

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 DIRECTION (FT) (DEG)		DOGLEG SEVERITY (DG/100')
6500.00	2.00	S 53.96 W	100.00	6498.53	13.43 S	7.32 E	5.12	15.30 S	28.58 E	0.31
6600.00	1.50	S 50.23 W	100.00	6598.48	15.30 S	4.90 E	2.44	16.06 S	17.76 E	0.51
6700.00	1.25	S 88.50 W	100.00	6698.45	16.16 S	2.80 E	0.23	16.40 S	9.84 E	0.93
6800.00	1.75	N 71.23 W	100.00	6798.42	15.70 S	0.27 E	-2.20	15.70 S	0.97 E	0.72
6900.00	1.25	N 65.95 W	100.00	6898.38	14.76 S	2.17 W	-4.47	14.92 S	8.38 W	0.52
7000.00	1.50	N 63.67 W	100.00	6998.36	13.74 S	4.34 W	-6.45	14.41 S	17.54 W	0.26
7100.00	1.50	S 85.62 W	100.00	7098.32	13.26 S	6.82 W	-8.82	14.91 S	27.23 W	0.79
7200.00	2.25	N 76.11 W	100.00	7198.27	12.89 S	10.03 W	-11.93	16.33 S	37.90 W	0.95
7300.00	2.25	N 81.83 W	100.00	7298.19	12.14 S	13.88 W	-15.62	18.44 S	48.83 W	0.22
7400.00	2.25	N 64.18 W	100.00	7398.12	11.00 S	17.59 W	-19.10	20.75 S	57.97 W	0.69
7500.00	2.25	N 55.91 W	100.00	7498.04	9.05 S	20.98 W	-22.15	22.85 S	66.67 W	0.32
7600.00	1.50	N 47.62 W	100.00	7597.99	7.07 S	23.58 W	-24.39	24.61 S	73.32 W	0.80
7700.00	1.00	N 7.34 W	100.00	7697.96	5.32 S	24.65 W	-25.18	25.22 S	77.83 W	0.98
GYRO-TIE IN										
7800.00	1.00	N 32.94 E	100.00	7797.95	3.72 S	24.29 W	-24.57	24.58 S	81.29 W	0.69
MULTI-SHOT SURVEYS										
7823.00	1.25	N 45.00 E	23.00	7820.94	3.37 S	24.01 W	-24.24	24.24 S	82.00 W	1.49
7927.00	2.25	N 82.00 E	104.00	7924.90	2.29 S	21.18 W	-21.28	21.30 S	83.84 W	1.40
8021.00	3.75	N 90.00 E	94.00	8018.77	2.03 S	16.28 W	-16.40	16.41 S	82.89 W	1.65
8115.00	6.25	S 85.00 E	94.00	8112.40	2.48 S	8.11 W	-8.40	8.48 S	73.01 W	2.70
8209.00	9.00	S 80.00 E	94.00	8205.56	4.20 S	4.23 E	3.52	5.96 S	45.22 E	3.01
8303.00	9.75	S 81.00 E	94.00	8298.31	6.72 S	19.34 E	18.04	20.47 S	70.83 E	0.82
8397.00	10.50	S 82.00 E	94.00	8390.84	9.16 S	35.68 E	33.80	36.84 S	75.60 E	0.82
8491.00	10.75	S 83.00 E	94.00	8483.23	11.42 S	52.86 E	50.41	54.08 S	77.81 E	0.33
8585.00	11.00	S 86.00 E	94.00	8575.54	13.11 S	70.51 E	67.57	71.72 S	79.46 E	0.66
8679.00	11.50	N 89.00 E	94.00	8667.74	13.58 S	88.83 E	85.59	89.86 S	81.31 E	1.17
8773.00	9.75	S 87.00 E	94.00	8760.12	13.83 S	106.14 E	102.65	107.04 S	82.58 E	2.02
8867.00	8.00	S 80.00 E	94.00	8853.00	15.38 S	120.54 E	116.62	121.51 S	82.73 E	2.18
8961.00	6.25	S 81.00 E	94.00	8946.27	17.32 S	132.03 E	127.67	133.16 S	82.53 E	1.87
9055.00	8.75	S 80.00 E	94.00	9039.46	19.36 S	144.13 E	139.30	145.42 S	82.35 E	2.66
9149.00	11.25	S 83.00 E	94.00	9132.02	21.72 S	160.27 E	154.87	161.74 S	82.28 E	2.72
9243.00	11.75	S 87.00 E	94.00	9224.14	23.34 S	178.93 E	173.04	180.45 S	82.57 E	1.00
9337.00	13.50	S 89.00 E	94.00	9315.86	24.03 S	199.46 E	193.21	200.91 S	83.13 E	1.92

Survey Ref: Well Head Closure Ref: Well Head
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Vert Sect Ref: Well Head
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