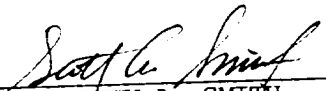


GRACE FEDERAL 21-1

The following are Deviation Surveys taken during the drilling of the


Grace Federal 21-1
NESW Sec 21, T24N, R7W
RIO ARriba COUNTY, NEW MEXICO

| | | | |
|---------|------|---|-------|
| 8/29/79 | 1/2° | @ | 860' |
| 8/30/79 | 3/4° | @ | 1362' |
| 8/31/79 | 1/4° | @ | 2470' |
| 9/01/79 | 1/4° | @ | 2800' |
| 9/02/79 | 1/2° | @ | 3313' |
| 9/04/79 | 1/2° | @ | 4381' |
| 9/06/79 | 1/2° | @ | 4727' |
| 9/07/79 | 1° | @ | 5300' |
| 9/08/79 | 1/2° | @ | 5775' |
| 9/09/79 | 1° | @ | 5988' |


SCOTTY A. SMITH
District Operations Manager
Southern Rockies
November 29, 1979

STATE OF COLORADO)
COUNTY OF DENVER)

The foregoing instrument was acknowledged before me this 5th
day of DECEMBER 1979. Witness my hand and official
seal.


NOTARY PUBLIC



Notary Public for Colorado, Commission Expires September 15, 1982