



November 23, 1998

DEVIATION REPORT

Well Name: ROSA UNIT #147A
Location: H SEC 33 T31N R5W
County, State: RIO ARriba COUNTY, NEW MEXICO
Formation: BLANCO MESAVERDE

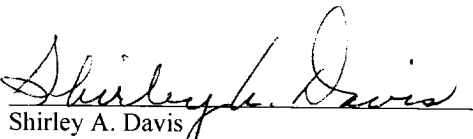
DEVIATION	DEPTH
3/4°	120'
1°	235'
3/4°	524'
3/4°	1017'
1°	1517'
1/2°	2015'
1/2°	2515'
1°	4139'
1-1/4°	4385'
1-1/2°	4938'
1°	5435'
1°	5838'
1-1/4°	6213'

RECEIVED
NOV 25 1998
OIL CON. DIV.
DIST. 3

Susan Griguhn
Clerk, Production & Drilling

State of Oklahoma)
) ss:
County of Tulsa)

The foregoing instrument was acknowledged before me this 23rd day of November 1998, by Susan Griguhn.


Shirley A. Davis

My Commission Expires: 10/10/2001