

DIG INC.

YATES PETROLEUM CORP.
AMARANTH AMG FED. #1
EDDY COUNTY, N.M.

Calculated by Minimum Curvature Method
Vert Sect Plane: S 18.69 W

- 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')
3200.00	0.25	N 11.00 W	100.00	3198.14	2.59 S	72.99 E	-20.93	73.04 S	87.96 E	0.18
3300.00	0.50	N 35.00 E	100.00	3298.14	2.02 S	73.20 E	-21.54	73.23 S	88.42 E	0.37
3400.00	0.25	N 45.00 E	100.00	3398.13	1.51 S	73.61 E	-22.16	73.62 S	88.82 E	0.26
3500.00	0.50	N 51.00 W	100.00	3498.13	1.08 S	73.42 E	-22.50	73.43 S	89.16 E	0.58
3600.00	0.75	N 50.00 W	100.00	3598.13	0.39 S	72.58 E	-22.89	72.58 S	89.69 E	0.25
3700.00	0.75	N 59.00 W	100.00	3698.12	0.37 N	71.52 E	-23.27	71.52 N	89.70 E	0.12
3800.00	0.75	N 56.00 W	100.00	3798.11	1.07 N	70.42 E	-23.58	70.42 N	89.13 E	0.04
3900.00	0.75	N 57.00 W	100.00	3898.10	1.80 N	69.32 E	-23.92	69.35 N	88.52 E	0.01
4000.00	0.50	N 40.00 W	100.00	3998.10	2.49 N	68.50 E	-24.30	68.54 N	87.92 E	0.31
4100.00	0.50	N 8.00 W	100.00	4098.09	3.25 N	68.15 E	-24.92	68.23 N	87.27 E	0.28
4200.00	0.50	N 2.00 E	100.00	4198.09	4.12 N	68.11 E	-25.73	68.23 N	86.54 E	0.09
4300.00	0.50	N 10.00 W	100.00	4298.08	4.99 N	68.05 E	-26.53	68.23 N	85.81 E	0.10
4400.00	0.50	N 32.00 E	100.00	4398.08	5.79 N	68.20 E	-27.34	68.45 N	85.15 E	0.36
4500.00	0.75	N 41.00 E	100.00	4498.07	6.65 N	68.86 E	-28.37	69.18 N	84.48 E	0.27
4600.00	1.00	N 61.00 E	100.00	4598.06	7.57 N	70.06 E	-29.62	70.46 N	83.83 E	0.39
4700.00	0.75	N 69.00 E	100.00	4698.05	8.23 N	71.43 E	-30.68	71.90 N	83.43 E	0.28
4800.00	1.75	N 69.00 E	100.00	4798.03	9.01 N	73.47 E	-32.07	74.02 N	83.01 E	1.00
4900.00	2.00	N 74.00 E	100.00	4897.97	10.03 N	76.57 E	-34.04	77.23 N	82.53 E	0.30
4921.50	0.25	S 69.00 W	21.50	4919.47	10.12 N	76.89 E	-34.23	77.55 N	82.50 E	10.46
5016.00	0.25	S 82.00 W	94.50	5013.97	10.02 N	76.49 E	-34.00	77.14 N	82.54 E	0.06
5110.50	0.25	S 70.00 W	94.50	5108.47	9.92 N	76.09 E	-33.78	76.74 N	82.57 E	0.06
5205.00	1.50	S 67.00 W	94.50	5202.95	9.37 N	74.76 E	-32.83	75.34 N	82.86 E	1.32
5299.50	6.00	S 64.00 W	94.50	5297.23	6.72 N	69.18 E	-28.53	69.51 N	84.45 E	4.76
5394.00	9.50	S 59.00 W	94.50	5390.85	0.53 N	58.05 E	-19.11	58.06 N	89.47 E	3.77
5488.50	11.00	S 56.00 W	94.50	5483.84	8.53 S	43.89 E	-5.99	44.71 S	79.01 E	1.68
5583.00	11.50	S 57.00 W	94.50	5576.52	18.70 S	28.52 E	8.57	34.10 S	56.75 E	0.57
5677.50	12.00	S 56.00 W	94.50	5669.04	29.32 S	12.47 E	23.78	31.86 S	23.04 E	0.57
5772.00	11.50	S 57.00 W	94.50	5761.56	39.95 S	3.57 W	38.98	40.11 S	5.11 W	0.57
5866.50	11.50	S 57.00 W	94.50	5854.17	50.21 S	19.37 W	53.77	53.82 S	21.10 W	0.00
5961.00	11.50	S 54.00 W	94.50	5946.77	60.88 S	34.89 W	68.85	70.17 S	29.82 W	0.63
6055.50	11.50	S 54.00 W	94.50	6039.37	71.95 S	50.14 W	84.22	87.69 S	34.87 W	0.00
6150.00	11.50	S 54.00 W	94.50	6131.98	83.02 S	65.38 W	99.60	105.67 S	38.22 W	0.00
6244.50	11.25	S 54.00 W	94.50	6224.62	93.98 S	80.46 W	114.80	123.71 S	40.57 W	0.26

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

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