

CERTIFICATE OF SURVEYOR:

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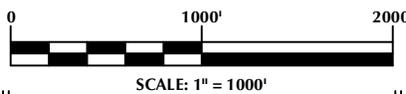
Randall K. French
PROFESSIONAL LAND SURVEYOR
 COLORADO REGISTRATION NUMBER 38512

RANDALL K. FRENCH
 PROFESSIONAL LAND SURVEYOR
 COLORADO REGISTRATION NUMBER 38512
 5/10/18

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.

WELLBORE CONTINUES INTO SECTION 31 T2N, R65W

NOTE:
 MAGNETIC NORTH IS CURRENT AS OF 4/10/2018. 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: .99972279 CALCULATED FROM THE NW. CORNER OF SECTION 30, T2N, R65W. OPERATOR: ROB WILSON / PDOP = 1.8.
- 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°57'31"E, 8230' FROM THE HEEL LOCATION.

MATCH LINE SEE SHEET 2

WELL PAD - ARNDT 27-30HZ

ARNDT 30-1HZ
WELL LOCATION CERTIFICATE
 325' FNL & 1684' FEL NWNE (SURFACE)
 10' FNL & 2456' FEL NWNE (HEEL)
 LOCATED IN SECTION 30
 2380' FSL & 2443' FEL NWSE (BOTTOM)
 LOCATED IN SECTION 31
 T2N, R65W, 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 2
DATE DRAFTED: 5/10/18	DATE SURVEYED: 4/10/18	
REVISED:	FILE NAME: 17-215	

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T2N, R65W

MATCH LINE
SEE SHEET 1

N. 1/4 COR.
SEC. 31, T2N, R65W
FOUND 3 1/4" ALUM. CAP
L.S. NO. 27269

NW. COR.
SEC. 31, T2N, R65W
SET 2 1/2" ALUM. CAP
P.L.S. NO. 38512

NE. COR.
SEC. 31, T2N, R65W
FOUND 3 1/4" ALUM. CAP
L.S. NO. 16425

S 88°46'34" W 2600.10' (M)

S 88°46'02" W 2641.35' (M)

N 00°00'20" W 2660.81' (M)

SURFACE LOCATION: NAD 83
GROUND ELEVATION= 4972.0'
LATITUDE= -104.115802°
LONGITUDE= -104.703305°
LATITUDE= 40°06'56.886"
LONGITUDE= -104°42'11.899"
HEEL LOCATION: NAD 83
LATITUDE= 40.116643°
LONGITUDE= -104.706078°
LATITUDE= 40°06'59.915"
LONGITUDE= -104°42'21.880"
BOTTOM HOLE LOCATION: NAD 83
LATITUDE= 40.094052°
LONGITUDE= -104.705849°
LATITUDE= 40°05'38.587"
LONGITUDE= -104°42'21.056"

N 00°32'53" W
2670.64' (M)

S 00°57'31" E 8230' GRID
S 00°26'38" E TRUE
S 08°30'31" E MAGNETIC

N 00°38'25" W 2681.19' (M)

CE. 1/16 COR.
SEC. 31, T2N, R65W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 27269

W. 1/4 COR.
SEC. 31, T2N, R65W
SET 2 1/2" ALUM. CAP
P.L.S. NO. 38512

S 88°59'59" W
2625.19' (M)

S 88°59'53" W
1322.55' (M)

S 88°59'44" W
1323.01' (M)

E. 1/4 COR.
SEC. 31, T2N, R65W
FOUND 3 1/4" ALUM. CAP
L.S. NO. 16425

CENTER 1/4 COR.
SEC. 31, T2N, R65W
FOUND 2 1/2" ALUM. CAP
P.L.S. NO. 24307

BOTTOM OF HOLE:
2380' FSL & 2443' FEL

N 00°00'33" W 2660.66' (M)

N 00°32'45" W
2658.89' (M)

2380'

N 00°38'55" W 2656.78' (M)

S. 1/4 COR.
SEC. 31, T2N, R65W
FOUND 3 1/4" ALUM. CAP
L.S. NO. 27269

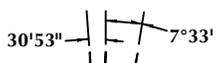
S 88°56'47" W
1325.19' (M)

S 88°57'27" W
1325.15' (M)

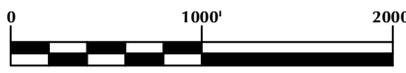
E. 1/16 COR.
SEC. 31, T2N, R65W & SEC. 6, T1N, R65W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 27269

SW. COR.
SEC. 31, T2N, R65W
SET 2 1/2" ALUM. CAP
P.L.S. NO. 38512

S 88°58'05" W 2650.12' (M)



NOTE:
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SCALE: 1" = 1000'

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Randall K. French
PROFESSIONAL LAND SURVEYOR
38512
5/10/18
RANDALL K. FRENCH
PROFESSIONAL LAND SURVEYOR
COLORADO REGISTRATION NUMBER 38512

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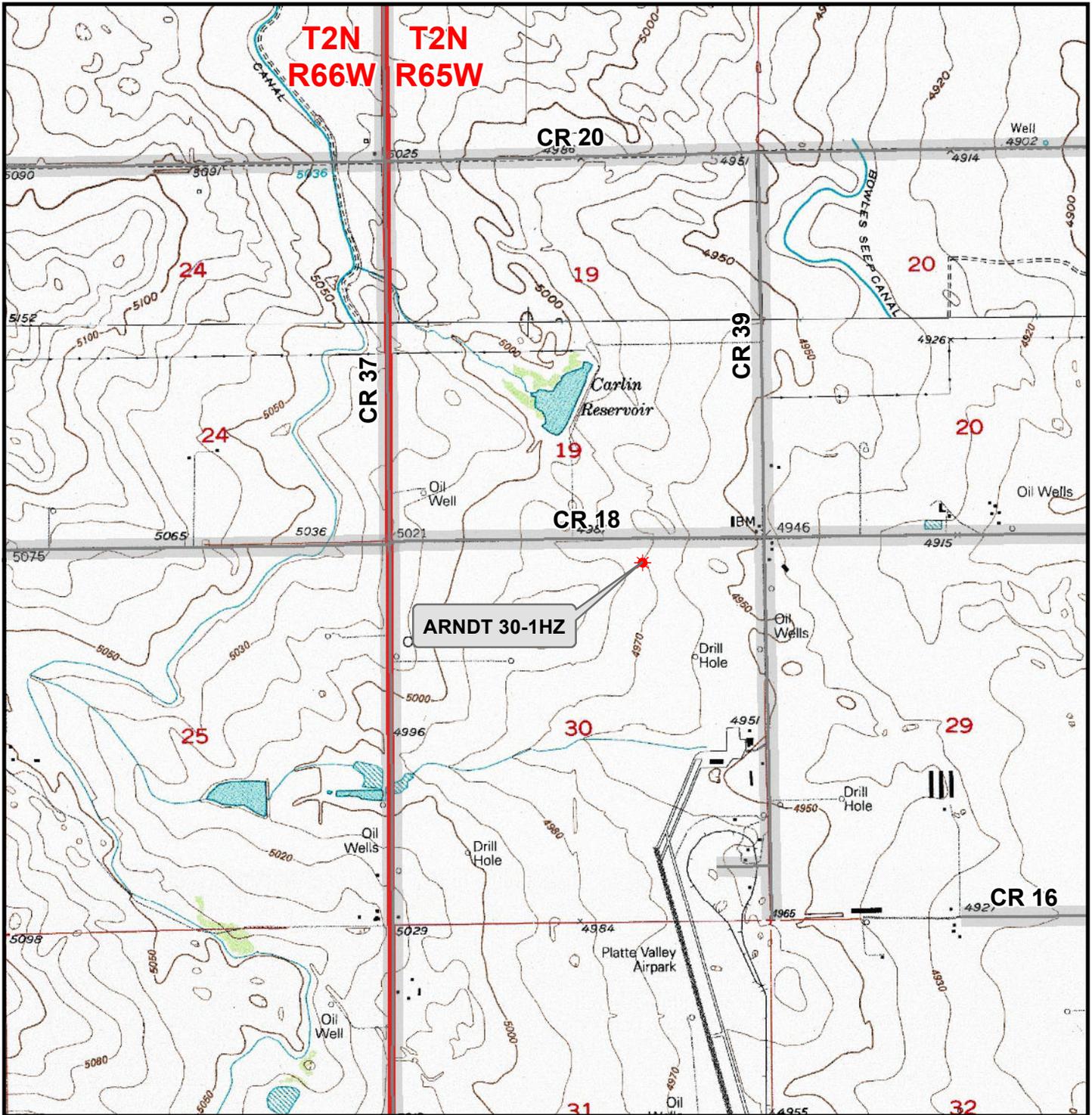
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Legend

- Well - Proposed
- Road - Primitive - Existing
- Road - County - Existing
- Road - Improved - Existing
- Road - Highway - Existing

WELL PAD - ARNDT 27-30HZ
GENERAL LOCATION MAP
ARNDT 30-1HZ
LOCATED IN SECTION 30
T2N, R65W, 6th P.M.
WELD COUNTY, COLORADO

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SCALE: 1" = 2,000ft

NAD83 CO-Nft

DRAWN: DP

DATE: 10 May 2018

REVISED:

DATE: