E & B Natural Resources Management Corp. .H.E. DIRECTIONAL DRILLING COMPANY

DIST. CARSON

"WNF-I" ~~WELL#~~ 29 037-22648 LEASE-WILMINGTON

4/82

ELEV. 50' K.B. RADIUS OF CURVATURE

SURVEY BY SPERRY-SUN

TYPE SINGLE SHOT LAMB. COORD. N4041448 E4204632

MAG. DEC. 14 DEGREES WELL COURSE - N 30 17' W

MEASURED DEPTH	DRIFT ANGLE	DRIFT DIRECTION	VERTICAL DEPTH	SECTION	LATITUDE FEET	DEPARTURE FEET	DOG LEG/100
0	0 00	N 0 00 W	0.00	0.00	0.00 N	0.00 W	0.00
164	45	N 73 00 W	164.00	.79	.31 N	1.03 W	.46
266	30	N 46 00 W	265.99	1.75	.87 N	1.98 W	.37
357	15	S 44 00 E	356.99	1.65	.60 N	2.25 W	.82
449	15	S 35 00 W	448.99	1.32	.23 N	2.22 W	.35
538	45	S 88 00 W	537.98	1.34	.13 S	2.88 W	.71
603	15	N 86 00 W	602.98	1.64	.12 S	3.45 W	.77
816	15	S 80 00 W	815.98	2.06	.17 S	4.38 W	.03
908	45	N 42 00 W	907.97	2.65	.08 N	5.11 W	.71
978	45	N 6 00 E	977.97	3.52	.93 N	5.38 W	.87
1010	1 45	N 1 00 W	1009.96	4.11	1.63 N	5.35 W	3.16
1069	3 45	N 21 00 W	1068.89	6.76	4.39 N	5.89 W	3.71
1099	4 30	N 13 00 W	1098.81	8.86	6.45 N	6.52 W	3.15
1161	6 30	N 25 00 W	1160.52	14.68	12.06 N	8.45 W	3.70
1193	7 15	N 24 00 W	1192.29	18.49	15.55 N	10.04 W	2.37
1255	9 15	N 23 00 W	1253.65	27.33	23.71 N	13.59 W	3.23
1316	11 00	N 17 00 W	1313.70	37.87	33.78 N	17.26 W	3.35
1376	13 00	N 21 00 W	1372.38	50.10	45.57 N	21.32 W	3.61
1438	15 15	N 25 00 W	1432.50	65.10	59.49 N	27.23 W	3.95
1499	17 15	N 20 00 W	1491.06	82.01	75.25 N	33.76 W	4.00
1559	19 15	N 18 00 W	1548.04	100.43	93.01 N	39.88 W	3.49
1590	20 30	N 20 00 W	1577.19	110.76	102.97 N	43.31 W	4.59
1621	20 30	N 23 00 W	1606.23	121.49	113.07 N	47.29 W	3.39
1652	21 00	N 26 00 W	1635.22	132.41	123.06 N	51.84 W	3.79
1682	21 45	N 27 00 W	1663.16	143.33	132.85 N	56.72 W	2.78
1712	22 45	N 30 30 W	1690.92	154.68	142.81 N	62.18 W	5.53
1744	23 45	N 29 00 W	1720.32	167.31	153.78 N	68.45 W	3.63