

WELL NAME AND NUM R Hagerman 15 Federal No. 1
LOCATION 1980' FNL & 1980' FWL, Section 15, T-14S, R-27E, Chaves County, New Mexico
(New Mexico give U.S.T.&R. - Texas give S, BLK, SURV. and TWP) **RECEIVED**
OPERATOR Santa Fe Energy Operating Partners, L.P. **JUL 14 '89**
DRILLING CONTRACTOR MORANCO Drilling, Inc. **O.C.O.**

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:

<u>Degrees and Depth</u>	<u>Degrees and Depth</u>	<u>Degrees and Depth</u>	<u>Degrees and Depth</u>
<u>1/2 150</u>	<u>1 1/2 5192</u>	<u> </u>	<u> </u>
<u>1 310</u>	<u>2 5440</u>	<u> </u>	<u> </u>
<u>1 1/4 711</u>	<u>2 1/4 5693</u>	<u> </u>	<u> </u>
<u>3/4 1145</u>	<u>1 3/4 5780</u>	<u> </u>	<u> </u>
<u>3/4 1350</u>	<u>1 3/4 6034</u>	<u> </u>	<u> </u>
<u>1/2 1930</u>	<u>1 1/2 6281</u>	<u> </u>	<u> </u>
<u>1 1/2 2444</u>	<u>1 1/2 6775</u>	<u> </u>	<u> </u>
<u>1 2696</u>	<u>3/4 7301</u>	<u> </u>	<u> </u>
<u>1/2 3180</u>	<u>1 1/4 7729</u>	<u> </u>	<u> </u>
<u>1/2 3660</u>	<u> </u>	<u> </u>	<u> </u>
<u>1/2 4190</u>	<u> </u>	<u> </u>	<u> </u>
<u>1 4694</u>	<u> </u>	<u> </u>	<u> </u>

Drilling Contractor MORANCO Drilling, Inc.

By Wiley Gilmore
Wiley Gilmore, Marketing Manager

Subscribed and sworn to before me this 26th day of May 19 89

My Commission expires:

September 13, 1992

Virginia G. Perry
Notary Public
Lea County, New Mexico