



October 15, 1998

DEVIATION REPORT

Well Name: ROSA UNIT #160
Location: 9 SEC 25 T31N R6W
County, State: RIO ARriba COUNTY, NEW MEXICO
Formation: BLANCO MESAVERDE

DEVIATION	DEPTH
3/4°	123'
1°	1181'
1-1/2°	1681'
1-1/4°	2171'
1-1/4°	2681'
1°	3172'
1/2°	3703'
1°	3988'
1°	4270'
2-3/4°	4579'
2-1/4°	4669'
2-1/4°	4828'
2-1/4°	5079'
2-3/4°	5326'
3°	5573'

OIL & GAS
DIST. B

Susan Griguhn
Clerk, Production & Drilling

State of Oklahoma)
County of Tulsa) ss:

The foregoing instrument was acknowledged before me this 15th day of October 1998, by Susan Griguhn.

Shirley A. Davis
Shirley A. Davis

My Commission Expires: 10/10/2001