

SHULL FED 31-32-4HN WELL LOCATION CERTIFICATE

N ¼ COR. SEC. 31

2 ½" ALUM. CAP

PLS 38452, 2016 S89°58'35"E 2623.80'

NE COR. SEC. 31

2 ½" ALUM. CAP

PLS 17492, 2010

NW COR. SEC. 31

2 ½" ALUM. CAP

PLS 38452, 2016

S89°58'21"E 2638.92'

LOT 1

SHULL FED 31-32-4HN

N00°06'30"W 2667.05'

2148'

942'

S52°20'44"E
1250.03'

2700.50'
S00°33'57"E

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

LP: 1705' FNL
2140' FEL

BHL: 1705' FNL
460' FEL } SEC. 32

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:40.711378° N

LONGITUDE:104.022585° W

LANDING POINT LOCATION:

NAD83

LATITUDE:40.709280° N

LONGITUDE:104.019018° W

BOTTOM HOLE LOCATION:

NAD83

LATITUDE:40.709349° N

LONGITUDE:103.994008° 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'

2135.53'

498.56'

2154.62'

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'

S00°34'05"E 2700.63'
BASIS OF BEARINGS
(SEE NOTE 2)

LEGEND

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

WELL SHULL FED 31-32-4HN TO BE
LOCATED 942' FNL & 2148' FWL



SCALE: 1" = 1000'

NOTES

- THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
- 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.
- 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.
- FIELD VERIFICATION OF MONUMENTS COMPLETED WITHIN 1 YEAR OF SIGNATURE DATE.

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.

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.

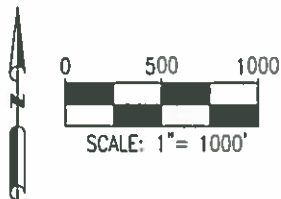
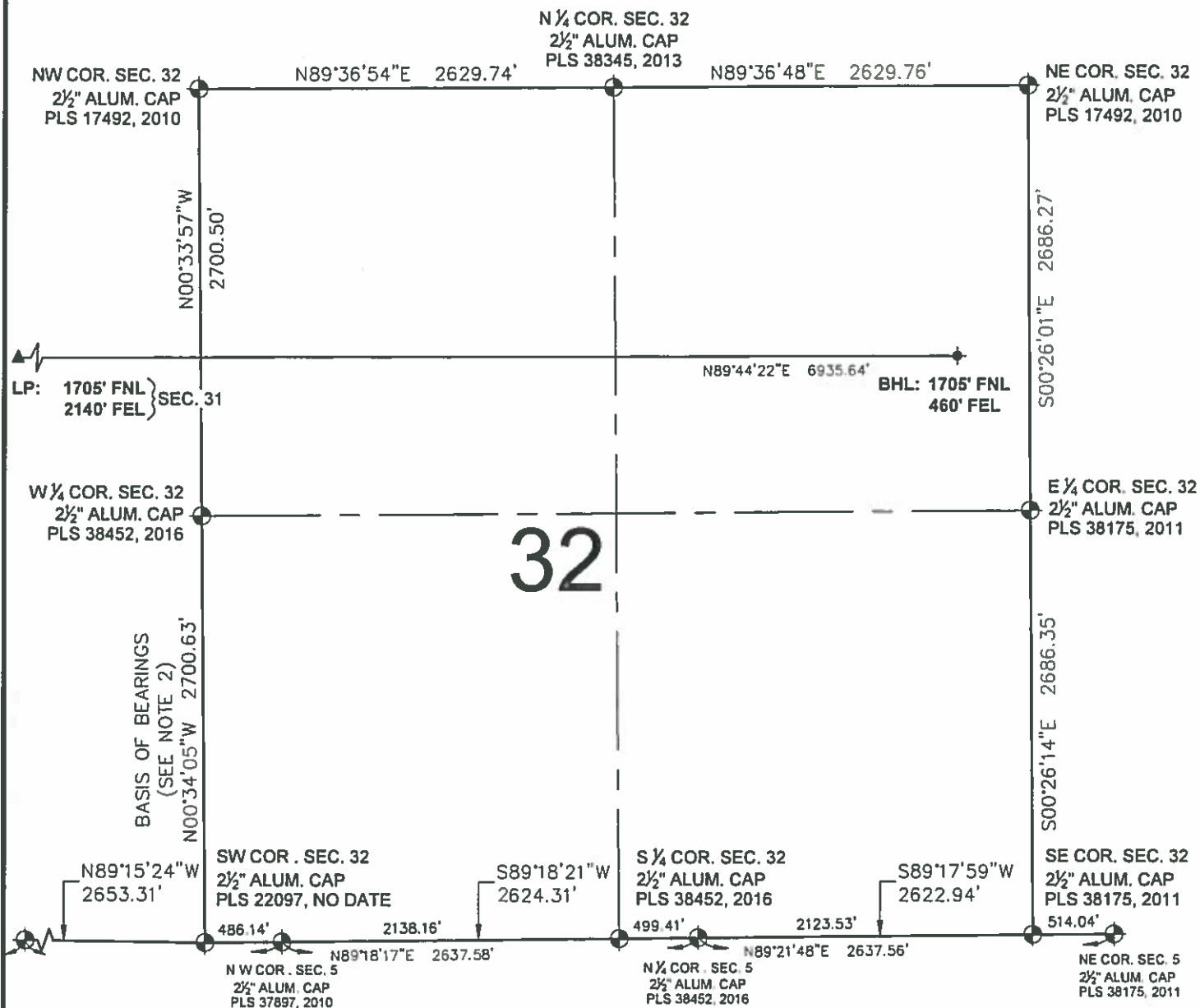
ROBERT J. GUFFEY, PLS 20680
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
FOR AND ON BEHALF OF P.F.S., LLC



SHEET 1 OF 2

 7535 Hilltop Circle Denver, CO 80221 (303) 928-7178 www.ascentgeomatics.com	FIELD DATE: 02-24-16	WELL NAME: SHULL FED 31-32-4HN	PREPARED FOR
	DRAWING DATE: 11-28-17	SURFACE LOCATION: NE 1/4 NW 1/4 SEC. 31 T9N, R59W, 6TH P.M. WELD COUNTY, COLORADO	
BY: DJP	CHECKED SMF		

SHULL FED 31-32-4HN WELL LOCATION CERTIFICATE





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



SHEET 2 OF 2

 <p>ASCENT GEOMATICS SOLUTIONS</p>	FIELD DATE: 02-24-16	WELL NAME: SHULL FED 31-32-4HN	PREPARED FOR  <p>MALLARD 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	
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