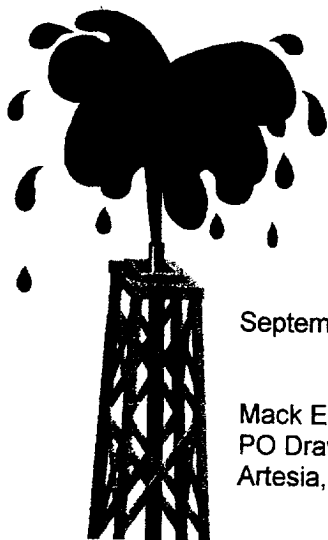




Artesia Fishing Tool Co., Inc.

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

September 24, 2002

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

RE: G. C. Federal #4
1775' FSL & 2310' FWL
Sec. 19, T17S, R32E
Lea County, New Mexico

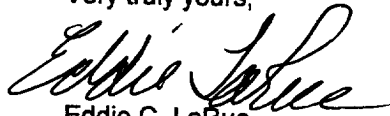
Unit K
30-025-35935

Gentlemen:

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

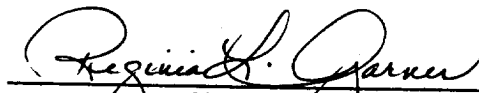
DEPTH	DEVIATION	DEPTH	DEVIATION
300'	3/4°	3021'	2°
646'	1 1/4°	3510'	1 1/2°
903'	1 1/2°	3952'	3/4°
1343'	1°	4398'	1°
1781'	1 1/4°	4896'	1°
2119'	1 1/4°	5393'	1°
2557'	1 3/4°	5836'	1°
		6280'	1 1/4°

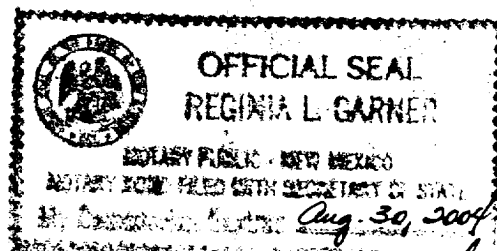
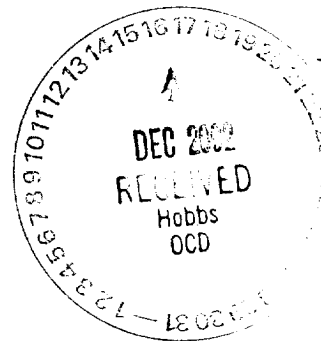
Very truly yours,


Eddie C. LaRue
Vice President

STATE OF NEW MEXICO
COUNTY OF EDDY

The foregoing was acknowledged before me
this 24th day of September, 2002.


Regina L. Garner
Notary Public



02-1178

Serving Southeast New Mexico and West Texas Since 1974