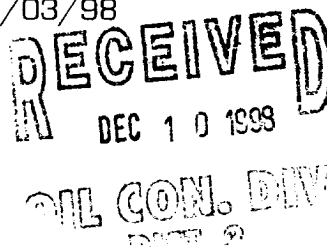




RIG 44

12/03/98

MALLON OIL CO.
P.O. BOX 2797
DURANGO, COLORADO 81302

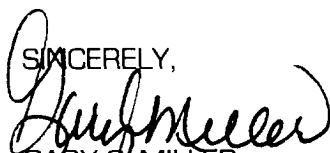


THIS LETTER IS TO CERTIFY THAT KEY ENERGY SERVICE DID RUN DEVIATION
SURVEYS AT THE LISTED DEPTH ON YOUR JICARILLA 459 17 #11 WELL IN SECTION
17, T30N R3W IN RIO ARriba COUNTY, NEW MEXICO.

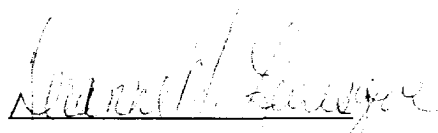
DEPTH	DEGREE DEVIATION	DEPTH	DEGREE DEVIATION
259	1/4°		
541	1/4°		
1041	3/4°		
1545	3/4°		
2044	1/2°		
2541	3/4°		
3065	1 1/2°		
3564	1 3/4°		
4095	1 1/4°		

TO THE BEST OF MY KNOWLEDGE, I SWEAR THIS INFORMATION TO BE TRUE.

SINCERELY,


GARY C. MILLER
ASST. DRILLING SUPT.

NOTARY PUBLIC


MY COMMISSION EXPIRES 1-30-02