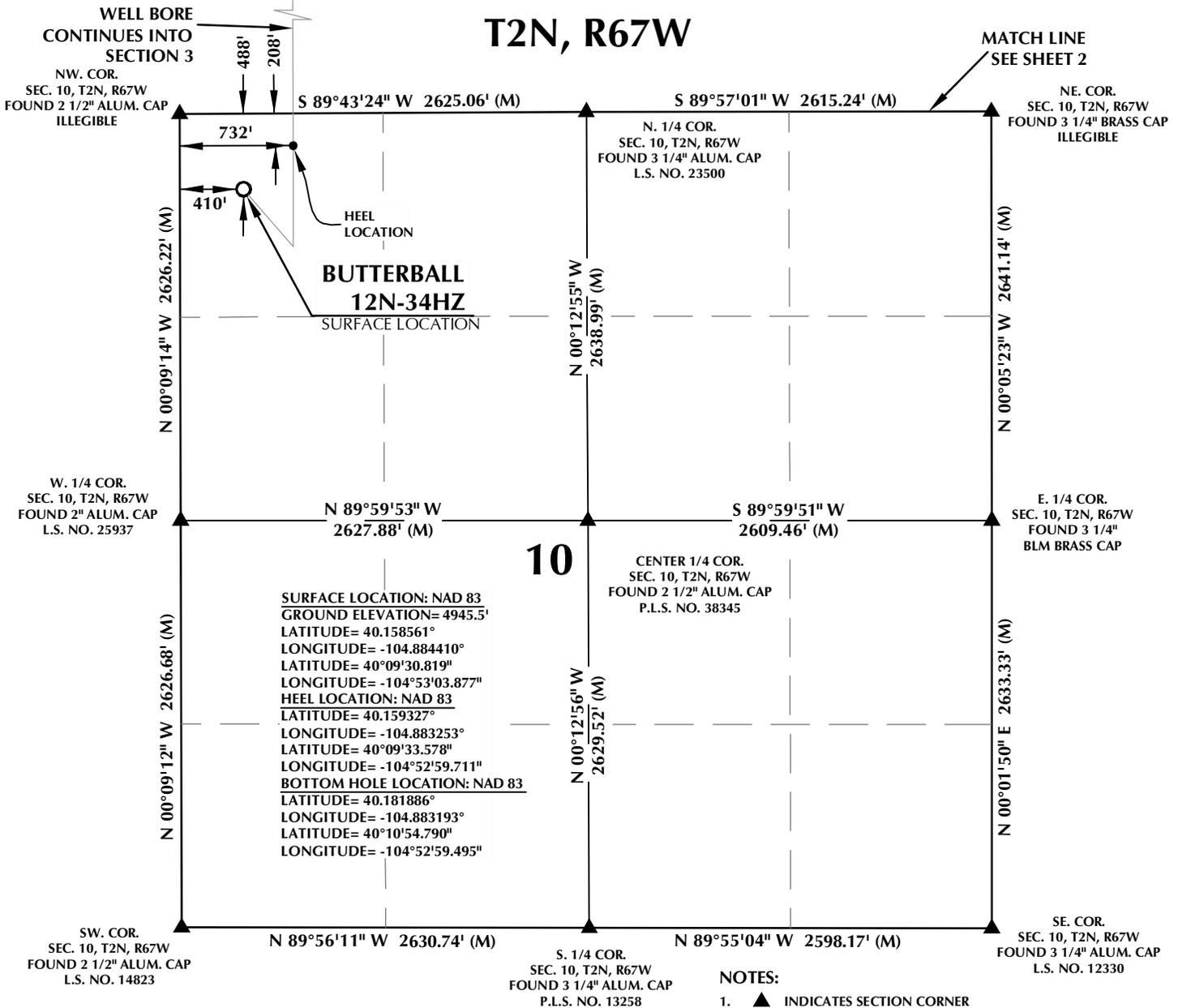


T2N, R67W

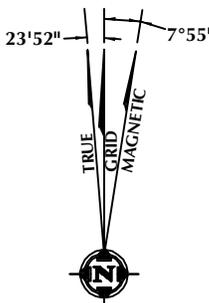


CERTIFICATE OF SURVEYOR:

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. 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.

Randall K. French
RANDALL K. FRENCH
 PROFESSIONAL LAND SURVEYOR
 COLORADO REGISTRATION NUMBER 14851

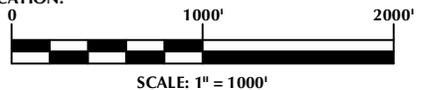
NOTE: ACCORDING TO COLORADO STATE LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE ON THE CERTIFICATION SHOWN HEREON.



NOTE: MAGNETIC NORTH IS CURRENT AS OF 10/10/2016. MAGNETIC NORTH CHANGES WEST 0°06' PER YEAR.

NOTES:

- ▲ INDICATES SECTION CORNER
- INDICATES CALCULATED CORNER
- ELEVATION BASED ON NAVD88 (GEOID12B)
- BASIS OF BEARING DERIVED FROM COLORADO COORDINATE SYSTEM OF 1983 NORTH ZONE.
- ALL MEASURED DISTANCES ARE GRID.
COMBINED SCALE FACTOR: .99972597 CALCULATED FROM THE N. 1/4 CORNER OF SECTION 10, T2N, R67W
- OPERATOR: ROB WILSON / PDOP = 1.3
- SEE ADDENDUM TO WELL LOCATION CERTIFICATE FOR EXISTING IMPROVEMENTS WITHIN 500' OF THE WELL PAD.
- WELL FOOTAGES ARE MEASURED AT RIGHT ANGLES TO THE SECTION LINES.
- THE BOTTOM OF HOLE BEARS N00°16'53"W, 8218' FROM THE HEEL LOCATION.



WELL PAD - BUTTERBALL 32C-34HZ

BUTTERBALL 12N-34HZ
 WELL LOCATION CERTIFICATE
 488' FNL & 410' FWL NWNW (SURFACE)
 208' FNL & 732' FWL NWNW (HEEL)
 LOCATED IN SECTION 10
 T2N, R67W, 6TH P.M.
 2582' FSL & 711' FWL NWSW (BOTTOM)
 LOCATED IN SECTION 34
 T3N, R67W, 6TH P.M.
 WELD COUNTY, COLORADO

Kerr-McGee Oil & Gas Onshore L.P.
 1099 18th Street
 Denver, Colorado 80202



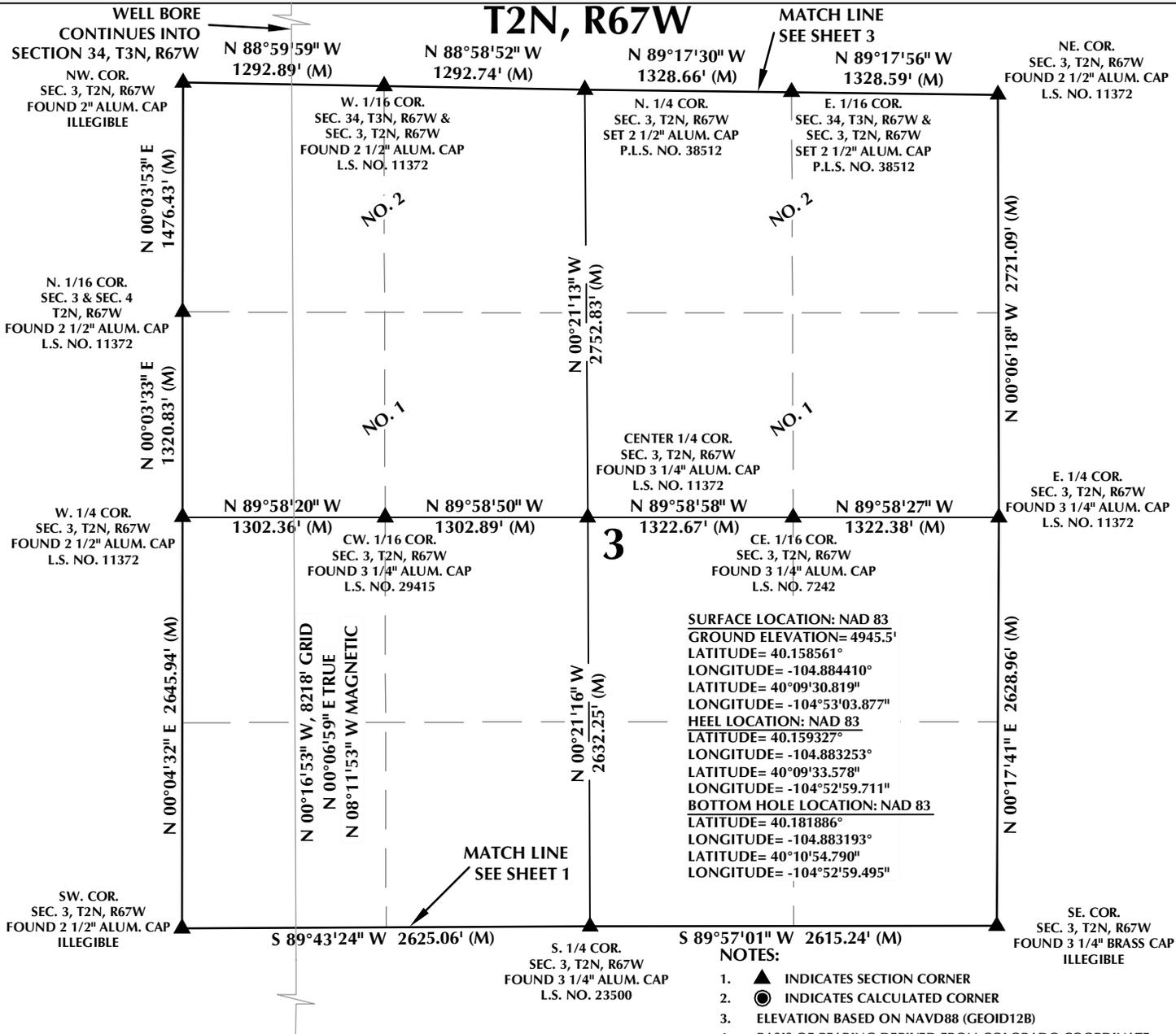
CONSULTING, LLC

SHERIDAN OFFICE: 1095 Saberton Avenue, Sheridan, Wyoming 82801, Phone 307-674-0609
 LOVELAND OFFICE: 1635 Foxtrail Drive, Suite 204, Loveland, Colorado 80538, Phone 970-776-4331

DRAFTED BY: LMO	CHECKED BY: RKF	SHEET NO: 1
DATE DRAFTED: 10/18/16	DATE SURVEYED: 1/26/16	1 OF 3
REVISED:	FILE NAME: 13-90	

K:\ADAR\2013\2013_90_COLORADO_T2N_R67W_SEC_10_EAST\PLATS\BUTTERBALL_32C-34HZ.dwg, 10/18/2016 4:21:27 PM, lsa

T2N, R67W

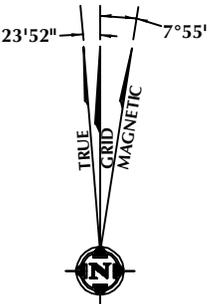


CERTIFICATE OF SURVEYOR:

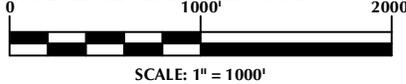
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Randall K. French
Randall K. French
 PROFESSIONAL LAND SURVEYOR
 COLORADO REGISTRATION NUMBER 8512

NOTE: ACCORDING TO COLORADO STATE 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 THE DATE ON THE CERTIFICATION SHOWN HEREON.



- NOTES:**
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 - BASIS OF BEARING DERIVED FROM COLORADO COORDINATE SYSTEM OF 1983 NORTH ZONE.
 - ALL MEASURED DISTANCES ARE GRID. COMBINED SCALE FACTOR: .99972597 CALCULATED FROM THE N. 1/4 CORNER OF SECTION 10, T2N, R67W
 - OPERATOR: ROB WILSON / PDOP = 1.3
 - SEE ADDENDUM TO WELL LOCATION CERTIFICATE FOR EXISTING IMPROVEMENTS WITHIN 500' OF THE WELL PAD.
 - WELL FOOTAGES ARE MEASURED AT RIGHT ANGLES TO THE SECTION LINES.
 - THE BOTTOM OF HOLE BEARS N00°16'53"W, 8218' FROM THE HEEL LOCATION.
 - NO. 1 & NO. 2 AS SHOWN HEREON ARE GOVERNMENT LOTS 1 & 2 PER THE ORIGINAL GLO SURVEY



WELL PAD - BUTTERBALL 32C-34HZ

BUTTERBALL 12N-34HZ
 WELL LOCATION CERTIFICATE
 488' FNL & 410' FWL NWNW (SURFACE)
 208' FNL & 732' FWL NWNW (HEEL)
 LOCATED IN SECTION 10
 T2N, R67W, 6TH P.M.
 2582' FSL & 711' FWL NWSW (BOTTOM)
 LOCATED IN SECTION 34
 T3N, R67W, 6TH P.M.
 WELD COUNTY, COLORADO

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T3N, R67W

W. 1/16 COR.
SEC. 27 & SEC. 34, T3N, R67W
FOUND 3 1/4" ALUM. CAP
L.S. NO. 7242

N 89°35'08" W 1290.43' (M)
N 89°33'47" W 1288.50' (M)

N 89°03'00" W 2591.81' (M)

NE COR.
SEC. 34, T3N, R67W
FOUND 3 1/4" ALUM. CAP
L.S. NO. 7242

NW COR.
SEC. 34, T3N, R67W
FOUND 2" ALUM. CAP
P.L.S. NO. 23500

N. 1/4 COR.
SEC. 34, T3N, R67W
FOUND 3 1/4" ALUM. CAP
L.S. NO. 7242

SURFACE LOCATION: NAD 83
GROUND ELEVATION= 4945.5'
LATITUDE= 40.158561°
LONGITUDE= -104.884410°
LATITUDE= 40°09'30.819"
LONGITUDE= -104°53'03.877"
HEEL LOCATION: NAD 83
LATITUDE= 40.159327°
LONGITUDE= -104.883253°
LATITUDE= 40°09'33.578"
LONGITUDE= -104°52'59.711"
BOTTOM HOLE LOCATION: NAD 83
LATITUDE= 40.181886°
LONGITUDE= -104.883193°
LATITUDE= 40°10'54.790"
LONGITUDE= -104°52'59.495"

N 01°18'22" W
1343.82' (M)

N. 1/16 COR.
SEC. 34 & SEC. 35
FOUND 2" ALUM. CAP
L.S. NO. 25937

N 00°41'35" W
2665.46' (M)

N 00°41'03" W 2643.06' (M)

N 89°04'49" W
1290.05' (M)

CW. 1/16 COR.
SEC. 34, T3N, R67W
FOUND 2" ALUM. CAP
P.L.S. NO. 23500

N 89°04'26" W
1289.83' (M)

CENTER 1/4 COR.
SEC. 34, T3N, R67W
FOUND 3 1/4" ALUM. CAP
P.L.S. NO. 13258

N 88°36'42" W 1310.35' (M)
N 88°35'54" W 1310.00' (M)
CE. 1/16 COR. SEC. 34, T3N, R67W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 28279

N 01°16'05" W
1342.95' (M)

E. 1/4 COR.
SEC. 34, T3N, R67W
FOUND 2" ALUM. CAP
L.S. NO. 25937

W. 1/4 COR.
SEC. 34, T3N, R67W
FOUND 2 1/2" ALUM. CAP
P.L.S. NO. 24305

N 00°34'07" W 2682.42' (M)

1241'

N 00°16'53" W 8218' GRID
N 00°06'59" E TRUE
N 08°11'53" W MAGNETIC

BOTTOM OF HOLE:
2582' FSL & 711' FWL

MATCH LINE
SEE SHEET 2

N 00°41'20" W
2686.48' (M)

N 01°30'20" W 2656.09' (M)

E. 1/16 COR.
SEC. 34, T3N, R67W &
SEC. 3, T2N, R67W
SET 2 1/2" ALUM. CAP
P.L.S. NO. 38512

SE COR.
SEC. 34, T3N, R67W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 11372

N 88°59'59" W 1292.89' (M)

W. 1/16 COR. SEC. 34, T3N, R67W &
SEC. 3, T2N, R67W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 11372

N 88°58'52" W 1292.74' (M)

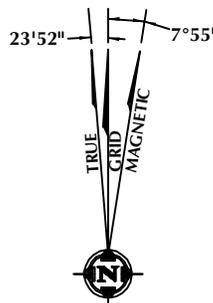
S. 1/4 COR. SEC. 34, T3N, R67W
SET 2 1/2" ALUM. CAP
P.L.S. NO. 38512

N 89°17'30" W 1328.66' (M)

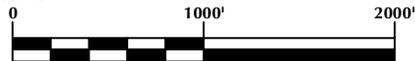
N 89°17'56" W 1328.59' (M)

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NOTE: MAGNETIC NORTH IS CURRENT AS OF 10/10/2016.
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SCALE: 1" = 1000'

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Randall K. French
RANDALL K. FRENCH
PROFESSIONAL LAND SURVEYOR
COLORADO REGISTRATION NUMBER 38512

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