

WELL LOCATION CERTIFICATE: VARRA 37-32

SECTION 32, TOWNSHIP 3 NORTH, RANGE 67 WEST, 6TH P.M.

NW SEC. 32
2" ALUM CAP
LS 23500

S 89°55'29" E 2642.66'

S 89°55'43" E 2642.95'

NE SEC. 32
2½" ALUM CAP
LS 19585

N ¼ SEC. 32
2½" ALUM CAP
LS 19585

NOTES:
THIS IS A DIRECTIONAL WELL.
BH LOCATION IS AT 50' FSL & 1260' FEL.
BH LOCATION PROVIDED BY CLIENT.
LAND SURFACE USE-OPEN FIELD
TWINNING PROPOSED WELL VARRA 20-32
TO BE 16' E.
PROPOSED WELL VARRA 20-32 TO BE
411' FSL & 477' FEL.
EXISTING WELL HSR-HEINTZELMAN 16-32
IS 53' TO THE NE.
SEE ATTACHED MAP FOR ADDITIONAL
IMPROVEMENTS WITHIN 400'.

(BASIS OF BEARINGS) SEE NOTE 3
S 00°35'11" E 2656.70'

N 00°20'14" W 5265.62'

32

SURFACE LOCATION
GROUND ELEVATION= 4835'
NAD83
LATITUDE= 40.17628°
LONGITUDE= 104.90611°

BOTTOM HOLE LOCATION
NAD83
LATITUDE= 40.17531°
LONGITUDE= 104.90885°

HSR-HEINTZELMAN 16-32

VARRA
37-32

E ¼ SEC. 32
2½" ALUM CAP
LS 23501

S 00°24'18" E 2630.66'

VARRA 20-32

SW SEC. 32
2" ALUM CAP
LS 20676

N 89°41'24" W 2670.01'

S ¼ SEC. 32
2½" ALUM CAP
LS 23500

BH- 50' FSL
1260' FEL

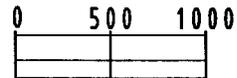
N 89°41'46" W 2630.45'

SE SEC. 32
2½" ALUM CAP
LS 23501

WELL **VARRA 37-32** TO BE LOCATED 411' FSL AND 493' FEL, SECTION 32, T3N, R67W OF THE 6th P.M.

LEGEND

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



SCALE: 1"=1000'

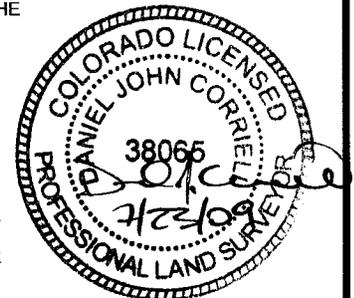


NOTES:

- 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
- 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.

I, DANIEL J. CORRIELL, 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 **VARRA 37-32**. 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.

DANIEL J. CORRIELL, PLS 38065
COLORADO LICENSED PROFESSIONAL LAND SURVEYOR
FOR AND ON BEHALF OF P.F.S., LLC

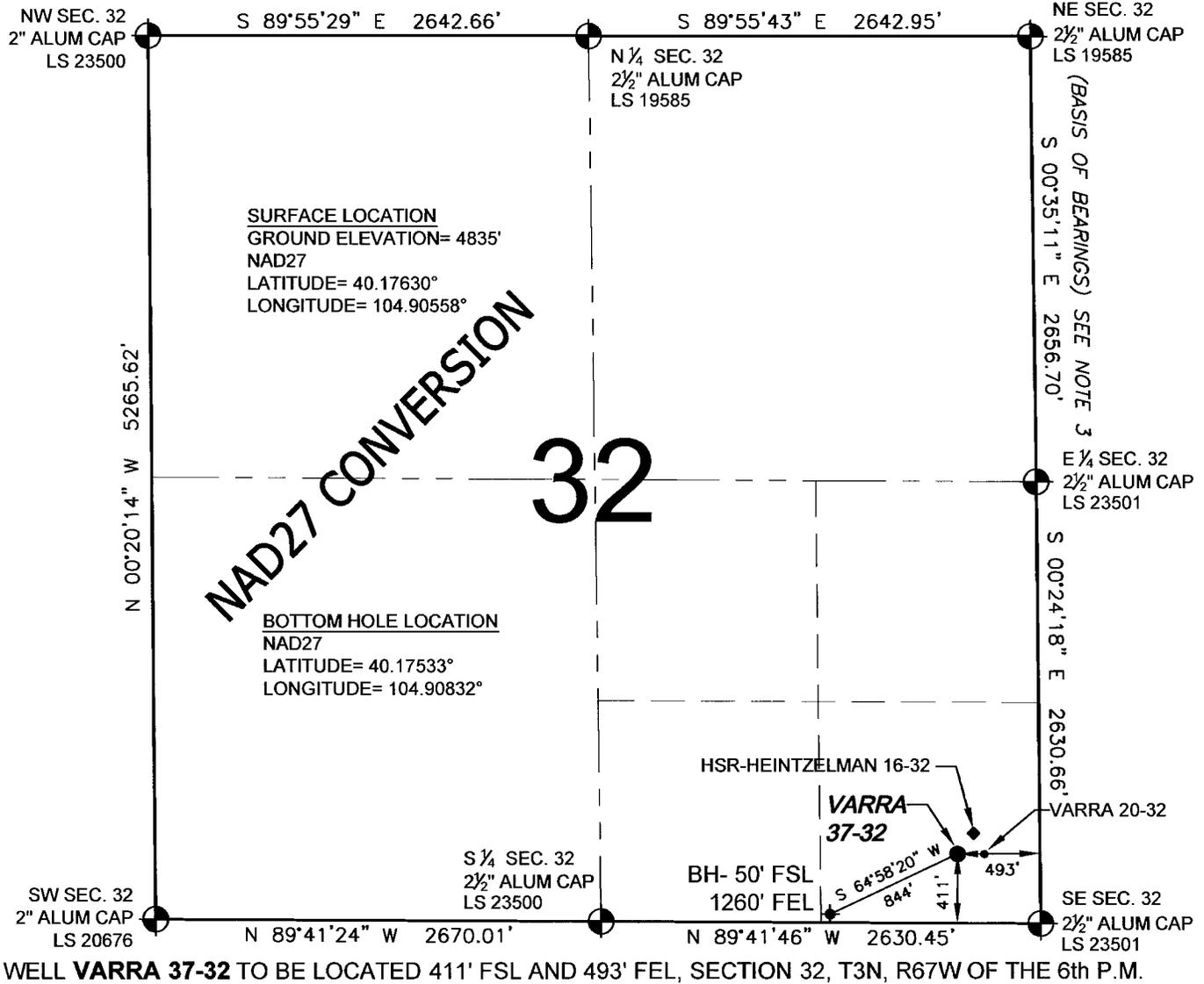


PREPARED BY:  PFS Petroleum Field Services, LLC 1801 W. 13th Ave. Denver, CO 80204	FIELD DATE: 03-31-08	WELL NAME: VARRA 37-32
	DRAWING DATE: 04-01-08	SURFACE LOCATION: WELD COUNTY, COLORADO
	BY: SMF	SE 1/4 SE 1/4, SEC. 32, T3N, R67W

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 32, TOWNSHIP 3 NORTH, RANGE 67 WEST, 6TH P.M.



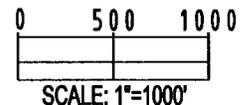
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NOTE: LATITUDE AND LONGITUDE SHOWN WERE CONVERTED FROM NAD83 USING CORPSCON 6.0 (PROGRAM). PFS DOES NOT WARRANT OR GUARANTEE THEIR ACCURACY.



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