

MMW 30'90

YATES PETROLEUM COMPANY  
ZIA "ZS" FEDERAL CUM NO. 1  
WF-100115

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O. C. D. OFFICE

MEASURED INCL. HOLE DIRECTION DEGS. TRUE VERTICAL DEPTH FEET COURSE LENGTH FEET VERTICAL SECTION FEET N/S FEET E/W FEET DISTANCE DEGS. DUG-LEG SEVERITY

| MEASURED                         | INCL. | HOLE | DIRECTION | DEGS. | COURSE | VERTICAL | DEPTH   | SECTION | RECTANGULAR | CLUSTER | DISTANCE | DIRECTION | SEVERITY |
|----------------------------------|-------|------|-----------|-------|--------|----------|---------|---------|-------------|---------|----------|-----------|----------|
| DEPTH                            | ANGLE |      |           |       | LENGTH |          |         |         |             |         |          |           |          |
| FEET                             | DEGS. |      |           |       | FEET   | FEET     |         | FEET    | N/S         | E/W     | FEET     | DEGS.     | DUG-LEG  |
| 9382.00                          | 28.94 | S    | 12.00     | E     | 82.00  | 9006.40  | 1702.27 | 1692.95 | 212.00      | E       | 1706.18  | S 07.14   | .53      |
| 9394.00                          | 28.00 | S    | 12.00     | E     | 12.00  | 9016.89  | 1708.02 | 1698.64 | 213.21      | E       | 1711.97  | S 07.15   | .53      |
| 9487.00                          | 29.75 | S    | 13.00     | E     | 93.00  | 9097.94  | 1753.04 | 1743.18 | 223.09      | E       | 1757.39  | S 07.29   | .96      |
| 9530.00                          | 30.25 | S    | 13.00     | E     | 43.00  | 9135.10  | 1774.23 | 1764.12 | 227.92      | E       | 1778.79  | S 07.36   | 1.16     |
| DIG MULTISHOT SURVEY TO 9530' MD |       |      |           |       |        |          |         |         |             |         |          |           |          |
| 9583.00                          | 31.25 | S    | 14.00     | E     | 53.00  | 9180.72  | 1800.90 | 1790.47 | 234.25      | E       | 1805.73  | S 07.45   | 2.12     |
| 9676.00                          | 32.50 | S    | 14.00     | E     | 93.00  | 9259.70  | 1849.15 | 1838.12 | 246.13      | E       | 1854.53  | S 07.63   | 1.34     |
| 9770.00                          | 33.50 | S    | 15.00     | E     | 94.00  | 9338.53  | 1899.36 | 1887.69 | 250.95      | E       | 1905.37  | S 07.81   | 1.21     |
| 9864.00                          | 33.75 | S    | 15.00     | E     | 94.00  | 9416.00  | 1950.32 | 1937.97 | 272.42      | E       | 1957.02  | S 08.00   | .27      |
| 9926.00                          | 32.43 | S    | 15.00     | E     | 62.00  | 9468.75  | 1983.46 | 1970.66 | 281.19      | E       | 1990.62  | S 08.12   | 2.13     |
| 9950.00                          | 31.75 | S    | 15.00     | E     | 32.00  | 9495.86  | 2000.11 | 1987.08 | 285.50      | E       | 2007.50  | S 08.18   | 2.13     |
| 10053.00                         | 30.00 | S    | 13.00     | E     | 95.00  | 9577.39  | 2048.00 | 2034.38 | 297.37      | E       | 2056.00  | S 08.32   | 2.14     |
| 10147.00                         | 26.75 | S    | 13.00     | E     | 94.00  | 9660.09  | 2092.02 | 2077.90 | 307.42      | E       | 2100.52  | S 08.42   | 3.46     |
| 10241.00                         | 23.50 | S    | 16.00     | E     | 94.00  | 9745.18  | 2131.16 | 2116.54 | 317.41      | E       | 2140.20  | S 08.53   | 3.71     |
| 10334.00                         | 24.25 | S    | 20.00     | E     | 93.00  | 9830.22  | 2167.56 | 2152.33 | 329.04      | E       | 2177.33  | S 08.69   | 1.92     |
| 10429.00                         | 24.50 | S    | 21.00     | E     | 95.00  | 9916.75  | 2205.00 | 2189.05 | 342.77      | E       | 2215.72  | S 08.90   | .51      |
| 10520.00                         | 21.25 | S    | 16.00     | E     | 91.00  | 10000.59 | 2239.11 | 2222.58 | 353.99      | E       | 2250.59  | S 09.05   | 4.16     |
| 10614.00                         | 19.25 | S    | 07.00     | E     | 94.00  | 10088.77 | 2271.28 | 2254.43 | 360.47      | E       | 2283.07  | S 09.08   | 3.93     |
| 10708.00                         | 18.25 | S    | 04.00     | E     | 94.00  | 10177.78 | 2301.47 | 2284.50 | 363.37      | E       | 2313.22  | S 09.04   | 1.48     |
| 10800.00                         | 17.25 | S    | 00.00     | E     | 92.00  | 10265.40 | 2329.50 | 2312.53 | 364.34      | E       | 2341.05  | S 08.95   | 1.71     |
| 10892.00                         | 16.25 | S    | 02.00     | W     | 92.00  | 10353.50 | 2355.94 | 2339.03 | 363.88      | E       | 2367.17  | S 08.84   | 1.25     |
| 10987.00                         | 17.00 | S    | 01.00     | W     | 95.00  | 10444.53 | 2383.03 | 2366.20 | 363.17      | E       | 2393.91  | S 08.73   | .84      |
| 11081.00                         | 16.50 | S    | 03.00     | W     | 94.00  | 10534.54 | 2410.00 | 2393.28 | 362.22      | E       | 2420.53  | S 08.61   | .81      |
| 11116.00                         | 16.60 | S    | 03.38     | W     | 55.00  | 10568.09 | 2419.91 | 2403.23 | 361.67      | E       | 2430.29  | S 08.56   | .41      |
| 11173.00                         | 16.75 | S    | 04.00     | W     | 57.00  | 10622.69 | 2436.14 | 2419.55 | 360.62      | E       | 2446.27  | S 08.48   | .41      |
| 11248.00                         | 16.95 | S    | 04.00     | W     | 75.00  | 10694.47 | 2457.71 | 2441.24 | 359.10      | E       | 2467.51  | S 08.37   | .27      |

DIG MULTISHOT SURVEY TO 9530' MD