

LATITUDE 39°17'30" 2,242'

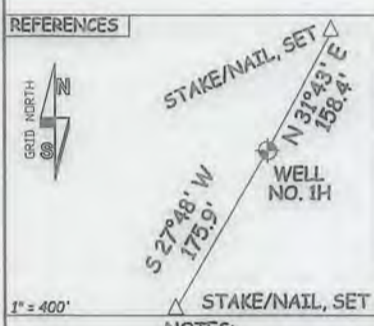
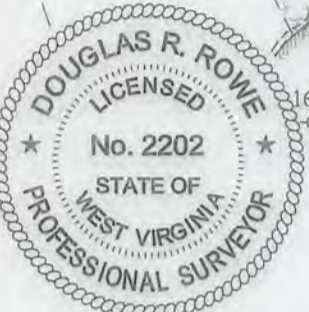
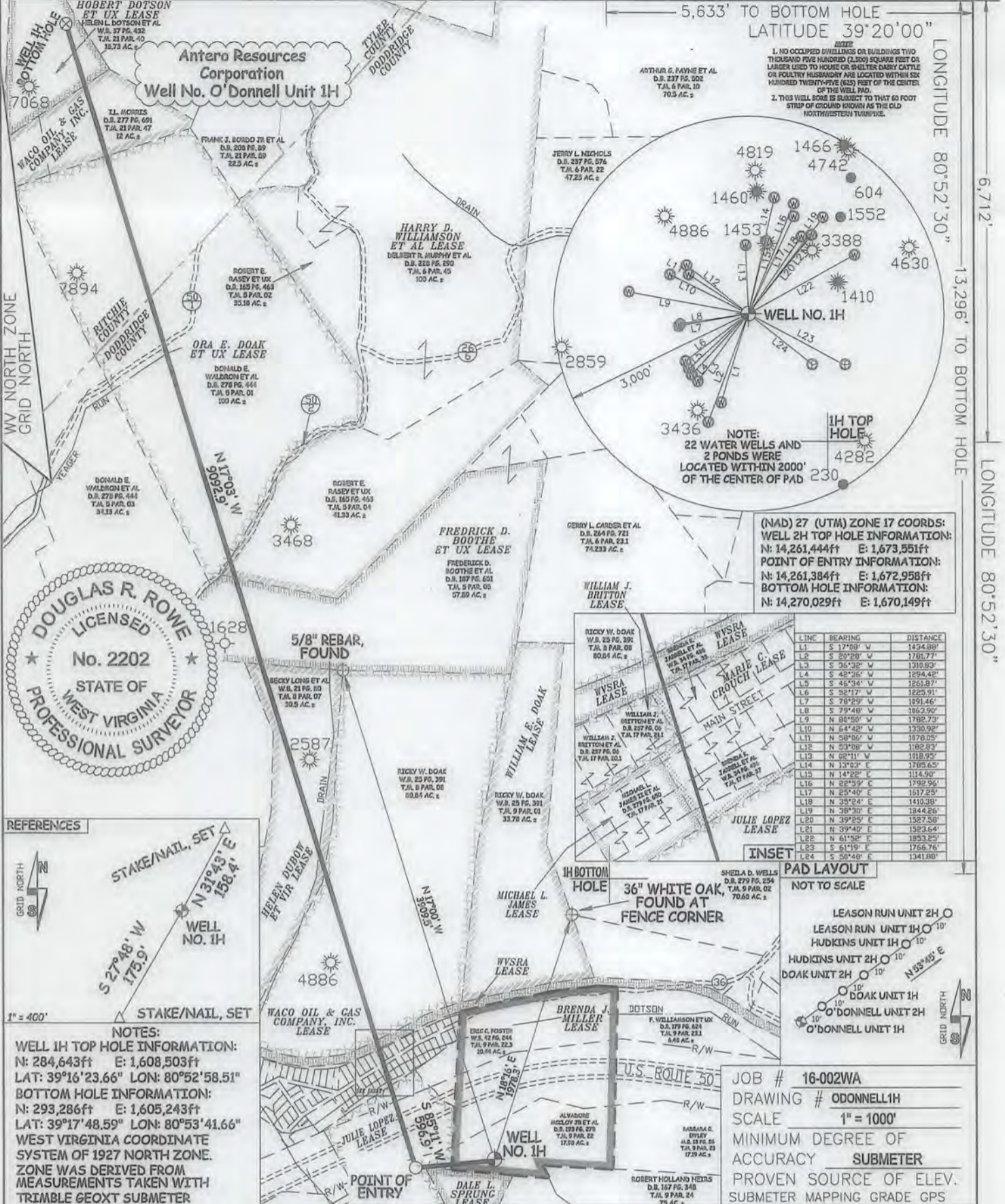
5,633' TO BOTTOM HOLE
LATITUDE 39°20'00"

LONGITUDE 80°52'30"

6,712'

13,296' TO BOTTOM HOLE

LONGITUDE 80°52'30"



NOTES:
WELL 1H TOP HOLE INFORMATION:
N: 284,643ft E: 1,608,503ft
LAT: 39°16'23.66" LON: 80°52'58.51"
BOTTOM HOLE INFORMATION:
N: 293,286ft E: 1,605,243ft
LAT: 39°17'48.59" LON: 80°53'41.66"
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: 4,347,115m E: 510,114m
BOTTOM HOLE INFORMATION:
N: 4,349,731m E: 509,077m

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 DODDRIE



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

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JOB # 16-002WA
DRAWING # ODONNELL1H
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

DOUGLAS R. ROWE P.S. 2202
DATE 03/31/16
OPERATOR'S WELL# O'DONNELL UNIT 1H
API WELL # 47 - 017 - 06772HLA
STATE COUNTY PERMIT
DIANNA STAMPER
CT CORPORATION SYSTEM
5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

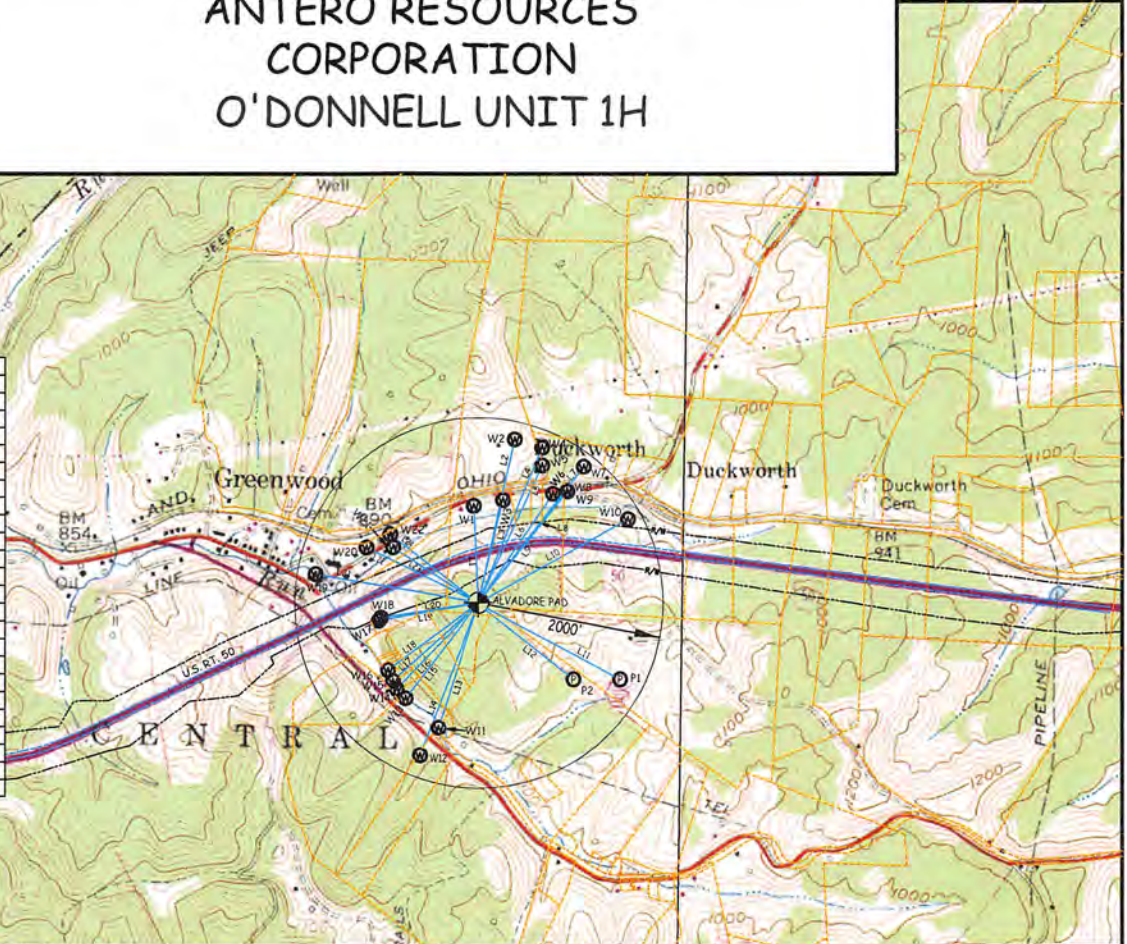
17-00772

ANTERO RESOURCES CORPORATION O'DONNELL UNIT 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. ANKENNEY	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

SCALE : 1-INCH = 2000- FEET



DATE: 02/22/16

DRAWN BY: J.W.

FILE: DOAK1HWATERMAP

RECEIVED
Office of Oil and Gas
April 1, 2016
WV Department of Environmental Protection

05/27/2016