

WELL NAME AND NUMBER North Horseshoe Bend No. 1

LOCATION 660/N 1980/E Section 22, T23S, R25E, Eddy County, New Mexico
(New Mexico give U.S.T&R: Texas give S, BLK, SURV. and TWP)

OPERATOR Hanagan Petroleum Corp.

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>3/4 100</u>	<u>1 4125</u>	<u>1 3/4 9780</u>	<u> </u>
<u>1/2 150</u>	<u>1 1/4 4604</u>	<u>2 10,232</u>	<u> </u>
<u>3/4 609</u>	<u>1 3/4 5081</u>	<u>2 10,690</u>	<u> </u>
<u>1 1/4 796</u>	<u>1 3/4 5587</u>	<u>3 10,816</u>	<u> </u>
<u>1 1/4 1263</u>	<u>2 6030</u>	<u>4 11,300</u>	<u> </u>
<u>1 3/4 1704</u>	<u>2 1/2 6502</u>	<u>3 1/2 11,500</u>	<u> </u>
<u>1 3/4 2115</u>	<u>3/4 7000</u>	<u> </u>	<u> </u>
<u>3/4 2395</u>	<u>1 7470</u>	<u> </u>	<u> </u>
<u>1 3/4 2656</u>	<u>2 7863</u>	<u> </u>	<u> </u>
<u>1 1/2 2880</u>	<u>2 8360</u>	<u> </u>	<u> </u>
<u>1 3397</u>	<u>2 8823</u>	<u> </u>	<u> </u>
<u>1 3638</u>	<u>1 3/4 9306</u>	<u> </u>	<u> </u>

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ARTESIA, NEW MEXICO

Drilling Contractor MORANCO

By Jerry Gilbert
Jerry Gilbert, Drilling Engineer

Subscribed and sworn to before me this 13th day of October 19 77

My Commission expires:

April 1, 1978

Naupre Luriney
Notary Public
Lea County, New Mexico