



## Kerr-McGee Oil & Gas Onshore LP

A subsidiary of Anadarko Petroleum Corporation

1099 18<sup>th</sup> Street  
Denver, CO 80202  
720-929-6000

August 29, 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**  
HERGENREDER 5N-4HZ (Doc No. 401344115)  
Township 3 North, Range 68 West  
Section 33: NWNW  
Unit Acreage: 240 Acres  
Unit Spacing:  
03N68W SEC 33: W2W2  
02N68W SEC 4: W2NW4  
Weld County, Colorado

Dear Director Lepore:

Kerr-McGee Oil and Gas Onshore LP ("KMG") hereby certifies that a thirty (30) day notice has been given by certified mail to all mineral owners in the proposed wellbore spacing unit. We have not received any objections to this spacing unit or location. KMG hereby respectfully requests approval of this well.

If you have any questions or issues regarding this permit, please contact me at (720) 929-3159.

Sincerely,

**Kerr-McGee Oil and Gas Onshore LP**

A handwritten signature in blue ink, appearing to read "N. S. Bennett".

Nathan S. Bennett  
Regulatory Manager

Enclosure

T3N, R68W

PROPOSED SPACING UNIT

NW. COR.  
SEC. 33, T3N, R68W  
FOUND 3 1/4" ALUM. CAP  
ILLEGIBLE

S 89°04'04" W 2670.16' (M)

NE. COR.  
SEC. 33, T3N, R68W  
FOUND 3 1/4" ALUM. CAP  
P.L.S. NO. 34591

N. 1/4 COR.  
SEC. 33, T3N, R68W  
FOUND 2 1/2" ALUM. CAP  
P.L.S. NO. 24307

HERGENREDER 5N-4HZ  
SURFACE LOCATION

HEEL  
LOCATION

N 00°32'47" W

2653.56' (C)

33

S 89°10'11" W  
2663.95' (C)

E. 1/4 COR.  
SEC. 33, T3N, R68W  
FOUND 3 1/4" ALUM. CAP  
P.L.S. NO. 34591

W. 1/4 COR.  
SEC. 33, T3N, R68W  
FOUND 2" ALUM. CAP  
P.L.S. NO. 20673

S 89°10'11" W  
2639.77' (C)

S 00°16'01" E 6647' GRID  
S 00°02'50" W TRUE  
S 08°16'01" E MAGNETIC

N 00°39'25" W 2648.15' (M)

SURFACE LOCATION: NAD 83  
GROUND ELEVATION= 4942.8'  
LATITUDE= 40.188758°  
LONGITUDE= -105.013801°  
LATITUDE= 40°11'19.530"  
LONGITUDE= -105°00'49.684"  
HEEL LOCATION: NAD 83  
LATITUDE= 40.187596°  
LONGITUDE= -105.014563°  
LATITUDE= 40°11'15.344"  
LONGITUDE= -105°00'52.425"  
BOTTOM HOLE LOCATION: NAD 83  
LATITUDE= 40.169350°  
LONGITUDE= -105.014582°  
LATITUDE= 40°10'09.660"  
LONGITUDE= -105°00'52.495"

S. 1/4 COR.  
SEC. 33, T3N, R68W  
FOUND 2 1/2" ALUM. CAP  
P.L.S. NO. 22573

S 89°12'10" W 2633.95' (M)

S 89°11'28" W 2653.41' (M)

SE. COR.  
SEC. 33, T3N, R68W  
FOUND 2 1/2" ALUM. CAP  
P.L.S. NO. 36073

WELLBORE CONTINUES INTO  
SECTION 4, T2N, R68W

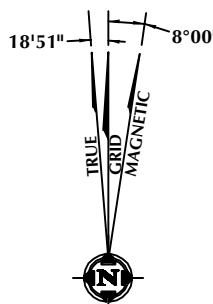
MATCH LINE  
SEE SHEET 2

# 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 IT IS THE SAME OR 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.S. 15-1-102 AND CANNOT BE RELIED UPON TO DETERMINE OWNERSHIP.

*Randall K. French*  
38512  
PROFESSIONAL LAND SURVEYOR  
6/27/17  
RANDALL K. FRENCH  
PROFESSIONAL LAND SURVEYOR  
COLORADO REGISTRATION NUMBER 38512

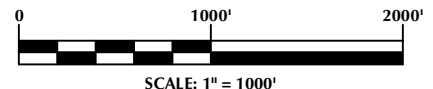
NOTICE:  
ACCORDING TO COLORADO STATE LAW YOU MAY COMMENCE LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE ON THE CERTIFICATION SHOWN HEREON.



NOTE:  
MAGNETIC NORTH IS CURRENT AS OF 6/23/2017.  
MAGNETIC NORTH CHANGES WEST 0°06' PER YEAR.

## NOTES:

- INDICATES SECTION CORNER
- INDICATES CALCULATED CORNER
- ELEVATION BASED ON NAVD88 (GEOID12A)
- BASIS OF BEARING DERIVED FROM COLORADO COORDINATE SYSTEM OF 2983 NORTH ZONE.
- ALL MEASURED DISTANCES ARE GRID. COMBINED SCALE FACTOR: .99972556 CALCULATED FROM THE W. 1/4 CORNER OF SECTION 4, T2N, R68W
- OPERATOR: ROB WILSON / PDOP = 1.3
- 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°16'01"E, 6647' FROM THE HEEL LOCATION.



## WELL PAD - HERGENREDER 22N2-4HZ

HERGENREDER 5N-4HZ  
WELL LOCATION CERTIFICATE  
247' FNL & 991' FWL NWNW (SURFACE)  
668' FNL & 777' FWL NWNW (HEEL)  
LOCATED IN SECTION 33  
T3N, R68W, 6TH P.M.  
2017' FNL & 789' FWL LOT 1 (SWNW) (BOTTOM)  
LOCATED IN SECTION 4  
T2N, R68W, 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:
DATE DRAFTED:	9/25/15	DATE SURVEYED:	2/21/17	1
REVISED:	6/27/17	FILE NAME:	15-68	1 OF 2

**MATCH LINE**  
**SEE SHEET 1**

**S 89°11'28" W 2653.41' (M)**

N. 1/4 COR.  
SEC. 4, T2N, R68W  
FOUND 2 1/2" ALUM. CAP  
P.L.S. NO. 22573

CENTER 1/4 COR.  
SEC. 4, T2N, R68W  
FOUND 3 1/4" ALUM. CAP  
L.S. NO. 22098

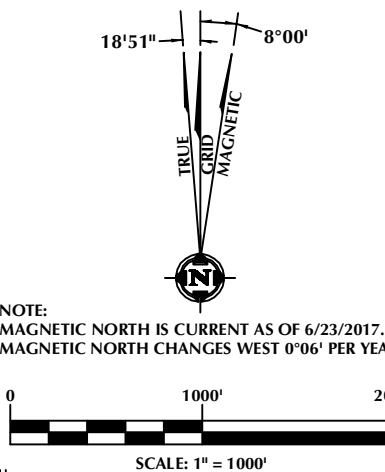
SURFACE LOCATION: NAD 83  
GROUND ELEVATION= 4942.8'  
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LONGITUDE= -105.013801°  
LATITUDE= 40°11'19.530"  
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BOTTOM HOLE LOCATION: NAD 83  
LATITUDE= 40.169350°  
LONGITUDE= -105.014582°  
LATITUDE= 40°10'09.660"  
LONGITUDE= -105°00'52.495"

**S 88°36'48" W 2677.86' (M)**

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 THE SAME IS 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.S. § 51-602 AND CANNOT BE RELIED UPON TO DETERMINE OWNERSHIP.

**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.

NOTE:  
MAGNETIC NORTH IS CURRENT AS OF 6/23/2017.  
MAGNETIC NORTH CHANGES WEST 0°06' PER YEAR.



1. ▲ INDICATES SECTION CORNER
2. ● INDICATES CALCULATED CORNER
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4. BASIS OF BEARING DERIVED FROM COLORADO COORDINATE SYSTEM OF 2983 NORTH ZONE.
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6. OPERATOR: ROB WILSON / PDOP = 1.3
7. SEE ADDENDUM TO WELL LOCATION CERTIFICATE FOR EXISTING IMPROVEMENTS WITHIN 500' OF THE WELL PAD.
8. WELL FOOTAGES ARE MEASURED AT RIGHT ANGLES TO THE SECTION LINES.
9. THE BOTTOM OF HOLE BEARS S00°16'01"E, 6647' FROM THE HEEL LOCATION.
- 0'10. NO. 1 & NO. 2 AS SHOWN HEREON ARE GOVERNMENT LOTS 1 & 2 PER THE ORIGINAL GLO SURVEY

LOCATED IN SECTION 33  
T3N, R68W, 6TH P.M.  
2017' FNL & 789' FWL LOT 1 (SWNW) (BOTTOM)  
LOCATED IN SECTION 4  
T2N, R68W, 6TH P.M.  
WELD COUNTY, COLORADO



**LOVELAND OFFICE**  
1635 Foxtrail Drive, Suite 204  
Loveland, Colorado 80538  
Phone 970-776-4331

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