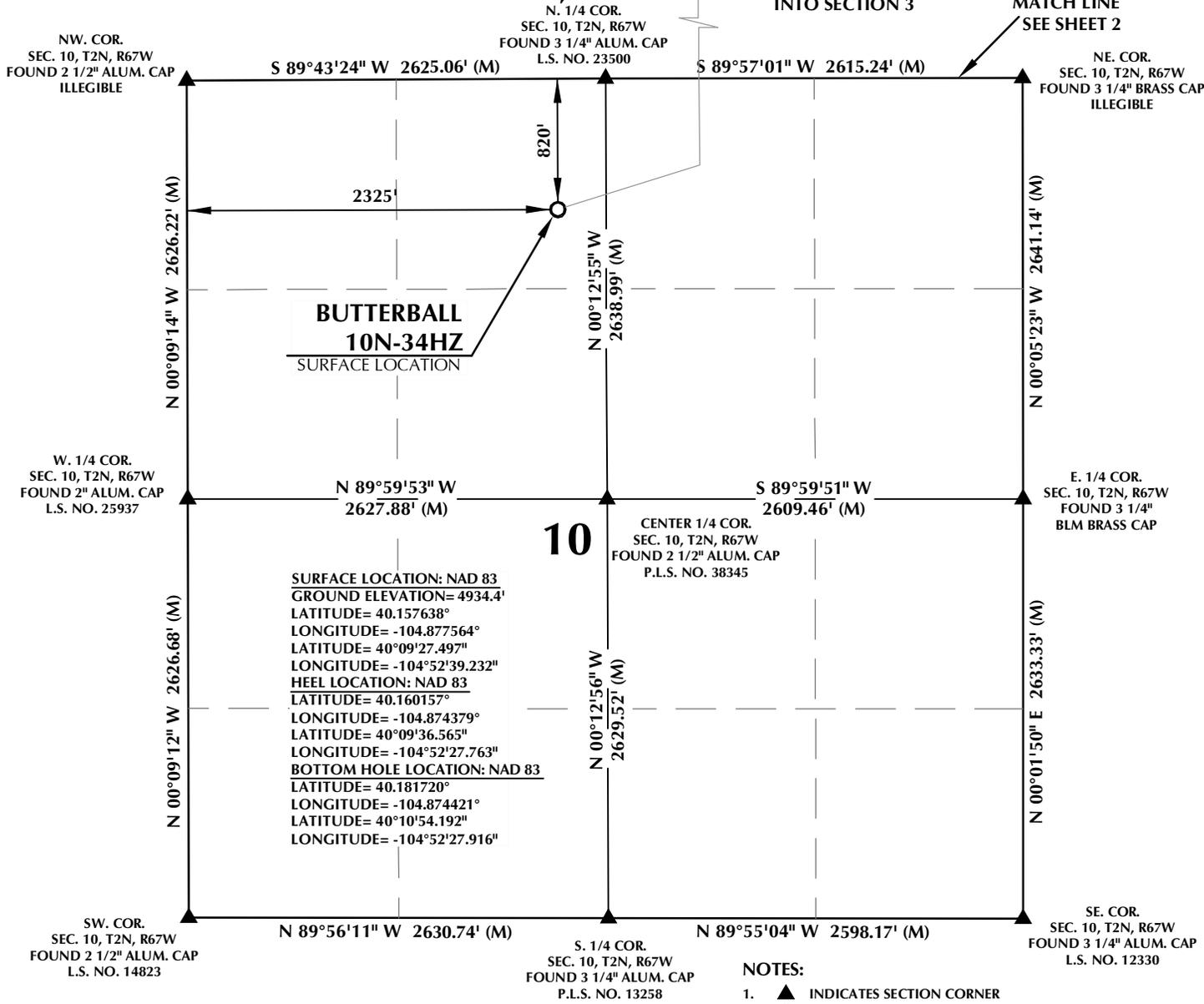


T2N, R67W

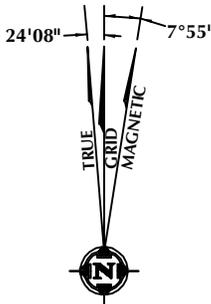


CERTIFICATE OF SURVEYOR:

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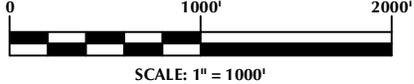
Randall K. French
 RANDALL K. FRENCH
 PROFESSIONAL LAND SURVEYOR
 COLORADO REGISTRATION NUMBER 38512

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



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 = 1.1
- 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°29'25"W, 7855' FROM THE HEEL LOCATION.



WELL PAD - BUTTERBALL 25C-34HZ

BUTTERBALL 10N-34HZ
 WELL LOCATION CERTIFICATE
 820' FNL & 2325' FWL NENW (SURFACE)
 LOCATED IN SECTION 10
 102' FSL & 2030' FEL SWSE (HEEL)
 LOCATED IN SECTION 3
 T2N, R67W, 6TH P.M.
 2579' FSL & 2036' FEL NWSE (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

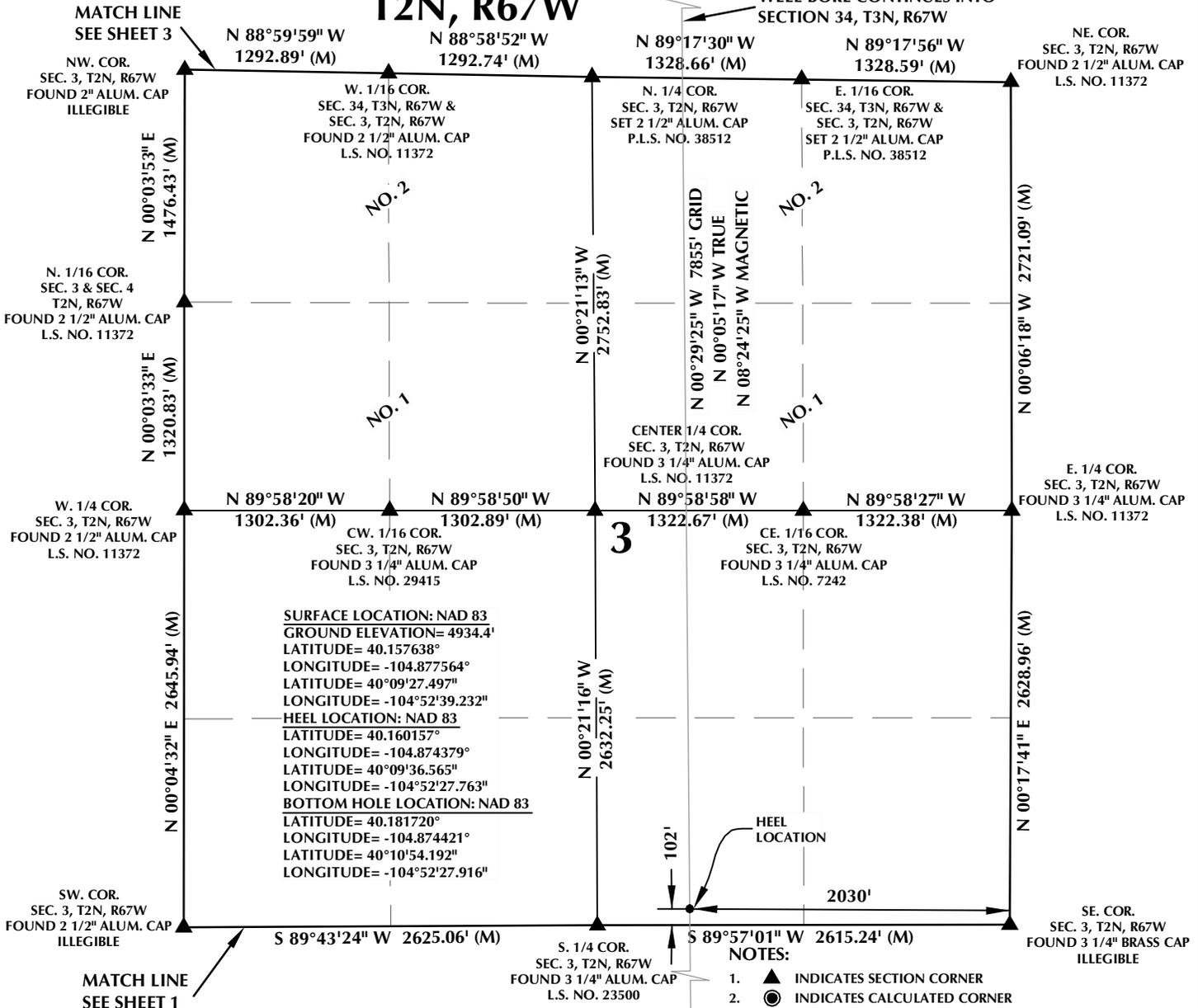
LOVELAND OFFICE
 1635 Foxtrail Drive, Suite 204
 Loveland, Colorado 80538
 Phone 970-776-4331

DRAFTED BY: LMO	CHECKED BY: RKF	SHEET NO: 1 1 OF 3
DATE DRAFTED: 10/19/16	DATE SURVEYED: 7/26/16	
REVISED:	FILE NAME: 13-90	

K:\ADARKO\2013\13-90 COLORADO T2N R67W SEC 10 EAST PLATS\BUTTERBALL 25C-34HZ\BB 25C-34HZ.dwg 10/20/2016 8:13:52 AM lba

T2N, R67W

WELL BORE CONTINUES INTO SECTION 34, T3N, R67W



SURFACE LOCATION: NAD 83
 GROUND ELEVATION= 4934.4'
 LATITUDE= 40.157638°
 LONGITUDE= -104.877564°
 LATITUDE= 40°09'27.497"
 LONGITUDE= -104°52'39.232"
HEEL LOCATION: NAD 83
 LATITUDE= 40.160157°
 LONGITUDE= -104.874379°
 LATITUDE= 40°09'36.565"
 LONGITUDE= -104°52'27.763"
BOTTOM HOLE LOCATION: NAD 83
 LATITUDE= 40.181720°
 LONGITUDE= -104.874421°
 LATITUDE= 40°10'54.192"
 LONGITUDE= -104°52'27.916"

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- THE BOTTOM OF HOLE BEARS N00°29'25"W, 7855' FROM THE HEEL LOCATION.
- NO. 1 & NO. 2 AS SHOWN HEREON ARE GOVERNMENT LOTS 1 & 2 PER THE ORIGINAL GLO SURVEY

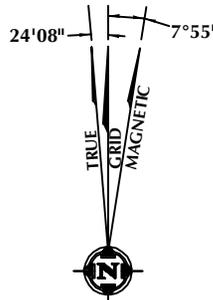


SCALE: 1" = 1000'

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Randall K. French
 RANDALL K. FRENCH
 PROFESSIONAL LAND SURVEYOR
 COLORADO REGISTRATION NUMBER 48512



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

WELL PAD - BUTTERBALL 25C-34HZ

BUTTERBALL 10N-34HZ
 WELL LOCATION CERTIFICATE
 820' FNL & 2325' FWL NENW (SURFACE)
 LOCATED IN SECTION 10
 102' FSL & 2030' FEL SWSE (HEEL)
 LOCATED IN SECTION 3
 T2N, R67W, 6TH P.M.
 2579' FSL & 2036' FEL NWSE (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



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DATE DRAFTED:	10/19/16	DATE SURVEYED:	7/26/16	2
REVISED:		FILE NAME:	13-90	2 OF 3

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)

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

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

N 00°41'03" W 2643.06' (M)

N 00°41'35" W 2665.46' (M)

N 01°18'22" W 1343.82' (M)

N. 1/16 COR.
SEC. 34 & SEC. 35
T3N, R67W
FOUND 2" ALUM. CAP
L.S. NO. 25937

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)

BOTTOM OF HOLE:
2579' FSL & 2036' FEL

N 01°16'05" W 1342.95' (M)

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

N 89°04'49" W 1290.05' (M)
N 89°04'26" W 1289.83' (M)

N 88°35'54" W 1310.00' (M)

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

34

SURFACE LOCATION: NAD 83
GROUND ELEVATION= 4934.4'
LATITUDE= 40.157638°
LONGITUDE= -104.877564°
LATITUDE= 40°09'27.497"
LONGITUDE= -104°52'39.232"
HEEL LOCATION: NAD 83
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LONGITUDE= -104.874421°
LATITUDE= 40°10'54.192"
LONGITUDE= -104°52'27.916"

CE. 1/16 COR.
SEC. 34, T3N, R67W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 28279

N 00°29'25" W 7855' GRID
N 00°05'17" W TRUE
N 08°24'25" W MAGNETIC

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

N 01°30'20" W 2656.09' (M)

SW COR.
SEC. 34, T3N, R67W
FOUND 2" ALUM. CAP
ILLEGIBLE

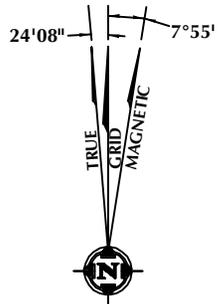
N 88°59'59" W 1292.89' (M)
W. 1/16 COR. 1292.74' (M)
S. 1/4 COR. 1328.66' (M)
SEC. 34, T3N, R67W & SEC. 3, T2N, R67W FOUND 2 1/2" ALUM. CAP P.L.S. NO. 11372
SEC. 34, T3N, R67W SET 2 1/2" ALUM. CAP P.L.S. NO. 38512
N 89°17'30" W 1328.59' (M)
N 89°17'56" W 1328.59' (M)

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

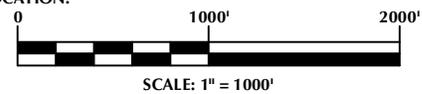
MATCH LINE
SEE SHEET 2

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COLORADO REGISTRATION NUMBER 38512
10/19/16

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