

ARAPAHOE DRILLING CO., INC.

P. O. BOX 26687

ALBUQUERQUE, NEW MEXICO 87125

STEVE SCHALK
PRESIDENT

September 28, 1984

Operator: Chace Oil Company

Special Contract
Jicarilla 47#11

Section 13, Township 23 North, Range 4 West
Rio Arriba County, New Mexico

DEVIATION RECORD

DATE	DEPTH	DEVIATION
9/06/84	723'	1/2°
9/07/84	1220'	3/4°
	1750'	1/4°
9/08/84	2304'	1/2°
	2890'	1/4°
9/09/84	3412'	1/2°
9/10/84	3935'	1/2°
	4493'	3/4°
9/11/84	4884'	3/4°
9/12/84	5450'	3/4°
9/14/84	5976'	3/4°
9/15/84	6384'	1°
9/17/84	6840'	1°
9/18/84	7268'	1°
9/20/84	7645'	1°

ARAPAHOE DRILLING CO., INC.

Steve Schalk
Steve Schalk
President

STATE OF NEW MEXICO
COUNTY OF BERNALILLO

Subscribed and sworn to before me, a Notary Public,
this 28th day of September, 1984, 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: 3/2/87

Lois Cunningham
Notary Public