T.H.E. DIRECTIONAL DRILLING COMPANY

XTRA ENERGY CORP.
WELL# 33
ELEV. 58' K.B.
SURVEY BY EASTMAN

DIST. CARSON
LEASE WILMINGTON
RADIUS OF CURVATURE

12/10/82

TYPE SINGLE SHOT LAMB. COORD. N 4 041 480 E 4 205 567
MAG. DEC. 14 DEGREES WELL COURSE - S 70 32' E

MEASURED DEPTH	DRIFT ANGLE	DRIFT DIRECTION	VERTICAL DEPTH	SECTION	LATITUDE FEET	DEPARTURE FEET	DOG LEG/100
2112	38 30	S 64 30 E	1955.91	572.12	228.11 S	526.18 E	.48
2135	38 30	S 65 00 E	1973.91	586.37	234.22 S	539.13 E	1.35
2166	38 00	S 67 30 E	1998.25	605.51	241.95 S	556.70 E	5.25
2196	38 00	S 69 30 E	2021.89	623.97	248.72 S	573.88 E	4.10
2318	37 30	S 74 00 E	2118.35	698.62	272.10 S	644.80 E	2.29
2441	37 15	S 74 00 E	2216.10	773.15	292.68 S	716.57 E	.20
2563	37 00	S 74 00 E	2313.37	846.65	312.98 S	787.35 E	.21
2718	37 00	S 74 00 E	2437.16	939.76	338.69 S	877.02 E	.02
2874	36 15	S 74 00 E	2562.36	1032.65	364.34 S	966.48 E	.48
3028	36 00	S 74 30 E	2686.75	1123.25	388.98 S	1053.86 E	.25
3119	35 45	S 74 30 E	2760.49	1176.45	403.23 S	1105.25 E	.27
3211	35 45	S 74 30 E	2835.15	1230.07	417.59 S	1157.05 E	0.00
3367	36 30	S 75 00 E	2961.16	1321.79	441.78 S	1245.78 E	.52
3518	37 45	S 75 00 E	3081.55	1412.65	465.37 S	1333.81 E	.83
3664	39 30	S 75 30 E	3195.61	1503.47	488.57 S	1421.94 E	1.22
3808	37 30	S 75 30 E	3308.30	1592.77	511.01 S	1508.72 E	1.39
3939	36 15	S 76 00 E	3413.09	1671.05	530.36 S	1584.91 E	.98
4094	34 15	S 76 30 E	3539.66	1760.06	551.62 S	1671.80 E	1.30
4122	34 15	S 76 30 E	3562.81	1775.73	555.30 S	1687.12 E	.01
4155	34 15	S 76 30 E	3590.09	1794.21	559.64 S	1705.18 E	0.00
Projected 4169	34 15	S 76 30 E	3601.66	1802.04	561.48 S	1712.84 E	.01