

## WILSON DOWNHOLE DIRECTIONAL SERVICES

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30-Aug-94

KAISER FRANCIS OIL CO.  
 PURE GOLD WELL # B-9 SIDETRACK #1  
 SEC.20-T23S-R31E  
 EDDY COUNTY, NEW MEXICO

OCT 17 '94

| Vert. Sect. Dir. = S 37.9167 E Calculations using the Radius of Curvature |              |         |                |              |           |               |                     |                                       |               | Method |  |  |
|---------------------------------------------------------------------------|--------------|---------|----------------|--------------|-----------|---------------|---------------------|---------------------------------------|---------------|--------|--|--|
| Meas.<br>Depth                                                            | Hole<br>Ang. | T.V.D.  | V. S.<br>Dist. | Hole<br>Dir. | Vertical  | Total<br>Lat. | Coordinates<br>Dep. | C L O S U R E S<br>Distance Direction | D. L.<br>Sev. |        |  |  |
| 0                                                                         | .00          | .00     | .00            |              | Vertical  | .00           | .00                 | .00 N .0000 E                         | .00           |        |  |  |
| 100                                                                       | .47          | 100.00  | -.30           | N 79.73 W    | N 79.73 W | .07 N         | .40 W               | .41 N 79.7333 W                       | .47           |        |  |  |
| 200                                                                       | .25          | 200.00  | -.86           | N 47.28 W    | N 47.28 W | .35 N         | .95 W               | 1.01 N 69.9482 W                      | .30           |        |  |  |
| 300                                                                       | .37          | 300.00  | -1.39          | N 47.00 W    | N 47.00 W | .71 N         | 1.35 W              | 1.52 N 62.0860 W                      | .12           |        |  |  |
| 400                                                                       | .33          | 399.99  | -2.00          | N 37.02 W    | N 37.02 W | 1.17 N        | 1.76 W              | 2.11 N 56.3849 W                      | .07           |        |  |  |
| 500                                                                       | .47          | 499.99  | -2.65          | N 75.43 W    | N 75.43 W | 1.55 N        | 2.33 W              | 2.79 N 56.3457 W                      | .30           |        |  |  |
| 600                                                                       | .98          | 599.98  | -3.56          | N 88.80 W    | N 88.80 W | 1.72 N        | 3.58 W              | 3.97 N 64.2958 W                      | .54           |        |  |  |
| 700                                                                       | 1.20         | 699.96  | -4.79          | N 86.00 W    | N 86.00 W | 1.81 N        | 5.48 W              | 5.77 N 71.7405 W                      | .22           |        |  |  |
| 800                                                                       | .92          | 799.95  | -6.05          | N 84.10 W    | N 84.10 W | 1.97 N        | 7.32 W              | 7.58 N 74.9567 W                      | .29           |        |  |  |
| 900                                                                       | .92          | 899.93  | -7.11          | N 88.72 W    | N 88.72 W | 2.07 N        | 8.92 W              | 9.15 N 76.9451 W                      | .07           |        |  |  |
| 1000                                                                      | .98          | 999.92  | -8.18          | N 86.78 W    | N 86.78 W | 2.13 N        | 10.57 W             | 10.78 N 78.5966 W                     | .07           |        |  |  |
| 1100                                                                      | .72          | 1099.91 | -8.99          | S 77.70 W    | S 77.70 W | 2.02 N        | 12.05 W             | 12.21 N 80.5029 W                     | .35           |        |  |  |
| 1200                                                                      | .80          | 1199.90 | -9.43          | S 65.50 W    | S 65.50 W | 1.60 N        | 13.30 W             | 13.40 N 83.1476 W                     | .18           |        |  |  |
| 1300                                                                      | .72          | 1299.89 | -9.71          | S 63.17 W    | S 63.17 W | 1.03 N        | 14.49 W             | 14.53 N 85.9544 W                     | .09           |        |  |  |
| 1400                                                                      | .52          | 1399.89 | -10.07         | S 79.23 W    | S 79.23 W | .68 N         | 15.51 W             | 15.52 N 87.4918 W                     | .26           |        |  |  |
| 1500                                                                      | .47          | 1499.88 | -10.29         | S 55.80 W    | S 55.80 W | .35 N         | 16.30 W             | 16.30 N 88.7575 W                     | .21           |        |  |  |
| 1600                                                                      | .43          | 1599.88 | -10.28         | S 46.15 W    | S 46.15 W | .14 S         | 16.90 W             | 16.91 S 89.5238 W                     | .08           |        |  |  |
| 1700                                                                      | .53          | 1699.88 | -10.16         | S 41.37 W    | S 41.37 W | .75 S         | 17.49 W             | 17.50 S 87.5455 W                     | .11           |        |  |  |
| 1800                                                                      | .52          | 1799.87 | -9.76          | S 10.75 W    | S 10.75 W | 1.56 S        | 17.89 W             | 17.95 S 85.0057 W                     | .28           |        |  |  |
| 1900                                                                      | .47          | 1899.87 | -9.27          | S 24.40 W    | S 24.40 W | 2.38 S        | 18.14 W             | 18.30 S 82.5298 W                     | .13           |        |  |  |
| 2000                                                                      | .48          | 1999.86 | -8.97          | S 37.08 W    | S 37.08 W | 3.09 S        | 18.57 W             | 18.82 S 80.5506 W                     | .11           |        |  |  |
| 2100                                                                      | .47          | 2099.86 | -8.81          | S 45.23 W    | S 45.23 W | 3.71 S        | 19.11 W             | 19.47 S 79.0035 W                     | .07           |        |  |  |
| 2200                                                                      | .18          | 2199.86 | -8.69          | S 34.37 W    | S 34.37 W | 4.15 S        | 19.47 W             | 19.91 S 77.9733 W                     | .29           |        |  |  |
| 2300                                                                      | .48          | 2299.86 | -8.54          | S 39.78 W    | S 39.78 W | 4.61 S        | 19.83 W             | 20.35 S 76.9015 W                     | .30           |        |  |  |
| 2400                                                                      | .33          | 2399.86 | -8.27          | S 18.58 W    | S 18.58 W | 5.23 S        | 20.17 W             | 20.84 S 75.4599 W                     | .21           |        |  |  |