T.H.E. DIRECTIONAL DRILLING COMPANY

XTRA ENERGY CORP.
WELL# 36
ELEV. 58' K.B.
SURVEY BY EASTMAN

DIST. CARSON
LEASE WILMINGTON
RADIUS OF CURVATURE

11/11/82

TYPE SINGLE SHOT LAMB. COORD. N 4 041 504 E 4 205 567
MAG. DEC. 14 DEGREES WELL COURSE - N 81 26' E

	MEASURED DEPTH	DRIFT ANGLE	DRIFT DIRECTION	VERTICAL DEPTH	SECTION	LATITUDE FEET	DEPARTURE FEET	DOG LEG/100
	2695	41 00	N 82 30 E	2403.15	952.15	113.18 N	945.85 E	.58
	2817	41 15	N 81 30 E	2495.05	1032.39	124.35 N	1025.31 E	.58
	2939	41 00	N 81 00 E	2586.95	1112.64	136.56 N	1104.62 E	.34
	3030	39 45	N 80 30 E	2656.27	1171.58	146.04 N	1162.80 E	1.42
	3161	38 00	N 80 00 E	2758.26	1253.78	159.96 N	1243.83 E	1.36
	3191	37 15	N 80 30 E	2782.02	1272.09	163.06 N	1261.88 E	2.70
	3303	36 00	N 80 30 E	2871.90	1338.90	174.09 N	1327.78 E	1.12
	3426	33 30	N 79 00 E	2972.96	1408.97	186.56 N	1396.76 E	2.15
	3547	32 00	N 79 00 E	3074.72	1474.36	199.05 N	1461.01 E	1.24
	3670	31 15	N 78 00 E	3179.45	1538.77	211.91 N	1524.21 E	.74
	3793	29 30	N 76 00 E	3285.56	1600.78	225.90 N	1584.81 E	1.64
	3948	27 30	N 74 00 E	3421.77	1674.26	245.04 N	1656.24 E	1.43
	4070	25 45	N 73 00 E	3530.83	1728.41	260.57 N	1708.66 E	1.48
	4198	23 30	N 73 30 E	3647.18	1781.20	275.94 N	1759.73 E	1.77
Projected	4237	23 30	N 73 30 E	3682.95	1796.60	280.36 N	1774.64 E	.07

THE DOGLEG SEVERITY IS IN DEGREES PER ONE HUNDRED FEET.
THE VERTICAL SECTION WAS COMPUTED ALONG N 81 26' E
BASED UPON RADIUS OF CURVATURE TYPE CALCULATIONS.

THE BOTTOM HOLE DISPLACEMENT IS 1796.65 FEET IN THE DIRECTION OF N 81 01' E.
BOTTOM HOLE DISPLACEMENT IS RELATIVE TO WELL HEAD.
VERTICAL SECTION IS RELATIVE TO WELL HEAD.