

L & M DRILLING, INC.

OIL WELL DRILLING CONTRACTORS
PO BOX 1370 ARTESIA, NEW MEXICO 88211-1370
(505) 746-4405 746-3518 748-2205

August 7, 2003

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

RE: Panther Federal #1
1650' FSL & 330' FWL
Sec. 31, T17S, R32E
Eddy County, New Mexico

Unit L
30-025-36307

Gentlemen:

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

DEPTH	DEVIATION	DEPTH	DEVIATION	DEPTH	DEVIATION
249'	1/2°	2908'	2°	4366'	3 1/2°
495'	3/4°	3035'	2°	4457'	3 1/4°
703'	3/4°	3190'	2°	4584'	3 1/4°
797'	2°	3315'	2 1/4°	4707'	3 1/4°
986'	2°	3407'	2 1/2°	4864'	3°
1173'	2°	3502'	2 1/2°	4984'	3 1/4°
1357'	1°	3667'	2 1/2°	5169'	3 1/2°
1573'	1 1/4°	3682'	2 1/2°	5221'	3 1/4°
1940'	1°	3866'	3°	5387'	3°
2101'	1 1/4°	3960'	3 1/4°	5635'	3 1/4°
2271'	3/4°	4115'	3 1/2°	5976'	3°
2507'	1 1/4°	4177'	3 1/2°	6010'	3°
2755'	2°	4272'	3 1/4°		

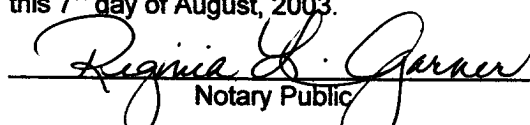
Very truly yours,



Eddie C. LaRue
Vice President

STATE OF NEW MEXICO }
COUNTY OF EDDY }

The foregoing was acknowledged before me
this 7th day of August, 2003.


Notary Public

