

ARAPAHOE DRILLING CO.
P. O. BOX 26687
ALBUQUERQUE, NEW MEXICO 87125

JOHN E. SCHALK
MANAGING PARTNER

June 1, 1981

Gulf Oil Corporation
Apache Federal #11E
Section 8, Township 24 North, Range 5 West
Rio Arriba County, New Mexico

DEVIATION RECORD

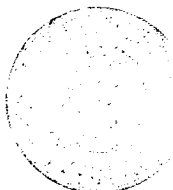
DATE	DEPTH	DEVIATION
4/10/81	530'	1°
4/11/81	1074'	1-1/2°
4/11/81	1599'	1-3/4°
4/11/81	1906'	3°
4/12/81	2127'	2-1/4°
4/12/81	2619'	1-1/2°
4/13/81	2836'	1°
4/13/81	3334'	1°
4/14/81	3826'	3/4°
4/15/81	4092'	1/2°
4/16/81	4661'	1/2°
4/17/81	5247'	1°
4/19/81	5680'	1°
4/21/81	6020'	1°
4/26/81	6798'	2°

Arapahoe Drilling Co.

John E. Schalk
Managing Partner

State of New Mexico
County of Bernalillo

Subscribed and sworn to this 8th day of June, 1981,
by John E. Schalk, Managing Partner of Arapahoe Drilling
Co.



OFFICIAL SEAL
LOIS CUNNINGHAM
NOTARY PUBLIC - NEW MEXICO
Notary Public and with Secretary of State
My Commission Expires: 3/7/83

Lois Cunningham
Notary Public