

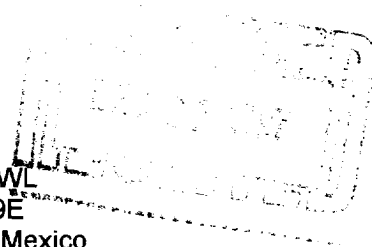
Artesia Fishing Tool Co., Inc.

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

December 30, 1997

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

RE: State S 19 #7
330' FSL & 1242 FWL
Sec. 19, T17S, R29E
Eddy County, New Mexico



Gentlemen:

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

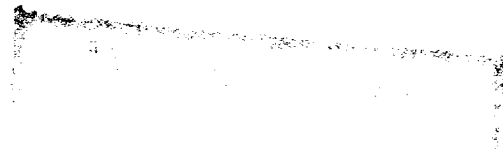
DEPTH	DEVIATION	DEPTH	DEVIATION
348'	1	2614'	1 1/4
622'	1 1/4	3108'	1 1/4
1037	1	3605'	1 1/4
1497'	1	4102	1 1/4
1990'	1	4270'	1/4

Very truly yours,

Eddie C. LaRue
Vice President

STATE OF NEW MEXICO }
COUNTY OF EDDY }

The foregoing was acknowledged before me
this 30th day of December, 1997.

Notary Public

Aug. 30, 2000

