



**DRILLING CO., INC. — OIL WELL DRILLING CONTRACTORS**

KEN REYNOLDS—PRESIDENT  
ARNIE NEWKIRK—VICE-PRESIDENT

P. O. Box 1498 ROSWELL, NEW MEXICO 88202-1498  
505/623-5070 505/746-2719  
ROSWELL, NM ARTESIA, NM

*Api # 3D-225-31790*

January 15, 1993

Read & Stevens, Inc.  
P.O. Box 1518  
Roswell, N.M. 88202

REF: Mark Federal #3 *Unit 8 3-2D-34*  
*33D'S & 1900'E*

Gentlemen:

The following is a Deviation Survey on the above referenced well located in Lea County, New Mexico.

486' - 3/4°  
872' - 3/4°  
1229' - 1°  
1590' - 1°  
2086' - 1 1/4°  
2549' - 1°

3046' - 1 3/4°  
3244' - 2°  
3338' - 2°  
3431' - 2°  
3557' - 1 3/4°  
3865' - 1 3/4°

4340' - 2°  
4813' - 2°  
4975' - 1 1/4°  
5297' - 1 1/4°  
5778' - 3/4°  
6095' - 3/4°  
6498' - 3/4°

Sincerely,

Gary Chappell  
Contracts manager

STATE OF NEW MEXICO }

COUNTY OF CHAVES )

The foregoing was acknowledged before me this 15th day of January 1993 by Gary Chappell.

MY COMMISSION EXPIRES

October 07, 1996

NOTARY PUBLIC