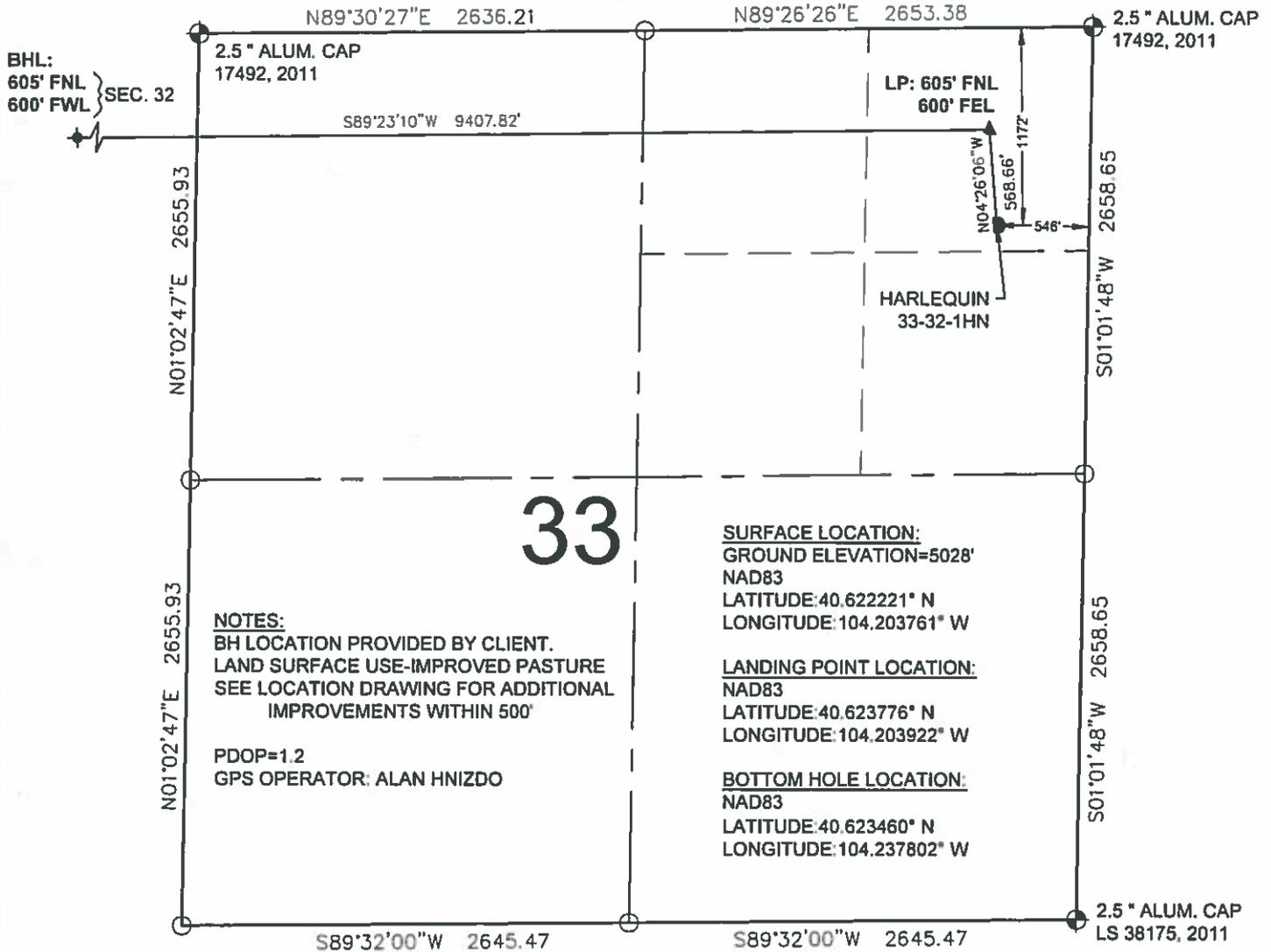


HARLEQUIN 33-32-1HN WELL LOCATION EXHIBIT



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

PDOP=1.2
 GPS OPERATOR: ALAN HNIZDO

SURFACE LOCATION:
 GROUND ELEVATION=5028'
 NAD83
 LATITUDE: 40.622221° N
 LONGITUDE: 104.203761° W

LANDING POINT LOCATION:
 NAD83
 LATITUDE: 40.623776° N
 LONGITUDE: 104.203922° W

BOTTOM HOLE LOCATION:
 NAD83
 LATITUDE: 40.623460° N
 LONGITUDE: 104.237802° W

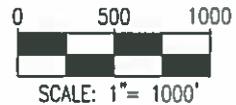
LEGEND

- ⊙ = 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. 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.
3. FIELD VERIFICATION OF MONUMENTS COMPLETED WITHIN 1 YEAR OF SIGNATURE DATE.

**WELL HARLEQUIN 33-32-1HN TO
BE LOCATED 1172' FNL & 546' FEL**



I, ROBERT J. GUFFEY, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO, DO HEREBY STATE TO MALLARD EXPLORATION THAT THE SURVEY AND WELL LOCATION EXHIBIT SHOWN HEREON WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THE DRAWING SHOWN HEREON ACCURATELY DEPICTS THE PROPOSED LOCATION OF THE WELL. THIS EXHIBIT MEETS THE REQUIREMENTS OF A GIS LAND POSITION AS DEFINED BY SECTION 38-51-102 (7.5) C.R.S. AND AS SUCH PER SECTION 38-51-109.3 C.R.S. CANNOT BE RELIED UPON TO DETERMINE OWNERSHIP.



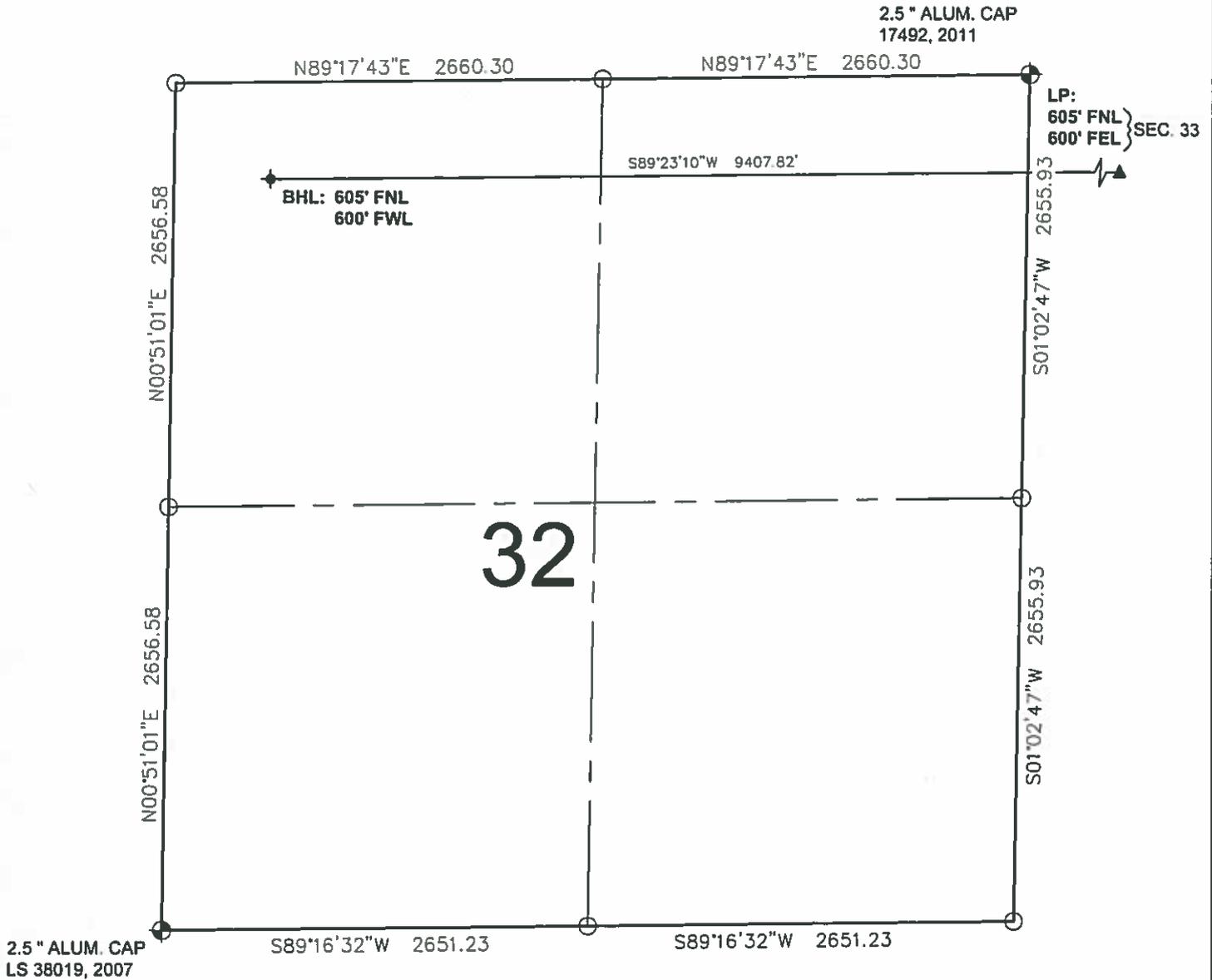
ROBERT J. GUFFEY, PLS 20680
 COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
 FOR AND ON BEHALF OF P.F.S., LLC

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 BE BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THIS SAID DATE OF THIS CERTIFICATION SHOWN HEREON.

SHEET 1 OF 2

	FIELD DATE: 12-13-17	WELL NAME: HARLEQUIN 33-32-1HN	PREPARED FOR:
	DRAWING DATE: 12-14-17	SURFACE LOCATION: NE 1/4 NE 1/4 SEC. 33 T8N, R61W, 6TH P.M. WELD COUNTY, COLORADO	
BY: TCP	CHECKED: SMF		

HARLEQUIN 33-32-1HN WELL LOCATION EXHIBIT



2.5" ALUM. CAP
LS 38019, 2007

2.5" ALUM. CAP
17492, 2011

LP:
605' FNL }
600' FEL } SEC. 33

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LEGEND

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

ROBERT J. GUFFEY, PLS 20680
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
FOR AND ON BEHALF OF P.F.S., LLC



SHEET 2 OF 2



FIELD DATE: 12-13-17	
DRAWING DATE: 12-14-17	
BY: TCP	CHECKED: SMF

WELL NAME: HARLEQUIN 33-32-1HN
SURFACE LOCATION: NE 1/4 NE 1/4 SEC. 33 T8N, R61W, 6TH P.M. WELD COUNTY, COLORADO

