



Artesia Fishing Tool Co., Inc.

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

March 19, 2003

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

30-025-36103

RE: Sapphire State #4 Unit F
1650' FNL & 1650' FWL
Sec. 11, T23S, R36E
Lea County, New Mexico

Gentlemen:

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

DEPTH	DEVIATION	DEPTH	DEVIATION
204'	1/4°	3225'	1 3/4°
319'	1/2°	3346'	1°
539'	1°	3470'	1°
589'	1/2°	3700'	1/2°
744'	1/2°	4004'	1°
929'	1 1/4°	4868'	1 1/2°
1176'	3/4°	5120'	1 1/4°
1422'	1/2°	5427'	1 1/4°
1671'	1 1/2°	5642'	1°
1945'	1 3/4°	5884'	1°
2195'	2 3/4°	6007'	1 1/4°
2475'	1 3/4°	6484'	1 1/2°
2731'	2 1/4°	6720'	1 3/4°
2853'	2°	7162'	1 1/2°
3100'	1 1/2°	7601'	1 1/4°
		8030'	1 1/4°

Very truly yours,

Eddie C. LaRue
Vice President

STATE OF NEW MEXICO }
COUNTY OF EDDY }

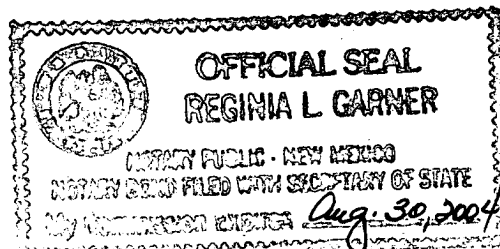
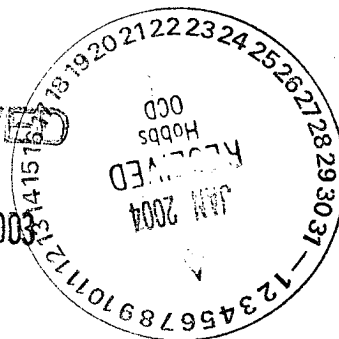
The foregoing was acknowledged before me
this 19th day of March, 2003.

Notary Public

03-1204

RECEIVED

MAR 20 2003



Serving Southeast New Mexico and West Texas Since 1974