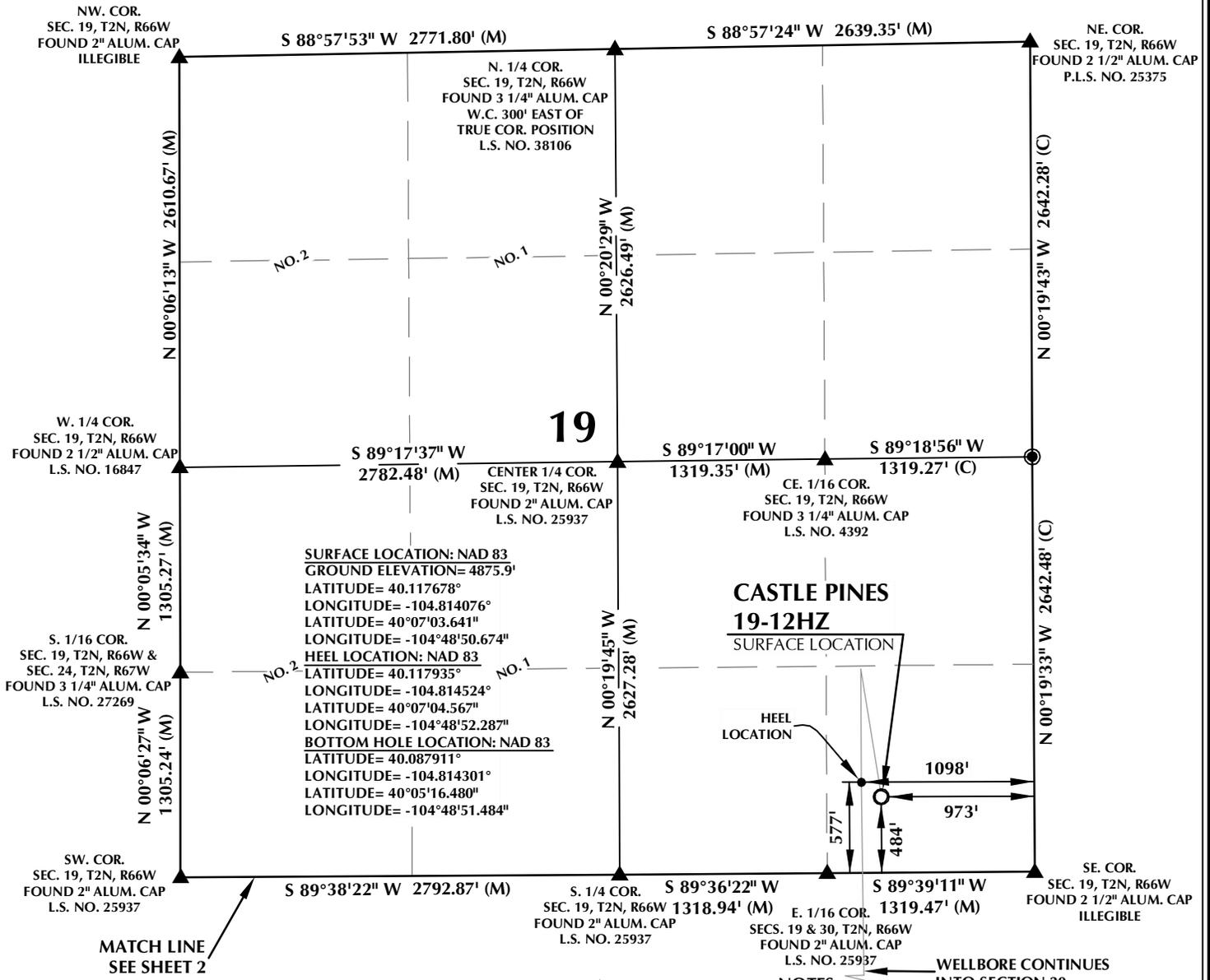


T2N, R66W

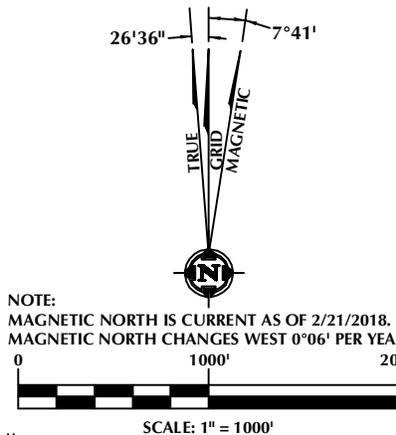


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Randall K. French
 RANDALL K. FRENCH
 PROFESSIONAL LAND SURVEYOR
 COLORADO REGISTRATION NUMBER 38512
 3/15/18

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WELL PAD - CASTLE PINES 16-19HZ

CASTLE PINES 19-12HZ
WELL LOCATION CERTIFICATE
 484' FSL & 973' FEL SESE (SURFACE)
 577' FSL & 1098' FEL SESE (HEEL)
 LOCATED IN SECTION 19
 203' FSL & 1055' FEL SESE (BOTTOM)
 LOCATED IN SECTION 31
 T2N, R66W, 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: 3/15/18	DATE SURVEYED: 1/5/18	
REVISED:	FILE NAME: 16-175	

T2N, R66W

E. 1/16 COR.
SEC. 19 & SEC. 30, T2N, R66W
FOUND 2nd ALUM. CAP
L.S. NO. 25937

NE. COR.
SEC. 30, T2N, R66W
FOUND 2 1/2nd ALUM. CAP
ILLEGIBLE

NW. COR.
SEC. 30, T2N, R66W
FOUND 2nd ALUM. CAP
L.S. NO. 25937

S 89°38'22" W 2792.87' (M)

S 89°36'22" W
1318.94' (M)

S 89°39'11" W
1319.47' (M)

N 00°24'00" W
1333.11' (M)

N 00°05'53" W
1324.75' (M)

N 00°33'48" W
1317.34' (M)

N. 1/4 COR.
SEC. 30, T2N, R66W
FOUND 2nd ALUM. CAP
L.S. NO. 25937

CN. 1/16 COR.
SEC. 30, T2N, R66W
FOUND 3 1/4th ALUM. CAP
L.S. NO. 38106

NE. 1/16 COR.
SEC. 30, T2N, R66W
FOUND 3 1/4th ALUM. CAP
W.C. 138' EAST OF TRUE
COR. POSITION
L.S. NO. 34995

N. 1/16 COR.
SEC. 29 & SEC. 30
T2N, R66W
FOUND 3 1/4th
ALUM. CAP
120' WEST OF TRUE
COR. POSITION
L.S. NO. 34995

N. 1/16 COR.
SEC. 25, T2N, R67W &
SEC. 30, T2N, R66W
FOUND 3 1/4th ALUM. CAP
L.S. NO. 38106

NO. 2

NO. 1

CENTER 1/4 COR.
SEC. 30, T2N, R66W
FOUND 3 1/4th ALUM. CAP
W.C. 15' NORTH OF
TRUE COR. POSITION
L.S. NO. 38106

30

S 89°17'53" W
2778.37' (M)

S 89°18'05" W
1330.47' (M)

S 89°18'50" W
1329.73' (M)

N 00°33'53" W
1317.75' (M)

E. 1/4 COR.
SEC. 30, T2N, R66W
FOUND 2 1/2nd
ALUM. CAP
P.L.S. NO. 25375

W. 1/4 COR.
SEC. 30, T2N, R66W
FOUND 3 1/4th
ALUM. CAP
L.S. NO. 38106

CE. 1/16 COR.
SEC. 30, T2N, R66W
FOUND 2nd ALUM. CAP
L.S. NO. 25937

SURFACE LOCATION: NAD 83
GROUND ELEVATION= 4875.9'
LATITUDE= 40.117678°
LONGITUDE= -104.814076°
LATITUDE= 40°07'03.641"
LONGITUDE= -104°48'50.674"
HEEL LOCATION: NAD 83
LATITUDE= 40.117935°
LONGITUDE= -104.814524°
LATITUDE= 40°07'04.567"
LONGITUDE= -104°48'52.287"
BOTTOM HOLE LOCATION: NAD 83
LATITUDE= 40.087911°
LONGITUDE= -104.814301°
LATITUDE= 40°05'16.480"
LONGITUDE= -104°48'51.484"

N 00°05'16" W
1325.31' (M)

S 00°46'12" E 10937' GRID
S 00°19'36" E TRUE
S 08°27'12" E MAGNETIC

S. 1/16 COR.
SEC. 25, T2N, R67W &
SEC. 30, T2N, R66W
FOUND 3 1/4th ALUM. CAP
W.C. 230' NORTH OF
TRUE COR. POSITION
L.S. NO. 38106

NO. 2

NO. 1

N 00°40'35" W
1318.42' (M)

N 00°04'07" W
2636.12' (M)

N 00°34'19" W 2635.27' (M)

S. 1/4 COR.
SEC. 30, T2N, R66W
FOUND 3 1/4th ALUM. CAP
P.L.S. NO. 10855

S 89°17'34" W 2683.35' (M)

SE. COR.
SEC. 30, T2N, R66W
FOUND 3 1/4th ALUM. CAP
W.C. 120' WEST OF
TRUE COR. POSITION
L.S. NO. 13155

SW. COR.
SEC. 30, T2N, R66W
FOUND 3 1/4th ALUM. CAP
P.L.S. NO. 25369

WELLBORE CONTINUES
INTO SECTION 31

MATCH LINE
SEE SHEET 3

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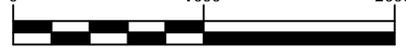
Randall K. French
3/15/18
PROFESSIONAL LAND SURVEYOR
COLORADO REGISTRATION NUMBER 38512

RANDALL K. FRENCH
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NOTE:
MAGNETIC NORTH IS CURRENT AS OF 2/21/2018.
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: .99973013 CALCULATED FROM THE W. 1/4 CORNER OF SECTION 18, T2N, R66W.
OPERATOR: PRESTON KNUTSEN / PDOP = 1.5.
- 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 S00°46'12"E, 10937' FROM THE HEEL LOCATION.
- NO. 1 & NO. 2 AS SHOWN HEREON ARE GOVERNMENT LOTS 1 & 2 PER THE ORIGINAL GLO SURVEY.

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CASTLE PINES 19-12HZ
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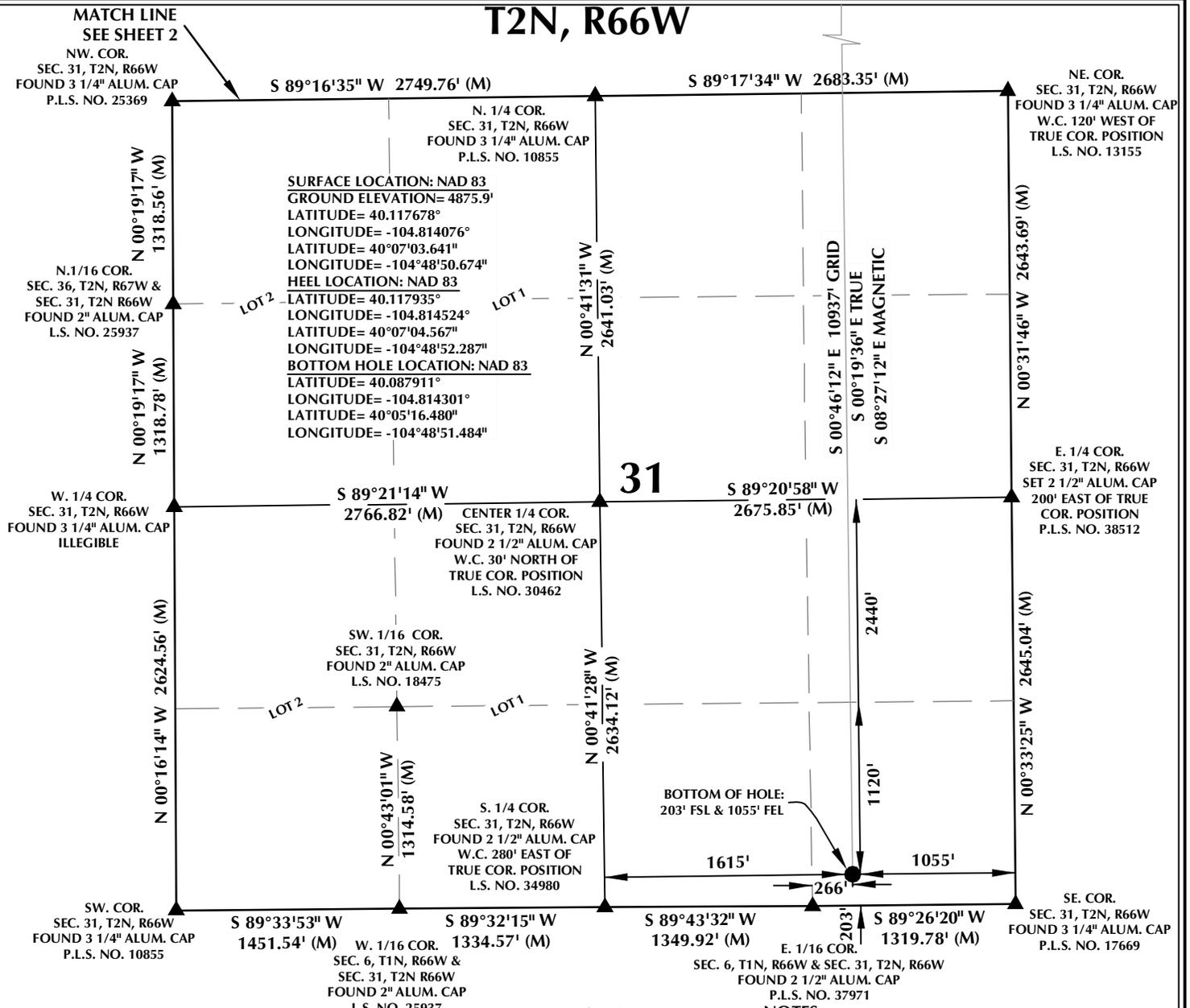
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REVISED:		FILE NAME:	16-175	2 OF 3

T2N, R66W

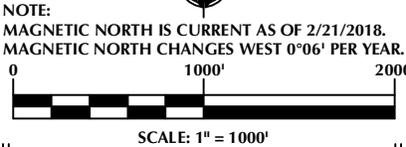
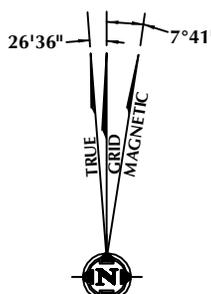


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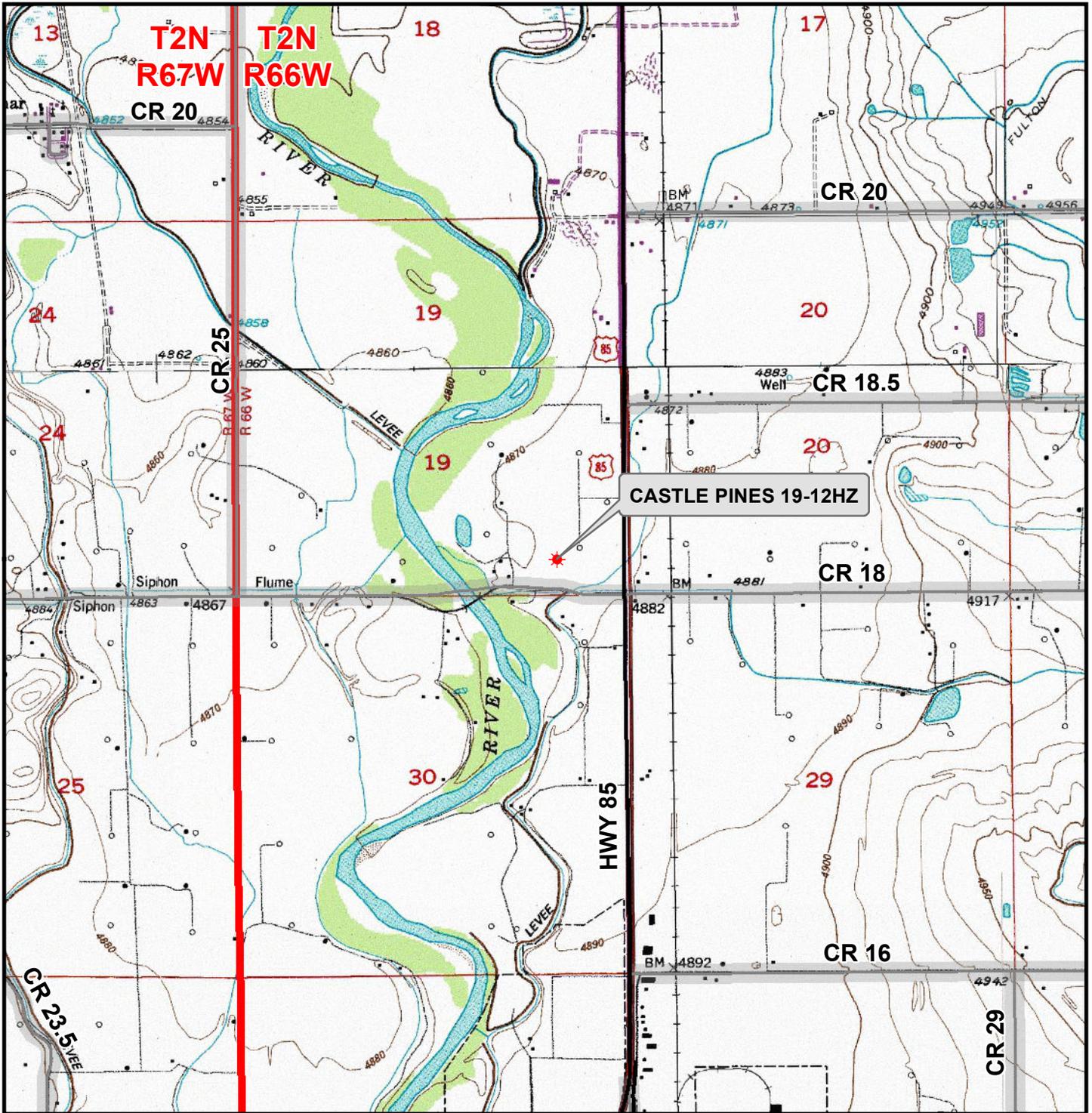
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CASTLE PINES 19-12HZ

Legend

- ★ Well - Fee - Proposed
- ==== Road - Primitive - Existing
- Road - County - Existing
- Road - Improved - Existing
- Road - Highway - Existing

WELL PAD - CASTLE PINES 16-19HZ

**GENERAL LOCATION MAP
CASTLE PINES 19-12HZ
LOCATED IN SECTION 19
T2N, R66W, 6th P.M.
WELD COUNTY, COLORADO**

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SCALE: 1" = 2,000ft	NAD83 CO-Nft
DRAWN: DP	DATE: 16 Mar 2018
REVISED:	DATE: