

# WELL LOCATION CERTIFICATE: ROWE 13N-27HZ

SECTION 27, TOWNSHIP 1 NORTH, RANGE 65 WEST, 6TH P.M.

N 89°38'17" E 2632.69'

N 89°29'54" E 2641.95'

NW SEC. 27  
3/4" ALUM. CAP  
PLS 10855

N 1/4 SEC. 27  
CALC'D FROM  
TIES

NE SEC. 27  
3/4" ALUM. CAP  
PLS 27269

SURFACE LOCATION  
GROUND ELEVATION= 5089'  
NAD83  
LATITUDE= 40.029095°  
LONGITUDE= 104.641779°

LATITUDE= 40°01'44.740"  
LONGITUDE= 104°38'30.406"

BOTTOM HOLE LOCATION  
NAD83  
LATITUDE= 40.016412°  
LONGITUDE= 104.658037°

LATITUDE= 40°00'59.084"  
LONGITUDE= 104°39'28.934"

ROWE 13N-27HZ

N 00°05'19" W 2643.56'

N 00°27'15" W 2645.70'

S 00°06'24" E 2649.41'

W 1/4 SEC. 27  
2 1/2" ALUM. CAP  
PLS 13482

C 1/4 SEC. 27  
3/4" ALUM. CAP  
PLS 6973

E 1/4 SEC. 27  
3/4" ALUM. CAP  
PLS 27269

27

NOTES:  
BH LOCATION PROVIDED BY CLIENT.  
LAND SURFACE USE-IRRIGATED CROP  
SEE ATTACHED MAP FOR ADDITIONAL  
IMPROVEMENTS WITHIN 400'.

PDOP= 2.1  
GPS OPERATOR: CHRIS PEARSON

(BASIS OF BEARINGS) SEE NOTE 3

S 44°02'02" W 6486'

(TRUE S 44°35'15" W)

S 89°34'40" W 2625.87'

S 00°54'24" E 2641.16'

SW SEC. 27  
2 1/2" ALUM. CAP  
PLS 26970

S 89°38'17" W 2649.78'

S 89°31'50" W 2647.39'

SE SEC. 27  
3/4" ALUM. CAP  
PLS 23520

WELL ROWE 13N-27HZ TO BE LOCATED 200' FNL AND 286' FEL

BH- 460' FSL  
460' FWL

## LEGEND

- ⊕ = EXISTING MONUMENT
- ⊙ = PROPOSED WELL
- ◆ = BOTTOM HOLE
- ◆ = EXISTING WELL
- BH = BOTTOM HOLE

0 500 1000

SCALE: 1"=1000'



## 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:  PFS Petroleum Field Services, LLC 1801 W. 13th Ave. Denver, CO 80204	FIELD DATE: 04-28-11	SURFACE LOCATION: NE 1/4 NE 1/4, SEC. 27, T1N, R65W
	DRAWING DATE: 05-09-11	BY: SMF

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.