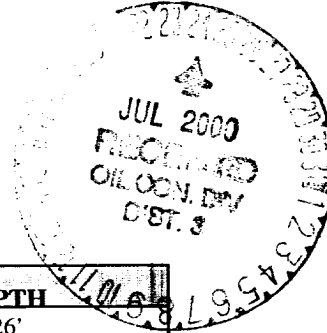




July 18, 2000

DEVIATION REPORT

Well Name: ROSA UNIT #182
Location: N SEC 18 T31N R5W
County, State: RIO ARriba COUNTY, NEW MEXICO
Formation: BLANCO MESAVERDE



DEVIATION	DEPTH
¾°	126'
¾°	284'
¾°	798'
¾°	1250'
1°	1759'
1°	2259'
1°	2726'
1°	3312'
1°	4185'
1°	4952'
1°	6089'

Tracy Ross
Tracy Ross
Production Analyst

State of Oklahoma)
) ss:
County of Tulsa)

The foregoing instrument was acknowledged before me this 18th day of July, 2000, by Tracy Ross.

Susan A. Tyler
Susan A. Tyler

My Commission Expires: July 17, 2000