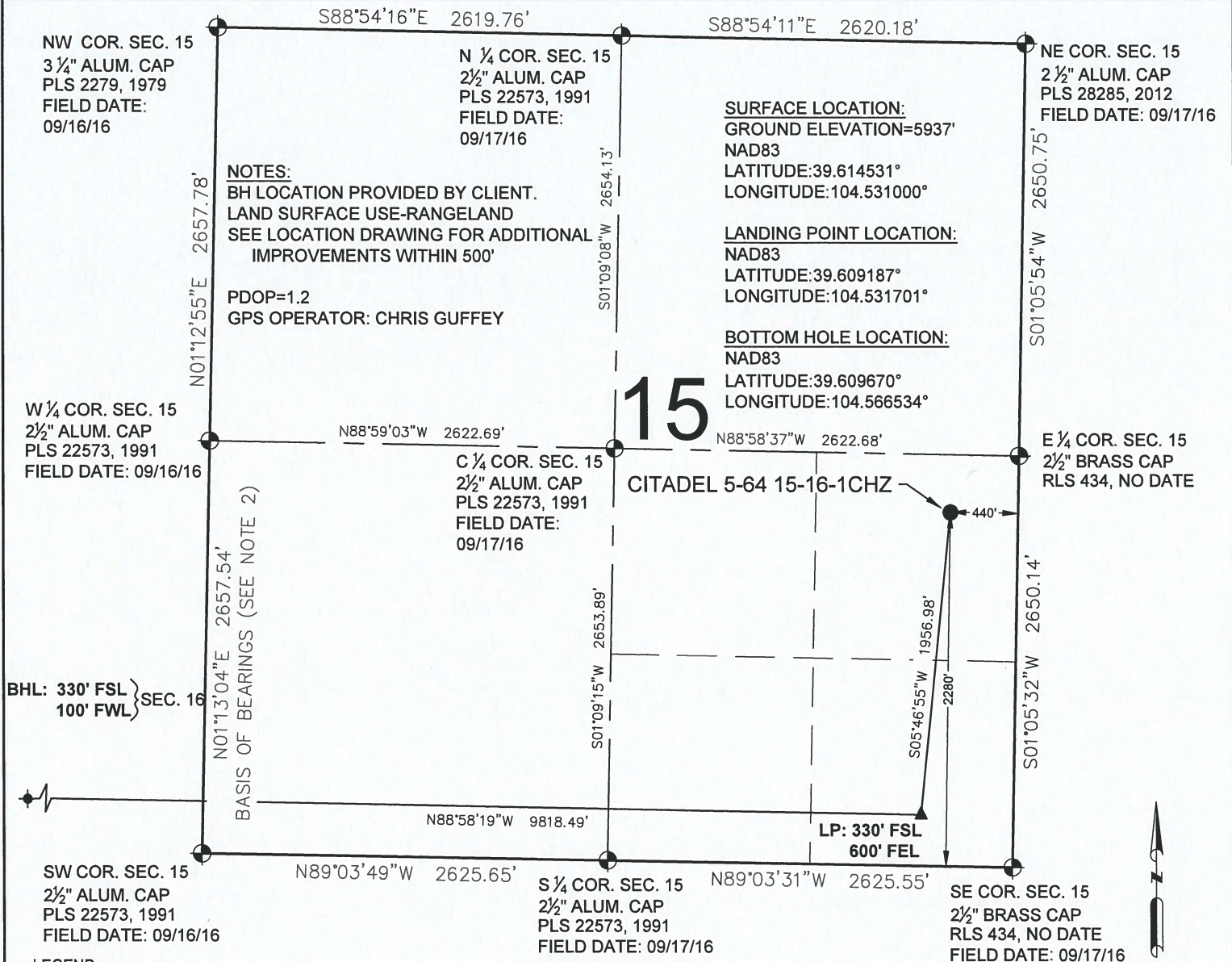








# WELL LOCATION CERTIFICATE



## LEGEND

-  = EXISTING MONUMENT      = BOTTOM HOLE  
 = CALCULATED POSITION      = LANDING POINT  
 = PROPOSED WELL     LP = LANDING POINT  
 = EXISTING WELL     BHL = BOTTOM HOLE LOCATION

NOTES:

1. THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
2. BEARINGS ARE BASED ON THE ASSUMPTION THAT THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 15, BEARS N01°13'04"E BETWEEN THE MONUMENTS SHOWN HEREON.
3. ALL DISTANCES AND BEARINGS SHOWN HEREON ARE GROUND VALUES AS GPS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED PERPENDICULAR TO SECTION LINES. THIS LOW DISTORTION PROJECTION (LDP) IS BASED ON THE NORTH AMERICAN DATUM OF 1983, U.S. SURVEY FOOT WITH A LATITUDE ORIGIN OF 39.608492°, A CENTRAL MERIDIAN LONGITUDE OF -104.548224° AND A SCALE FACTOR ON THE CENTRAL MERIDIAN OF 1.000281 (EXACT). THE LDP BASIS OF BEARINGS IS GEODETIC NORTH.
4. FIELD VERIFICATION OF MONUMENTS COMPLETED WITHIN 1 YEAR OF SIGNATURE DATE UNLESS OTHERWISE NOTED.

NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THIS SAID DATE OF THIS CERTIFICATION SHOWN HEREON.

**WELL CITADEL 5-64 15-16-1CHZ  
TO BE LOCATED 2280' FSL & 440' FEL**

I, BRIAN C. RITZ, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO DO HEREBY CERTIFY TO HIGHLANDS NATURAL RESOURCES, CORPORATION, THAT THE SURVEY AND WELL LOCATION CERTIFICATE SHOWN HEREON WERE DONE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THE DRAWING SHOWN HEREON ACCURATELY DEPICTS THE PROPOSED LOCATION OF THE WELL. THIS CERTIFICATE DOES NOT REPRESENT A LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT AS DEFINED BY C.R.S. 38-51-102 AND CANNOT BE RELIED UPON TO DETERMINE OWNERSHIP.

BRIAN C. RITZ, PLS 38452  
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR  
FOR AND ON BEHALF OF P.F.S., LLC



SHEET 1 OF 2



FIELD DATE:	11-17-16
DRAWING DATE:	04-16-18

BY:  
MMP

CHECKED BY:  
KAD

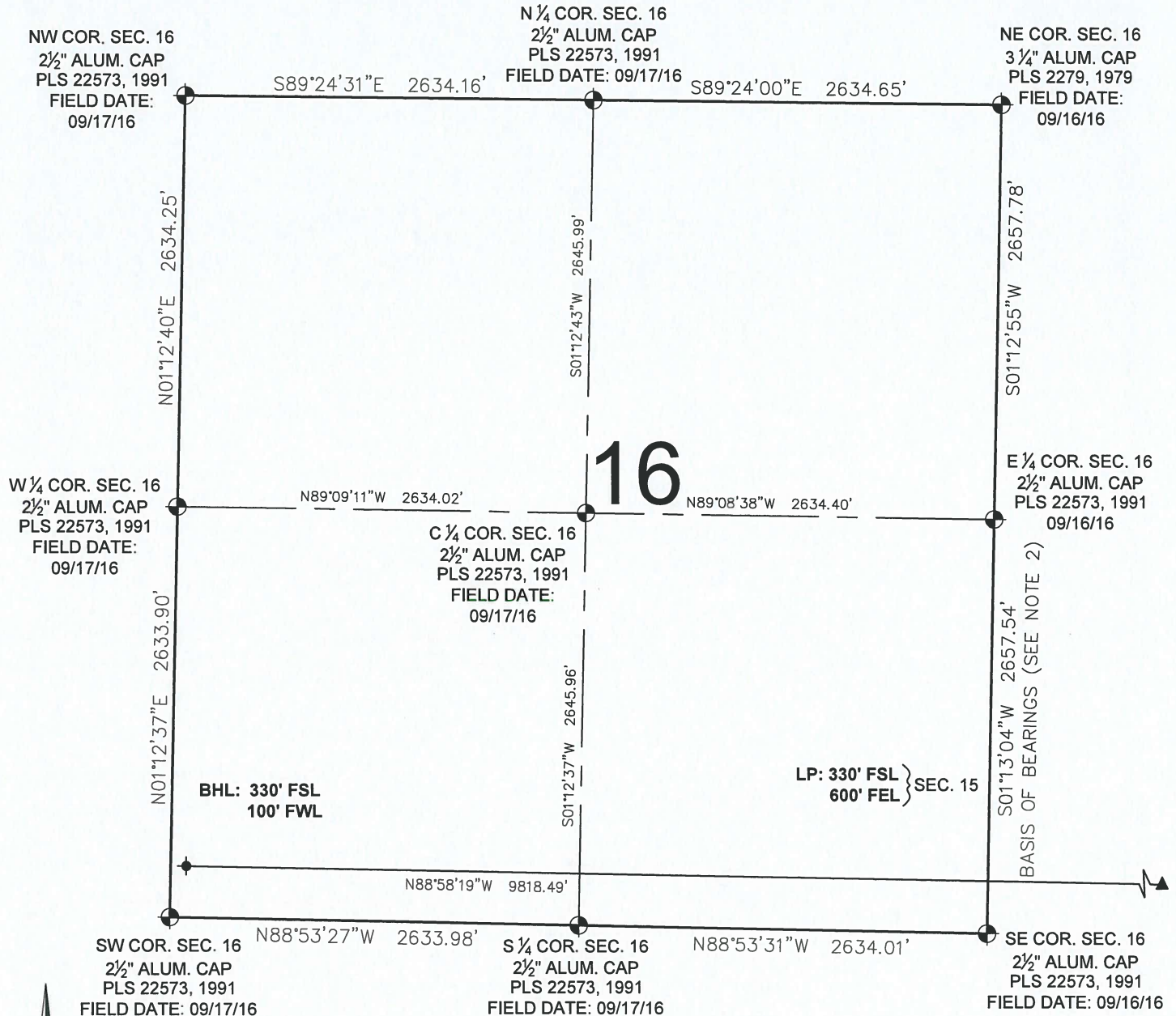
WELL NAME:  
CITADEL 5-64 15-16-1CHZ

SURFACE LOCATION:  
NE 1/4 SE 1/4 SEC. 15, T5S, R64W, 6TH P.M.  
ARAPAHOE COUNTY, COLORADO

PREPARED FOR:
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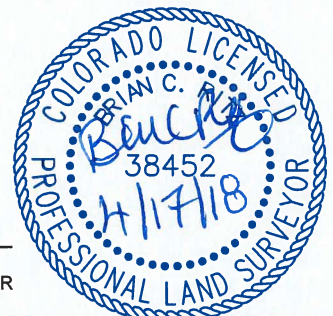
# CITADEL 5-64 15-16-1CHZ WELL LOCATION CERTIFICATE



## LEGEND

- ⊕ = EXISTING MONUMENT
- = CALCULATED POSITION
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- ◆ = EXISTING WELL
- ⬮ = BOTTOM HOLE
- ▲ = LANDING POINT
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BRIAN C. RITZ, PLS 38452  
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR  
FOR AND ON BEHALF OF P.F.S., LLC



SHEET 2 OF 2