

WELL NAME AND NUMBER Empire South Deep Unit No. 15

LOCATION 1980/N 660/W Section 8, T18S, R29E, Eddy County, New Mexico
(New Mexico give U.S.T&R: Texas give S, BLK, SURV. and TWP)

OPERATOR Amoco Production Company

DRILLING CONTRACTOR MORANCO

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>1/4 240</u>	<u>1 1/4 4345</u>	<u>2 7350</u>	<u>1 1/2 9553</u>
<u>1/4 426</u>	<u>1 1/2 4585</u>	<u>2 7440</u>	<u>1 9824</u>
<u>1 830</u>	<u>1 1/2 4697</u>	<u>2 1/2 7452</u>	<u>1 1/2 10,140</u>
<u>3/4 1160</u>	<u>1 1/2 4909</u>	<u>2 7776</u>	<u>1 1/4 10,668</u>
<u>1/4 1522</u>	<u>1 1/2 5000</u>	<u>2 7926</u>	<u>3/4 10,796</u>
<u>1/4 1828</u>	<u>1 1/2 5254</u>	<u>2 8049</u>	<u>3/4 10,870</u>
<u>3/4 2245</u>	<u>1 1/4 5348</u>	<u>2 8237</u>	<u>1 10,997</u>
<u>3/4 2486</u>	<u>1 1/2 5755</u>	<u>1 3/4 8323</u>	
<u>3/4 2870</u>	<u>1 1/2 6010</u>	<u>2 8456</u>	
<u>1 3065</u>	<u>1 6350</u>	<u>2 8667</u>	
<u>1 3528</u>	<u>1 3/4 6695</u>	<u>1 1/2 8860</u>	
<u>1 3935</u>	<u>1 1/2 6913</u>	<u>1 9224</u>	


Drilling Contractor MORANCO

By 

Subscribed and sworn to before me this 5TH day of October 19 77

My Commission expires:

April 1, 1978


Notary Public
Lea County, New Mexico