



December 3, 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**  
BROTEMARKLE 4N-13HZ  
Township 3 North, Range 66 West, Section 13: SE/4SW/4  
Unit Spacing: 03N-66W-13 W/2W/2  
Weld County, Colorado

Ladies/Gentlemen:

Kerr-McGee Oil and Gas Onshore LP ("KMG") hereby certifies to the Director that a thirty (30) day notice has been given by certified mail to all owners in the proposed wellbore spacing unit. We have not received any objections to such well location, proposed spacing unit, or additional producing formation. KMG hereby 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 cursive script that reads 'Rebecca Heim'.

**Rebecca Heim**  
Regulatory Analyst II

PROPOSED SPACING MAP

T3N, R66W

NW. COR.  
SEC. 13, T3N, R66W  
FOUND BRASS CAP  
STAMPED "NHPQ"  
NUMBER ILLEGIBLE

NE. COR.  
SEC. 13, T3N, R66W  
FOUND ALUM. CAP  
L.S. NO. 33642

W. 1/4 COR.  
SEC. 13, T3N, R66W  
FOUND 2 1/2" ALUM. CAP  
L.S. NO. 12330

E. 1/4 COR.  
SEC. 13, T3N, R66W  
FOUND 3 1/2" ALUM. CAP  
L.S. NO. 10372

SW. COR.  
SEC. 13, T3N, R66W  
FOUND 3 1/4" ALUM. CAP  
L.S. NO. 4392

SE. COR.  
SEC. 13, T3N, R66W  
FOUND 3 1/2" ALUM. CAP  
L.S. NO. 12330

S 88°17'30" W 5322.03' (M)

**SURFACE LOCATION**  
GROUND ELEVATION=5025.7'  
NAD 83  
LATITUDE= 40.218779°  
LONGITUDE= -104.729672°

**BOTTOM HOLE LOCATION**  
NAD 83  
LATITUDE= 40.231124°  
LONGITUDE= -104.732556°

LATITUDE= 40°13'52.047"  
LONGITUDE= -104°43'57.202"

S 88°17'55" W  
2660.70' (C)

S 88°17'55" W  
2657.28' (C)

N 00°36'00" W  
2638.65' (C)

N 00°36'00" W  
2632.05' (C)

N 00°31'09" W  
2639.05' (M)

N 00°31'47" W  
2639.42' (M)

S 88°27'23" W 5307.82' (M)

630' 460' 700' 2030'

N 00°36'24" W 2638.31' (M)

N 00°44'43" W 2624.62' (M)

N 10°38'55" W 4569' FROM TRUE GRID  
N 10°09'03" W TRUE  
N 18°39'15" W MAGNETIC

BOTTOM OF HOLE:  
460' FNL & 630' FWL

**BROTEMARKLE 4N-13HZ**  
SURFACE LOCATION

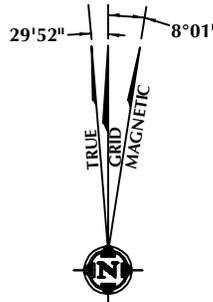
13

1421'

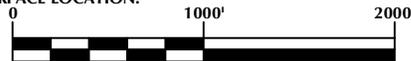
293'

**NOTES:**

- ▲ INDICATES FOUND SECTION CORNER
- INDICATES CALCULATED CORNER
- ELEVATION BASED ON NAVD88 (GEOID09)
- BASIS OF BEARING DERIVED FROM COLORADO COORDINATE SYSTEM 1983 NORTH ZONE UNLESS OTHERWISE NOTED.
- ALL MEASURED DISTANCES ARE GRID. COMBINED SCALE FACTOR: .99972118
- OPERATOR: ROB WILSON / PDOP = 1.3
- SURFACE USE OF LOCATION IS DRY LAND CROP.
- 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 N10°38'55"W 4569' FROM THE SURFACE LOCATION.



NOTE:  
MAGNETIC NORTH IS CURRENT AS OF 10/8/2013.  
MAGNETIC NORTH CHANGES WEST 0°08' PER YEAR.



SCALE: 1" = 1000'

**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 THE SAME 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.S. 38-51-102 AND CANNOT BE RELIED UPON TO DETERMINE OWNERSHIP.

*Benjamin J. Reenders*  
PROFESSIONAL LAND SURVEYOR  
10/11/13

BENJAMIN J. REENDERS  
PROFESSIONAL LAND SURVEYOR  
COLORADO REGISTRATION NUMBER 43305

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 - BROTEMARKLE 4N-13HZ**

**BROTEMARKLE 4N-13HZ**  
**WELL LOCATION CERTIFICATE**  
293' FSL & 1421' FWL SESW (SURFACE)  
460' FNL & 630' FWL NWNW (BOTTOM)  
LOCATED IN SECTION 13  
T3N, R66W, 6TH P.M.  
WELD COUNTY, COLORADO

**Kerr-McGee Oil &  
Gas Onshore L.P.**  
1099 18th Street  
Denver, Colorado 80202



**CONSULTING, LLC**

SHERIDAN OFFICE 2155 North Main Street Sheridan, Wyoming 82801 Phone 307-674-0609  
LOVELAND OFFICE 1635 Foxtrail Drive, Suite 204 Loveland, Colorado 80538 Phone 970-776-4331

DRAFTED BY:	APF	CHECKED BY:	BJR
DATE DRAFTED:	5/4/12	DATE SURVEYED:	10/8/13
REVISED:	10/11/13	FILE NAME:	12-29