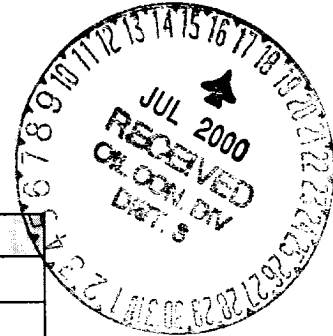




July 12, 2000

DEVIATION REPORT

Well Name: ROSA UNIT #166
Location: A SEC 30 T31N R5W
County, State: RIO ARriba COUNTY, NEW MEXICO
Formation: BLANCO MESAVERDE



DEVIATION	DEPTH
1/2°	305'
1°	783'
3/4°	1273'
3/4°	1775'
1°	2280'
3/4°	2475'
1/4°	3202'
1°	3712'
1°	4868'
1 1/4°	6188'

Tracy Ross
Tracy Ross
Production Analyst

State of Oklahoma)
) ss:
County of Tulsa)

The foregoing instrument was acknowledged before me this 12th day of July, 2000, by Tracy Ross.

Susan A. Tyler
Susan A. Tyler

My Commission Expires: 7-17-2001