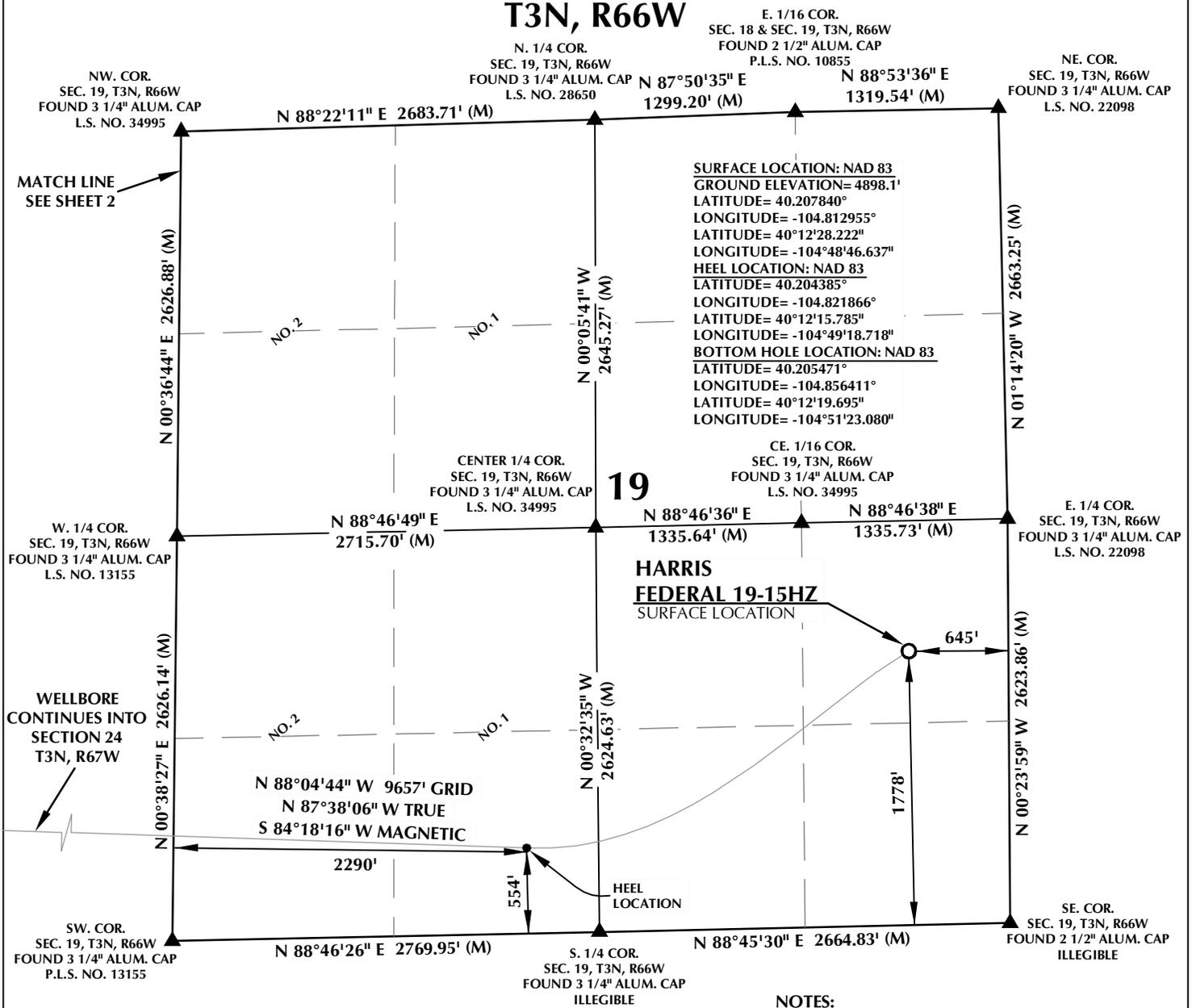


T3N, R66W



SURFACE LOCATION: NAD 83
 GROUND ELEVATION= 4898.1'
 LATITUDE= 40.207840°
 LONGITUDE= -104.812955°
 LATITUDE= 40°12'28.222"
 LONGITUDE= -104°48'46.637"
HEEL LOCATION: NAD 83
 LATITUDE= 40.204385°
 LONGITUDE= -104.821866°
 LATITUDE= 40°12'15.785"
 LONGITUDE= -104°49'18.718"
BOTTOM HOLE LOCATION: NAD 83
 LATITUDE= 40.205471°
 LONGITUDE= -104.856411°
 LATITUDE= 40°12'19.695"
 LONGITUDE= -104°51'23.080"

19

**HARRIS
 FEDERAL 19-15HZ
 SURFACE LOCATION**

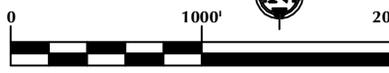
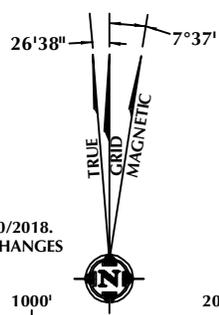
HEEL LOCATION

CERTIFICATE OF SURVEYOR:

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

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



SCALE: 1" = 1000'

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: .99972938 CALCULATED FROM THE CENTER 1/4 CORNER OF SECTION 19, T3N, R66W.
- 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°04'44"W, 9657' 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 19-15HZ
 WELL LOCATION CERTIFICATE**
 1778' FSL & 645' FEL NESE (SURFACE)
 554' FSL & 2290' FWL LOT 1 (SESW) (HEEL)
 LOCATED IN SECTION 19, T3N, R66W, 6TH P.M.
 690' FSL & 2145' FEL SWSE (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

609 CONSULTING, LLC

SHERIDAN OFFICE: 1095 Saberton Avenue, Sheridan, Wyoming 82801, Phone 307-674-0609
 LOVELAND OFFICE: 6706 North Franklin Avenue, Loveland, Colorado 80538, Phone 970-776-4331

DRAFTED BY: LMO	CHECKED BY: WJG	SHEET NO: 1 1 OF 3
DATE DRAFTED: 12/31/18	DATE SURVEYED: 12/20/18	
REVISED:	FILE NAME: 18-238	

K:\MADARKO\2018\238_HARRIS_T3N_R66W_SEC_19\PLATS\HARRIS FEDERAL 20-19HZ PLAT.dwg, 12/31/2018 1:22:25 PM, lbg

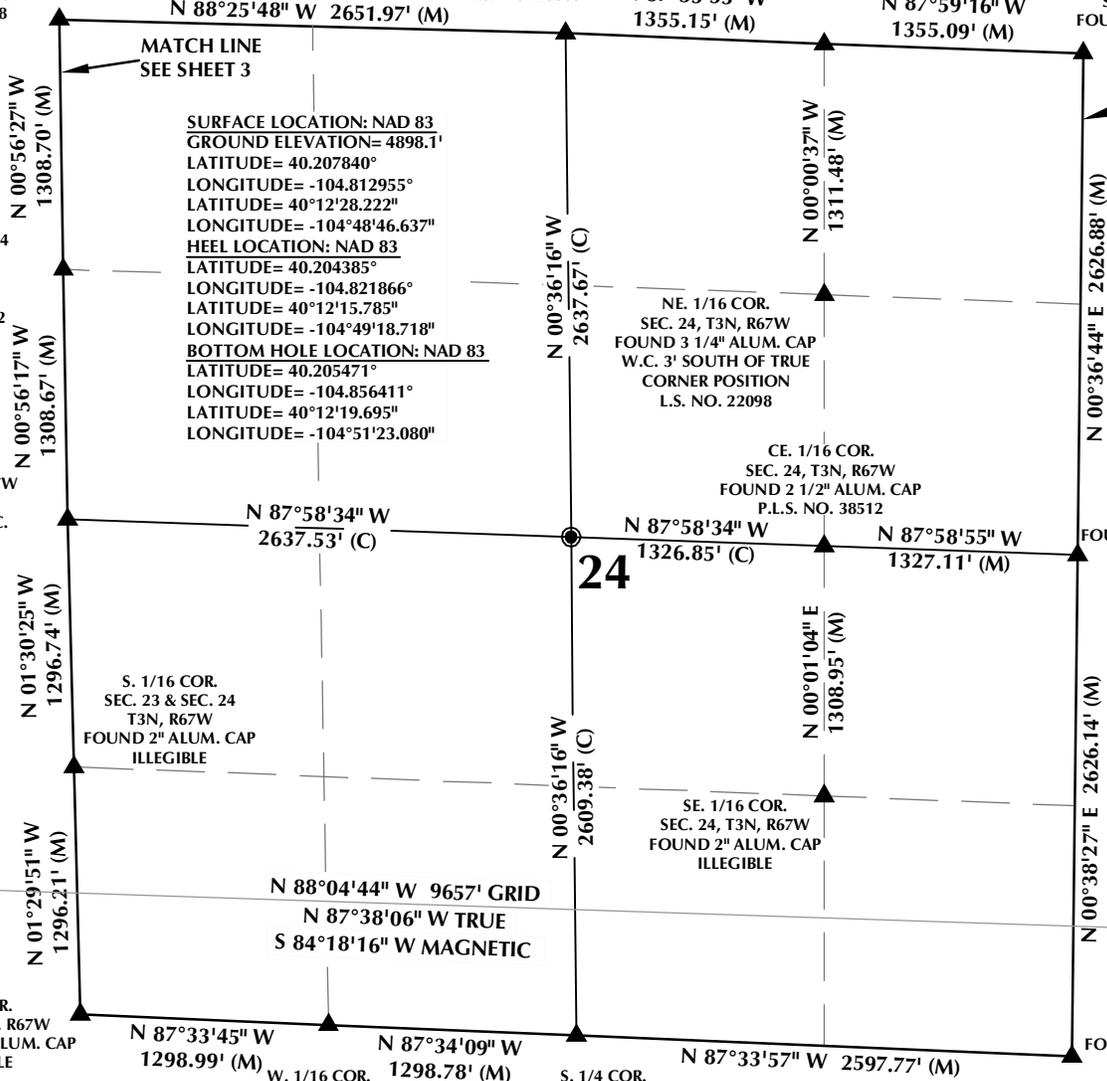
T3N, R67W

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

NOTES:

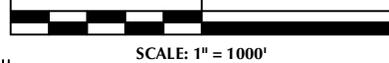
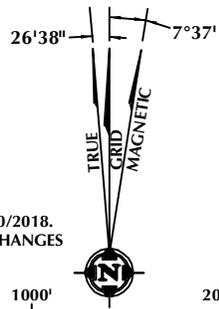
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Wrangler Grohs
 38603
 WRANGLER GROHS
 PROFESSIONAL LAND SURVEYOR
 COLORADO REGISTRATION NUMBER: 38603
 12/31/18
 PROFESSIONAL LAND SURVEYOR

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



WELL PAD - HARRIS FEDERAL 20-19HZ

HARRIS FEDERAL 19-15HZ
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 WELD COUNTY, COLORADO

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 1099 18th Street
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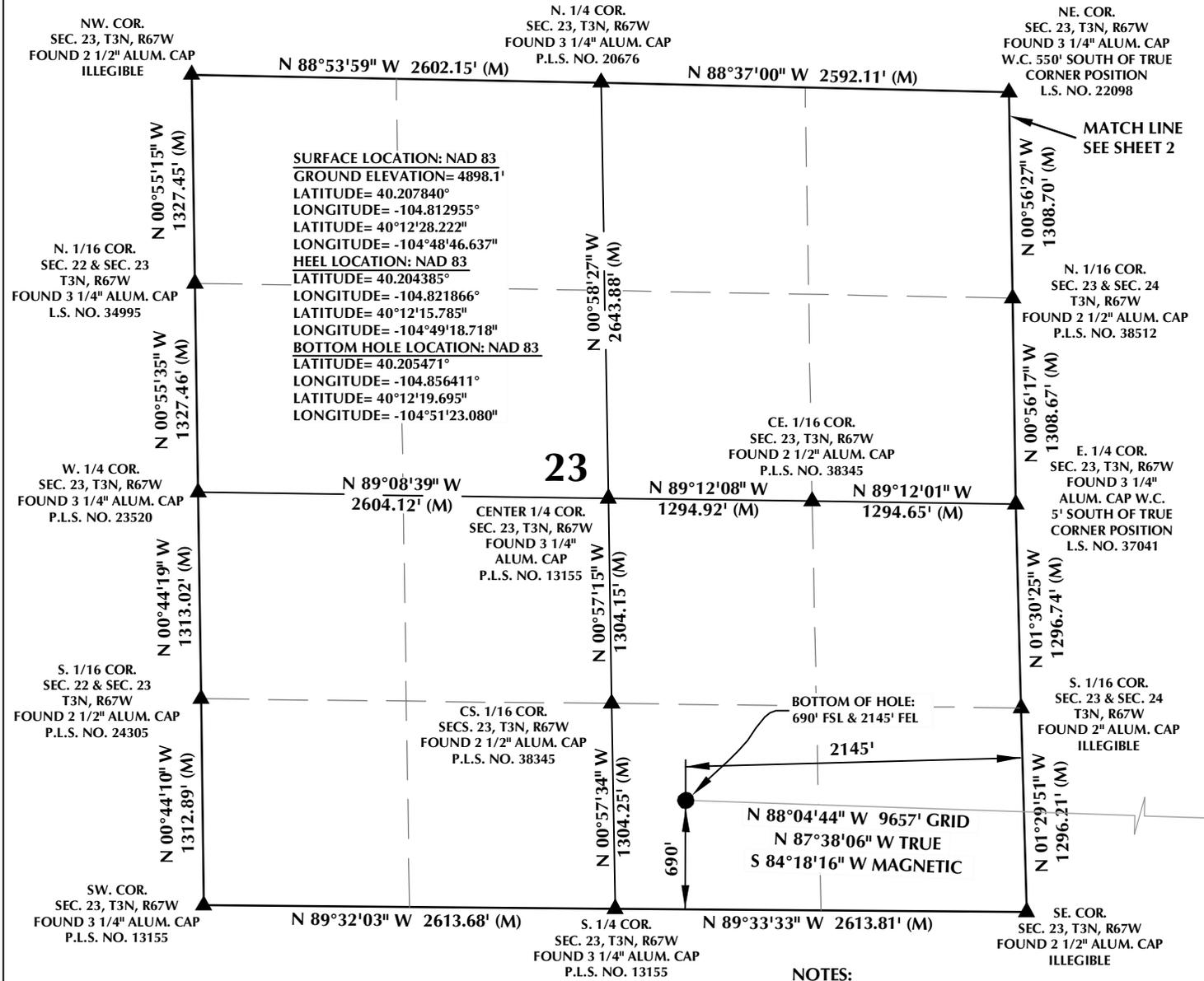
CONSULTING, LLC

SHERIDAN OFFICE
 1095 Saberton Avenue
 Sheridan, Wyoming 82801
 Phone 307-674-0609

LOVELAND OFFICE
 6706 North Franklin Avenue
 Loveland, Colorado 80538
 Phone 970-776-4331

DRAFTED BY: LMO	CHECKED BY: WJG	SHEET NO: 2 2 OF 3
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T3N, R67W

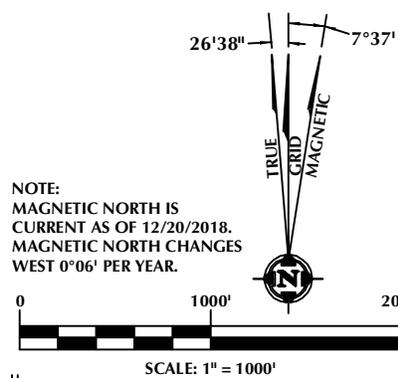


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W. Harris
 38603
 WRANGLER GROHS
 PROFESSIONAL LAND SURVEYOR
 COLORADO REGISTRATION NUMBER: 38603
 12/31/18
 PROFESSIONAL LAND SURVEYOR

NOTICE:
 ACCORDING TO COLORADO STATE LAW YOU MUST COMMENCE 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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HARRIS FEDERAL 19-15HZ
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