[redacted]

E & B Natural Resources Management Corp.

E. DIRECTIONAL DRILLING COMPANY
DIST. CARSON
LEASE WILMINGTON
RADIUS OF CURVATURE

1/5/83

"WNF-I" ~~WELL#~~ 37 037-22796
ELEV. 58' K.B.
SURVEY BY EASTMAN
TYPE SINGLE SHOT LAMB. COORD. N 4 041 512 E 4 205 567
MAG. DEC. 14 DEGREES WELL COURSE - N 77 04' E

MEASURED DEPTH	DRIFT ANGLE	DRIFT DIRECTION	VERTICAL DEPTH	SECTION	LATITUDE FEET	DEPARTURE FEET	DOG LEG/100
0	0 00	N 0 00 E	0.00	0.00	0.00 N	0.00 E	0.00
168	45	S 39 00 W	168.00	-.86	.85 S	.69 W	.45
268	45	N 56 00 W	267.99	-2.05	1.03 S	1.87 W	1.01
359	1 15	N 89 00 E	358.97	-1.46	.12 N	1.53 W	2.10
419	4 00	N 59 00 E	418.90	1.25	.87 N	1.08 E	4.97
481	7 30	N 68 00 E	480.58	7.28	3.64 N	6.63 E	5.81
541	11 00	N 80 00 E	539.79	16.88	6.29 N	15.88 E	6.63
571	12 45	N 84 00 E	569.15	23.03	7.15 N	21.99 E	6.44
632	15 45	N 78 00 E	628.27	38.00	9.50 N	36.81 E	5.48
693	18 00	N 78 00 E	686.64	55.71	13.18 N	54.13 E	3.69
754	20 30	N 75 30 E	744.22	75.81	17.79 N	73.70 E	4.31
816	22 45	N 75 00 E	801.85	98.64	23.61 N	95.79 E	3.64
878	24 45	N 78 30 E	858.60	123.61	29.33 N	120.09 E	3.95
999	24 45	N 79 00 E	968.48	174.24	39.21 N	169.77 E	.17
1091	26 45	N 78 30 E	1051.34	214.19	47.01 N	208.97 E	2.19
1182	29 00	N 79 00 E	1131.78	256.72	55.31 N	250.70 E	2.49
1274	31 15	N 78 30 E	1211.35	302.87	64.32 N	295.98 E	2.46
1335	34 15	N 78 30 E	1262.65	335.85	70.90 N	328.31 E	4.92
1395	37 15	N 77 00 E	1311.34	370.90	78.34 N	362.56 E	5.21
1459	40 30	N 77 30 E	1361.15	411.06	87.20 N	401.73 E	5.10
1521	43 30	N 75 00 E	1407.22	452.53	97.06 N	442.02 E	5.54
1583	46 00	N 74 30 E	1451.25	496.14	108.54 N	484.13 E	4.07
1736	50 00	N 78 00 E	1553.61	609.79	135.56 N	594.53 E	3.12
1827	53 00	N 78 00 E	1610.25	680.99	150.37 N	664.18 E	3.30
1886	55 15	N 77 30 E	1644.82	728.79	160.51 N	710.90 E	3.88
1988	56 15	N 77 30 E	1702.23	813.10	178.76 N	793.21 E	.98
2110	57 30	N 78 00 E	1768.90	915.26	200.44 N	893.05 E	1.08

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DIVISION OF OIL AND GAS
LONG BEACH, CA.