ARAPAHOE DRILLING CO., INC.

P. O. BOX 26687

ALBUQUERQUE, NEW MEXICO 87125

STEVE SCHALK PRESIDENT

June 30, 1983

Jicarilla 47-4 JV Section 11, Township 23 North, Range 4 West Rio Arriba County, New Mexico

DEVIATION RECORD

DATE	FOOTAGE	DEVIATION
6/02/83	217'	3/4°
6/03/83	518'	1/2°
6/03/83	1533'	1-1/4°
6/04/83	2028 '	2°
6/04/83	2527 '	1/2°
6/04/83	2773 '	1/4°
6/05/83	3361'	1/4°
6/05/83	3574'	1/4°
6/06/83	4099 '	1/2°
6/07/83	4589'	1/2°
6/08/83	5145'	1/2°
6/09/83	5482'	3/4°
6/10/83	6005'	3/4°
6/11/83	6492'	3/4°
6/13/83	7141'	3/4°
6/13/83	7290'	1/2°
6/15/83	7650'	3/4°

ARAPAHOE DRILLING CO., INC.

Steve Schalk

President

OIL CON. DIV.

DIST. 3

STATE OF NEW MEXICO COUNTY OF BERNALILLO

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

OFFICIAL SEAL
ANGELA G. HOMAN
NOTARY PUBLIC - NEW MEXICO

My Commission Expires 9/24/85

Angela Homan Notary Public