

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		VERTICAL SECTION (FT)	C L O S U R E		DOGLEG SEVERITY (DG/100')
					RECTANGULAR COORDINATES (FT)			DISTANCE (FT)	DIRECTION (DEG)	
3200.00	0.50	N 70.85 E	100.00	3199.50	31.99 N	29.24 E	33.90	43.33	N 42.43 E	0.02
3300.00	0.25	N 78.94 E	100.00	3299.50	32.17 N	29.86 E	34.55	43.90	N 42.87 E	0.25
3400.00	0.00	N 0.00 E	100.00	3399.50	32.21 N	30.08 E	34.77	44.07	N 43.04 E	0.25
3500.00	0.00	N 0.00 E	100.00	3499.50	32.21 N	30.08 E	34.77	44.07	N 43.04 E	0.00
3600.00	0.25	N 63.40 E	100.00	3599.50	32.31 N	30.27 E	34.97	44.28	N 43.14 E	0.25
3700.00	0.75	N 23.68 E	100.00	3699.50	33.01 N	30.73 E	35.54	45.10	N 42.96 E	0.58
3800.00	0.75	N 19.96 E	100.00	3799.49	34.22 N	31.22 E	36.21	46.32	N 42.37 E	0.05
3900.00	0.25	N 13.24 E	100.00	3899.48	35.05 N	31.49 E	36.61	47.12	N 41.94 E	0.50
4000.00	0.00	N 0.00 E	100.00	3999.48	35.26 N	31.54 E	36.69	47.31	N 41.81 E	0.25
4100.00	0.50	N 55.79 E	100.00	4099.48	35.51 N	31.90 E	37.08	47.73	N 41.94 E	0.50
4200.00	0.00	N 0.00 E	100.00	4199.48	35.75 N	32.26 E	37.48	48.16	N 42.06 E	0.50
4300.00	0.25	S 10.65 E	100.00	4299.48	35.54 N	32.30 E	37.49	48.02	N 42.27 E	0.25
4400.00	0.50	S 1.01 W	100.00	4399.48	34.89 N	32.34 E	37.42	47.57	N 42.83 E	0.26
4500.00	1.00	S 19.71 E	100.00	4499.47	33.63 N	32.62 E	37.50	46.85	N 44.13 E	0.56
4600.00	1.00	S 28.44 E	100.00	4599.46	32.04 N	33.33 E	37.95	46.23	N 46.13 E	0.15
4700.00	1.00	S 21.16 E	100.00	4699.44	30.46 N	34.06 E	38.43	45.69	N 48.20 E	0.13
4800.00	0.75	S 0.12 W	100.00	4799.43	28.99 N	34.38 E	38.50	44.97	N 49.86 E	0.41
4900.00	0.50	S 6.60 E	100.00	4899.42	27.90 N	34.43 E	38.38	44.31	N 50.97 E	0.26
5000.00	1.00	S 5.32 E	100.00	4999.41	26.60 N	34.56 E	38.31	43.61	N 52.41 E	0.50
5100.00	1.25	S 8.90 W	100.00	5099.39	24.65 N	34.47 E	37.91	42.38	N 54.43 E	0.37
5200.00	1.00	S 3.95 E	100.00	5199.38	22.71 N	34.36 E	37.50	41.18	N 56.54 E	0.35
5300.00	1.25	S 35.21 W	100.00	5299.36	20.94 N	33.79 E	36.66	39.76	N 58.21 E	0.79
5400.00	1.50	S 16.34 W	100.00	5399.33	18.80 N	32.79 E	35.34	37.80	N 60.18 E	0.51
5500.00	2.00	S 35.52 W	100.00	5499.28	16.12 N	31.41 E	33.55	35.31	N 62.83 E	0.76
5600.00	2.25	S 35.68 W	100.00	5599.21	13.11 N	29.25 E	30.95	32.05	N 65.87 E	0.25
5700.00	2.00	S 11.81 W	100.00	5699.15	9.80 N	27.75 E	28.95	29.43	N 70.54 E	0.91
5800.00	2.50	S 39.99 W	100.00	5799.07	6.42 N	25.99 E	26.68	26.77	N 76.12 E	1.20
5900.00	2.50	S 51.14 W	100.00	5898.98	3.38 N	22.89 E	23.14	23.14	N 81.59 E	0.49
6000.00	2.75	S 46.06 W	100.00	5998.87	0.35 N	19.47 E	19.28	19.47	N 88.96 E	0.34
6100.00	2.25	S 32.35 W	100.00	6098.78	2.97 S	16.69 E	16.01	16.95	S 79.91 E	0.78
6200.00	2.00	S 33.50 W	100.00	6198.71	6.08 S	14.68 E	13.54	15.89	S 67.48 E	0.25
6300.00	1.75	S 41.65 W	100.00	6298.66	8.68 S	12.70 E	11.18	15.38	S 55.64 E	0.36
6400.00	2.25	S 48.82 W	100.00	6398.60	11.11 S	10.21 E	8.33	15.09	S 42.56 E	0.56