Artesia Fishing Tool Co., Inc.

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

July 10, 1997

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

> RE: McIntyre E Federal #4 990' FSL & 2310' FWL 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' 505' 1003' 1503' 1987' 2119' 2331' 2430' 2491' 2553' | 1/4 1/4 1 3/4 1 3/4 2 2 2 1/4 2 1/4 2 1/4 2 1/2 | 2714' 2777' 2870' 3057' 3180' 3491' 3825' 4080' 4599' 5218' | 2 1/2 2 1/2 2 1/4 2 1/4 2 1/4 2 1/4 2 1/2 2 1/2 2 2 1/2 |
| 2616' | 2 1/2 | 5210 | 2 1/2 |

Very truly yours,

Eddie C. LaRue Vice President

STATE OF NEW MEXICO COUNTY OF EDDY

The foregoing was acknowledged before me this 10th day of July, 1997.

arner Notary Public



Serving Southeast New Mexico and West Texas Since 1974

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RECEIVER MR 19 38