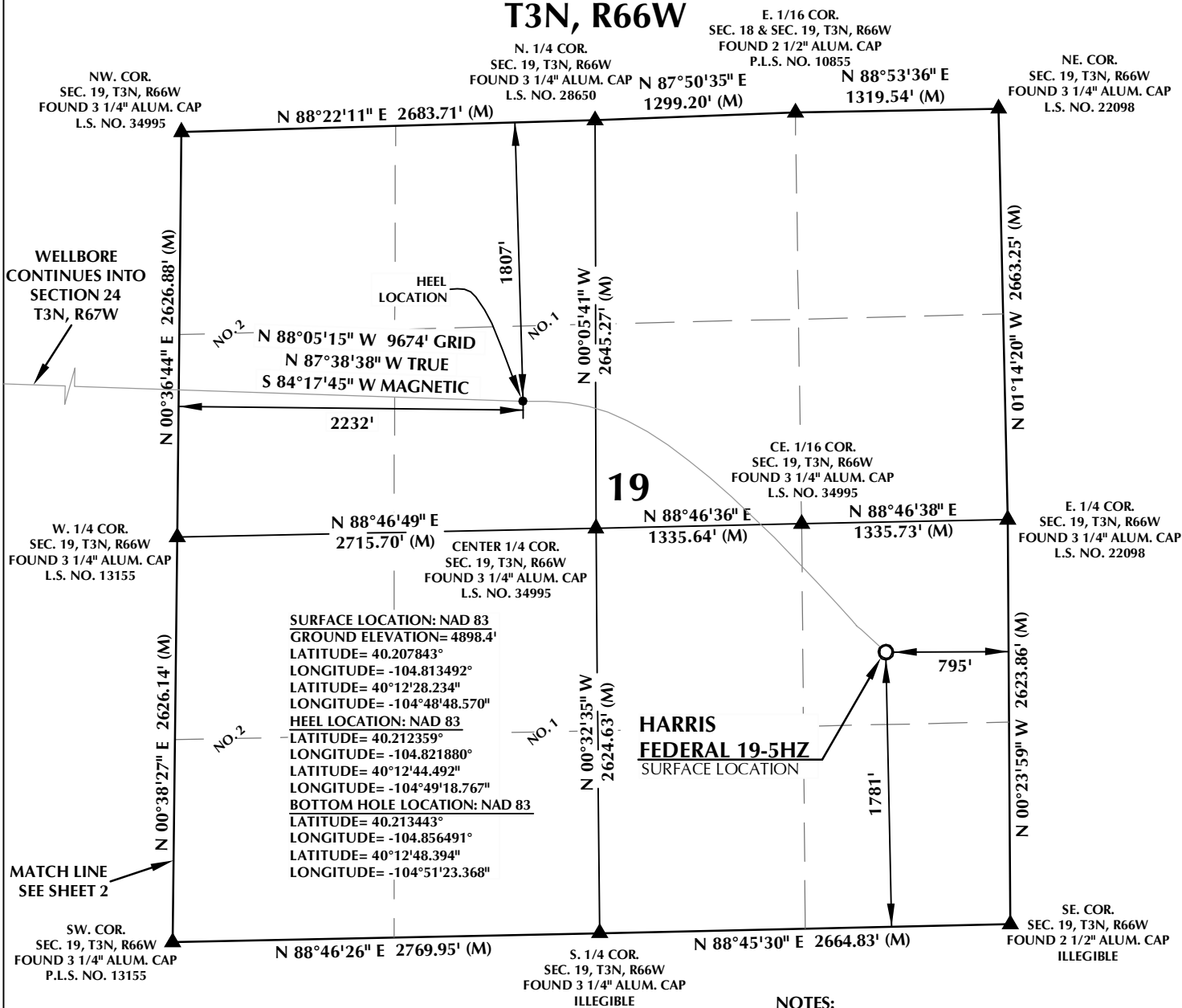


T3N, R66W



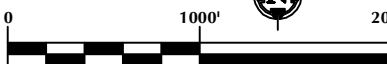
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Wrangler Grohs
 38603
 12/31/18
 WRANGLER GROHS
 PROFESSIONAL LAND SURVEYOR
 COLORADO REGISTRATION NUMBER 38603

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NOTE:
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 CURRENT AS OF 12/20/2018.
 MAGNETIC NORTH CHANGES
 WEST 0°06' PER YEAR.



SCALE: 1" = 1000'

NOTES:

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- OPERATOR: TOBY OSBORN / PDOP = 1.4.
- 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 N88°05'15"W, 9674' FROM THE HEEL LOCATION.
- NO. 1 & NO. 2 AS SHOWN HEREON ARE GOVERNMENT LOTS 1 & 2 PER THE ORIGINAL GLO SURVEY.

WELL PAD - HARRIS FEDERAL 20-19HZ

**HARRIS FEDERAL 19-5HZ
 WELL LOCATION CERTIFICATE**
 1781' FSL & 795' FEL NESE (SURFACE)
 1807' FNL & 2232' FWL LOT 1 (SENW) (HEEL)
 LOCATED IN SECTION 19, T3N, R66W, 6TH P.M.
 1649' FNL & 2122' FEL SWNE (BOTTOM)
 LOCATED IN SECTION 23, 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:	12/31/18	DATE SURVEYED:	12/20/18	1
REVISED:		FILE NAME:	18-238	1 OF 3

T3N, R67W

NW. COR.
SEC. 24, T3N, R67W
FOUND 3 1/4" ALUM. CAP
W.C. 550' SOUTH OF TRUE
CORNER POSITION
L.S. NO. 22098

N. 1/4 COR.
SEC. 24, T3N, R67W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 25385

E. 1/16 COR.
SEC. 13 & SEC. 24, T3N, R67W
FOUND 3 1/4" ALUM. CAP
L.S. NO. 34995

NE. COR.
SEC. 24, T3N, R67W
FOUND 3 1/4" ALUM. CAP
L.S. NO. 34995

WELLBORE
CONTINUES
INTO
SECTION 23

N 00°56'27" W
1308.70' (M)

N. 1/16 COR.
SEC. 23 & SEC. 24
T3N, R67W
FOUND 2 1/2"
ALUM. CAP
P.L.S. NO. 38512

N 88°25'48" W 2651.97' (M)

N 87°35'53" W
1355.15' (M)

N 87°59'16" W
1355.09' (M)

MATCH LINE
SEE SHEET 3

N 00°00'37" W
1311.48' (M)

NE. 1/16 COR.
SEC. 24, T3N, R67W
FOUND 3 1/4" ALUM. CAP
W.C. 3' SOUTH OF TRUE
CORNER POSITION
L.S. NO. 22098

N 88°05'15" W 9674' GRID
N 87°38'38" W TRUE
S 84°17'45" W MAGNETIC

N 00°36'16" W
2637.67' (C)

CE. 1/16 COR.
SEC. 24, T3N, R67W
FOUND 2 1/2" ALUM. CAP
P.L.S. NO. 38512

W. 1/4 COR.
SEC. 24, T3N, R67W
FOUND 3 1/4"
ALUM. CAP W.C.
5' SOUTH OF
TRUE CORNER
POSITION
L.S. NO. 37041

N 00°56'17" W
1308.67' (M)

N 01°30'25" W
1296.74' (M)

N 01°29'51" W
1296.21' (M)

S. 1/16 COR.
SEC. 23 & SEC. 24
T3N, R67W
FOUND 2" ALUM. CAP
ILLEGIBLE

N 87°58'34" W
2637.53' (C)

N 87°58'34" W
1326.85' (C)

N 87°58'55" W
1327.11' (M)

E. 1/4 COR.
SEC. 24, T3N, R67W
FOUND 3 1/4" ALUM. CAP
L.S. NO. 13155

SURFACE LOCATION: NAD 83
GROUND ELEVATION= 4898.4'
LATITUDE= 40.207843°
LONGITUDE= -104.813492°
HEEL LOCATION: NAD 83
LATITUDE= 40.212359°
LONGITUDE= -104.821880°
BOTTOM HOLE LOCATION: NAD 83
LATITUDE= 40.213443°
LONGITUDE= -104.856491°
LATITUDE= 40°12'48.394"
LONGITUDE= -104°51'23.368"

24

N 00°36'16" W
2609.38' (C)

SE. 1/16 COR.
SEC. 24, T3N, R67W
FOUND 2" ALUM. CAP
ILLEGIBLE

N 00°01'04" E
1308.95' (M)

N 00°38'27" E 2626.14' (M)

MATCH LINE
SEE SHEET 1

SW. COR.
SEC. 24, T3N, R67W
FOUND 2 1/2" ALUM. CAP
ILLEGIBLE

N 87°33'45" W
1298.99' (M)

N 87°34'09" W
1298.78' (M)

N 87°33'57" W 2597.77' (M)

W. 1/16 COR.
SEC. 24 & SEC. 25, T3N, R67W
FOUND 3 1/4" ALUM. CAP
L.S. NO. 22098

S. 1/4 COR.
SEC. 24, T3N, R67W
FOUND 2 1/2" ALUM. CAP
P.L.S. NO. 38512

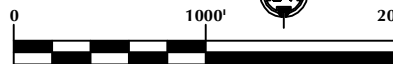
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WRANGLER GROHS
PROFESSIONAL LAND SURVEYOR
COLORADO REGISTRATION NUMBER 38603
12/31/18

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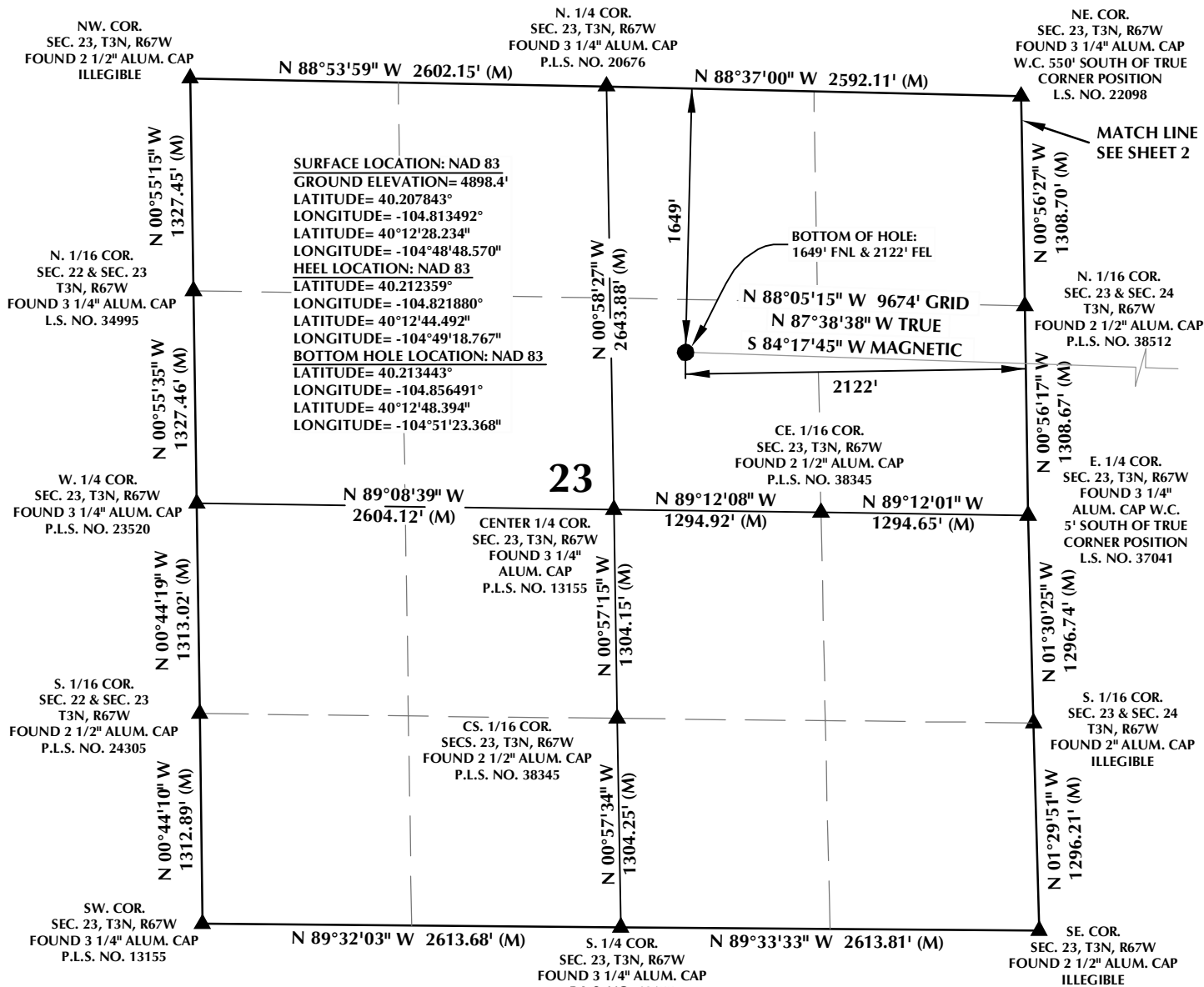
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T3N, R67W



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