

ARAPAHOE DRILLING CO., INC.

P. O. BOX 26687

ALBUQUERQUE, NEW MEXICO 87125

STEVE SCHALK
PRESIDENT

June 20, 1984

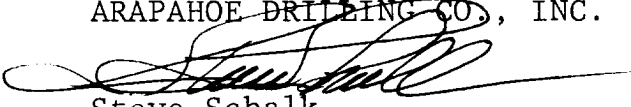
Operator: Chace Oil Co.

Jicarilla 361-4 J.V. 23
Section 4, Township 24 North, Range 4 West
Rio Arriba County, New Mexico

DEVIATION RECORD

DATE	DEPTH	DEVIATION
5/19/84	226'	1/2°
5/20/84	724'	3/4°
5/21/84	1704'	3/4°
	2194'	1°
	2719'	3/4°
5/22/84	3241'	3/4°
	3729'	3/4°
5/23/84	4221'	3/4°
	4451'	3/4°
5/24/84	4960'	3/4°
5/25/84	5449'	1°
5/26/84	5798'	3/4°
5/27/84	6185'	1°
5/28/84	6679'	1°
5/29/84	6829'	3/4°
5/31/84	7293'	1°
6/01/84	7486'	3/4°

ARAPAHOE DRILLING CO., INC.


Steve Schalk
President

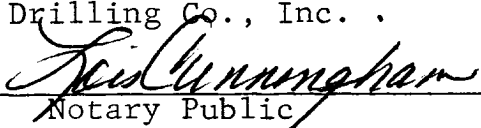
RECEIVED

JUN 25 1984

STATE OF NEW MEXICO
COUNTY OF BERNALILLO

OIL CON. DIV.
DIST. 3

Subscribed and sworn to before me, a Notary Public,
this 20th day of June, 1984, 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