

SANTA FE ENERGY OPERATING PARTNERS, L.P.
P. G. "4" FEDERAL NO. 1
SEC 4-9, T23S, R31E, EDDY COUNTY, NEW MEXICO

PROPOSED DIRECTIONAL WELL PLAN
RADIUS OF CURVATURE METHOD

MEASURED	COURSE	INCL	DRIFT	TRUE	VERTICAL	DOGLEG
DEPTH	LENGTH	ANGLE	DIRECTION	VERTICAL	SECTION	SEVERITY
(FT)	(FT)	(DEG)	(DEG)	DEPTH	(FT)	(DEG/100')

6030.14	0.00	0.00	N 0.00 E	6030.14	0.00	0.00
6130.14	100.00	1.50	N 0.00 E	6130.13	1.31	1.50
6230.14	100.00	3.00	N 0.00 E	6230.05	5.23	1.50
6330.14	100.00	4.50	N 0.00 E	6329.83	11.77	1.50
6430.14	100.00	6.00	N 0.00 E	6429.41	20.92	1.50
6530.14	100.00	7.50	N 0.00 E	6528.71	32.68	1.50
6630.14	100.00	9.00	N 0.00 E	6627.68	47.03	1.50
6730.14	100.00	10.50	N 0.00 E	6726.23	63.96	1.50
6830.14	100.00	12.00	N 0.00 E	6824.30	83.47	1.50
6930.14	100.00	13.50	N 0.00 E	6921.84	105.54	1.50
7030.14	100.00	15.00	N 0.00 E	7018.76	130.15	1.50
7130.14	100.00	16.50	N 0.00 E	7115.00	157.30	1.50
7230.14	100.00	18.00	N 0.00 E	7210.50	186.95	1.50
7330.14	100.00	19.50	N 0.00 E	7305.19	219.09	1.50
7363.47	33.33	20.00	N 0.00 E	7336.56	230.36	1.50
10240.81	2877.34	20.00	N 0.00 E	10040.28	1214.47	0.00
10340.81	100.00	19.00	N 0.00 E	10134.94	1247.95	1.00
10440.81	100.00	18.00	N 0.00 E	10229.47	1279.58	1.00
10540.81	100.00	17.00	N 0.00 E	10324.84	1309.65	1.00
10640.81	100.00	16.00	N 0.00 E	10420.72	1338.05	1.00
10740.81	100.00	15.00	N 0.00 E	10517.08	1364.77	1.00
10840.81	100.00	14.00	N 0.00 E	10613.90	1389.81	1.00
10940.81	100.00	13.00	N 0.00 E	10711.13	1413.15	1.00
11040.81	100.00	12.00	N 0.00 E	10808.76	1434.90	1.00
11140.81	100.00	11.00	N 0.00 E	10906.75	1454.73	1.00
11240.81	100.00	10.00	N 0.00 E	11005.08	1472.96	1.00
11340.81	100.00	9.00	N 0.00 E	11103.70	1489.46	1.00
11440.81	100.00	8.00	N 0.00 E	11202.60	1504.24	1.00
11540.81	100.00	7.00	N 0.00 E	11301.75	1517.29	1.00
11640.81	100.00	6.00	N 0.00 E	11401.10	1528.61	1.00
11740.81	100.00	5.00	N 0.00 E	11500.64	1538.20	1.00
11840.81	100.00	4.00	N 0.00 E	11600.33	1546.04	1.00
11940.81	100.00	3.00	N 0.00 E	11700.14	1552.15	1.00
12040.81	100.00	2.00	N 0.00 E	11800.05	1556.51	1.00
12140.81	100.00	1.00	N 0.00 E	11900.01	1559.13	1.00
12240.81	100.00	0.01	N 0.00 E	12000.00	1560.00	0.99
15240.81	3000.00	0.01	N 0.00 E	15000.00	1560.24	0.00

1.00	BEFORE EXAMINER CATANACH
1.00	OIL CONSERVATION DIVISION
1.00	<i>Santa Fe</i> EXHIBIT NO. <u>5</u>
1.00	CASE NO. <u>10098</u>
1.00	