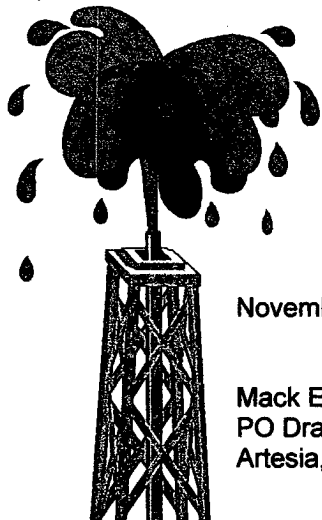


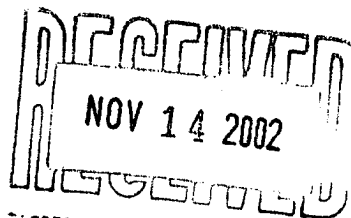


Artesia Fishing Tool Co., Inc.

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

November 12, 2002

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



RE: Sapphire State #1 *Chart L*
2310' FSL & 330' FWL 30-025-35979
Sec. 11, T23S, R36E
Lea County, New Mexico

Gentlemen:

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

DEPTH	DEVIATION	DEPTH	DEVIATION
327'	3/4°	3231'	1 3/4°
555'	3/4°	3319'	1 1/2°
741'	3/4°	3478'	1 1/4°
1238'	1°	3633'	1 1/4°
2107'	1 1/2°	4128'	1°
2451'	3°	4443'	3/4°
2604'	4°	4942'	1°
2665'	4°	5436'	1/4°
2728'	4°	5931'	1°
2793'	3 3/4°	6401'	3/4°
2916'	2 1/2°	6868'	1°
2977'	2 1/2°	7198'	1/2°
3038'	2 1/2°	7669'	3/4°
3106'	2 1/2°	8110'	3/4°
3180'	2°		

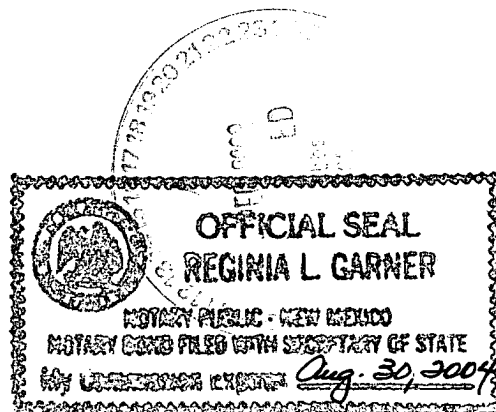
Very truly yours,

Eddie C. LaRue
Vice President

STATE OF NEW MEXICO
COUNTY OF EDDY

The foregoing was acknowledged before me
this 12th day of November, 2002.

Notary Public



02-1183

Serving Southeast New Mexico and West Texas Since 1974