

ARAPAHOE DRILLING CO.

P. O. BOX 26687

ALBUQUERQUE, NEW MEXICO 87125

STEVE SCHALK
GENERAL MANAGER

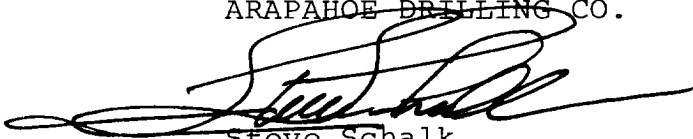
September 29, 1982

Jicarilla 71-10
Sec. 3, Township 23 North, Range 4 West
Rio Arriba County, New Mexico

DEVIATION RECORD

<u>DATE</u>	<u>DEPTH</u>	<u>DEVIATION</u>
9-07-82	215'	1/2°
9-08-82	767'	1/2°
9-09-82	1254'	1/2°
9-09-82	1748'	3/4°
9-09-82	2592'	1-1/4°
9-10-82	3077'	1-1/4°
9-11-82	3569'	1-1/4°
9-11-82	3767'	1-1/2°
9-13-82	4277'	1-1/2°
9-14-82	4769'	1-3/4°
9-15-82	5265'	1/2°
9-15-82	5296'	1/4°
9-16-82	5792'	1/4°
9-18-82	6283'	1/2°
9-19-82	6867'	1/2°
9-21-82	7242'	3/4°

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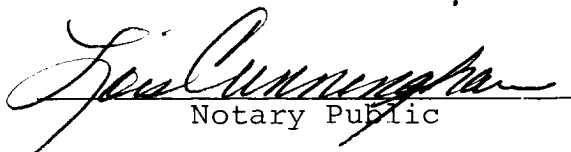

Steve Schalk
General Manager

STATE OF NEW MEXICO
COUNTY OF BERNALILLO

Subscribed and sworn to before me, a Notary Public,
this 30th day of September, 1982, by Steve Schalk,
General Manager of Arapahoe Drilling Co.



OFFICIAL SEAL
LOIS CUNNINGHAM
NOTARY PUBLIC - NEW MEXICO
Notary Bond Filed with Secretary of State
My Commission Expires: 3/7/83


Notary Public