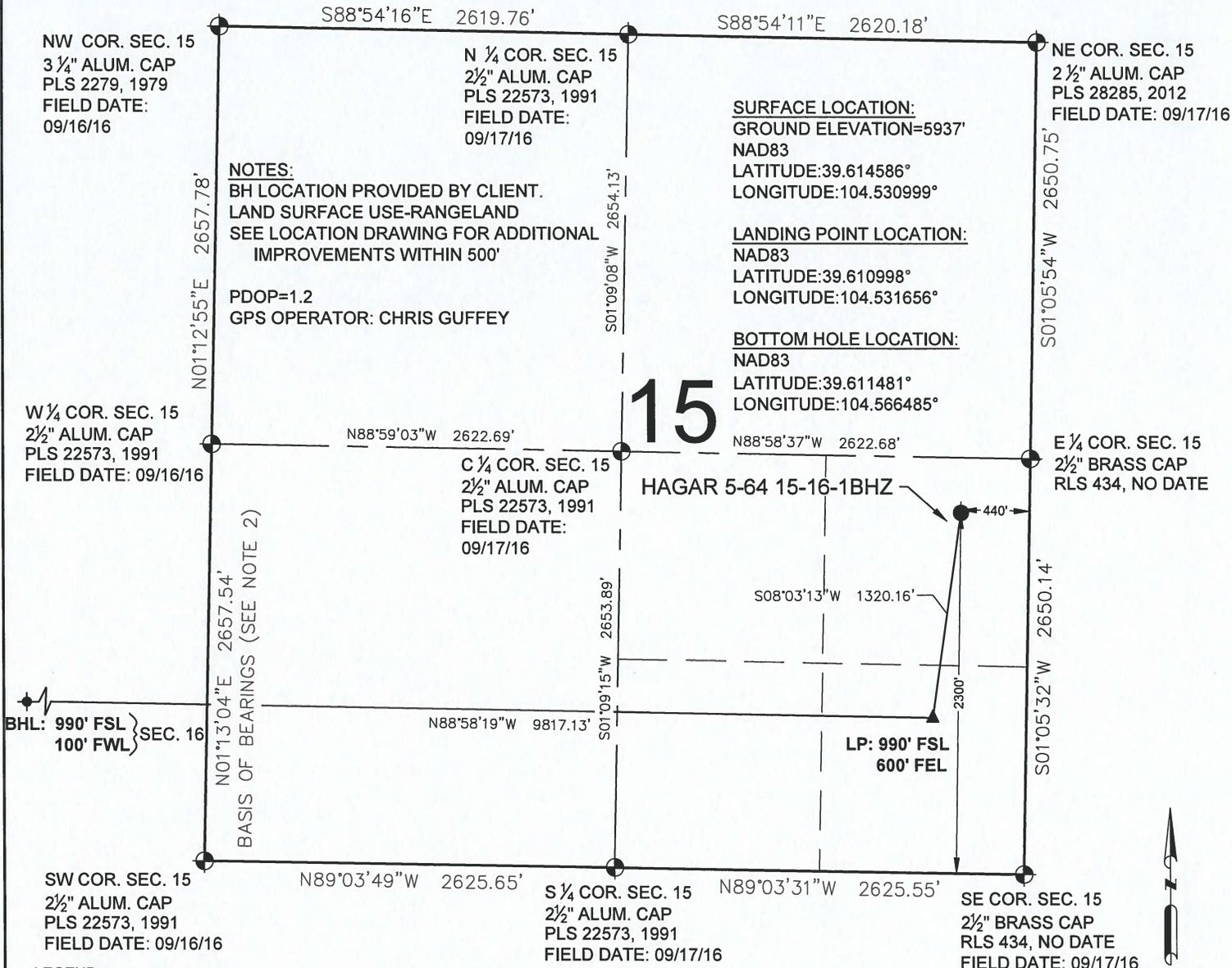


HAGAR 5-64 15-16-1BHZ WELL LOCATION CERTIFICATE



NOTES:
BH LOCATION PROVIDED BY CLIENT.
LAND SURFACE USE-RANGELAND
SEE LOCATION DRAWING FOR ADDITIONAL
IMPROVEMENTS WITHIN 500'

PDOP=1.2
GPS OPERATOR: CHRIS GUFFEY

SURFACE LOCATION:
GROUND ELEVATION=5937'
NAD83
LATITUDE:39.614586°
LONGITUDE:104.530999°

LANDING POINT LOCATION:
NAD83
LATITUDE:39.610998°
LONGITUDE:104.531656°

BOTTOM HOLE LOCATION:
NAD83
LATITUDE:39.611481°
LONGITUDE:104.566485°

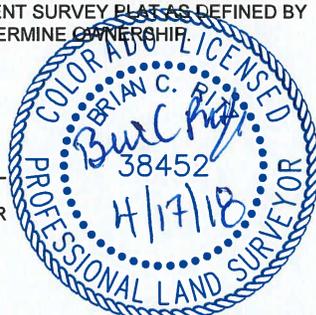
C ¼ COR. SEC. 15
2½" ALUM. CAP
PLS 22573, 1991
FIELD DATE:
09/17/16

S ¼ COR. SEC. 15
2½" ALUM. CAP
PLS 22573, 1991
FIELD DATE: 09/17/16

**WELL HAGAR 5-64 15-16-1BHZ
TO BE LOCATED 2300' 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



NW COR. SEC. 15
3 ½" ALUM. CAP
PLS 2279, 1979
FIELD DATE:
09/16/16

N ¼ COR. SEC. 15
2½" ALUM. CAP
PLS 22573, 1991
FIELD DATE:
09/17/16

NE COR. SEC. 15
2 ½" ALUM. CAP
PLS 28285, 2012
FIELD DATE: 09/17/16

W ¼ COR. SEC. 15
2½" ALUM. CAP
PLS 22573, 1991
FIELD DATE: 09/16/16

N88°59'03"W 2622.69'

N88°58'37"W 2622.68'

E ¼ COR. SEC. 15
2½" BRASS CAP
RLS 434, NO DATE

BHL: 990' FSL
100' FWL

N88°58'19"W 9817.13'

LP: 990' FSL
600' FEL

SW COR. SEC. 15
2½" ALUM. CAP
PLS 22573, 1991
FIELD DATE: 09/16/16

N89°03'49"W 2625.65'

S ¼ COR. SEC. 15
2½" ALUM. CAP
PLS 22573, 1991
FIELD DATE: 09/17/16

N89°03'31"W 2625.55'

SE COR. SEC. 15
2½" BRASS CAP
RLS 434, NO DATE
FIELD DATE: 09/17/16

LEGEND

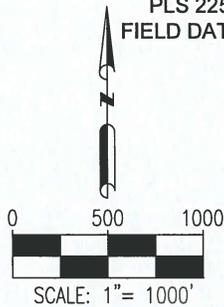
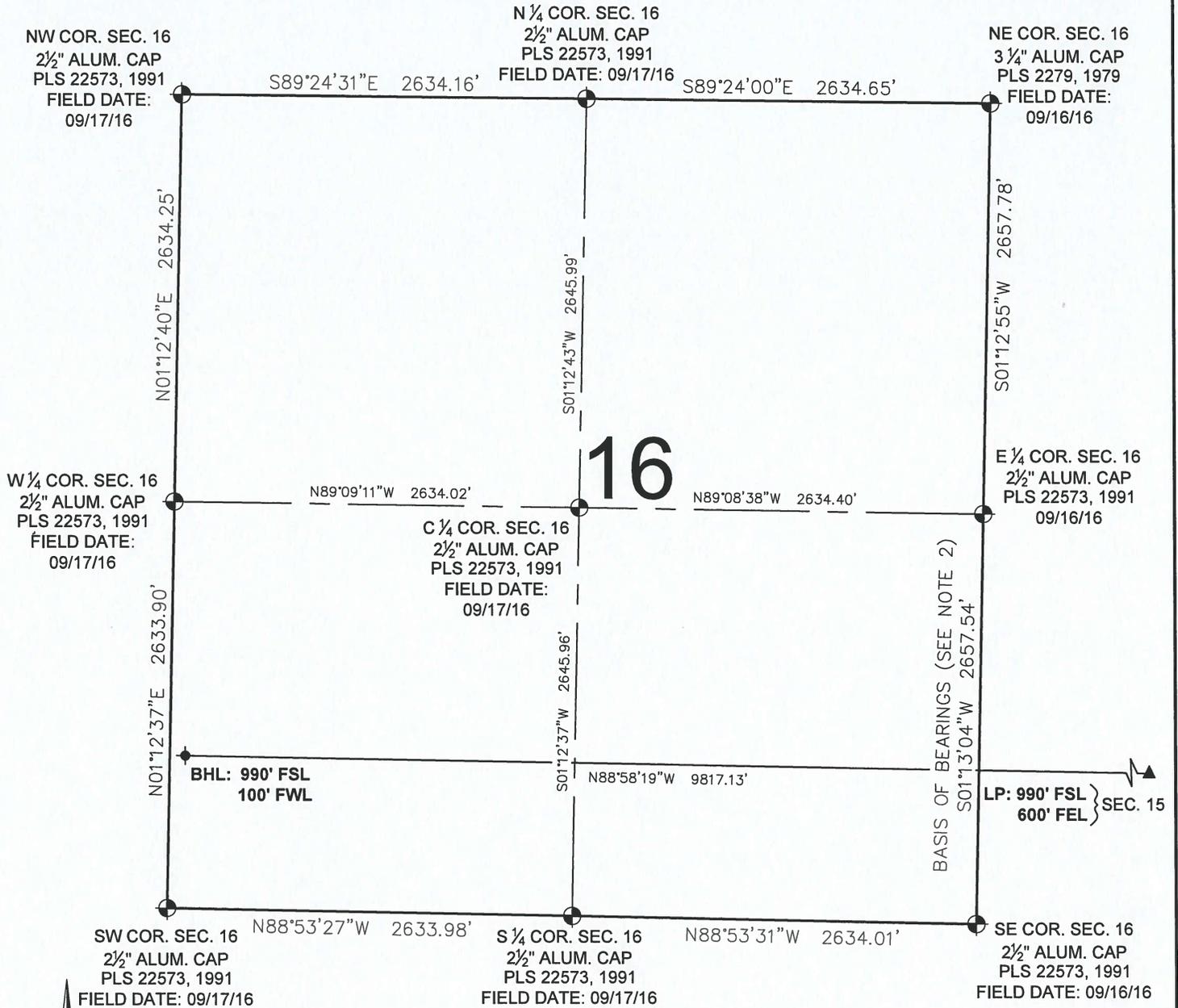
- ⊙ = EXISTING MONUMENT ◆ = BOTTOM HOLE
- = CALCULATED POSITION ▲ = LANDING POINT
- = PROPOSED WELL LP = LANDING POINT
- ◆ = EXISTING WELL BHL = BOTTOM HOLE LOCATION

- 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.

<p>7535 Hilltop Circle Denver, CO 80221 (303) 928-7128 www.ascentgeomatics.com</p>	FIELD DATE: 11-17-16	WELL NAME: HAGAR 5-64 15-16-1BHZ	PREPARED FOR:
	DRAWING DATE: 04-16-18	SURFACE LOCATION: NE 1/4 SE 1/4 SEC. 15, T5S, R64W, 6TH P.M.	
BY: MMP	CHECKED BY: KAD	ARAPAHOE COUNTY, COLORADO	

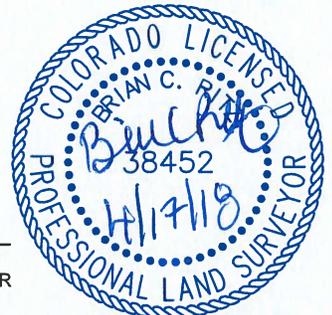
HAGAR 5-64 15-16-1BHZ WELL LOCATION CERTIFICATE



LEGEND

- ⊕ = EXISTING MONUMENT ◆ = BOTTOM HOLE
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- ◆ = EXISTING WELL BHL = BOTTOM HOLE LOCATION

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



SHEET 2 OF 2



FIELD DATE: 11-17-16	WELL NAME: HAGAR 5-64 15-16-1BHZ	PREPARED FOR:
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BY: MMP	CHECKED BY: KAD	