

ARAPAHOE DRILLING CO., INC.

P. O. BOX 26687

ALBUQUERQUE, NEW MEXICO 87125

STEVE SCHALK
PRESIDENT

July 18, 1984

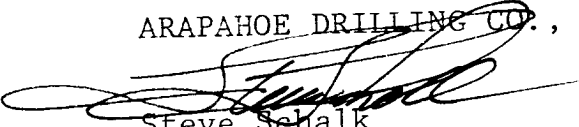
Operator: Chace Oil Co.

Jicarilla 70-17

Section 34, Township 24 North, Range 4 West
Rio Arriba County, New MexicoDEVIATION RECORD

DATE	DEPTH	DEVIATION
6/27/84	220'	1 1/2°
6/28/84	724'	3/4°
6/29/84	1407'	3/4°
	1897'	1°
	2424'	2 3/4°
6/30/84	2701'	2 1/2°
	2883'	2°
	3306'	2°
7/01/84	3829'	1 3/4°
7/02/84	4387'	1 1/2°
7/03/84	4946'	1 1/4°
	5405'	1 3/4°
7/04/84	5960'	1 1/2°
7/05/84	6485'	1 1/2°
7/07/84	7191'	1 1/2°
7/08/84	7425'	1 1/2°
7/09/84		

ARAPAHOE DRILLING CO., INC.


Steve Schalk
PresidentSTATE OF NEW MEXICO
COUNTY OF BERNALILLOSubscribed and sworn to before me, a Notary Public,
this 18th day of July, 1984, by Steve Schalk, President
of Arapahoe Drilling Co., Inc.

RECEIVED

JUL 31 1984

OIL CON. DIV.
DIST. 3OFFICIAL SEAL
LOIS CUNNINGHAMNOTARY PUBLIC - NEW MEXICO
Notary Bond Filed with Secretary of State
My Commission Expires: 3/21/87
Notary Public