

30-025-31089

WELL NAME &amp; NUMBER PPC Fed 31-#1

LOCATION Sec 31, T-21-S, R-32-E Lea County, New Mexico 2310/8 + 660/E  
(Give Unit, Section, Township and Range)

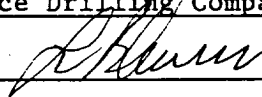
OPERATOR Pogo Production Company P.O. Box 10340 Midland, TX 79702

DRILLING CONTRACTOR Grace Drilling Company

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

| DEGREES @ DEPTH | DEGREES @ DEPTH | DEGREES @ DEPTH | DEGREES @ DEPTH |
|-----------------|-----------------|-----------------|-----------------|
| .75 270         | 2.75 3117       | .75 7765        | .75 13762       |
| 1.75 570        | 2.00 3209       | .75 8146        | 1.50 14139      |
| 1.75 800        | 1.75 3397       | .75 8600        | 1.75 14350      |
| 2.75 1070       | 1.75 3650       | 1.25 8895       | .75 14850       |
| 2.75 1247       | 3.50 3870       | 2.00 9390       |                 |
| 2.50 1390       | 2.50 3990       | 1.00 10100      |                 |
| 1.75 1656       | 2.75 4090       | 2.50 10600      |                 |
| 1.75 1906       | 2.50 4209       | 3.00 10770      |                 |
| 1.50 2050       | 2.00 4400       | 2.25 10850      |                 |
| 2.00 2400       | 1.00 4841       | 2.25 11050      |                 |
| 2.75 2520       | .50 5335        | 1.75 11280      |                 |
| 2.75 2650       | .25 5808        | 1.50 11880      |                 |
| 3.00 2771       | .75 6300        | 1.00 12368      |                 |
| 3.00 2897       | .75 6800        | .25 12865       |                 |
| 2.75 3025       | .75 7290        | .75 13344       |                 |

Drilling Contractor Grace Drilling Company

By 

Subscribed and sworn to before me this 4 day of March, 19 91

  
 Notary Public

My Commission Expires 11/19/94

Ector County Texas