

WELL LOCATION CERTIFICATE: NRC 39-9

SECTION 9, TOWNSHIP 1 NORTH, RANGE 67 WEST, 6TH P.M.

NW SEC. 9
3/4" ALUM. CAP
LS 33642

N 89°31'11" E 2634.24'

N 89°31'22" E 2632.37'

NE SEC. 9
2" ALUM. CAP
LS 25937

N 1/4 SEC. 9
3/4" ALUM. CAP
LS 33642

N 00°27'46" W 2639.38'

NOTES:
THIS IS A DIRECTIONAL WELL
BH LOCATION TO BE 1320' FSL & 50' FEL
BH LOCATION PROVIDED BY CLIENT.
LAND SURFACE USE-OPEN FIELD
TWINNING PROPOSED WELL NRC 9-9
TO BE 16' N
PROPOSED WELL NRC 9-9 TO BE
1118' FSL & 1502' FEL
EXISTING WELL ROCKY MOUNTAIN FUEL CO
F #3 IS 67' SW
SEE ATTACHED MAP FOR ADDITIONAL
IMPROVEMENTS WITHIN 400'.

S 00°19'40" E 2642.89'

W 1/4 SEC. 9
3/4" ALUM. CAP
LS 33642

SURFACE LOCATION
GROUND ELEVATION= 5024'
NAD83
LATITUDE= 40.061295°
LONGITUDE= 104.891681°

9

E 1/4 SEC. 9
2" ALUM. CAP
LS 25937

(BASIS OF BEARINGS) SEE NOTE 3
N 00°27'57" W 2639.49'

BOTTOM HOLE LOCATION
NAD83
LATITUDE= 40.061893°
LONGITUDE= 104.886494°

ROCKY MOUNTAIN
FUEL CO F #3

NRC 9-9
BH- 1320' FSL
50' FEL
N 81°04'33" E 1468'

NRC 39-9

PDOP= 1.92
GPS OPERATOR: TRAVIS KRAICH

1103'

S 00°20'23" E 2642.91'

SW SEC. 9
3/4" ALUM. CAP
LS 10855

S 89°35'49" W 2627.35'

S 89°35'45" W 2627.21'

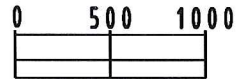
S 1/4 SEC. 9
2" ALUM. CAP
LS 25937

SE SEC. 9
2" ALUM. CAP
LS 25937

WELL NRC 39-9 TO BE LOCATED 1103' FSL AND 1502' FEL, SECTION 9, T1N, R67W OF THE 6th P.M.

LEGEND

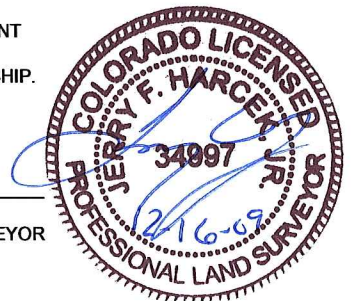
⊕ = EXISTING MONUMENT ⊕ = BOTTOM HOLE BH = BOTTOM HOLE
● = PROPOSED WELL ◆ = EXISTING WELL



SCALE: 1"=1000'

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 39-9**. 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



NOTES:

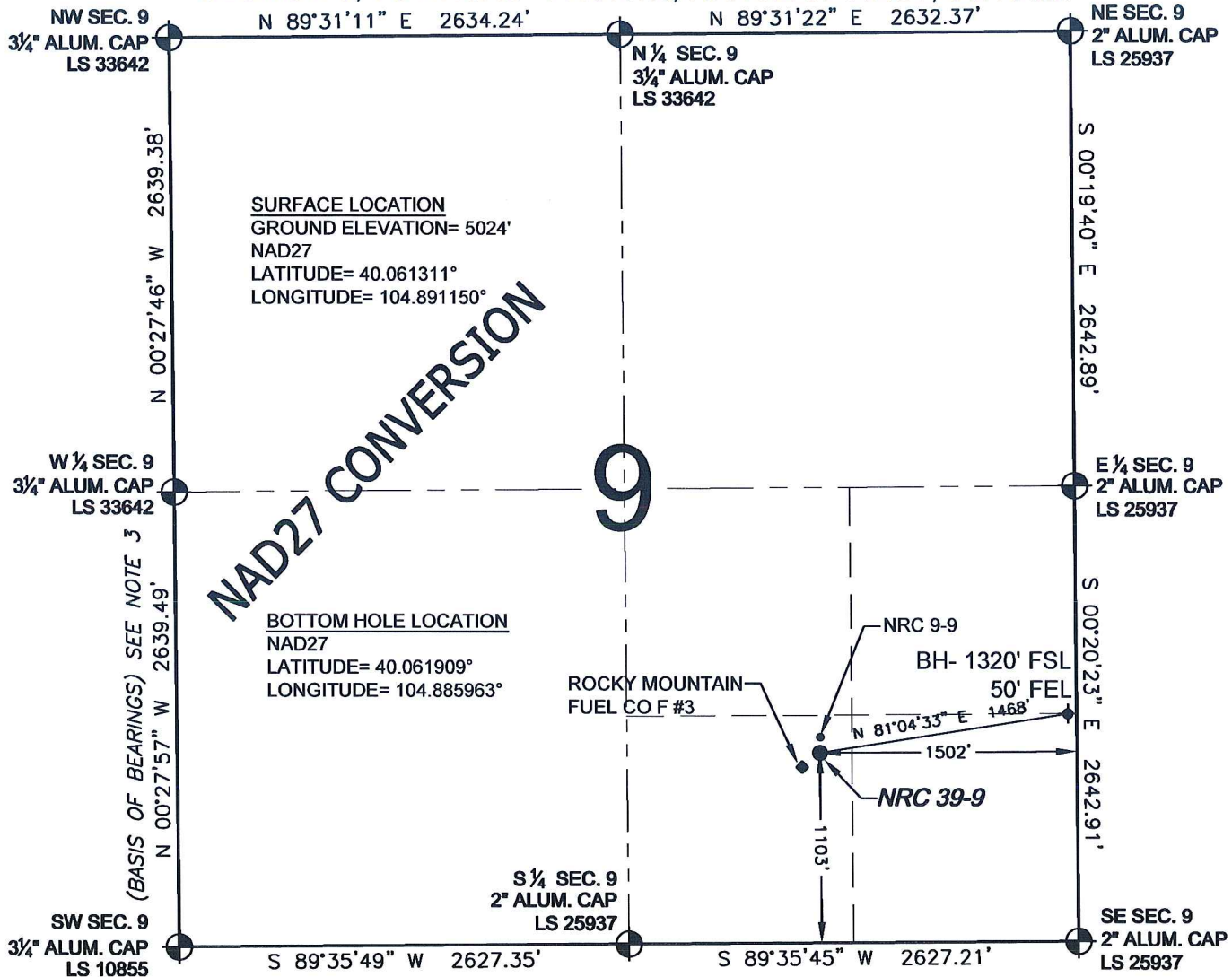
- THIS SURVEY WAS DONE BY GPS METHODS AND CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
- ELEVATIONS SHOWN AT THE WELL HEAD, AS WELL AS HORIZONTAL CONTROL, ARE BASED ON GPS-RTK VALUES DERIVED FROM DOING 2-HOUR STATIC GPS SESSIONS AND REDUCTIONS USING O.P.U.S. SOLUTIONS.
VERTICAL = NAVD88; HORIZONTAL = NAD83/92
- THE BEARINGS SHOWN HEREON ARE BASED ON GPS OBSERVATIONS BETWEEN THE MONUMENTS SHOWN HEREON AS FOUND ON THE FIELD DATE BELOW.
- DISTANCES SHOWN ARE AT GROUND LEVEL, AS MEASURED IN THE FIELD, WITH TIES TO WELLS MEASURED AT A PERPENDICULAR TO SECTION LINES.

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.

PREPARED BY: PFS Petroleum Field Services, LLC 1801 W. 13th Ave. Denver, CO 80204	FIELD DATE: 12-11-09	WELL NAME: NRC 39-9
	DRAWING DATE: 12-14-09	SURFACE LOCATION: WELD COUNTY, COLORADO
	BY: SMF	SW 1/4 SE 1/4, SEC. 9, T1N, R67W

EXHIBIT: NAD27 CONVERSION

SECTION 9, TOWNSHIP 1 NORTH, RANGE 67 WEST, 6TH P.M.



SURFACE LOCATION
GROUND ELEVATION= 5024'
NAD27
LATITUDE= 40.061311°
LONGITUDE= 104.891150°

BOTTOM HOLE LOCATION
NAD27
LATITUDE= 40.061909°
LONGITUDE= 104.885963°

ROCKY MOUNTAIN
FUEL CO F #3

NRC 9-9

BH- 1320' FSL
50' FEL

N 81°04'33" E 1468'

NRC 39-9

S ¼ SEC. 9
2" ALUM. CAP
LS 25937

SE SEC. 9
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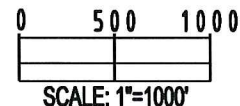
NOTES:

- THIS SURVEY WAS DONE BY GPS METHODS AND CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215 (PDOP VALUE IS LESS THAN 6.0, LATITUDE AND LONGITUDE ARE ACCURATE TO 5 DECIMAL PLACES, AND GPS OBSERVATIONS ARE DIFFERENTIAL AND DONE BY QUALIFIED PERSONNEL.)
- 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 = NAD83/92
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LEGEND

- ⊙ = EXISTING MONUMENT
- ⬢ = BOTTOM HOLE
- ⬤ = PROPOSED WELL
- ◆ = EXISTING WELL
- BH = BOTTOM HOLE

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. 9, T1N, R67W

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