E & B Natural Resources Management Corp. NAL DRILLING COMPANY

PAGE 1

DIST. CARSON

4/25/83

WELL# ~~18~~ "WWF-I" 18 LEASE WILMINGTON

ELEV. 60' K.B. (037-22853) RADIUS OF CURVATURE

SURVEY BY EASTMAN 19-45-13W

TYPE SINGLE SHOT LAMB. COORD. N 4 041 448 E 4 204 720

MAG. DEC. 14 DEGREES WELL COURSE - N 29 47' 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
142	15	S 86 00 E	142.00	.14	.02 S	.31 E	.18
234	15	S 76 00 E	234.00	.28	.08 S	.71 E	.05
327	15	S 24 00 W	327.00	.08	.40 S	.87 E	.41
380	45	S 74 00 W	380.00	-.34	.69 S	.53 E	1.17
405	1 30	N 44 00 E	404.99	-.16	.38 S	.34 E	8.73
460	4 30	N 41 00 E	459.91	2.64	1.74 N	2.28 E	5.46
511	7 30	N 35 00 E	510.62	7.92	5.94 N	5.56 E	6.00
572	11 15	N 32 30 E	570.80	17.83	14.20 N	11.08 E	6.18
666	16 00	N 38 00 E	662.13	39.85	32.27 N	23.85 E	5.23
726	19 00	N 36 00 E	719.34	57.75	46.68 N	34.71 E	5.10
789	22 00	N 30 00 E	778.35	79.77	65.17 N	46.72 E	5.81
850	25 00	N 32 30 E	834.28	104.08	85.96 N	59.34 E	5.18
912	28 30	N 30 00 E	889.64	131.97	109.81 N	73.81 E	5.93
973	31 45	N 28 00 E	942.39	162.57	136.58 N	88.65 E	5.58
1068	34 15	N 27 30 E	1022.06	214.28	182.37 N	112.74 E	2.65
1160	36 30	N 26 00 E	1097.07	267.47	229.93 N	136.71 E	2.62
1283	39 45	N 25 00 E	1193.82	343.18	298.46 N	169.40 E	2.69
1407	43 30	N 24 00 E	1286.49	425.19	373.40 N	203.55 E	3.07
1467	44 00	N 25 00 E	1329.83	466.50	411.15 N	220.76 E	1.42
1566	44 15	N 25 30 E	1400.90	535.21	473.49 N	250.16 E	.43
1685	44 00	N 25 30 E	1486.32	617.83	548.27 N	285.83 E	.21
1807	42 15	N 27 00 E	1575.36	701.06	623.06 N	322.71 E	1.66
1930	40 00	N 28 00 E	1668.00	781.88	694.81 N	360.06 E	1.91
2022	39 15	N 26 30 E	1738.87	840.50	746.97 N	386.92 E	1.32
2048	41 00	N 28 30 E	1758.75	857.24	761.83 N	394.66 E	8.36
2079	42 00	N 29 00 E	1781.96	877.78	779.84 N	404.54 E	3.40

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LONG BEACH, CA.