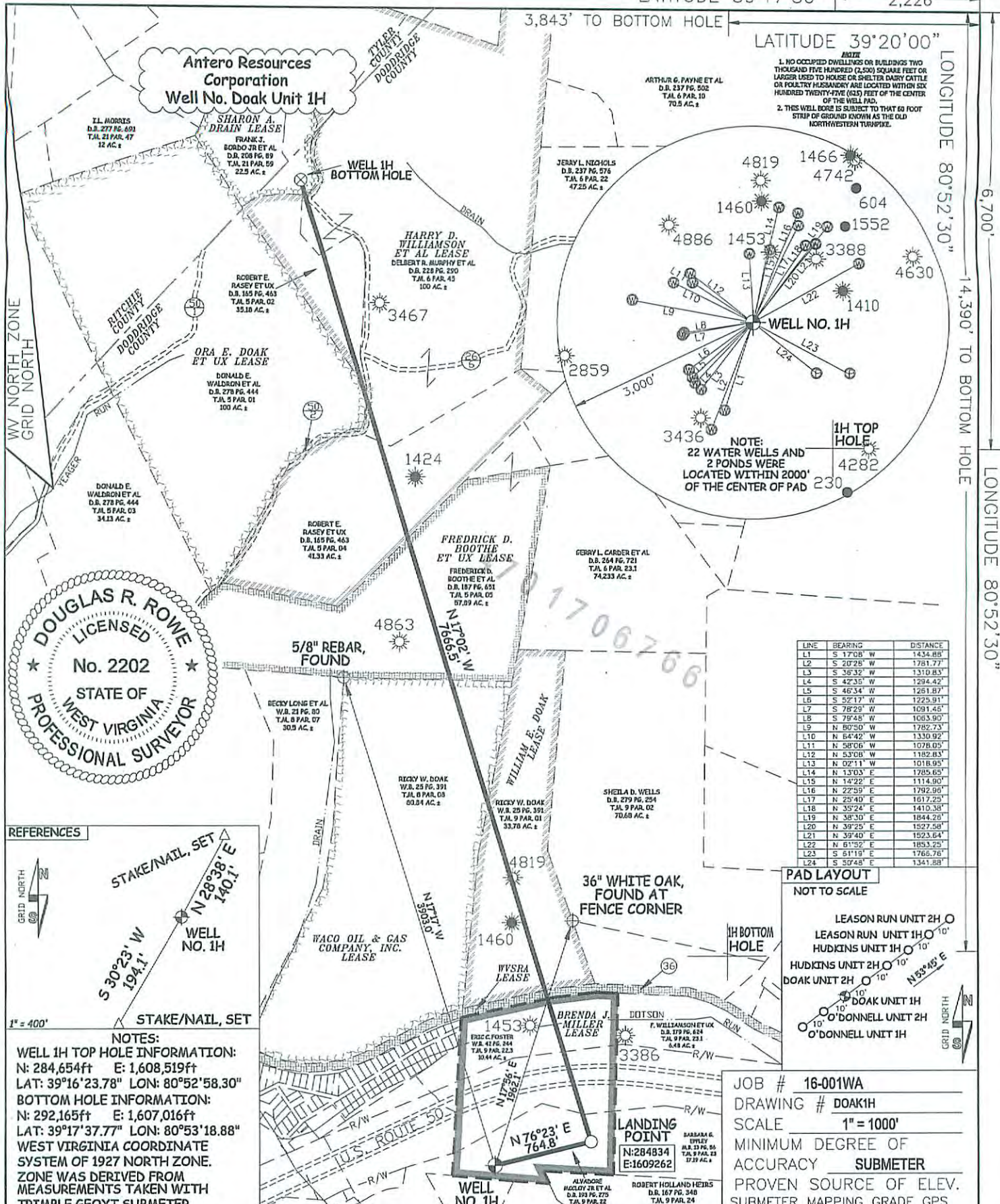
LONGITUDE 80°52'30"

6,700'

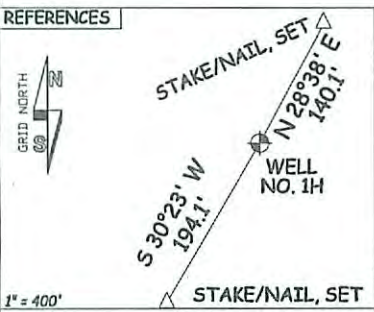
LONGITUDE 80°52'30"

14,390' TO BOTTOM HOLE

LONGITUDE 80°52'30"



LINE	BEARING	DISTANCE
L1	S 17°08' W	1454.88'
L2	S 20°25' W	1781.77'
L3	S 36°32' W	1310.83'
L4	S 42°35' W	1294.42'
L5	S 46°34' W	1261.87'
L6	S 52°17' W	1225.91'
L7	S 78°23' W	1091.46'
L8	S 79°48' W	1063.90'
L9	N 80°50' W	1782.73'
L10	N 64°42' W	1330.92'
L11	N 58°06' W	1078.05'
L12	N 53°08' W	1182.83'
L13	N 02°11' W	1018.95'
L14	N 13°03' E	1785.65'
L15	N 14°22' E	1114.90'
L16	N 22°59' E	1792.96'
L17	N 25°40' E	1617.25'
L18	N 35°24' E	1410.38'
L19	N 38°30' E	1844.28'
L20	N 39°25' E	1827.58'
L21	N 39°40' E	1823.64'
L22	N 61°52' E	1853.25'
L23	S 61°19' E	1766.76'
L24	S 30°48' E	1341.88'



**NOTES:**  
**WELL 1H TOP HOLE INFORMATION:**  
 N: 284,654ft E: 1,608,519ft  
 LAT: 39°16'23.78" LON: 80°52'58.30"  
**BOTTOM HOLE INFORMATION:**  
 N: 292,165ft E: 1,607,016ft  
 LAT: 39°17'37.77" LON: 80°53'18.88"  
 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.

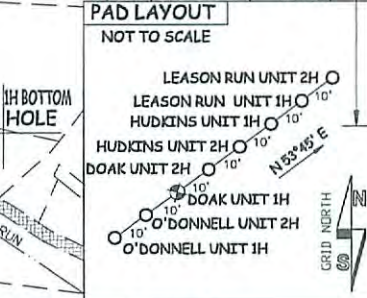
**(NAD) 83 (UTM) ZONE 17 COORDS:**  
**WELL 1H TOP HOLE INFORMATION:**  
 N: 4,347,118m E: 510,119m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,349,399m E: 509,623m

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 1,083' ORIGINAL - 1,057' PROPOSED WATERSHED NORTH FORK HUGHES RIVER  
 QUADRANGLE PENNSBORO 7.5' DISTRICT CENTRAL COUNTY DODD  
 SURFACE OWNER ALVADORE MCCLOY JR ET UX ACREAGE 17.98 ACRES +/-  
 OIL & GAS ROYALTY OWNER BRENDA J. MILLER; WVSRA; WILLIAM E. DOAK; WACO OIL & GAS CO. INC.; LEASE ACREAGE 39.15 ACRES±; 301.19 ACRES±; 35 ACRES±; 83 ACRES±; FREDRICK D. BOOTHE ET UX; HARRY D. WILLIAMSON ET AL; ORA E. DOAK ET UX; SHARON A. DRAIN 62 ACRES±; 176 ACRES±; 100 ACRES±; 22.5 ACRES±  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  X  
 PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,700' TVD 15,000' MD  
 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



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

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.



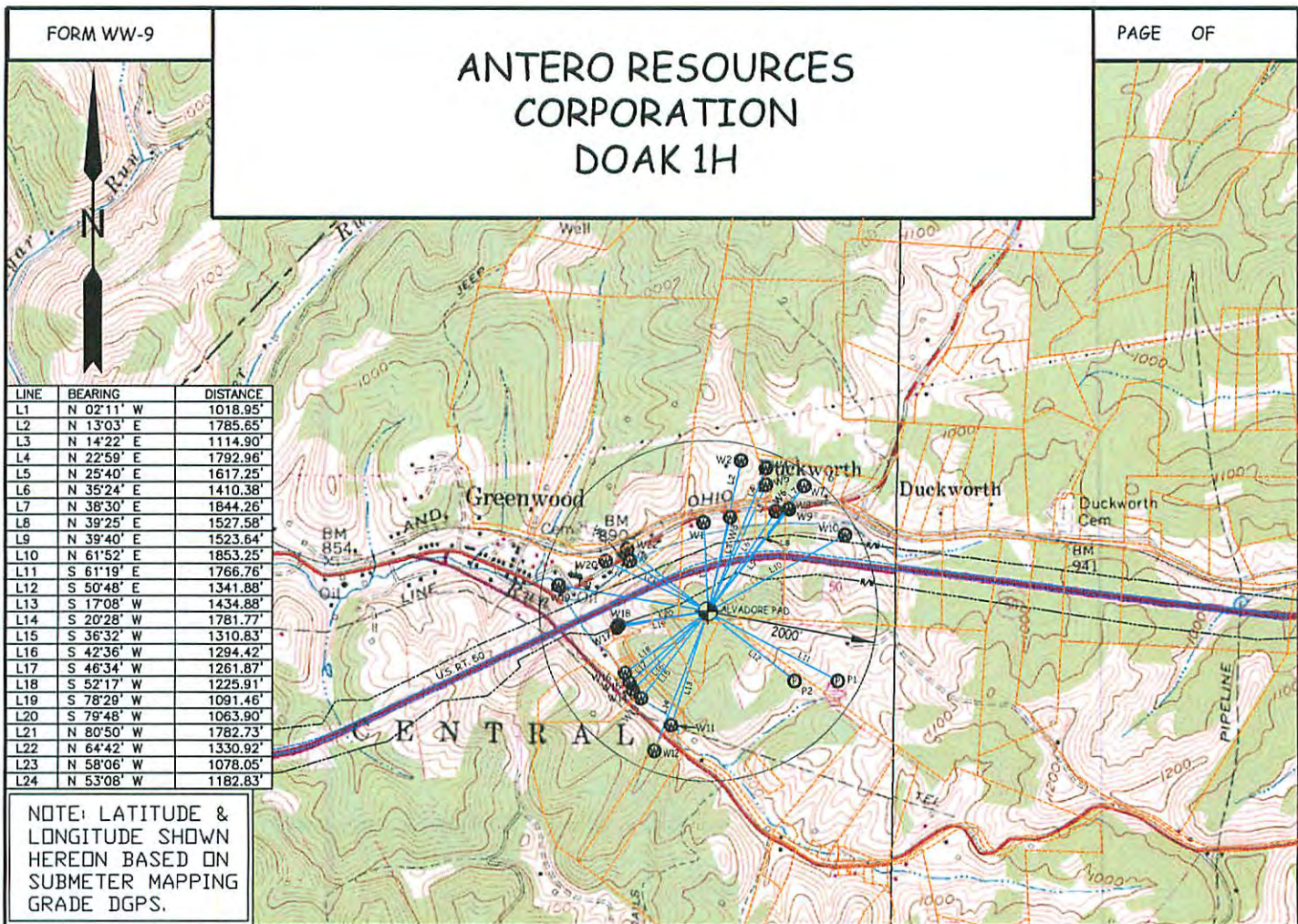
**JOB # 16-001WA**  
**DRAWING # DOAK1H**  
**SCALE 1" = 1000'**  
**MINIMUM DEGREE OF ACCURACY SUBMETER**  
**PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS**

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

*D.R. Rowe*  
 DOUGLAS R. ROWE P.S. 2202  
 DATE 01/07/16  
 OPERATOR'S WELL # DOAK UNIT #1H  
 API WELL # 47-017  
 STATE COUNTY PERMIT  
 COUNTY NAME  
 PERMIT

04/15/2016

# ANTERO RESOURCES CORPORATION DOAK 1H



LINE	BEARING	DISTANCE
L1	N 02°11' W	1018.95'
L2	N 13°03' E	1785.65'
L3	N 14°22' E	1114.90'
L4	N 22°59' E	1792.96'
L5	N 25°40' E	1617.25'
L6	N 35°24' E	1410.38'
L7	N 38°30' E	1844.26'
L8	N 39°25' E	1527.58'
L9	N 39°40' E	1523.64'
L10	N 61°52' E	1853.25'
L11	S 61°19' E	1766.76'
L12	S 50°48' E	1341.88'
L13	S 17°08' W	1434.88'
L14	S 20°28' W	1781.77'
L15	S 36°32' W	1310.83'
L16	S 42°36' W	1294.42'
L17	S 46°34' W	1261.87'
L18	S 52°17' W	1225.91'
L19	S 78°29' W	1091.46'
L20	S 79°48' W	1063.90'
L21	N 80°50' W	1782.73'
L22	N 64°42' W	1330.92'
L23	N 58°06' W	1078.05'
L24	N 53°08' W	1182.83'

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

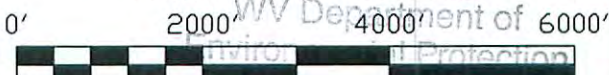
WELL	SURFACE OWNER	ADDRESS	DISTRICT-TAX MAP-PARCEL	WELL LATITUDE	WELL LONGITUDE
W1	ERIC C. FOSTER & BRYAN E. FOSTER	804 LONG RUN RD. GREENWOOD, WV 26415	1-9-22.3	39° 16' 34.25"	80° 52' 58.84"
W2	RICKY DOAK	RT 1 BOX 1016 PENNSBORO, WV 26415	1-9-01	39° 16' 41.45"	80° 52' 53.36"
W3	ERIC C. FOSTER & BRYAN E. FOSTER	804 LONG RUN RD. GREENWOOD, WV 26415	1-9-22.3	39° 16' 34.91"	80° 52' 54.84"
W4	WILLIAM. & VIRGINIA M. DOAK	PO BOX 343 WEST UNION, WV 26456	1-9-09	39° 16' 40.62"	80° 52' 49.57"
W5	RICKY DOAK	757 LONG RUN RD. PENNSBORO, WV 26415	1-9-01	39° 16' 38.71"	80° 52' 49.52"
W6	GARY L. & ALICIA G. JONES	812 LONG RUN RD. GREENWOOD, WV 26415	1-9-22.4	39° 16' 35.68"	80° 52' 47.99"
W7	CHARLES M. WALTON	15 ONWARD RD WILLIAMSTOWN, WV 26187	1-9-10.1	39° 16' 38.64"	80° 52' 43.83"
W8	FRANCIS G. WILLIAMSON ET UX	958 LONG RUN RD PENNSBORO, WV 26415	1-9-23.1	39° 16' 36.01"	80° 52' 46.05"
W9	FRANCIS G. WILLIAMSON ET UX	958 LONG RUN RD PENNSBORO, WV 26415	1-9-23.1	39° 16' 35.94"	80° 52' 46.01"
W10	FRANCIS G. WILLIAMSON ET UX	958 LONG RUN RD PENNSBORO, WV 26415	1-9-23.1	39° 16' 33.08"	80° 52' 37.54"
W11	DANIEL H. RYMER ET UX	RT 1 BOX 290 GREENWOOD, WV 26415	1-9-32.2	39° 16' 10.58"	80° 53' 03.25"
W12	JOHN D. & SANDRA J. ANKENEY	4615 SUNNYSIDE RD PENNSBORO, WV 26415	1-9-32.1	39° 16' 07.61"	80° 53' 05.74"
W13	DALE F. & PAULETTE PIERCE	4762 SUNNYSIDE RD PENNSBORO, WV 26415	1-8-39	39° 16' 13.67"	80° 53' 07.86"
W14	TONY L. NICHOLS ET AL	194 FETTY HOLLOW SPENCER, WV 25276	1-8-30	39° 16' 14.65"	80° 53' 09.10"
W15	CHERYL A. ANKROM-TUCKER	16 ROCKET DR. PENNSBORO, WV 26415	1-8-30.1	39° 16' 15.49"	80° 53' 09.63"
W16	WANDA M. WEAVER ET AL	26 ROCKET DR GREENWOOD, WV 26415	1-8-26	39° 16' 16.64"	80° 53' 10.33"
W17	CHESTER S. & BERNA K. ANKROM	132 ROCKET DR GREENWOOD, WV 26415	1-8-31.2	39° 16' 21.88"	80° 53' 11.70"
W18	CHESTER S. & BERNA K. ANKROM	132 ROCKET DR GREENWOOD, WV 26415	1-8-31.2	39° 16' 22.18"	80° 53' 11.42"
W19	ALAN S. LLOYD	RT 1 BOX 219 WEST UNION, WV 26456	1-17-28	39° 16' 26.74"	80° 53' 20.58"
W20	WILLIAM J. & RENEE A. BRITTON	457 LONG RUN RD. GREENWOOD, WV 26415	1-17-19	39° 16' 29.64"	80° 53' 13.56"
W21	MICHAEL L. JAMES, II ET AL	1 FIRST AMERICAN WAY WESTLAKE, TX 76262	1-17-21	39° 16' 29.69"	80° 53' 09.90"
W22	WILLIAM J. & RENEE A. BRITTON	457 LONG RUN RD. GREENWOOD, WV 26415	1-17-21.1	39° 16' 31.07"	80° 53' 10.32"
P1	ROBERT HOLLAND HEIRS	225 WATCHUNG FORK WESTFIELD, NJ 7090	1-9-24	39° 16' 16.05"	80° 52' 38.28"
P2	ANTHONY R. & TABITHA J. SMITH	115 WABASH AVE. WEST UNION, WV 26456	1-9-32	39° 16' 15.97"	80° 52' 44.76"

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

TOPO SECTION(S) OF :  
WEST UNION 7.5' QUAD.  
& PENNSBORO 7.5' QUAD.

JOB #: 16-001WA  
FILE: DOAK1HWATERMAP

SCALE : 1-INCH = 2000-FEET



DATE: 02/22/16      DRAWN BY: J.W.