## ARAPAHOE DRILLING CO., INC.

P. O. BOX 26687

## ALBUQUERQUE, NEW MEXICO 87125

STEVE SCHALK PRESIDENT

October 31, 1983

Operator: Chace Oil Co.

Jicarilla Apache 47-7 JV

Section 13, Township 23 North, Range 4 West

Rio Arriba County, New Mexico

## DEVIATION RECORD

DATE	DEPTH	DEVIATION
9/28/83	228'	3/4°
9/29/83	727 <b>'</b>	1/2°
J/ 2J/ 03	1253'	3/4°
9/30/83	1838'	1°
J/ 30/ 03	2673'	1°
10/01/83	3093'	3/4°
10/01/03	3630'	3/4°
10/02/83	4214'	3/4°
10/02/03	4624'	3/4°
10/04/83	5234'	3/4°
10/05/83	5725'	3/4°
10/06/83	6216'	3/4°
10/07/83	6694'	1°
10/08/83	7193'	1°
10/00/03	7610'	1/4°

ARAPAHOE DRILLING CO., INC.

Schalk. President

> STATE OF NEW MEXICO COUNTY OF BERNALILLO

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

OFFICIAL SEAL LOIS CUNNINGHAM

NOTARY PUBLIC - NEW MEXICO Notary Bond Filed with Secretary of State

My Commission Expires: