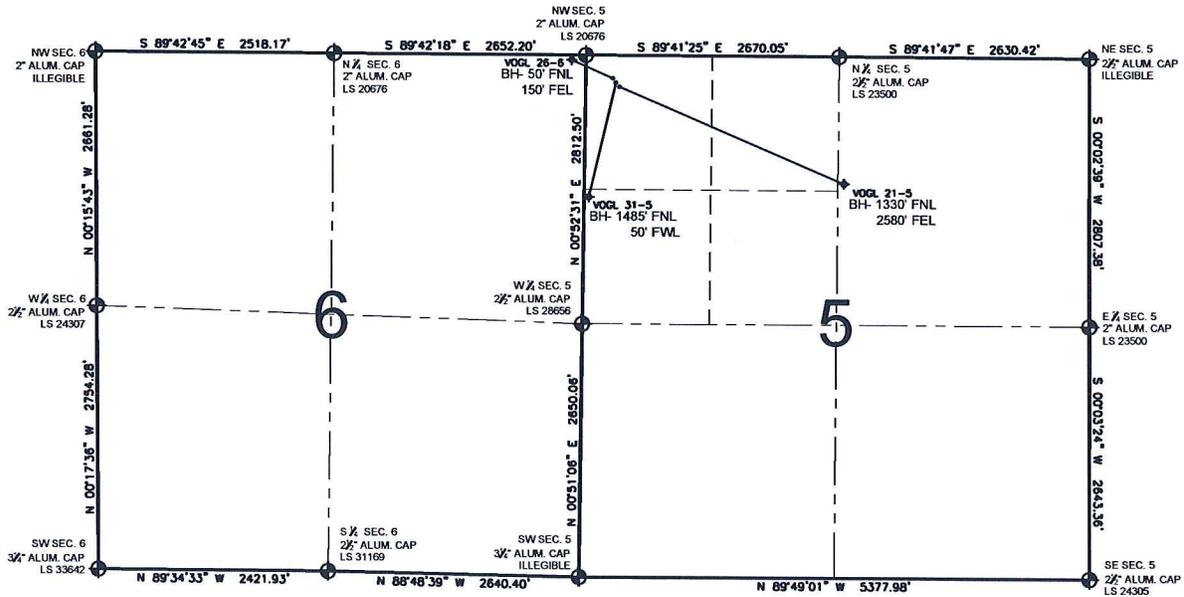


PAD DRAWING - VOGL 3 PAD

SECTION 5, TOWNSHIP 2 NORTH, RANGE 67 WEST, 6TH P.M.



NOTES:

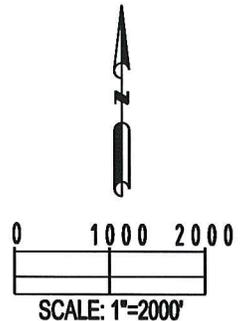
1. THIS SURVEY WAS DONE BY GPS METHODS AND CONFORMS TO THE MINIMUM STANDARDS SET BY THE C.O.G.C.C., RULE NO. 215
2. ELEVATIONS SHOWN AT THE WELL HEAD, AS WELL AS HORIZONTAL CONTROL, ARE BASED ON GPS-RTK VALUES DERIVED FROM DOING 2-HOUR STATIC GPS SESSIONS AND REDUCTIONS USING O.P.U.S. SOLUTIONS.
VERTICAL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

- VOGL 26-6 TO BE AT 302' FNL, 340' FWL.
BOTTOM HOLE AT 50' FNL & 150' FEL.
- VOGL 31-5 TO BE AT 315' FNL, 349' FWL.
BOTTOM HOLE AT 1485' FNL & 50' FWL.
- VOGL 21-5 TO BE AT 329' FNL, 358' FWL.
BOTTOM HOLE AT 1330' FNL & 2580' FEL.



| REVISIONS | | PREPARED BY: |
|-----------|----------|--|
| INITIAL | DATE | PFS Petroleum Field Services, LLC 1801 W. 13th Ave. Denver, CO 80204 |
| SMF | 08-25-09 | |
| SMF | 11-12-09 | |
| | | |
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KERR-MCGEE OIL & GAS ONSHORE LP

| | |
|---------------------------|---|
| FIELD DATE: 08-10-09 | PAD NAME: VOGL 3 PAD |
| DRAWING DATE: 08-12-09 | SURFACE LOCATION: |
| BY: SMF | WELD COUNTY, COLORADO NW 1/4 NW 1/4, SEC. 5, T2N, R67W |