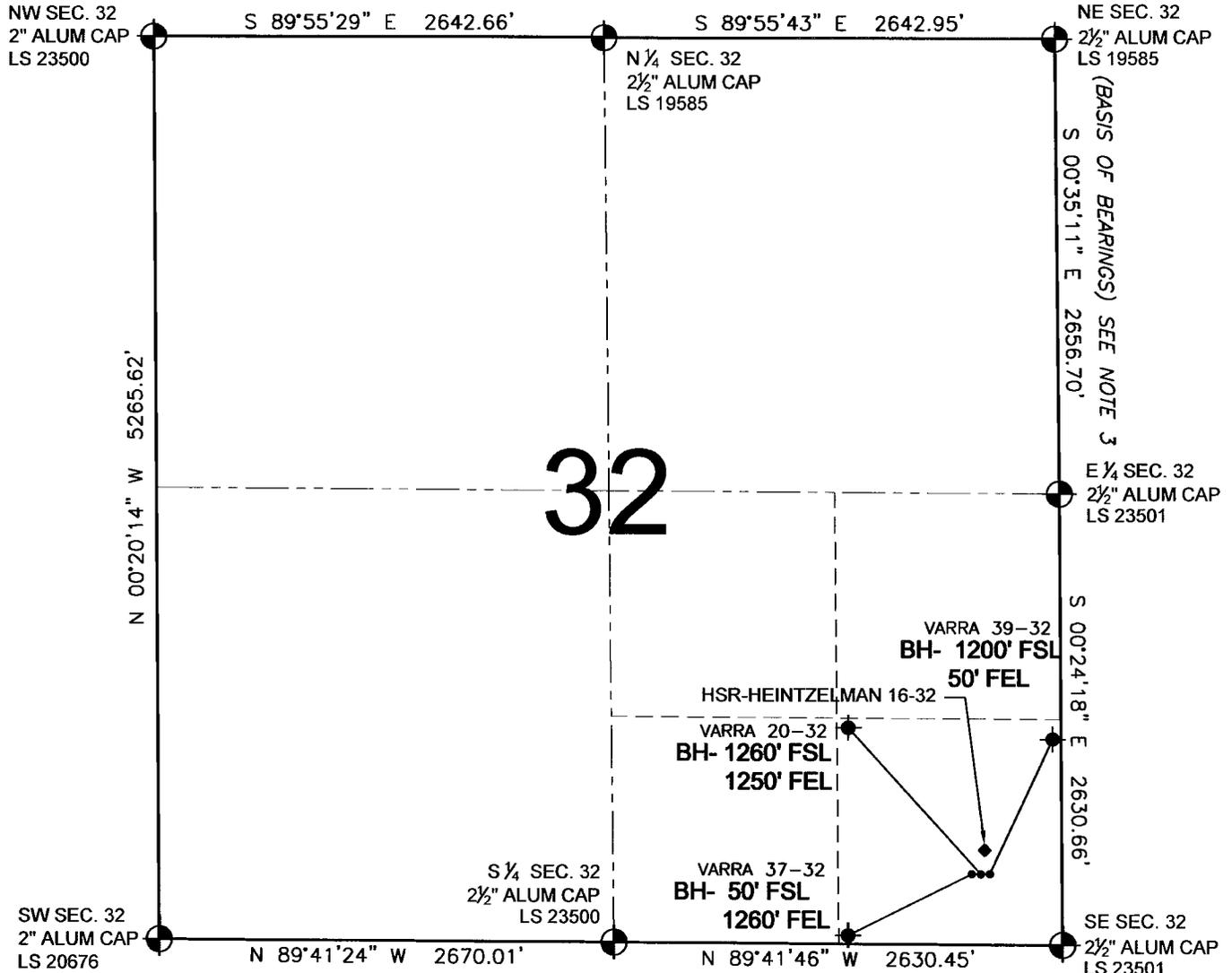


PAD DRAWING - VARRA 3 PAD

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



NOTES:

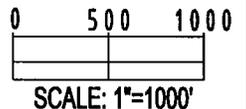
1. THIS SURVEY WAS DONE BY GPS METHODS AND CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215 (PDOP VALUE IS LESS THAN 6.0, LATITUDE AND LONGITUDE ARE ACCURATE TO 5 DECIMAL PLACES, AND GPS OBSERVATIONS ARE DIFFERENTIAL AND DONE BY QUALIFIED PERSONNEL.)
2. ELEVATIONS SHOWN AT THE WELL 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
- ⊙ = PROPOSED WELL
- ⬤ = BOTTOM HOLE
- ⬥ = EXISTING WELL
- BH= BOTTOM HOLE

NOTES:

- VARRA 20-32 TO BE AT 411' FSL & 477' FEL.
- BOTTOM HOLE AT 1260' FSL & 1250' FEL.
- VARRA 37-32 TO BE AT 411' FSL & 493' FEL.
- BOTTOM HOLE AT 50' FSL & 1260' FEL.
- VARRA 39-32 TO BE AT 411' FSL & 461' FEL.
- BOTTOM HOLE AT 1200' FSL & 50' FEL.
- HSR-HEINTZELMAN 16-32 IS AT 456' FSL & 464' FEL.



REVISIONS	
INITIAL	DATE
SMF	07-23-09

PREPARED BY:

KERR-MCGEE OIL & GAS ONSHORE LP	
FIELD DATE: 03-31-08	PAD NAME: VARRA 3 PAD
DRAWING DATE: 04-01-08	SURFACE LOCATION: WELD COUNTY, COLORADO SE 1/4 SE 1/4, SEC. 32, T3N, R67W
BY: SMF	