

# 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)

1160'

460'

170'

1500'

BOTTOM OF HOLE:  
460' FNL & 1160' FWL

**SURFACE LOCATION**  
GROUND ELEVATION= 5026.8'  
NAD 83  
LATITUDE= 40.218779°  
LONGITUDE= -104.729565°

LATITUDE= 40°13'07.603"  
LONGITUDE= -104°43'46.434"

**BOTTOM HOLE LOCATION**  
NAD 83  
LATITUDE= 40.231155°  
LONGITUDE= -104.730658°

LATITUDE= 40°13'52.158"  
LONGITUDE= -104°43'50.369"

N 04°22'13" W 4519' GRID  
N 03°52'21" W TRUE  
N 12°23'13" W MAGNETIC

S 88°17'55" W  
2660.70' (C)

S 88°17'55" W  
2657.28' (C)

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**BROTEMARKLE 29N-13HZ**  
SURFACE LOCATION

1451'

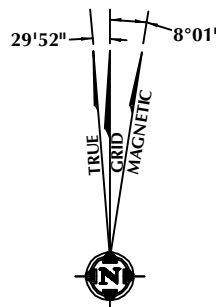
S 88°27'23" W 5307.82' (M)

## 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*  
BENJAMIN J. REENDERS  
PROFESSIONAL LAND SURVEYOR  
COLORADO REGISTRATION NUMBER 48305

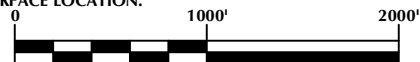
NOTICE:  
ACCORDING TO COLORADO STATE LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE ON THE CERTIFICATION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



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

## 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 N04°22'13"W 4519' FROM THE SURFACE LOCATION.



SCALE: 1" = 1000'

## WELL PAD - BROTEMARKLE 4N-13HZ

**BROTEMARKLE 29N-13HZ**  
**WELL LOCATION CERTIFICATE**  
292' FSL & 1451' FWL SESW (SURFACE)  
460' FNL & 1160' 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



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