



Artesia Fishing Tool Co., Inc.

Oil Well Drilling Contractors

PO Box 1370
505/746-6651

Artesia, NM 88211-1370
746-3518 fax 748-2205

July 25, 1997

Mack Energy Corporation
PO Drawer 960
Artesia, NM 88211-0960

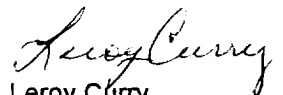
RE: McIntyre A Federal 12
990' FSL & 660' FEL
Sec. 20, T17S, R30E
Eddy County, New Mexico

Gentlemen:

The following is a Deviation Survey for the above captioned well.

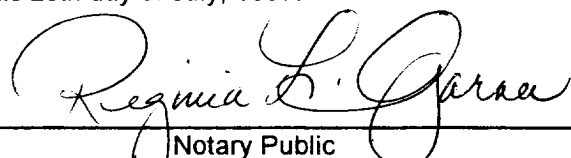
DEPTH	DEVIATION	DEPTH	DEVIATION
460'	1	2937'	2
707'	1	3458'	2 1/4
948	1 1/2	3958'	2
1197'	1 3/4	4493'	2
1445'	1	4949'	1 3/4
1944'	1 3/4	5176'	1 1/2
2435'	1 1/4		

Very truly yours,

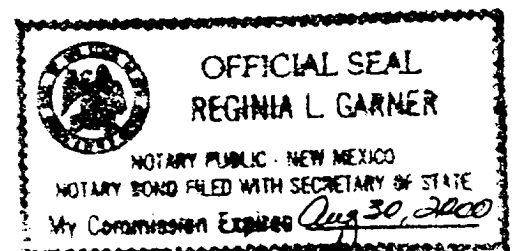

Leroy Curry
Drilling Superintendent

STATE OF NEW MEXICO }
COUNTY OF EDDY }

The foregoing was acknowledged before me
this 25th day of July, 1997.



Notary Public



Serving Southeast New Mexico and West Texas Since 1974