

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		VERTICAL SECTION (FT)	C L O S U R E		DOGLEG SEVERITY (DG/100')
					RECTANGULAR COORDINATES (FT)	DISTANCE (FT)		DIRECTION (DEG)		
9451.00	31.50	S 29.00 W	88.00	9237.16	1044.91 S	400.34 W	1118.10	1118.98	S 20.96 W	3.59
9544.00	32.00	S 28.00 W	93.00	9316.25	1087.92 S	423.69 W	1166.32	1167.51	S 21.28 W	0.78
9638.00	32.00	S 28.00 W	94.00	9325.96	1131.90 S	447.07 W	1215.47	1216.99	S 21.55 W	0.00
9732.00	32.00	S 27.00 W	94.00	9475.68	1176.08 S	470.07 W	1264.70	1266.55	S 21.79 W	0.56
9826.00	31.50	S 26.00 W	94.00	9555.61	1220.35 S	492.15 W	1313.70	1315.85	S 21.96 W	0.77
9919.00	31.50	S 25.00 W	93.00	9634.91	1264.20 S	513.07 W	1361.95	1364.35	S 22.09 W	0.56
10013.00	31.50	S 23.00 W	94.00	9715.06	1309.07 S	533.04 W	1410.85	1413.43	S 22.16 W	1.11
10107.00	31.75	S 21.00 W	94.00	9795.10	1354.76 S	551.50 W	1460.05	1462.71	S 22.15 W	1.15
10201.00	32.25	S 18.00 W	94.00	9874.82	1401.71 S	568.11 W	1509.84	1512.46	S 22.06 W	1.77
10294.00	32.75	S 20.00 W	93.00	9953.26	1448.95 S	584.39 W	1559.80	1562.35	S 21.97 W	1.27
10388.00	33.50	S 18.00 W	94.00	10031.99	1497.51 S	601.10 W	1611.16	1613.65	S 21.87 W	1.41
10482.00	34.50	S 19.00 W	94.00	10109.92	1547.36 S	617.78 W	1663.72	1666.12	S 21.76 W	1.22
10576.00	35.25	S 19.00 W	94.00	10187.05	1598.18 S	635.28 W	1717.47	1719.81	S 21.68 W	0.80
10669.00	35.00	S 17.00 W	93.00	10263.10	1649.06 S	651.82 W	1770.97	1773.21	S 21.57 W	1.27
10763.00	31.25	S 18.00 W	94.00	10341.81	1698.95 S	667.24 W	1822.32	1824.44	S 21.45 W	4.03
10857.00	21.25	S 17.00 W	94.00	10426.01	1737.63 S	679.79 W	1863.83	1865.86	S 21.37 W	10.65
10951.00	19.50	S 19.00 W	94.00	10514.13	1768.75 S	689.87 W	1896.55	1898.53	S 21.31 W	2.00
11044.00	18.75	S 17.00 W	93.00	10601.92	1797.72 S	699.30 W	1927.01	1928.94	S 21.26 W	1.07
11138.00	18.25	S 15.00 W	94.00	10691.14	1826.39 S	707.53 W	1956.80	1958.64	S 21.18 W	0.86
11232.00	18.00	S 14.00 W	94.00	10780.47	1854.70 S	714.85 W	1985.96	1987.69	S 21.08 W	0.42
11326.00	18.75	S 11.00 W	94.00	10869.68	1883.62 S	721.24 W	2015.41	2016.98	S 20.95 W	1.28
11419.00	18.50	S 8.00 W	93.00	10957.81	1912.91 S	726.15 W	2044.72	2046.09	S 20.79 W	1.06
INTERPOLATION - 11015' VED 11479' MD										
11479.33	18.65	S 5.42 W	60.33	11015.00	1931.99 S	728.39 W	2063.52	2064.74	S 20.66 W	1.38
11513.00	18.75	S 4.00 W	33.67	11046.89	1942.75 S	729.28 W	2073.99	2075.12	S 20.58 W	1.38
11607.00	19.25	S 4.00 W	94.00	11135.77	1973.27 S	731.41 W	2103.60	2104.47	S 20.34 W	0.53
11701.00	20.00	S 4.00 W	94.00	11224.31	2004.77 S	733.62 W	2134.14	2134.78	S 20.10 W	0.80
11794.00	21.00	S 3.00 W	93.00	11311.42	2037.28 S	735.60 W	2165.56	2166.01	S 19.85 W	1.14
11888.00	21.00	S 3.00 W	94.00	11399.18	2070.92 S	737.36 W	2198.00	2198.27	S 19.60 W	0.00
11982.00	18.50	S 3.00 W	94.00	11487.64	2102.63 S	739.02 W	2228.57	2228.73	S 19.37 W	2.66
12076.00	17.75	S 4.00 W	94.00	11576.97	2131.82 S	740.80 W	2256.79	2256.87	S 19.16 W	0.86
12169.00	17.25	S 4.00 W	93.00	11665.67	2159.72 S	742.75 W	2283.84	2283.87	S 18.98 W	0.54
12263.00	17.00	S 4.00 W	94.00	11755.50	2187.33 S	744.69 W	2310.62	2310.62	S 18.80 W	0.27

Survey Ref: Well Head Closure Ref: Well Head
 Mon Jun 07 1993 13:48:38

Vert Sect Ref: Well Head
 File: YATESAMA.DAT