

ARAPAHOE DRILLING CO., INC.

P. O. BOX 26687

ALBUQUERQUE, NEW MEXICO 87125

STEVE SCHALK
PRESIDENT

December 19, 1986

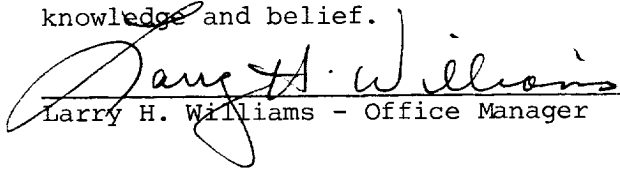
DEVIATION REPORT

Jicarilla Apache 47-45
Rio Arriba County, New Mexico

DEC 24 1986
CON. DIV.
DIST. 3

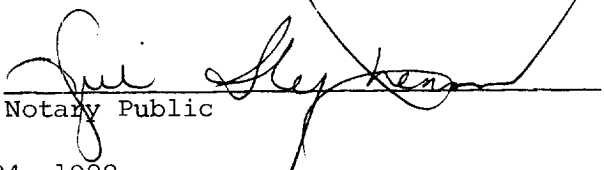
Date	Footage	Deviation
11-18-86	231'	3/8°
11-19-86	753'	1/2°
11-20-86	1,280'	miss run
	1,310'	1/4°
	1,777'	1/4°
	2,245'	1/4°
11-21-86	2,740'	3/4°
	2,906'	1/4°
11-22-86	3,433'	1/2°
	3,964'	1/2°
11-23-86	4,496'	3/4°
11-24-86	4,794'	1/2°
11-25-86	5,428'	1°
11-26-86	5,945'	1 1/4°
11-28-86	6,489'	1°
11-29-86	7,018'	1 3/4°
12-1-86	7,594'	3/4°

I CERTIFY this report to be true and complete to the best of my knowledge and belief.


Larry H. Williams - Office Manager

December 19, 1986
Date

SUBSCRIBED and SWORN to before me, a notary public, this 19th day of December, 1986, by Larry H. Williams, Office Manager for Arapahoe Drilling Co., Inc..


Notary Public

My Commission Expires: October 24, 1988