E & B Natural Resources Management Corp.

E. DIRECTIONAL DRILLING COMPANY

DIST. CARSON

WELL# ~~51~~ "WNF-I" 51 LEASE WILMINGTON 7/5/83

ELEV. 62' K.B. (037-22885) RADIUS OF CURVATURE

SURVEY BY EASTMAN 29-4S-13W

TYPE SINGLE SHOT LAMB. COORD. N 4 039 630 E 4 205 421

MAG. DEC. 14 DEGREES WELL COURSE - S 65 47' E

MEASURED DEPTH	DRIFT ANGLE	DRIFT DIRECTION	VERTICAL DEPTH	SECTION	LATITUDE FEET	DEPARTURE FEET	DOG LEG/100
0	0 00	S 0 00 E	0.00	0.00	0.00 S	0.00 E	0.00
141	0 00	S 0 00 E	141.00	0.00	0.00 S	0.00 E	0.00
236	15	S 6 00 E	236.00	.10	.21 S	.02 E	.26
327	15	N 21 00 W	327.00	-.12	.27 S	.25 W	.54
418	15	N 79 00 E	418.00	-.09	.03 N	.08 W	.42
509	30	S 14 00 W	509.00	.37	.33 S	.26 E	.71
601	15	N 9 00 E	600.99	-.02	.25 S	.13 W	.81
750	15	S 41 00 E	749.99	.38	.11 S	.37 E	.30
819	2 45	S 67 00 E	818.96	2.14	1.16 S	1.82 E	3.66
910	6 15	S 60 00 E	909.67	9.26	4.34 S	8.20 E	3.89
1001	10 00	S 61 00 E	999.74	22.06	10.67 S	19.39 E	4.12
1092	13 30	S 61 00 E	1088.82	40.53	19.65 S	35.60 E	3.85
1187	17 00	S 63 00 E	1180.46	65.46	31.38 S	57.66 E	3.73
1281	20 30	S 62 00 E	1269.46	95.62	45.33 S	84.46 E	3.74
1373	23 45	S 67 00 E	1354.67	130.25	60.24 S	115.72 E	4.08
1437	25 45	S 68 00 E	1412.79	157.02	70.49 S	140.47 E	3.19
1468	26 45	S 66 30 E	1440.59	170.72	75.79 S	153.11 E	3.87
1561	29 00	S 64 30 E	1522.80	214.20	93.82 S	192.67 E	2.62
1653	32 15	S 65 00 E	1601.95	261.05	113.81 S	235.05 E	3.54
1778	36 30	S 66 00 E	1705.10	331.61	143.07 S	299.26 E	3.43
1902	41 00	S 65 30 E	1801.78	409.21	174.94 S	370.01 E	3.64
2025	45 15	S 66 00 E	1891.53	493.27	209.47 S	446.65 E	3.47
2150	49 30	S 66 30 E	1976.16	585.22	246.50 S	530.82 E	3.41
2272	53 30	S 66 30 E	2052.09	680.67	284.56 S	618.36 E	3.28
2393	57 15	S 67 00 E	2120.83	780.21	323.86 S	709.83 E	3.12
2493	58 30	S 67 00 E	2174.01	864.88	356.95 S	787.79 E	1.25
2616	58 00	S 67 00 E	2238.73	969.45	397.82 S	884.07 E	.41