

YATES PETROLEUM COMPANY

Z1A "2S"-FEDERAL CUM NO. 1

WF-QQ11S

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MEASURED INCL. HOLE COURSE VERTICAL DEPTH VERTICAL SECTION COORDINATES DISTANCE DIRECTION DEUS. DEGS. FEET FEET FEET N/S FEET E/W FEET DEUS. FEET DOG-LEG SEVERITY

9382.00 28.94 S 12.00 E 82.00 9006.40 1702.27 1692.95 S 212.00 E 1706.18 S 07.14 E 53
 9394.00 29.00 S 12.00 E 12.00 9016.89 1708.02 1698.64 S 213.21 E 1711.97 S 07.15 E 53
 9487.00 29.75 S 13.00 E 93.00 9097.94 1753.04 1743.18 S 223.09 E 1757.39 S 07.29 E 96
 9530.00 30.25 S 13.00 E 43.00 9135.10 1774.23 1764.12 S 227.92 E 1778.79 S 07.30 E 116

DIG MULTISHOT SURVEY TO 9530' MD

9503.00 31.25 S 14.00 E 53.00 9180.72 1800.90 1790.47 S 234.25 E 1805.73 S 07.45 E 212

9676.00 32.50 S 14.00 E 93.00 9259.70 1849.15 1838.12 S 246.13 E 1854.53 S 07.63 E 134
 9770.00 33.50 S 15.00 E 94.00 9338.53 1899.36 1887.69 S 250.95 E 1905.37 S 07.81 E 121
 9864.00 33.75 S 15.00 E 94.00 9416.00 1950.32 1937.97 S 272.42 E 1957.02 S 08.00 E 27
 9926.00 32.43 S 15.00 E 62.00 9468.75 1983.46 1970.66 S 281.18 E 1990.62 S 08.12 E 213
 9950.00 31.75 S 15.00 E 32.00 9495.86 2000.11 1987.08 S 285.50 E 2007.50 S 08.18 E 213

10053.00 30.00 S 13.00 E 95.00 9577.39 2048.00 2034.38 S 297.37 E 2056.00 S 08.32 E 214
 10147.00 26.75 S 13.00 E 94.00 9660.09 2092.02 2077.90 S 307.42 E 2100.52 S 08.42 E 346
 10241.00 23.50 S 16.00 E 94.00 9745.18 2131.16 2116.54 S 317.41 E 2140.20 S 08.53 E 371
 10334.00 24.25 S 20.00 E 93.00 9830.22 2167.56 2152.33 S 329.04 E 2177.33 S 08.69 E 192
 10429.00 24.50 S 21.00 E 95.00 9916.75 2205.00 2189.05 S 342.77 E 2215.72 S 08.90 E 51

10520.00 21.25 S 16.00 E 91.00 10000.59 2239.11 2222.58 S 353.99 E 2250.59 S 09.05 E 416
 10614.00 19.25 S 07.00 E 94.00 10088.77 2271.28 2254.43 S 360.47 E 2283.07 S 09.08 E 393
 10708.00 18.25 S 04.00 E 94.00 10177.78 2301.47 2284.50 S 363.37 E 2313.22 S 09.04 E 148
 10800.00 17.25 S 00.00 E 92.00 10265.40 2329.50 2312.53 S 364.34 E 2341.05 S 09.95 E 171
 10892.00 16.25 S 02.00 W 92.00 10353.50 2355.94 2339.03 S 363.88 E 2367.17 S 08.84 E 125

10987.00 17.00 S 01.00 W 95.00 10444.53 2383.03 2366.20 S 363.17 E 2393.91 S 08.73 E 84
 11081.00 16.50 S 03.00 W 94.00 10534.54 2410.00 2393.28 S 362.22 E 2420.53 S 08.61 E 81
 11116.00 16.60 S 03.38 W 55.00 10568.09 2419.91 2403.23 S 361.67 E 2430.29 S 08.56 E 41
 11173.00 16.75 S 04.00 W 57.00 10622.69 2436.14 2419.55 S 360.62 E 2446.27 S 08.49 E 41
 11240.00 16.95 S 04.00 W 75.00 10694.47 2457.71 2441.24 S 359.10 E 2467.51 S 08.37 E 27