

STATE OF LOUISIANA  
OFFICE OF CONSERVATION

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## REPORT OF PROOF OF APPARENT DEVIATION

OIL CON. DIV.

SHEET 30

OPERATOR Union Texas Petroleum DISTRICT Farmington  
 FIELD Pump Canyon - MV PARISH San Juan  
 WELL NAME & NO. Quinn # 1A SEC. 20 T 31N R 8W

| Degrees<br>Deviation | Deviation<br>Factor | DEGREES<br>DEVIATION  | DEPTH<br>FROM<br>SURFACE | LENGTH<br>OF<br>INTERVAL | DEVIATION<br>FACTOR | DEVIATION<br>OF<br>INTERVAL | CUMULATIVE<br>APPARENT<br>DEVIATION | REMARKS |
|----------------------|---------------------|-----------------------|--------------------------|--------------------------|---------------------|-----------------------------|-------------------------------------|---------|
|                      |                     | $\frac{1}{2}^{\circ}$ | 124'                     | 124'                     | .00873              | 1.08                        | 1.08                                |         |
| $\frac{1}{4}$        | .00436              |                       |                          |                          |                     |                             |                                     |         |
| $\frac{1}{4}$        | .00873              | $\frac{3}{4}^{\circ}$ | 243'                     | 119'                     | .01309              | 1.56                        | 2.64                                |         |
| $\frac{1}{4}$        | .01309              |                       |                          |                          |                     |                             |                                     |         |
| 1                    | .01745              | $\frac{1}{4}^{\circ}$ | 390'                     | 147'                     | .00436              | .64                         | 3.28                                |         |
| $\frac{1}{4}$        | .02182              |                       |                          |                          |                     |                             |                                     |         |
| $\frac{1}{4}$        | .02618              | $\frac{3}{4}^{\circ}$ | 587'                     | 197'                     | .01309              | 2.58                        | 5.86                                |         |
| $\frac{1}{4}$        | .03054              |                       |                          |                          |                     |                             |                                     |         |
| 2                    | .03490              | $\frac{3}{4}^{\circ}$ | 833'                     | 246'                     | .01309              | 3.22                        | 9.08                                |         |
| $\frac{2}{4}$        | .03926              |                       |                          |                          |                     |                             |                                     |         |
| $\frac{2}{4}$        | .04362              | $\frac{1}{2}^{\circ}$ | 1143'                    | 310'                     | .00873              | 2.71                        | 11.79                               |         |
| $\frac{2}{4}$        | .04798              |                       |                          |                          |                     |                             |                                     |         |
| 3                    | .05234              | $\frac{1}{2}^{\circ}$ | 1649'                    | 506'                     | .00436              | 2.21                        | 14.00                               |         |
| $\frac{3}{4}$        | .05669              |                       |                          |                          |                     |                             |                                     |         |
| $\frac{3}{4}$        | .06105              | $1^{\circ}$           | 2149'                    | 500'                     | .01745              | 8.73                        | 22.73                               |         |
| $\frac{3}{4}$        | .06540              |                       |                          |                          |                     |                             |                                     |         |
| 4                    | .06976              | $\frac{1}{4}^{\circ}$ | 2645'                    | 496'                     | .02182              | 10.82                       | 33.55                               |         |
| $\frac{4}{4}$        | .07411              |                       |                          |                          |                     |                             |                                     |         |
| $\frac{4}{4}$        | .07846              | $1^{\circ}$           | 3149'                    | 504'                     | .01745              | 8.79                        | 42.34                               |         |
| $\frac{4}{4}$        | .08281              |                       |                          |                          |                     |                             |                                     |         |
| 5                    | .08716              | $\frac{1}{4}^{\circ}$ | 3456'                    | 307'                     | .03054              | 9.38                        | 51.72                               |         |
| $\frac{5}{4}$        | .09150              |                       |                          |                          |                     |                             |                                     |         |
| $\frac{5}{4}$        | .09585              | $\frac{3}{4}^{\circ}$ | 3804'                    | 348'                     | .01309              | 4.56                        | 56.28                               |         |
| $\frac{5}{4}$        | .10019              |                       |                          |                          |                     |                             |                                     |         |
| 6                    | .10453              | $\frac{1}{2}^{\circ}$ | 4312'                    | 508'                     | .02618              | 13.30                       | 69.58                               |         |
| $\frac{6}{4}$        | .10887              |                       |                          |                          |                     |                             |                                     |         |
| $\frac{6}{4}$        | .11320              | $\frac{3}{4}^{\circ}$ | 4801'                    | 489'                     | .03054              | 14.93                       | 84.51                               |         |
| $\frac{6}{4}$        | .11754              |                       |                          |                          |                     |                             |                                     |         |
| 7                    | .12187              | $\frac{1}{2}^{\circ}$ | 5173'                    | 372'                     | .03054              | 11.36                       | 95.87                               |         |
| $\frac{7}{4}$        | .12620              |                       |                          |                          |                     |                             |                                     |         |
| $\frac{7}{4}$        | .13053              | $\frac{3}{4}^{\circ}$ | 5461'                    | 288                      | .01309              | 3.77                        | 99.64                               |         |
| $\frac{7}{4}$        | .13485              |                       |                          |                          |                     |                             |                                     |         |
| 8                    | .13917              | $\frac{1}{2}^{\circ}$ | 5931'                    | 470                      | .02618              | 12.30                       | 111.94                              |         |
| $\frac{8}{4}$        | .14349              |                       |                          |                          |                     |                             |                                     |         |
| $\frac{8}{4}$        | .14781              |                       |                          |                          |                     |                             |                                     |         |
| $\frac{8}{4}$        | .15212              |                       |                          |                          |                     |                             |                                     |         |
| 9                    | .15643              |                       |                          |                          |                     |                             |                                     |         |
| $\frac{9}{4}$        | .16074              |                       |                          |                          |                     |                             |                                     |         |
| $\frac{9}{4}$        | .16505              |                       |                          |                          |                     |                             |                                     |         |
| $\frac{9}{4}$        | .16935              |                       |                          |                          |                     |                             |                                     |         |
| 10                   | .17365              |                       |                          |                          |                     |                             |                                     |         |

Certified as Being True &amp; Correct by

Nad H. BullTitle SR Drilling ForemanDate 11-6-88

Notary Public

Betty J. Stuart

Commission Expires

9-20-92

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