

D.I.G., INC.

SANTA FE ENERGY RESOURCES, INC.
FAREWELL 18 FEDERAL #1
EDDY COUNTY, NEW MEXICO

Calculated by Minimum Curvature Method
Vert Sect Plane: N 80.96 E

- RECORD OF SURVEY -

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TRUE VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)	VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT)	DIRECTION (DEG)	DOGLEG SEVERITY (DG/100')
0.00	0.00	N 0.00 E	0.00	0.00	0.00 N 0.00 E	0.00	0.00	N 0.00 E	0.00
100.00	0.25	N 21.39 W	100.00	100.00	0.20 N 0.08 W	-0.05	0.22	N 21.39 W	0.25
200.00	0.00	N 0.00 E	100.00	200.00	0.41 N 0.16 W	-0.09	0.44	N 21.39 W	0.25
300.00	0.25	S 59.42 W	100.00	300.00	0.30 N 0.35 W	-0.30	0.46	N 49.60 W	0.25
400.00	0.25	N 70.68 W	100.00	400.00	0.26 N 0.74 W	-0.69	0.78	N 70.90 W	0.21
500.00	0.00	N 0.00 E	100.00	500.00	0.33 N 0.95 W	-0.88	1.00	N 70.85 W	0.25
600.00	0.00	N 0.00 E	100.00	600.00	0.33 N 0.95 W	-0.88	1.00	N 70.85 W	0.00
700.00	0.75	N 88.03 E	100.00	699.99	0.35 N 0.29 W	-0.23	0.46	N 39.79 W	0.75
800.00	1.00	N 67.93 E	100.00	799.98	0.70 N 1.17 E	1.27	1.36	N 59.06 E	0.39
900.00	0.75	N 65.83 E	100.00	899.97	1.30 N 2.58 E	2.75	2.88	N 63.27 E	0.25
1000.00	0.50	N 89.73 E	100.00	999.97	1.57 N 3.61 E	3.81	3.94	N 66.53 E	0.36
1100.00	1.50	N 45.65 E	100.00	1099.95	2.48 N 4.98 E	5.31	5.57	N 63.49 E	1.19
1200.00	1.75	N 35.55 E	100.00	1199.91	4.64 N 6.81 E	7.45	8.24	N 55.70 E	0.38
1300.00	2.00	N 34.46 E	100.00	1299.86	7.32 N 8.68 E	9.72	11.36	N 49.85 E	0.25
1400.00	1.75	N 51.87 E	100.00	1399.80	9.70 N 10.87 E	12.26	14.57	N 48.24 E	0.62
1500.00	1.50	N 41.77 E	100.00	1499.76	11.62 N 12.94 E	14.61	17.40	N 48.07 E	0.38
1600.00	1.75	N 38.68 E	100.00	1599.72	13.79 N 14.77 E	16.75	20.21	N 46.96 E	0.26
1700.00	1.50	N 37.58 E	100.00	1699.68	16.02 N 16.52 E	18.83	23.01	N 45.88 E	0.25
1800.00	1.75	N 24.48 E	100.00	1799.64	18.45 N 17.95 E	20.63	25.74	N 44.22 E	0.45
1900.00	1.00	N 29.37 E	100.00	1899.61	20.60 N 19.01 E	22.01	28.03	N 42.71 E	0.76
2000.00	1.00	N 32.28 E	100.00	1999.60	22.10 N 19.91 E	23.13	29.74	N 42.02 E	0.05
2100.00	0.75	N 47.37 E	100.00	2099.59	23.28 N 20.85 E	24.25	31.25	N 41.86 E	0.34
2200.00	1.00	N 32.46 E	100.00	2199.57	24.46 N 21.80 E	25.38	32.76	N 41.72 E	0.34
2300.00	1.00	N 35.56 E	100.00	2299.56	25.90 N 22.78 E	26.57	34.49	N 41.33 E	0.05
2400.00	0.50	N 31.64 E	100.00	2399.55	26.98 N 23.52 E	27.46	35.79	N 41.07 E	0.50
2500.00	0.25	N 70.74 E	100.00	2499.55	27.43 N 23.95 E	27.96	36.41	N 41.13 E	0.34
2600.00	1.00	N 47.83 E	100.00	2599.54	28.09 N 24.80 E	28.91	37.47	N 41.45 E	0.78
2700.00	1.00	N 53.93 E	100.00	2699.53	29.19 N 26.16 E	30.42	39.19	N 41.87 E	0.11
2800.00	0.75	N 28.02 E	100.00	2799.52	30.28 N 27.17 E	31.59	40.68	N 41.90 E	0.46
2900.00	0.25	N 48.57 E	100.00	2899.51	31.00 N 27.64 E	32.17	41.53	N 41.72 E	0.52
3000.00	0.25	N 28.66 E	100.00	2999.51	31.33 N 27.91 E	32.48	41.96	N 41.69 E	0.09
3100.00	0.50	N 68.76 E	100.00	3099.51	31.68 N 28.42 E	33.04	42.56	N 41.89 E	0.35

Survey Ref: Well Head Closure Ref: Well Head
Thu May 18 1995 17:38:06

Vert Sect Ref: Well Head
File: sf181s.dat