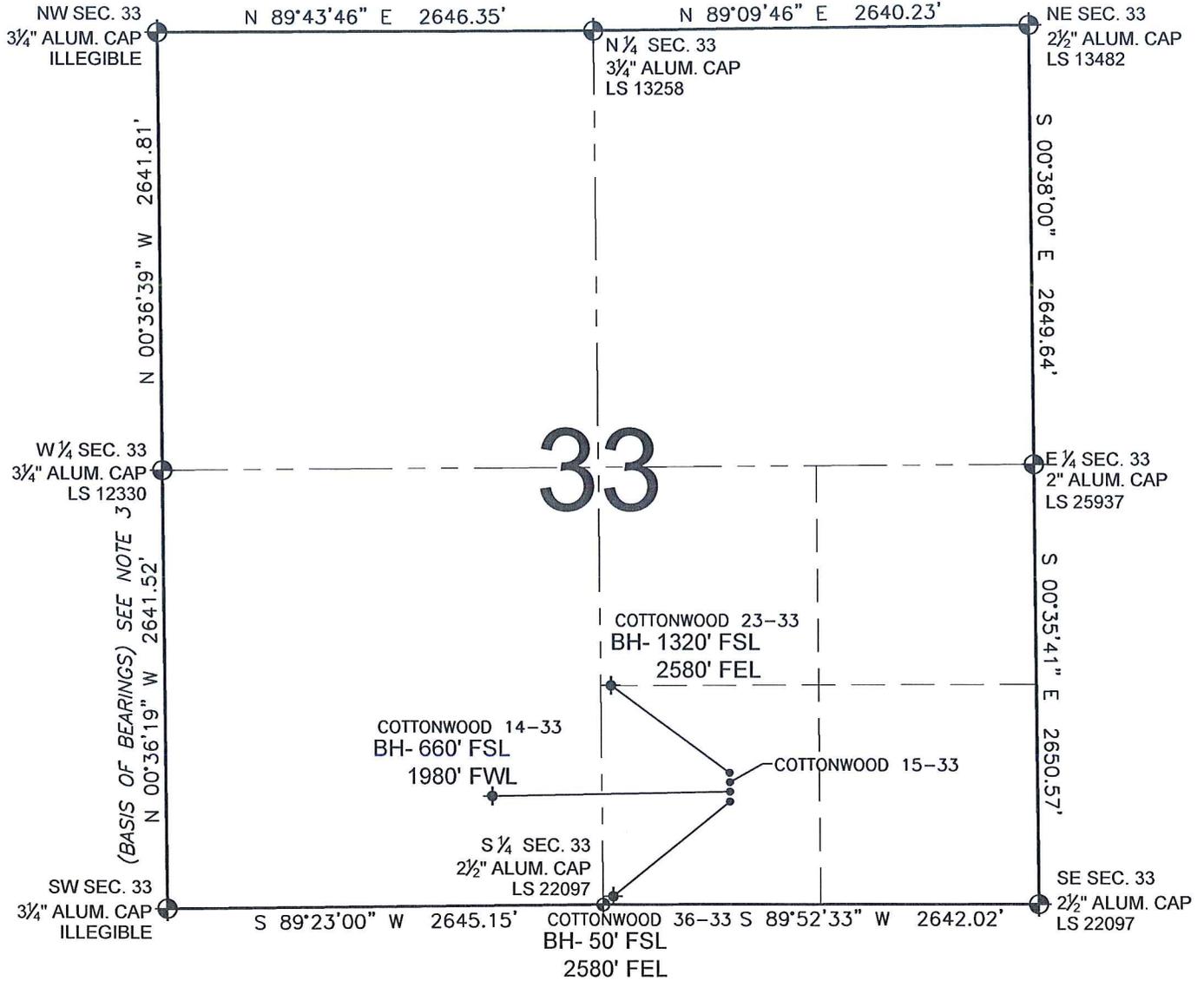


PAD DRAWING - COTTONWOOD 15-33 PAD

SECTION 33, TOWNSHIP 2 NORTH, RANGE 66 WEST, 6TH P.M.



NOTES:

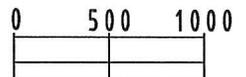
1. THIS SURVEY WAS DONE BY GPS METHODS AND CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
2. ELEVATIONS SHOWN AT THE WELL HEAD, AS WELL AS HORIZONTAL CONTROL, ARE BASED ON GPS-RTK VALUES DERIVED FROM DOING 2-HOUR STATIC GPS SESSIONS AND REDUCTIONS USING O.P.U.S. SOLUTIONS.
VERTICAL = NAVD88; HORIZONTAL = NAD83/92
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.

LEGEND

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

NOTES:

- COTTONWOOD 36-33 TO BE AT 705' FSL, 1865' FEL.
- BOTTOM HOLE AT 50' FSL & 2580' FEL.
- COTTONWOOD 14-33 TO BE AT 721' FSL, 1865' FEL.
- BOTTOM HOLE AT 660' FSL & 1980' FWL.
- COTTONWOOD 15-33 TO BE AT 737' FSL, 1865' FEL.
- COTTONWOOD 23-33 TO BE AT 753' FSL, 1865' FEL.
- BOTTOM HOLE AT 1320' FSL & 2580' FEL.



SCALE: 1"=1000'

REVISIONS	
INITIAL	DATE
SMF	02-08-10

PREPARED BY:

KERR-MCGEE OIL & GAS ONSHORE LP

FIELD DATE: 01-15-10	PAD NAME: COTTONWOOD 15-33 PAD
DRAWING DATE: 01-20-10	SURFACE LOCATION: WELD COUNTY, COLORADO SW 1/4 SE 1/4, SEC. 33, T2N, R66W
BY: SMF	