

# WELL LOCATION CERTIFICATE: NRC 37-8

SECTION 8, TOWNSHIP 1 NORTH, RANGE 67 WEST, 6TH P.M.

NW SEC. 8  
2½" ALUM. CAP  
LS 28656

S 89°47'44" E 2623.09'

S 89°47'32" E 2634.28'

NE SEC. 8  
¾" ALUM. CAP  
LS 33642

N ¼ SEC. 8  
¾" ALUM. CAP  
LS 33642

**NOTES:**

THIS IS A DIRECTIONAL WELL  
BH LOCATION TO BE 50' FSL & 1320' FEL  
BH LOCATION PROVIDED BY CLIENT.  
LAND SURFACE USE-OPEN FIELD  
TWINNING PROPOSED WELL NRC 10-8  
TO BE 16' W  
PROPOSED WELL NRC 10-8 TO BE  
1043' FSL & 1381' FEL  
EXISTING WELL ROCKY MOUNTAIN  
FUEL CO #2 IS 51' SW  
SEE ATTACHED MAP FOR ADDITIONAL  
IMPROVEMENTS WITHIN 400'.

N 00°13'52" W 2642.16'

S 00°27'46" E 2639.38'

W ¼ SEC. 8  
2½" ALUM. CAP  
LS 28286

**SURFACE LOCATION**  
GROUND ELEVATION= 5056'  
NAD83  
LATITUDE= 40.061163°  
LONGITUDE= 104.909975°

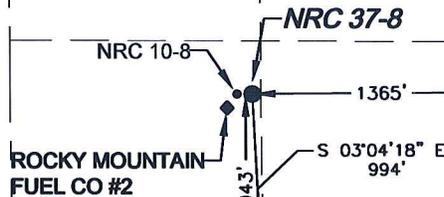
E ¼ SEC. 8  
¾" ALUM. CAP  
LS 33642

(BASIS OF BEARINGS) SEE NOTE 3  
N 00°14'09" W 2642.79'

S 00°27'57" E 2639.49'

**BOTTOM HOLE LOCATION**  
NAD83  
LATITUDE= 40.058436°  
LONGITUDE= 104.909808°

PDOP= 2.20  
GPS OPERATOR: TRAVIS KRAICH



S ¼ SEC. 8  
2½" ALUM. CAP  
LS 13482

BH- 50' FSL  
1320' FEL

SW SEC. 8  
¾" ALUM. CAP  
LS 38100

N 89°51'36" W 2638.92'

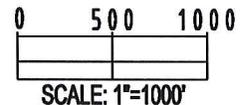
N 89°51'51" W 2639.68'

SE SEC. 8  
¾" ALUM. CAP  
LS 10855

WELL NRC 37-8 TO BE LOCATED 1043' FSL AND 1365' FEL, SECTION 8, T1N, R67W OF THE 6th P.M.

**LEGEND**

- ⊕ = EXISTING MONUMENT
- ⬤ = PROPOSED WELL
- ⬥ = BOTTOM HOLE
- ⬧ = EXISTING WELL
- BH = BOTTOM HOLE

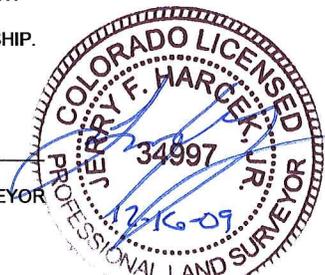


**NOTES:**

1. THIS SURVEY WAS DONE BY GPS METHODS AND CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
2. ELEVATIONS SHOWN AT THE WELL HEAD, AS WELL AS HORIZONTAL CONTROL, ARE BASED ON GPS-RTK VALUES DERIVED FROM DOING 2-HOUR STATIC GPS SESSIONS AND REDUCTIONS USING O.P.U.S. SOLUTIONS.  
VERTICAL = NAVD88; HORIZONTAL = NAD83/32
3. THE BEARINGS SHOWN HEREON ARE BASED ON GPS OBSERVATIONS BETWEEN THE MONUMENTS SHOWN HEREON AS FOUND ON THE FIELD DATE BELOW.
4. DISTANCES SHOWN ARE AT GROUND LEVEL, AS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED AT A PERPENDICULAR TO SECTION LINES.

I, JERRY F. HARCEK JR., 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 **NRC 37-8**. 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.

JERRY F. HARCEK JR., PLS 34997  
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR  
FOR AND ON BEHALF OF P.F.S., LLC

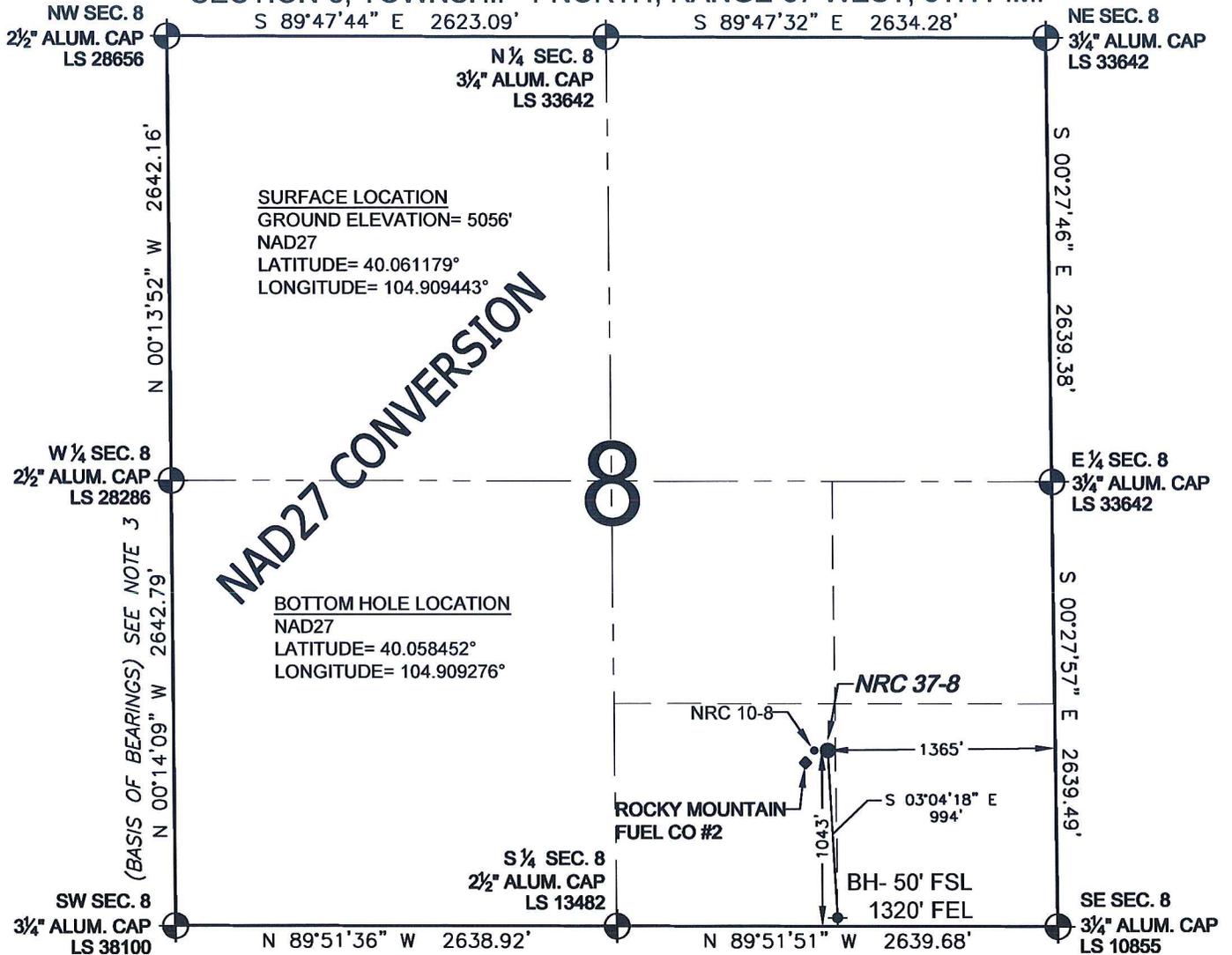


PREPARED BY: <b>PFS</b> Petroleum Field Services, LLC 1801 W. 13th Ave. Denver, CO 80204	FIELD DATE: 12-09-09	WELL NAME: NRC 37-8
	DRAWING DATE: 12-11-09	SURFACE LOCATION: WELD COUNTY, COLORADO
BY: SMF		SW 1/4 SE 1/4, SEC. 8, T1N, R67W

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.

# EXHIBIT: NAD27 CONVERSION

SECTION 8, TOWNSHIP 1 NORTH, RANGE 67 WEST, 6TH P.M.



WELL NRC 37-8 TO BE LOCATED 1043' FSL AND 1365' FEL, SECTION 8, T1N, R67W OF THE 6th P.M.

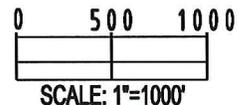
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- BH = BOTTOM HOLE
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NOTE: LATITUDE AND LONGITUDE SHOWN WERE CONVERTED FROM NAD83 USING CORPSCON 6.0 (PROGRAM). PFS DOES NOT WARRANT OR GUARANTEE THEIR ACCURACY.



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	BY: SMF	SW 1/4 SE 1/4, SEC. 8, T1N, R67W

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