

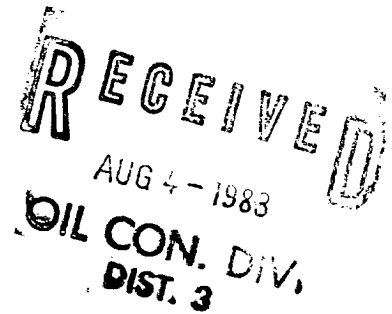
ARAPAHOE DRILLING CO., INC.

P. O. BOX 26687

ALBUQUERQUE, NEW MEXICO 87125

STEVE SCHALK
PRESIDENT

July 28, 1983

Jicarilla 70-18
Section 34, Township 24 North, Range 4 West
Rio Arriba County, New MexicoDEVIATION RECORD

DATE	DEPTH	DEVIATION
7/03/83	729'	1°
	1312'	1°
7/04/83	1867'	1-1/4°
	2391'	3/4°
	2637'	3/4°
7/05/83	3157'	3/4°
	3717'	3/4°
7/06/83	4243'	3/4°
7/07/83	4600'	1/2°
7/08/83	5201'	1/2°
7/09/83	5753'	1/2°
7/10/83	6247'	1/2°
7/11/83	6556'	1°
7/13/83	7184'	1°
7/14/83	7410'	1°

Arapahoe Drilling Co., Inc.

Steve Schalk
PresidentSTATE OF NEW MEXICO
COUNTY OF BERNALILLOSubscribed and sworn to before me, a Notary Public, this
29th day of July, 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: 3/17/87
Notary Public