

PHOENIX MULTI-SHOT
P.O. BOX 4357
CORPUS CHRISTI, TEXAS 78469

(512) 883-7263
(800) 880-SHOT

BURLINGTON RESOURCES
PITCHFORK 4 "F", WELL #2
LEA COUNTY, NEW MEXICO
RIG: JSI MAST UNIT
JOB NUMBER: 777050 05/27/97 T.JALLAD
DECLINATION: 8.8 DEGREES EAST (TRUE)

Minimum Curvature Calculations

MEASURED Depth Feet	B O R E - H O L E		TRUE Vertical Depth Feet	R E C T A N G U L A R		VERTICAL SECTION Feet	C L O S U R E S		DLS Deg/100'
	Incl. D M	Direction D M		North/South Feet	East/West Feet		Distance Feet	Direction D M	
0.00	0 0	N 0 0 E	0.00	0.00	0.00	0.00	0.00	N 0 0E	0.00
200.00	0 31	S 39 45 E	200.00	.70 S	.58 E	-.70	.91	S39 43E	.26
400.00	0 27	S 2 59 W	399.99	2.20 S	1.12 E	-2.20	2.47	S26 59E	.18
600.00	0 30	S 75 3 E	599.98	3.23 S	1.94 E	-3.23	3.76	S30 58E	.31
800.00	1 47	S 26 58 E	799.94	6.23 S	4.21 E	-6.23	7.51	S34 2E	.74
1000.00	1 36	S 23 2 E	999.86	11.56 S	6.71 E	-11.56	13.37	S30 7E	.11
1200.00	1 10	S 29 42 E	1199.80	15.91 S	8.81 E	-15.91	18.19	S28 59E	.23
1400.00	1 22	S 28 45 E	1399.75	19.78 S	10.97 E	-19.78	22.62	S29 1E	.10
1600.00	1 5	S 29 18 E	1599.70	23.53 S	13.06 E	-23.53	26.91	S29 1E	.14
1800.00	0 11	S 53 59 E	1799.69	25.38 S	14.24 E	-25.38	29.10	S29 18E	.47
2000.00	0 49	S 39 14 E	1999.68	26.67 S	15.40 E	-26.67	30.80	S30 0E	.32
2200.00	0 39	S 25 32 E	2199.66	28.82 S	16.80 E	-28.82	33.36	S30 14E	.12
2400.00	0 4	N 12 54 E	2399.66	29.74 S	17.33 E	-29.74	34.42	S30 13E	.36
2600.00	0 29	S 81 57 E	2599.66	29.74 S	18.18 E	-29.74	34.85	S31 26E	.24
2800.00	1 1	N 41 47 E	2799.64	28.53 S	20.20 E	-28.53	34.95	S35 18E	.43

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MEASURED Depth Feet	B O R E - H O L E Incl. Direction D M D M	TRUE Vertical Depth Feet	R E C T A N G U L A R C O O R D I N A T E S North/South East/West Feet Feet	VERTICAL SECTION Feet	C L O S U R E S Distance Direction Feet D M	DLS Deg/100''	
3000.00	2 3 N 51 59 E	2999.57	24.98 S	24.22 E	-24.98	34.79 S44 6E	.54
3200.00	2 19 N 50 42 E	3199.42	20.21 S	30.18 E	-20.21	36.32 S56 12E	.13
3400.00	2 21 N 56 10 E	3399.25	15.36 S	36.72 E	-15.36	39.80 S67 18E	.11
3600.00	1 46 N 67 8 E	3599.13	11.88 S	42.97 E	-11.88	44.58 S74 33E	.35
3800.00	0 51 N 32 41 E	3799.07	9.41 S	46.63 E	-9.41	47.57 S78 35E	.58
4000.00	1 15 S 47 31 E	3999.05	9.64 S	49.06 E	-9.64	50.00 S78 53E	.82
4200.00	0 32 S 39 33 E	4199.03	11.83 S	51.27 E	-11.83	52.62 S77 0E	.37
4400.00	1 27 S 85 26 E	4399.00	12.75 S	54.40 E	-12.75	55.88 S76 48E	.58
4600.00	2 47 N 89 1 E	4598.85	12.87 S	61.81 E	-12.87	63.13 S78 14E	.67
4800.00	2 33 S 74 43 E	4798.64	13.96 S	70.97 E	-13.96	72.33 S78 52E	.40
5000.00	2 33 S 71 15 E	4998.44	16.56 S	79.47 E	-16.56	81.18 S78 13E	.08
5200.00	1 8 S 49 55 E	5198.34	19.27 S	85.21 E	-19.27	87.36 S77 15E	.77
5400.00	0 56 S 34 11 E	5398.30	21.90 S	87.64 E	-21.90	90.34 S75 58E	.18
5600.00	0 35 S 27 43 E	5598.29	24.14 S	89.02 E	-24.14	92.24 S74 50E	.18
5800.00	1 6 S 46 35 E	5798.26	26.36 S	90.90 E	-26.36	94.65 S73 49E	.30
6000.00	0 29 S 22 44 E	5998.24	28.48 S	92.64 E	-28.48	96.92 S72 54E	.34
6200.00	0 43 S 13 36 E	6198.23	30.49 S	93.27 E	-30.49	98.12 S71 53E	.12
6400.00	0 44 S 70 12 E	6398.22	32.15 S	94.76 E	-32.15	100.06 S71 15E	.34
6600.00	1 3 S 37 4 E	6598.20	34.04 S	97.06 E	-34.04	102.86 S70 40E	.30
6800.00	0 31 S 6 24 E	6798.18	36.40 S	98.27 E	-36.40	104.79 S69 40E	.33
7000.00	1 4 S 44 51 E	6998.16	38.63 S	99.69 E	-38.63	106.91 S68 49E	.37
7200.00	0 56 S 4 40 E	7198.13	41.59 S	101.14 E	-41.59	109.35 S67 39E	.35
7400.00	0 58 S 1 0 E	7398.10	44.92 S	101.30 E	-44.92	110.81 S66 5E	.03
7600.00	1 4 S 0 21 E	7598.07	48.48 S	101.34 E	-48.48	112.34 S64 26E	.05
7800.00	1 23 S 2 16 E	7798.02	52.77 S	101.45 E	-52.77	114.35 S62 31E	.16

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MEASURED Depth Feet	B O R E - Incl. D M	H O L E Direction D M	TRUE Vertical Depth Feet	R E C T A N G U L A R C O O R D I N A T E S North/South Feet	East/West Feet	VERTICAL SECTION Feet	C L O S U R E S Distance Feet	D I R E C T I O N D M	D I S Deg/100'
8000.00	1 23	S 2 16 E	7997.97	57.61 S	101.64 E	-57.61	116.84	S60 27E	0.00
8200.00	0 38	S 17 7 W	8197.93	61.11 S	101.41 E	-61.11	118.40	S58 55E	.41
8400.00	0 28	S 4 11 E	8397.92	62.99 S	101.14 E	-62.99	119.15	S58 5E	.13
8600.00	0 46	S 5 5 E	8597.91	65.15 S	101.32 E	-65.15	120.46	S57 15E	.15
8800.00	0 51	S 4 59 E	8797.89	67.98 S	101.57 E	-67.98	122.22	S56 12E	0.05
9000.00	1 5	S 5 7 E	8997.86	71.37 S	101.87 E	-71.37	124.38	S54 59E	.12
9200.00	0 45	S 41 24 E	9197.84	74.26 S	102.92 E	-74.26	126.91	S54 11E	.33
9400.00	1 23	S 19 34 E	9397.80	77.54 S	104.61 E	-77.54	130.21	S53 27E	.37
9600.00	1 18	S 30 15 E	9597.75	81.80 S	106.57 E	-81.80	134.35	S52 29E	.13
9800.00	0 56	S 11 52 E	9797.71	85.38 S	108.06 E	-85.38	137.72	S51 41E	.26
10000.00	0 36	S 26 8 E	9997.69	87.94 S	108.87 E	-87.94	139.95	S51 4E	.19
10200.00	0 14	S 28 41 E	10197.68	89.25 S	109.53 E	-89.25	141.29	S50 49E	.19
10400.00	0 5	S 83 36 W	10397.68	89.62 S	109.57 E	-89.62	141.55	S50 43E	.14
10600.00	0 45	S 39 52 W	10597.68	90.66 S	108.56 E	-90.66	141.43	S50 8E	.35
10800.00	0 43	S 84 46 W	10797.66	91.79 S	106.46 E	-91.79	140.57	S49 14E	.28
11000.00	0 57	N 86 46 W	10997.64	91.81 S	103.53 E	-91.81	138.38	S48 26E	.14
11200.00	1 17	S 78 49 W	11197.60	92.15 S	99.67 E	-92.15	135.74	S47 14E	.21
11400.00	1 42	S 79 36 W	11397.53	93.12 S	94.56 E	-93.12	132.71	S45 26E	.21
11600.00	1 32	S 58 48 W	11597.46	95.04 S	89.36 E	-95.04	130.45	S43 14E	.30
11800.00	1 35	S 73 53 W	11797.38	97.19 S	84.41 E	-97.19	128.73	S40 58E	.21
12000.00	1 51	S 39 58 W	11997.30	100.45 S	79.66 E	-100.45	128.20	S38 25E	.52
12200.00	1 9	S 22 38 W	12197.23	104.79 S	76.80 E	-104.79	129.92	S36 14E	.42
12400.00	1 45	S 28 14 W	12397.16	109.34 S	74.57 E	-109.34	132.35	S34 17E	.31
12600.00	0 38	S 28 3 W	12597.12	113.02 S	72.60 E	-113.02	134.33	S32 43E	.56
12800.00	0 18	S 39 27 W	12797.11	114.39 S	71.75 E	-114.39	135.04	S32 6E	.17

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MEASURED Depth Feet	B O R E - H O L E Incl. D M	Direction D M	TRUE Vertical Depth Feet	R E C T A N G U L A R C O O R D I N A T E S		VERTICAL SECTION Feet	C L O S U R E S Distance Feet	Direction D M	DLS Deg/100"
				North/South	East/West				
13000.00	0 24	S 12 1 E	12997.11	115.50 S	71.57 E	-115.50	135.88	S31 47E	.16
13200.00	0 13	S 68 23 E	13197.10	116.34 S	72.08 E	-116.34	136.86	S31 46E	.17
13400.00	1 3	N 20 44 E	13397.09	114.75 S	73.09 E	-114.75	136.05	S32 29E	.54
13600.00	1 8	N 62 41 E	13597.06	112.11 S	75.51 E	-112.11	135.17	S33 57E	.40
13800.00	0 54	N 57 12 E	13797.02	110.35 S	78.60 E	-110.35	135.48	S35 27E	.13

Final Station Closure Distance: 135.48 Feet; Direction: S 35 27 E