

ARAPAHOE DRILLING CO., INC.
P. O. BOX 26687
ALBUQUERQUE, NEW MEXICO 87125

STEVE SCHALK
PRESIDENT

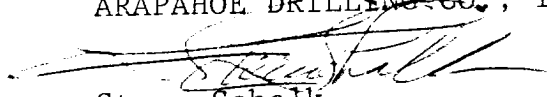
September 1, 1983

Jicarilla 70-16
Section 34, Township 24 North, Range 4 West
Rio Arriba County, New Mexico

DEVIATION RECORD

DATE	DEPTH	DEVIATION
8/13/83	216'	1/2°
8/14/83	731'	3/4°
8/15/83	1411'	1°
	1935'	1°
	2525'	1-3/4°
	2742'	2°
	3238'	1°
8/16/83	3824'	1/2°
8/17/83	4317'	1/2°
8/18/83	4936'	1°
8/20/83	5453'	3/4°
8/21/83	5979'	3/4°
8/22/83	6530'	3/4°
8/24/83	7027'	3/4°
8/25/83	7500'	3/4°
8/26/83		3/4°

ARAPAHOE DRILLING CO., INC.


Steve Schalk
President

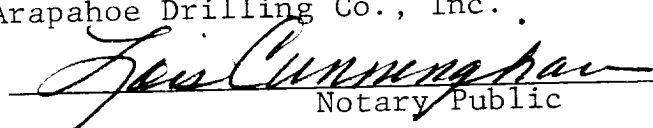
RECEIVED

SEP 14 1983

OIL CON. DIV.
DIST. 3

STATE OF NEW MEXICO
COUNTY OF BERNALILLO

Subscribed and sworn to before me, a Notary Public,
this 1st day of September, 1983, by Steve Schalk,
President of Arapahoe Drilling Co., Inc.


Notary Public



OFFICIAL SEAL
LOIS CUNNINGHAM

NOTARY PUBLIC - NEW MEXICO

Notary Bond Filed with Secretary of State
My Commission Expires: 3/7/87