

September 9, 1998

DEVIATION REPORT

Well Name: ROSA UNIT #149A  
Location: F SEC 12 T31N R6W  
County, State: RIO ARriba COUNTY, NEW MEXICO  
Formation: BLANCO MESAVERDE

DEVIATION	DEPTH
1/4°	245'
1/4°	482'
3/4°	768'
1/2°	1264'
3/4°	1760'
1-1/2°	2260'
3/4°	2751'
1°	3245'
1/2°	3828'
1°	4299'
3/4°	4795'
1/2°	5293'
1-1/4°	5787'
1-3/4°	6000'

Susan Griguhn  
Clerk, Production & Drilling

State of Oklahoma                    )  
  )       ss:  
County of Tulsa                    )

The foregoing instrument was acknowledged before me this 9th day of September, 1998, by Susan Griguhn.

  
Shirley Davis

My Commission Expires: 10-10-2001

