

# SHULL FED 31-32-3HN WELL LOCATION CERTIFICATE

N ¼ COR. SEC. 31  
2 ½" ALUM. CAP  
PLS 38452, 2016

S89°58'35"E 2623.80'

NW COR. SEC. 31  
2 ½" ALUM. CAP  
PLS 38452, 2016

S89°58'21"E 2638.92'

LOT 1

SHULL FED 31-32-3HN

NE COR. SEC. 31  
2 ½" ALUM. CAP  
PLS 17492, 2010

N00°06'30"W 2667.05'

2129'

S80°57'27"E  
1015.41'

N89°44'23"E 6937.08'

LP: 1085' FNL  
2140' FEL

BHL: 1085' FNL  
460' FEL } SEC. 32

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

PDOP=1.8  
GPS OPERATOR: ALEC SHULL

W ¼ COR. SEC. 31  
2 ½" ALUM. CAP  
PLS 22097, 2012

NE COR. LOT 3  
2 ½" ALUM. CAP  
PLS 22097, NO DATE

LOT 3

# 31

**SURFACE LOCATION:**  
GROUND ELEVATION=4905'  
NAD83  
LATITUDE:40.711421° N  
LONGITUDE:104.022654° W

**LANDING POINT LOCATION:**  
NAD83  
LATITUDE:40.710981° N  
LONGITUDE:104.019038° W

**BOTTOM HOLE LOCATION:**  
NAD83  
LATITUDE:40.711051° N  
LONGITUDE:103.994022° W

SW COR. SEC. 31  
2 ½" ALUM. CAP  
PLS 37897, 2010

W ¼ COR. SEC. 31  
2 ½" ALUM. CAP  
PLS 22097, 2012

LOT 4

N89°15'01"W  
2653.36'

S ¼ COR. SEC. 31  
2 ½" ALUM. CAP  
PLS 38452, 2016

N89°15'24"W  
2653.31'

SE COR. SEC. 31  
2 ½" ALUM. CAP  
PLS 22097, NO DATE

NW COR. SEC. 6  
2 ½" ALUM. CAP  
PLS 37897, 2010

S89°15'06"E  
2634.10'

N ¼ COR. SEC. 6  
2 ½" ALUM. CAP  
PLS 38452, 2016

S89°31'16"E 2640.64'

NE COR. SEC. 6  
2 ½" ALUM. CAP  
PLS 37897, 2010

N89°18'21"E  
2624.31'

**LEGEND**

- ⊕ = EXISTING MONUMENT
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- ▲ = LANDING POINT
- LP = LANDING POINT
- BHL = BOTTOM HOLE LOCATION

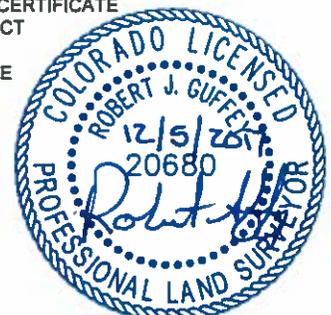
**WELL SHULL FED 31-32-3HN TO BE  
LOCATED 926' FNL & 2129' FWL**



**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 EAST LINE OF THE SOUTHEAST QUARTER OF SECTION 31, BEARS S00°34'05"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 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, ROBERT J. GUFFEY, 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.

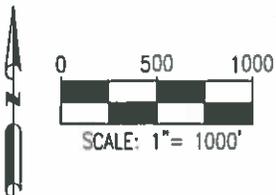
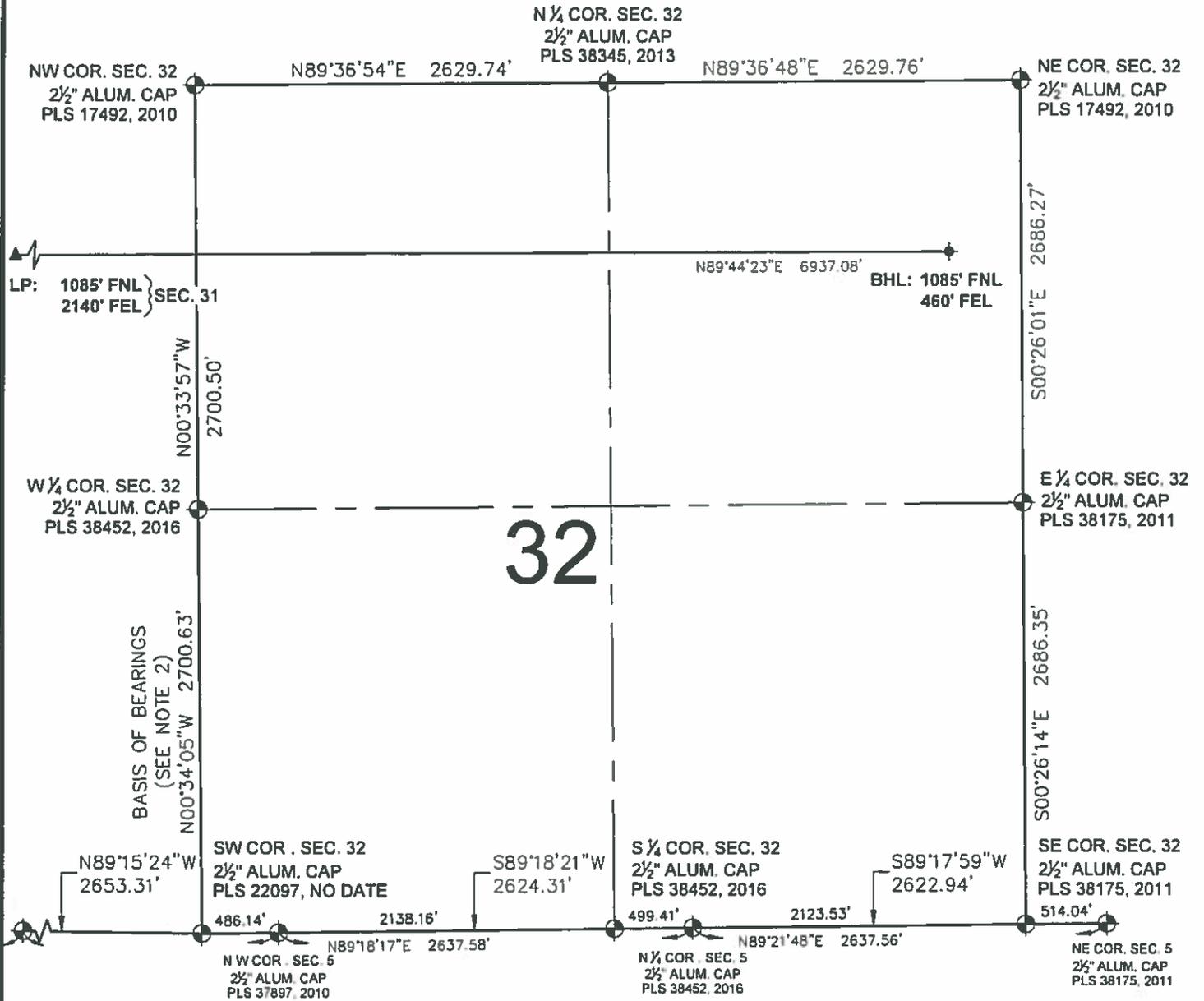


ROBERT J. GUFFEY, PLS 20680  
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR  
FOR AND ON BEHALF OF P.F.S., LLC

SHEET 1 OF 2

<p><b>ASCENT</b> GEOMATICS SOLUTIONS</p>	FIELD DATE: 02-24-16	WELL NAME: SHULL FED 31-32-3HN	PREPARED FOR <p><b>MALLARD</b> EXPLORATION</p>
	DRAWING DATE: 11-28-17	SURFACE LOCATION: NE 1/4 NW 1/4 SEC. 31 T9N, R59W, 6TH P.M. WELD COUNTY, COLORADO	
7535 Hilltop Circle Denver, CO 80221 (303) 928-7128 www.ascentgeomatics.com	BY: DJP	CHECKED: SMF	

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SHEET 2 OF 2

<p style="font-size: 8px;">2555 Hilltop Circle Denver, CO 80221 (303) 928-7128 www.ascentsolutions.com</p>	FIELD DATE: 02-24-16	WELL NAME: SHULL FED 31-32-3HN	PREPARED FOR 
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