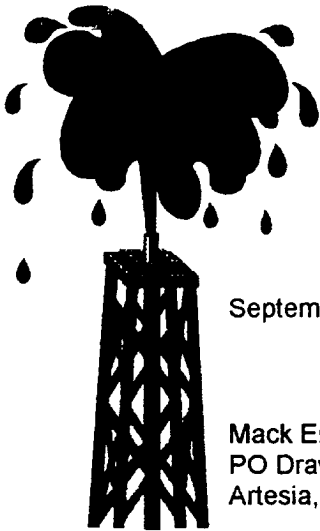




Artesia Fishing Tool Co., Inc.

Oil Well Drilling Contractors
PO Box 1370 Artesia, NM 88211-1370
505/746-6651 746-3518 fax 748-2205

September 3, 1997

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

RE: Pinon Federal #1
1750' FSL & 990' FEL
Sec. 22, T17S, R29E
Eddy County, New Mexico

Gentlemen:

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

DEPTH	DEVIATION	DEPTH	DEVIATION
317'	1	3611'	1
536'	1/2	4114'	1
834	1 1/2	4634'	1
1055'	1/2	5133	1 1/4
1435'	1	5619'	1 3/4
1956'	1/2	5770'	1/2
2447'	3/4	6269'	3/4
2644'	1/2	6439'	1/2
3114'	1		

Very truly yours,

Eddie C. LaRue
Vice President

STATE OF NEW MEXICO }
COUNTY OF EDDY }

The foregoing was acknowledged before me
this 3rd day of September, 1997.

Notary Public