T.H.E. DIRECTIONAL DRILLING COMPANY
DIST. CARSON
LEASE WILMINGTON
RADIUS OF CURVATURE

6/22/83

XTRA ENERGY CORP.
WELL# 53
ELEV.. 62' K.B.
SURVEY BY EASTMAN
TYPE SINGLE SHOT LAMB. COORD. N 4 039 640 E 4 205 408
MAG. DEC. 14 DEGREES WELL COURSE - S 47 50' E

| MEASURED DEPTH | DRIFT ANGLE | DRIFT DIRECTION | VERTICAL DEPTH | SECTION | LATITUDE FEET | DEPARTURE FEET | DOG LEG/100 |
|---|---|---|---|---|---|---|---|
| 2791 | 19 30 | S 55 00 E | 2695.62 | 583.28 | 389.67 S | 434.03 E | .61 |
| 2919 | 19 15 | S 54 00 E | 2816.37 | 625.46 | 414.33 S | 468.60 E | .32 |
| 3073 | 19 30 | S 54 00 E | 2961.65 | 676.25 | 444.36 S | 509.93 E | .16 |
| 3224 | 19 30 | S 54 30 E | 3103.99 | 726.34 | 473.81 S | 550.84 E | .11 |
| 3381 | 19 45 | S 55 00 E | 3251.87 | 778.69 | 504.24 S | 593.90 E | .19 |
| 3535 | 20 00 | S 55 30 E | 3396.69 | 830.60 | 534.08 S | 636.92 E | .20 |
| Projected 3560 | 20 00 | S 55 30 E | 3420.19 | 839.08 | 538.92 S | 643.97 E | .01 |

THE DOGLEG SEVERITY IS IN DEGREES PER ONE HUNDRED FEET.
THE VERTICAL SECTION WAS COMPUTED ALONG S 47 50' E
BASED UPON RADIUS OF CURVATURE TYPE CALCULATIONS.

THE BOTTOM HOLE DISPLACEMENT IS 839.72 FEET IN THE DIRECTION OF S 50 05' E.
BOTTOM HOLE DISPLACEMENT IS RELATIVE TO WELL HEAD.
VERTICAL SECTION IS RELATIVE TO WELL HEAD.