

WELL BORE CONTINUES  
INTO SECTION 14

T1N, R67W

MATCH LINE  
SEE SHEET 1B

NW. COR.  
SEC. 23, T1N, R67W  
FOUND 2 1/2" ALUM. CAP  
NUMBER ILLEGIBLE

N. 1/4 COR.  
SEC. 23, T1N, R67W  
FOUND 2" ALUM. CAP  
NUMBER ILLEGIBLE

NE. COR.  
SEC. 23, T1N, R67W  
FOUND 2 1/2" ALUM. CAP  
L.S. NO. 11372

E. 1/4 COR.  
SEC. 23, T1N, R67W  
FOUND 2" ALUM. CAP  
L.S. NO. 23027

SE. COR.  
SEC. 23, T1N, R67W  
FOUND 2" ALUM. CAP  
L.S. NO. 9644

W. 1/4 COR.  
SEC. 23, T1N, R67W  
FOUND 2 1/2" ALUM. CAP  
NUMBER ILLEGIBLE

SW. COR.  
SEC. 23, T1N, R67W  
FOUND 3 1/4" ALUM. CAP  
L.S. NO. 13155

N 00°26'14" W 2636.81' (M)  
N 00°28'09" W 5915' GRID  
N 00°03'32" W TRUE  
N 08°28'09" W MAGNETIC

PUMA 30N-14HZ  
SURFACE LOCATION

SURFACE LOCATION: NAD 83  
GROUND ELEVATION= 4990.9'  
LATITUDE= 40.030156°  
LONGITUDE= -104.865178°  
LATITUDE= 40°01'48.563"  
LONGITUDE= -104°51'54.640"  
HEEL LOCATION: NAD 83  
LATITUDE= 40.029511°  
LONGITUDE= -104.866234°  
LATITUDE= 40°01'46.240"  
LONGITUDE= -104°51'58.443"  
BOTTOM HOLE LOCATION: NAD 83  
LATITUDE= 40.045750°  
LONGITUDE= -104.866256°  
LATITUDE= 40°02'44.698"  
LONGITUDE= -104°51'58.522"

S 89°34'00" W 2646.28' (M)

S 89°33'55" W 2646.20' (M)

S. 1/4 COR.  
SEC. 23, T1N, R67W  
FOUND 2" ALUM. CAP  
L.S. NO. 18475

E. 1/4 COR.  
SEC. 26, T1N, R67W  
FOUND 2" ALUM. CAP  
L.S. NO. 9644

W. 1/4 COR.  
SEC. 26, T1N, R67W  
FOUND 3 1/4" ALUM. CAP  
L.S. NO. 37890

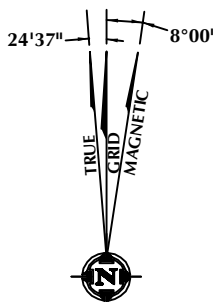
### CERTIFICATE OF SURVEYOR:

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. 38-513-02 AND CANNOT BE RELIED UPON TO DETERMINE OWNERSHIP.

*Benjamin J. Reenders*  
BENJAMIN J. REENDERS  
PROFESSIONAL LAND SURVEYOR  
COLORADO REGISTRATION NUMBER 14362  
8/19/15

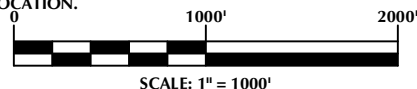
NOTICE:  
ACCORDING TO COLORADO STATE LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE ON THE CERTIFICATION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

NOTE:  
MAGNETIC NORTH IS CURRENT AS OF 8/11/2015.  
MAGNETIC NORTH CHANGES WEST 0°06' 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: .99972876
- OPERATOR: ROB WILSON / PDOP = 1.2
- 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°28'09"W, 5915' FROM THE HEEL LOCATION.



### WELL PAD - PUMA 4C-14HZ

PUMA 30N-14HZ  
WELL LOCATION CERTIFICATE  
290' FSL & 586' FWL SWSW (SURFACE)  
55' FSL & 290' FWL SWSW (HEEL)  
LOCATED IN SECTION 23  
700' FSL & 289' FWL SWSW (BOTTOM)  
LOCATED IN SECTION 14  
T1N, R67W, 6TH P.M.  
WELD COUNTY, COLORADO

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



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