



# Kerr-McGee Oil & Gas Onshore LP

A subsidiary of Anadarko Petroleum Corporation

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

July 16, 2013

Department of Natural Resources  
Oil and Gas Conservation Commission  
The Chancery Building  
1120 Lincoln St., Suite 801  
Denver, CO 80203

Re: **30 Day Certification Letter - 318A-e**  
Pettinger 4C-18HZ  
Township 1 North, Range 65 West, Section 18: SW/4SW/4  
Unit Spacing: 01N-65W-Sec 7 S/2SW/4  
01N-65W-Sec 18 W/2  
Weld County, Colorado

Ladies/Gentlemen:

Kerr McGee Oil and Gas Onshore LP ("KMG") hereby certify to the Director that KMG owns one-hundred percent (100%) of the mineral rights in the proposed spacing unit. Therefore, KMG respectfully requests the Director to approve the boundary well.

If you have any questions or issues regarding this permit, please contact Cheryl Light at (720) 929-6461.

Very truly yours,

**KERR-McGEE OIL AND GAS ONSHORE LP**

A handwritten signature in blue ink, appearing to read "Lauren Kucera".

**Lauren Kucera**  
**Regulatory Analyst II**

**WELL LOCATION CERTIFICATE: PETTINGER 4C-18HZ**

SECTION 18, TOWNSHIP 1 NORTH, RANGE 65 WEST, 6TH P.M.

NW SEC. 18  
2" ALUM. CAP  
PLS 25937N 88°49'44" E 2653.25'  
1650'  
BH- 1' FNL  
1650' FWLN 88°49'55" E 2651.68'  
N ¼ SEC. 18  
3 ¾" ALUM. CAP  
PLS 25937NE SEC. 18  
2" ALUM. CAP  
PLS 25937**NOTES:**BH LOCATION PROVIDED BY CLIENT.  
LAND SURFACE USE-IRRIGATED CROP  
SEE ATTACHED MAP FOR ADDITIONAL  
IMPROVEMENTS WITHIN 400'.

PDOP= 1.6

GPS OPERATOR: OWEN MCKEE

**18**W ¼ SEC. 18  
3 ¾" ALUM. CAP  
PLS 27269

N 00°21'41" W 2640.73'

N 00°20'34" W 2641.65'

N 88°57'07" E 2654.66'

N 06°37'55" E 5050'  
(TRUE N 07°08'29" E)**PETTINGER  
4C-18HZ**C ¼ SEC. 18  
2 ½" ALUM. CAP  
PLS 29414

S 00°23'36" E 2646.41'

S 00°24'22" E 2648.70'

**SURFACE LOCATION**

GROUND ELEVATION= 5007'

NAD83

LATITUDE= 40.044890°

LONGITUDE= 104.712341°

LATITUDE= 40°02'41.605"

LONGITUDE= 104°42'44.429"

**BOTTOM HOLE LOCATION**

NAD83

LATITUDE= 40.058645°

LONGITUDE= 104.710099°

LATITUDE= 40°03'31.123"

LONGITUDE= 104°42'36.355"

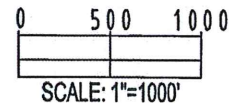
E ¼ SEC. 18  
3 ¾" ALUM. CAP  
PLS 27269S 00°23'58" E 2652.30'  
S 00°24'51" E 2650.17'  
(BASIS OF BEARINGS) SEE NOTE 3SE SEC. 18  
2" ALUM. CAP  
PLS 25937SW SEC. 18  
2 ½" ALUM. CAP  
PLS 28656

S 89°06'17" W 2657.50'

S 88°59'28" W 2652.25'

**WELL PETTINGER 4C-18HZ TO BE LOCATED 283' FSL AND 1036' FWL****LEGEND**= EXISTING MONUMENT  
= PROPOSED WELL= BOTTOM HOLE  
= EXISTING WELL

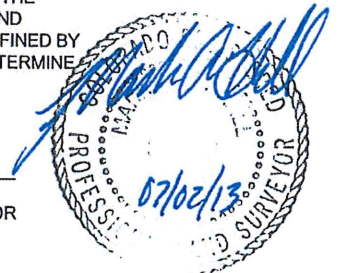
BH = BOTTOM HOLE

**NOTES:**

- THIS FIELD SURVEY CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
- HORIZONTAL POSITIONS AND ORTHOMETRIC ELEVATIONS SHOWN AT THE WELL HEAD, ARE BASED ON GPS-RTK POSITIONS DERIVED FROM MINIMUM 2-HOUR STATIC OBSERVATIONS CORRECTED BY THE NATIONAL GEODETIC SURVEY ONLINE POSITIONING USER SERVICE, O.P.U.S. DATUM: HORIZONTAL = NAD83/2007, VERTICAL = NAVD88
- THE BASIS OF BEARINGS ARE STATE PLANE COORDINATE SYSTEM GRID BEARINGS SHOWN HEREON BETWEEN THE DESCRIBED MONUMENTS SHOWN HEREON.
- GRID DISTANCES ARE SHOWN, AS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED PERPENDICULAR TO SECTION LINES.

I, MARK A. HALL, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO DO HEREBY CERTIFY TO **KERR-MCGEE OIL & GAS ONSHORE LP**, THAT THE SURVEY AND WELL LOCATION CERTIFICATE SHOWN HEREON WERE DONE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT THE DRAWING SHOWN HEREON ACCURATELY DEPICTS THE PROPOSED LOCATION OF THE WELL. 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.

MARK A. HALL, PLS 36073  
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR  
FOR AND ON BEHALF OF P.F.S., LLC



PREPARED BY:

FIELD DATE:  
03-18-13DRAWING DATE:  
06-28-13BY: CLM  
CHECKED: TJN

SURFACE LOCATION:

SW 1/4 SW 1/4,

SEC. 18, T1N, R65W, 6TH P.M.

WELD COUNTY, COLORADO

NOTICE: ACCORDING TO COLORADO 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 THIS SAID DATE OF THIS CERTIFICATION SHOWN HEREON.