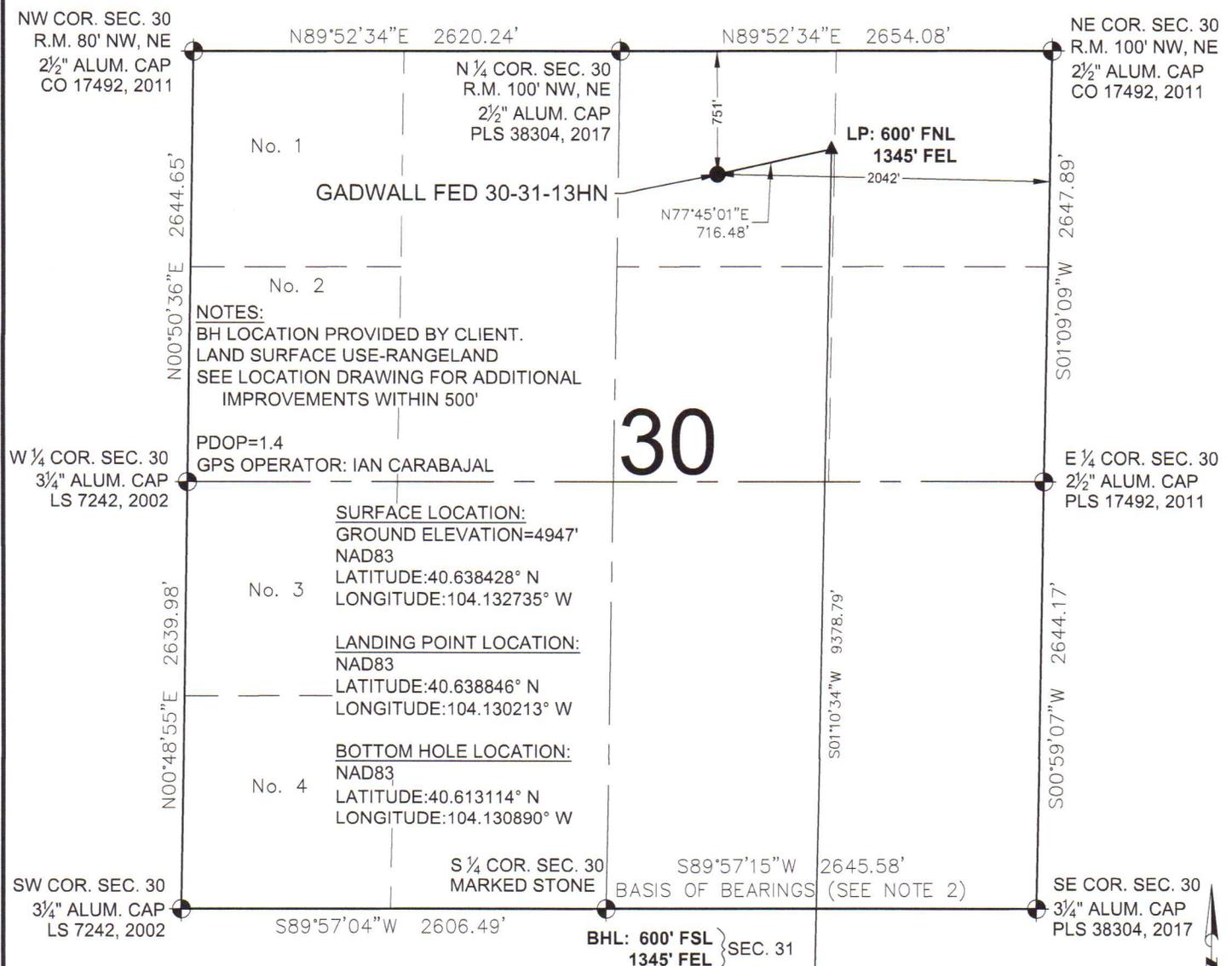


GADWALL FED 30-31-13HN WELL LOCATION CERTIFICATE



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

PDOP=1.4
 GPS OPERATOR: IAN CARABAJAL

SURFACE LOCATION:
 GROUND ELEVATION=4947'
 NAD83
 LATITUDE:40.638428° N
 LONGITUDE:104.132735° W

LANDING POINT LOCATION:
 NAD83
 LATITUDE:40.638846° N
 LONGITUDE:104.130213° W

BOTTOM HOLE LOCATION:
 NAD83
 LATITUDE:40.613114° N
 LONGITUDE:104.130890° W

W ¼ COR. SEC. 30
 ¾" ALUM. CAP
 LS 7242, 2002

SW COR. SEC. 30
 ¾" ALUM. CAP
 LS 7242, 2002

S ¼ COR. SEC. 30
 MARKED STONE

S89°57'15"W 2645.58'
 BASIS OF BEARINGS (SEE NOTE 2)

SE COR. SEC. 30
 ¾" ALUM. CAP
 PLS 38304, 2017

LEGEND

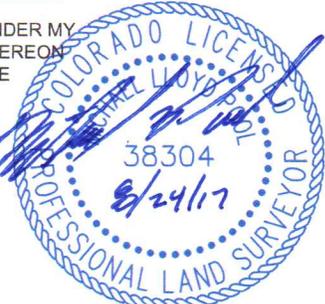
- = EXISTING MONUMENT ◆ = BOTTOM HOLE
- = CALCULATED POSITION ▲ = LANDING POINT
- = PROPOSED WELL LP = LANDING POINT
- ◆ = EXISTING WELL BHL = BOTTOM HOLE LOCATION

**WELL GADWALL FED 30-31-13HN TO
 BE LOCATED 751' FNL & 2042' FEL**



- 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 SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 30, BEARS S89°57'15"W 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 40.655085°N, A CENTRAL MERIDIAN LONGITUDE OF 104.086861°W, AND A SCALE FACTOR ON THE CENTRAL MERIDIAN OF 1.000232 (EXACT). THE LDP BASIS OF BEARINGS IS GEODETIC NORTH.
 4. FIELD VERIFICATION OF MONUMENTS COMPLETED WITHIN 1 YEAR OF SIGNATURE DATE.

I, MICHAEL L. POOL, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO DO HEREBY CERTIFY TO **MALLARD EXPLORATION**, 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.

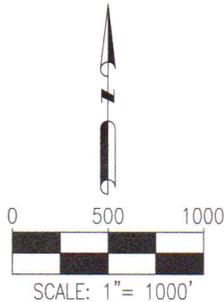
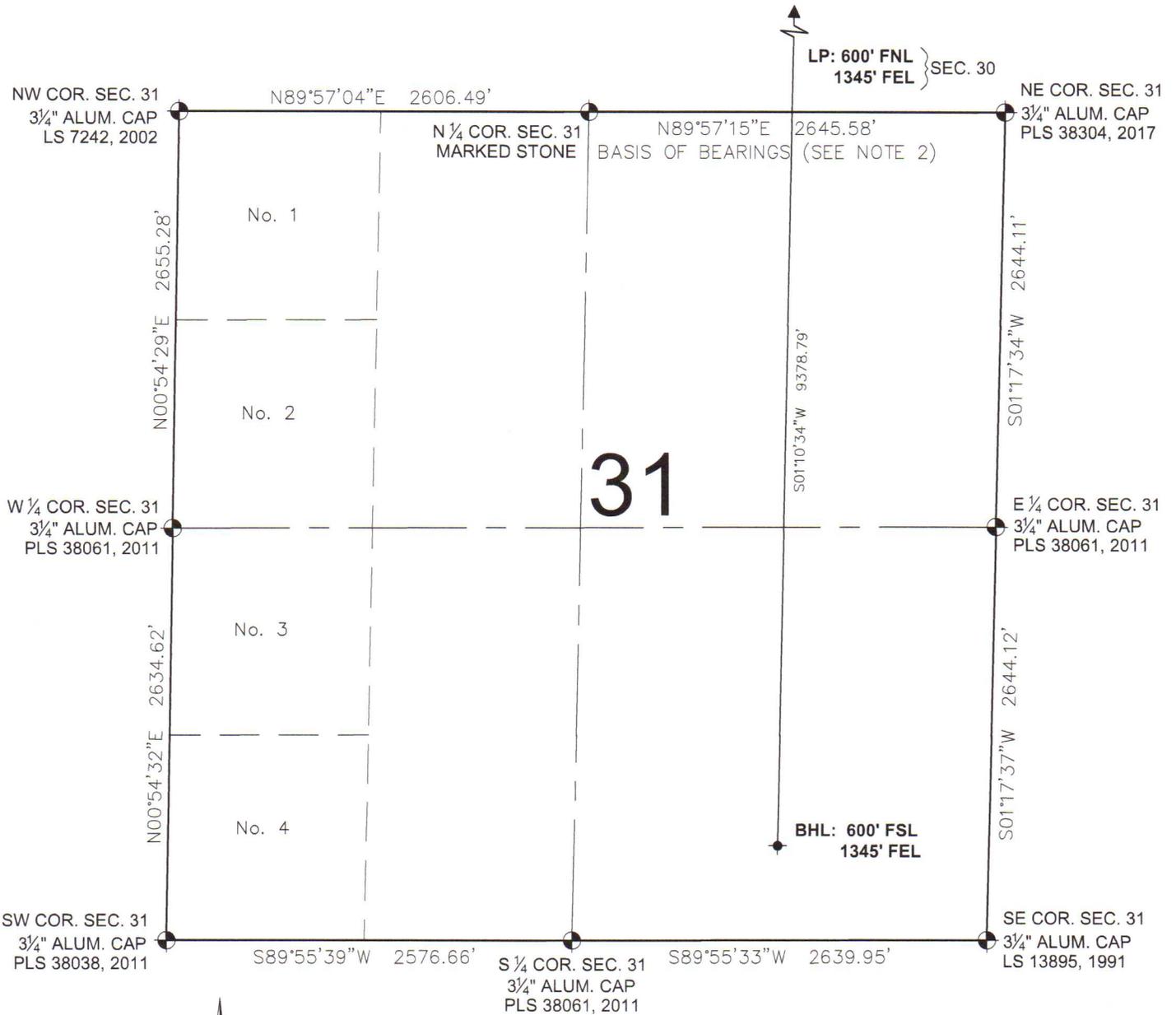


MICHAEL L. POOL, PLS 38304
 COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
 FOR AND ON BEHALF OF P.F.S., LLC

SHEET 1 OF 2

 7535 Hilltop Circle Denver, CO 80221 (303) 928-7128 www.ascentgeomatics.com	FIELD DATE: 08-10-17	WELL NAME: GADWALL FED 30-31-13HN	PREPARED FOR:
	DRAWING DATE: 08-23-17	SURFACE LOCATION: NW 1/4 NE 1/4 SEC. 30 T8N, R60W, 6TH P.M. WELD COUNTY, COLORADO	 MALLARD EXPLORATION

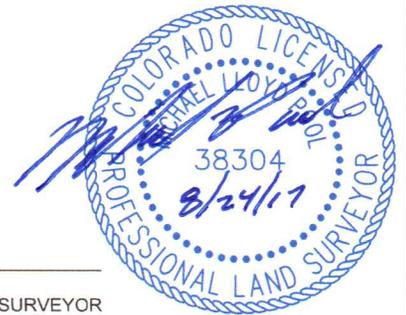
GADWALL FED 30-31-13HN WELL LOCATION CERTIFICATE



LEGEND

- ⊙ = EXISTING MONUMENT
- = CALCULATED POSITION
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MICHAEL L. POOL, PLS 38304
 COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
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SHEET 2 OF 2

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BY: SMF	CHECKED: MJW		