

ARAPAHOE DRILLING CO., INC.

P. O. BOX 26687

ALBUQUERQUE, NEW MEXICO 87125

STEVE SCHALK
PRESIDENT

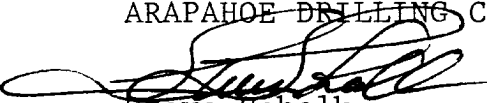
December 22, 1983

Operator: AAA Operating Co.

Well: Federal "M" Well 1A
Section 3, Township 27 North, Range 8 West
San Juan County, New MexicoDEVIATION RECORD

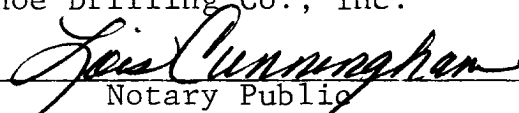
DATE	DEPTH	DEVIATION
12/07/83	105'	1/4°
	259'	3/4°
12/08/83	762'	1°
12/09/83	1224'	1°
	1778'	1°
	2118'	3/4°
12/10/83	2639'	3/4°
	3222'	3/4°
12/11/83	3375'	3/4°
12/12/83	3934'	3/4°
12/13/83	4489'	1°
12/14/83	4850'	1-1/2°

ARAPAHOE DRILLING CO., INC.


Steve Schalk
PresidentRECEIVED
DEC 22 1983STATE OF NEW MEXICO
COUNTY OF BERNALILLOSubscribed and sworn to before me, a Notary Public,
this 22ND day of December, 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: 3/7/87
Notary Public