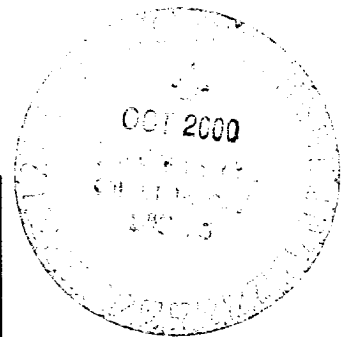




October 4, 2000

DEVIATION REPORT

Well Name: ROSA UNIT #168A
Location: B SEC 28 T31N R5W
County, State: RIO ARriba COUNTY, NEW MEXICO
Formation: BLANCO MESAVERDE



| DEVIATION | DEPTH |
|-----------|-------|
| 1/2° | 287' |
| 1° | 785' |
| 1° | 1287' |
| 1° | 1791' |
| 1° | 2281' |
| 1/2° | 2790' |
| 1/2° | 2881' |
| 1° | 3288' |
| 1/2° | 3780' |
| 1° | 4000' |
| 1 1/2° | 5878' |
| 1° | 6591' |

Tracy Ross
Tracy Ross
Production Analyst

State of Oklahoma)
) ss:
County of Tulsa)

The foregoing instrument was acknowledged before me this 4th day of October, 2000, by Tracy Ross.

Susan A. Tyler
Susan A. Tyler

My Commission Expires: 7-17-2001