



Kerr-McGee Oil & Gas Onshore LP

A subsidiary of Anadarko Petroleum Corporation

1099 18th Street
Denver, CO 80202
720-929-6000

June 28, 2017

Matt Lepore
Director, Colorado Oil and Gas Conservation Commission
Department of Natural Resources
The Chancery Building
1120 Lincoln Street, Suite 801
Denver, CO 80203

Re: **30 Day Certification Letter - 318A.e**
QUARTER CIRCLE 24 - 8HZ (Doc No. 401320175)
Township 1 North, Range 67 West
Section 24: SESW
Unit Acreage: 360 Acres
Unit Spacing: 01N67W SEC 24: E2W2
01N67W SEC 13: E2W
01N67W SEC 12: SESW
Weld County, Colorado

Dear Director Lepore:

Kerr McGee Oil and Gas Onshore LP ("KMG") hereby certifies that KMG owns one hundred percent (100%) of the leasehold interest in the mineral rights in the proposed spacing unit. KMG hereby respectfully requests approval of this boundary well.

If you have any questions or issues regarding this permit, please contact me at (720) 929-6907.

Sincerely,

Kerr-McGee Oil & Gas Onshore LP

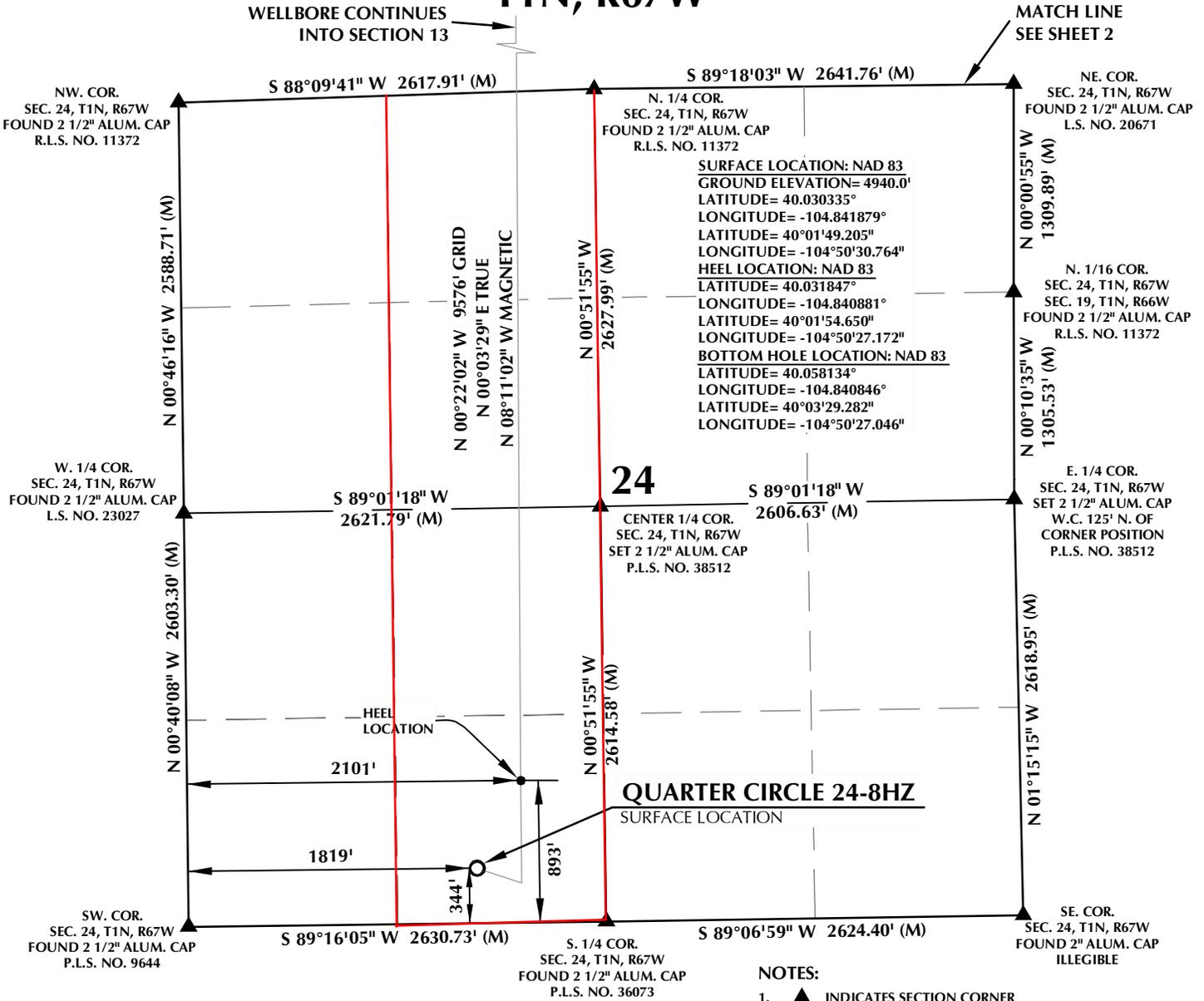
A handwritten signature in blue ink, appearing to read "Craig Richardson".

Craig Richardson
Regulatory Analyst II

Enclosure

PROPOSED SPACING UNIT

T1N, R67W



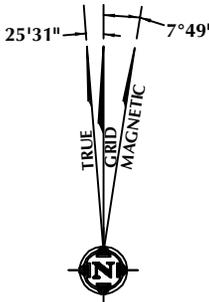
CERTIFICATE OF SURVEYOR:

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THESE ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATE DOES NOT REPRESENT A LAND SURVEY PLAT OR IMPROVEMENT SURVEY PLAT AS DEFINED BY C.R.S. 38-51-102 AND CANNOT BE RELIED UPON TO DETERMINE OWNERSHIP.

Randall K. French

RANDALL K. FRENCH
PROFESSIONAL LAND SURVEYOR
COLORADO REGISTRATION NUMBER 418/17

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



WELL PAD - QUARTER CIRCLE 24-8HZ

QUARTER CIRCLE 24-8HZ
WELL LOCATION CERTIFICATE
344' FSL & 1819' FWL SESW (SURFACE)
893' FSL & 2101' FWL SESW (HEEL)
LOCATED IN SECTION 24
50' FNL & 2151' FWL NENW (BOTTOM)
LOCATED IN SECTION 13
T1N, 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 2
DATE DRAFTED: 4/18/17	DATE SURVEYED: 12/8/16	
REVISED:	FILE NAME: 14-102	

PROPOSED SPACING UNIT

T1N, R67W

E. 1/16 COR.
SEC. 12 & SEC. 13, T1N, R67W
FOUND 2 1/2" ALUM. CAP
R.L.S. NO. 11372

NW. COR.
SEC. 13, T1N, R67W
FOUND 2 1/2" ALUM. CAP
R.L.S. NO. 11372

NE. COR.
SEC. 13, T1N, R67W
FOUND 2 1/2" ALUM. CAP
R.L.S. NO. 11372

N. 1/4 COR.
SEC. 13, T1N, R67W
FOUND 2 1/2" ALUM. CAP
R.L.S. NO. 11372

CENTER 1/4 COR.
SEC. 13, T1N, R67W
FOUND 2 1/2" ALUM. CAP
R.L.S. NO. 11372

E. 1/4 COR.
SEC. 13, T1N, R67W
FOUND 2 1/2" ALUM. CAP
R.L.S. NO. 11372

W. 1/4 COR.
SEC. 13, T1N, R67W
FOUND 2 1/2" ALUM. CAP
R.L.S. NO. 11372

S. 1/16 COR.
SEC. 13 & SEC. 14
T1N, R67W
SET 2 1/2" ALUM. CAP
P.L.S. NO. 38512

S. 1/16 COR.
SEC. 13, T1N, R67W &
SEC. 18, T1N, R66W
FOUND 2 1/2" ALUM. CAP
R.L.S. NO. 11372

SE. COR.
SEC. 13, T1N, R67W
FOUND 2 1/2" ALUM. CAP
L.S. NO. 20671

SW. COR.
SEC. 13, T1N, R67W
FOUND 2 1/2" ALUM. CAP
R.L.S. NO. 11372

S. 1/4 COR.
SEC. 13, T1N, R67W
FOUND 2 1/2" ALUM. CAP
R.L.S. NO. 11372

13

SURFACE LOCATION: NAD 83
GROUND ELEVATION= 4940.0'
LATITUDE= 40.030335°
LONGITUDE= -104.841879°
HEEL LOCATION: NAD 83
LATITUDE= 40.031847°
LONGITUDE= -104.840881°
BOTTOM HOLE LOCATION: NAD 83
LATITUDE= 40.058134°
LONGITUDE= -104.840846°
LONGITUDE= -104°50'27.172"
LONGITUDE= -104°50'27.046"

N 00°34'38" W 2630.66' (M)

N 00°39'26" W 1360.46' (M)

N 00°39'26" W 1360.46' (M)

N 00°39'26" W 1360.46' (M)

S 89°56'54" W 2638.12' (M)

S 89°58'44" W 2617.48' (M)

S 88°09'41" W 2617.91' (M)

S 89°02'22" W 1307.33' (M)

S 89°02'18" W 1307.36' (M)

S 89°03'10" W 2640.28' (M)

S 89°18'03" W 2641.76' (M)

1266'

2582'

N 00°07'39" W 2631.95' (M)

N 00°39'29" W 2637.89' (M)

N 00°22'02" W 9576' GRID

N 00°03'29" E TRUE

N 08°11'02" W MAGNETIC

N 00°41'06" W 2632.35' (M)

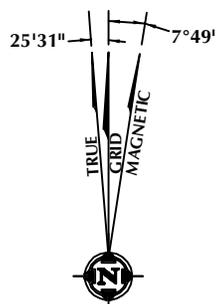
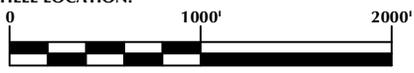
N 00°37'29" W 1324.66' (M)

N 00°45'24" W 1324.66' (M)

MATCH LINE
SEE SHEET 1

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: .99973172 CALCULATED FROM THE SE. CORNER OF SECTION 24, T1N, R67W
- OPERATOR: ROB WILSON / 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 N00°22'02"W, 9576' FROM THE HEEL LOCATION.



NOTE:
MAGNETIC NORTH IS CURRENT AS OF 2/7/2017.
MAGNETIC NORTH CHANGES WEST 0°06' PER YEAR.

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Randall K. French
PROFESSIONAL LAND SURVEYOR
COLORADO REGISTRATION NUMBER 18512
4/18/17

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