

D I G Inc.

YATES PETROLEUM CORP.
ZINNIA AMZ FED. #1
SEC.27 T20S R29E
EDDY COUNTY, NEW MEXICO

Calculated by Minimum Curvature Method
Vert Sect Plane: N 90.00 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')
TIE-IN TO GYRO SURVEY										
6053.00	0.49	S 17.94 E	0.00	6050.41	50.44 N	117.82 E	117.82	128.16	N 66.82 E	0.00
6144.00	3.00	S 66.00 E	91.00	6141.36	49.10 N	120.12 E	120.12	129.76	N 67.77 E	2.96
6238.00	5.00	S 63.00 E	94.00	6235.13	46.24 N	126.01 E	126.01	134.23	N 69.85 E	2.14
6333.00	7.50	S 70.00 E	95.00	6329.56	42.24 N	135.53 E	135.53	141.96	N 72.69 E	2.75
6427.00	8.50	S 70.00 E	94.00	6422.64	37.77 N	147.82 E	147.82	152.57	N 75.67 E	1.06
6522.00	10.00	S 77.00 E	95.00	6516.41	33.51 N	162.46 E	162.46	165.88	N 78.35 E	1.97
6616.00	12.00	S 88.00 E	94.00	6608.69	31.33 N	180.18 E	180.18	182.88	N 80.14 E	3.08
6710.00	14.00	N 87.00 E	94.00	6700.27	31.59 N	201.30 E	201.30	203.77	N 81.08 E	2.44
6805.00	16.00	N 79.00 E	95.00	6792.04	34.69 N	225.64 E	225.64	228.29	N 81.26 E	3.03
6899.00	18.00	N 74.00 E	94.00	6881.94	41.16 N	252.32 E	252.32	255.65	N 80.73 E	2.63
6994.00	20.00	N 73.00 E	95.00	6971.76	49.96 N	281.97 E	281.97	286.36	N 79.95 E	2.13
7088.00	19.25	N 76.00 E	94.00	7060.30	58.41 N	312.38 E	312.38	317.79	N 79.41 E	1.34
7182.00	18.25	N 82.00 E	94.00	7149.32	64.20 N	341.99 E	341.99	347.97	N 79.37 E	2.31
7277.00	17.75	S 88.00 E	95.00	7239.69	65.77 N	371.20 E	371.20	376.98	N 79.95 E	3.29
7371.00	17.25	S 80.00 E	94.00	7329.35	62.85 N	399.25 E	399.25	404.17	N 81.05 E	2.61
7466.00	17.00	S 69.00 E	95.00	7420.16	55.42 N	426.10 E	426.10	429.68	N 82.59 E	3.41
7560.00	16.50	S 66.00 E	94.00	7510.18	45.07 N	451.12 E	451.12	453.37	N 84.29 E	1.06
7654.00	17.50	S 68.00 E	94.00	7600.07	34.35 N	476.42 E	476.42	477.66	N 85.88 E	1.23
7749.00	19.50	S 69.00 E	95.00	7690.15	23.31 N	504.47 E	504.47	505.01	N 87.35 E	2.13
7843.00	21.50	S 71.00 E	94.00	7778.20	12.08 N	535.41 E	535.41	535.54	N 88.71 E	2.25
7938.00	25.00	S 73.00 E	95.00	7865.47	0.54 N	571.07 E	571.07	571.07	N 89.95 E	3.78
8032.00	27.25	S 74.00 E	94.00	7949.86	11.20 S	610.76 E	610.76	610.86	S 88.95 E	2.44
8126.00	28.75	S 78.00 E	94.00	8032.86	21.83 S	653.57 E	653.57	653.93	S 88.09 E	2.56
8315.00	29.00	S 80.00 E	189.00	8198.37	39.24 S	743.15 E	743.15	744.18	S 86.98 E	0.53
8410.00	28.75	S 80.00 E	95.00	8281.56	47.21 S	788.33 E	788.33	789.74	S 86.57 E	0.26
8504.00	28.50	S 80.00 E	94.00	8364.07	55.03 S	832.67 E	832.67	834.49	S 86.22 E	0.27
8598.00	28.00	S 83.00 E	94.00	8446.88	61.61 S	876.66 E	876.66	878.83	S 85.98 E	1.60
8693.00	26.75	S 86.00 E	95.00	8531.24	65.82 S	920.13 E	920.13	922.48	S 85.91 E	1.96
8787.00	26.00	S 87.00 E	94.00	8615.46	68.37 S	961.81 E	961.81	964.24	S 85.93 E	0.93
8882.00	25.00	S 87.00 E	95.00	8701.20	70.51 S	1002.65 E	1002.65	1005.13	S 85.98 E	1.05
8976.00	24.25	S 87.00 E	94.00	8786.65	72.56 S	1041.76 E	1041.76	1044.29	S 86.02 E	0.80

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