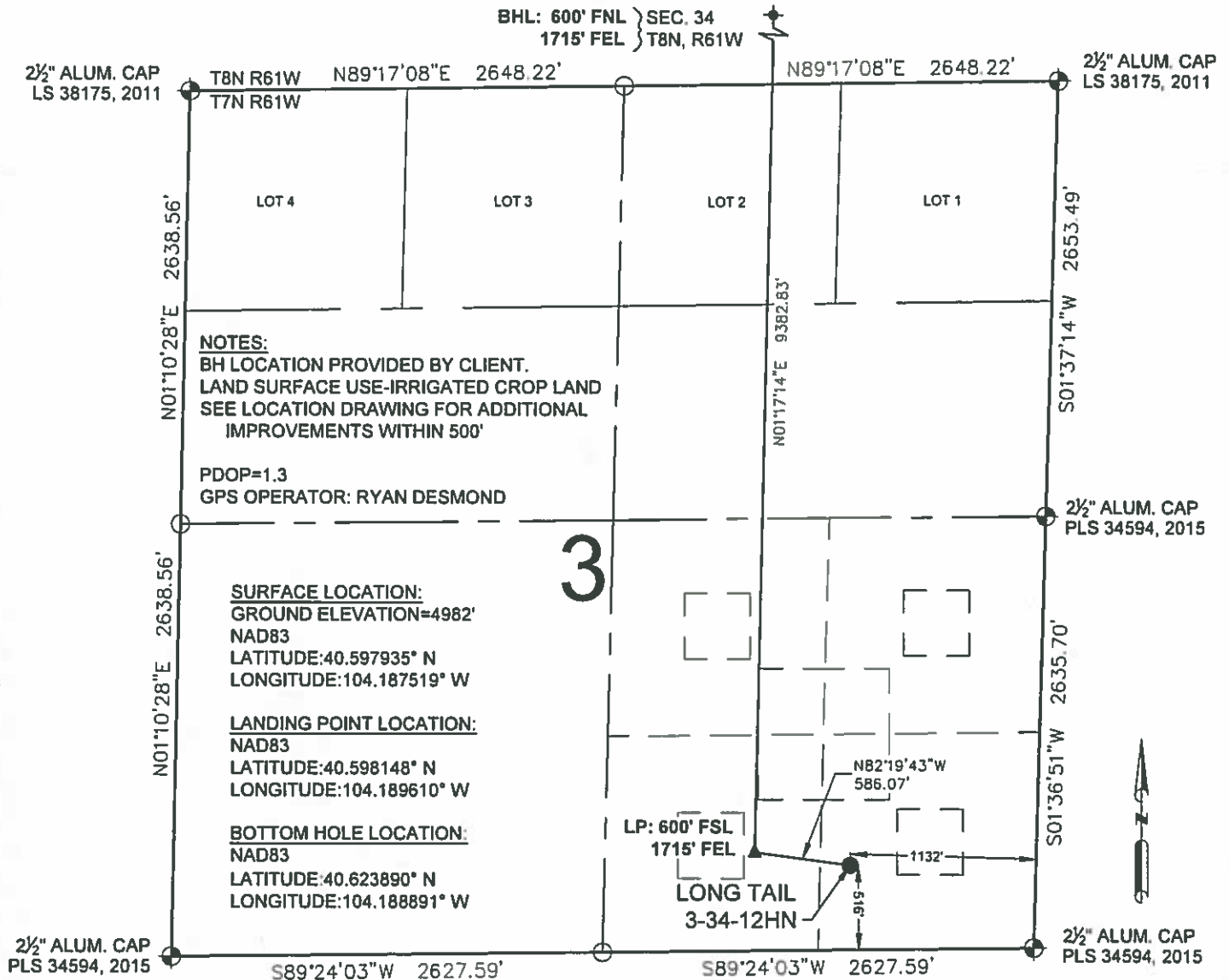


LONG TAIL 3-34-12HN WELL LOCATION EXHIBIT



LEGEND

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

WELL LONG TAIL 3-34-12HN TO BE
LOCATED 516' FSL & 1132' FEL



NOTES:

- THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
- ALL DISTANCES AND BEARINGS SHOWN HEREON ARE GROUND VALUES AS 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.
- FIELD VERIFICATION OF MONUMENTS COMPLETED WITHIN 1 YEAR OF FIELD DATE, UNLESS OTHERWISE NOTED.

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.

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.

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



SHEET 1 OF 2

<p>7535 Hilltop Circle Denver, CO 80221 (303) 926-7128 www.ascentgeomatics.com</p>	FIELD DATE: 12-14-17	WELL NAME: LONG TAIL 3-34-12HN	<p>PREPARED FOR</p> <p>MALLARD EXPLORATION</p>
	DRAWING DATE: 12-15-17	SURFACE LOCATION: SE 1/4, SE 1/4, SEC. 3, T7N, R61W, 6TH P.M. WELD COUNTY, COLORADO	
BY: FWM	CHECKED: SMF		

LONG TAIL 3-34-12HN WELL LOCATION EXHIBIT

2½" ALUM. CAP
CO 17492, 2011

N89°35'39"E 2644.08'

N89°35'39"E 2644.08'

2½" ALUM. CAP
PLS 20680, 2017

N01°01'48"E 2658.65'

BHL: 600' FNL
1715' FEL

S00°56'57"W 2644.30'

N01°01'48"E 2658.65'

N01°17'14"E 9382.83'

S00°56'57"W 2644.30'

34

2½" ALUM. CAP
LS 38175, 2011

T8N R61W
T7N R61W

S89°17'08"W 2648.22'

S89°17'08"W 2648.22'

2½" ALUM. CAP
LS 38175, 2011

LP: 600' FSL } SEC. 3
1715' FEL } T7N, R61W

0 500 1000
SCALE: 1" = 1000'

LEGEND

- ⊕ = EXISTING MONUMENT
- = CALCULATED POSITION
- = PROPOSED WELL
- ◆ = EXISTING WELL
- ⬆ = BOTTOM HOLE
- ▲ = LANDING POINT
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- 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



7535 Hilltop Circle
Denver, CO 80221
(303) 928-7121
www.ascentgeomatics.com

FIELD DATE:
12-14-17

DRAWING DATE:
12-15-17

BY:
FWM

CHECKED:
SMF

WELL NAME:
LONG TAIL 3-34-12HN

SURFACE LOCATION:

SE 1/4, SE 1/4, SEC. 3, T7N, R61W, 6TH P.M.
WELD COUNTY, COLORADO

PREPARED FOR

