

WELL NAME AND NUMBER EMPIRE SOUTH DEEP L No. 11

LOCATION SECTION 32, T-17-S R-29-E, EDDY COUNTY,
(New Mexico give U, S, T & R; Texas give S, Bk., Sec. & Twp. when required)

OPERATOR AMOCO PRODUCTION COMPANY

DRILLING CONTRACTOR SHARP DRILLING Co. Inc.

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 @ Depth</u>	<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>
<u>1/4 170</u>	<u>1 3/4 5239</u>	<u>6 6825</u>	<u>7 8261</u>
<u>1/2 420</u>	<u>2 3/4 5390</u>	<u>5 1/2 6917</u>	<u>7 8305</u>
<u>3/4 920</u>	<u>2 3/4 5530</u>	<u>5 6980</u>	<u>6 3/4 8360</u>
<u>3/4 1420</u>	<u>3 5870</u>	<u>4 3/4 7042</u>	<u>6 1/4 8445</u>
<u>3/4 1870</u>	<u>2 1/2 5990</u>	<u>3 3/4 7105</u>	<u>6 3/4 8490</u>
<u>1 1/2 2338</u>	<u>3 6177</u>	<u>3 7167</u>	<u>6 1/2 8550</u>
<u>1 2560</u>	<u>4 6340</u>	<u>2 1/2 7269</u>	<u>6 1/4 8675</u>
<u>3/4 2915</u>	<u>4 6380</u>	<u>2 1/2 7460</u>	<u>3 8800</u>
<u>3/4 3386</u>	<u>4 3/4 6450</u>	<u>3 1/2 7642</u>	
<u>3/4 3830</u>	<u>5 6540</u>	<u>2 3/4 7737</u>	
<u>1 1/4 4227</u>	<u>5 3/4 6600</u>	<u>3 7860</u>	
<u>1 4640</u>	<u>6 1/4 6670</u>	<u>6 1/4 8049</u>	
<u>0 4950</u>	<u>6 6727</u>	<u>6 1/2 8120</u>	
<u>2 5190</u>	<u>5 1/2 6790</u>	<u>7 8230</u>	

Drilling Contractor SHARP DRILLING Co. Inc.

By R. C. Crook

Subscribed and sworn to before me this 1st day of FEBRUARY 19 77

Pat Buchanan
Notary Public

My Commission Expires:

JUNE 1, 1977

MIDLAND County, TEXAS