

ARAPAHOE DRILLING CO., INC.

P. O. BOX 26687

ALBUQUERQUE, NEW MEXICO 87125

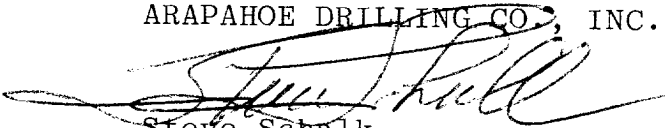
STEVE SCHALK
PRESIDENT**RECEIVED**
MAY 31 1983
OIL CON. DIV.]
DIST. 3

May 18, 1983

Jicarilla 71-20
NW/NE Sec. 10, Township 23 North, Range 4 West
Rio Arriba County, New MexicoDEVIATION RECORD

DATE	DEPTH	DEVIATION
4/30/83	220'	1/2°
5/01/83	742'	3/4°
	1237'	3/4°
5/02/83	1729'	3/4°
	2222'	1-1/2°
	2384'	1-1/2°
5/03/83	2880'	1-1/2°
	3483'	1-1/2°
5/04/83	4003'	1-1/2°
5/05/83	4561'	1-1/2°
5/06/83	5022'	1-1/2°
	5218'	1°
5/08/83	5723'	1°
5/09/83	6243'	1°
5/10/83	6716'	1/2°
5/13/83	7550'	1/2°

ARAPAHOE DRILLING CO., INC.


Steve Schalk
PresidentSTATE OF NEW MEXICO
COUNTY OF BERNALILLOSubscribed and sworn to before me, a Notary Public,
this 19th day of May, 1983, by Steve Schalk, President
of Arapahoe Drilling Co., Inc.
OFFICIAL SEAL
LOIS CUNNINGHAM
NOTARY PUBLIC - NEW MEXICO
My Commission Expires: 3/7/82
Notary Public