T.H.E. DIRECTIONAL DRILLING COMPANY

XTRA ENERGY CORP.
#29 SIDETRACK
4/82

CARSON
ELEVATION: 50' K.B.
RADIUS OF CURVATURE
SURVEY BY: SPERRY-SUN
TYPE: SINGLE SHOT
MAG. DEC. 14°
WELL COURSE: N 30°17'W

LAMBERT COORD.
N 4 041 448
E 4 204 632

MEASURED DEPTH	DRIFT ANGLE	DRIFT DIRECTION	VERTICAL DEPTH	SECTION	LATITUDE FEET	DEPARTURE FEET	DOG LEG/100
3147	34 15	N 36 00 W	2926.26	874.50	765.30 N	423.15 W	0.00
3175	34 00	N 33 00 W	2949.44	889.92	778.24 N	432.05 W	6.08
3205	33 00	N 31 00 W	2974.46	906.46	792.28 N	440.82 W	4.97
3236	32 00	N 28 00 W	3000.60	923.12	806.78 N	449.02 W	6.12
3267	32 15	N 26 30 W	3026.85	939.58	821.43 N	456.57 W	2.70
3372	31 30	N 26 30 W	3116.02	994.90	871.05 N	481.31 W	.71
3434	30 45	N 26 00 W	3169.09	1026.87	899.79 N	495.48 W	1.28
3526	29 30	N 25 00 W	3248.67	1072.88	941.46 N	515.36 W	1.46
3617	27 45	N 24 30 W	3328.54	1116.27	981.05 N	533.61 W	1.94
3710	26 45	N 24 30 W	3411.22	1158.64	1019.80 N	551.27 W	1.08
3804	27 15	N 24 00 W	3494.97	1201.08	1058.71 N	568.80 W	.58
3847	27 15	N 24 00 W	3533.20	1220.65	1076.70 N	576.81 W	.06

THE DOGLEG SEVERITY IS IN DEGREES PER ONE HUNDRED FEET.
THE VERTICAL SECTION WAS COMPUTED ALONG N 30 17' W
BASED UPON RADIUS OF CURVATURE TYPE CALCULATIONS.

THE BOTTOM HOLE DISPLACEMENT IS 1221.47 FEET IN THE DIRECTION OF N 28 11' W.
BOTTOM HOLE DISPLACEMENT IS RELATIVE TO WELL HEAD.
VERTICAL SECTION IS RELATIVE TO WELL HEAD.