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KEN REYNOLDS-PRESIDENT  
GARY W. CHAPPELL-VICE PRESIDENT

DRILLING CO., INC. - OIL WELL DRILLING CONTRACTORS

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

December 19, 1997

Santa Fe Energy  
550 W. Texas, Suite 1330  
Midland, Texas 79701

RE: H.B. "10A" Federal #8

Gentlemen:

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

350' - $3/4^{\circ}$	2,768' - $1\ 1/2^{\circ}$	4,902' - $1^{\circ}$	7,341' - $1^{\circ}$
820' - $1^{\circ}$	2,934' - $1\ 1/2^{\circ}$	5,384' - $1\ 3/4^{\circ}$	7,687' - $1^{\circ}$
1,327' - $1\ 1/4^{\circ}$	3,428' - $1\ 3/4^{\circ}$	5,880' - $1\ 1/4^{\circ}$	8,214' - $1\ 3/4^{\circ}$
1,791' - $2^{\circ}$	3,933' - $1^{\circ}$	6,362' - $3/4^{\circ}$	
2,264' - $3/4^{\circ}$	4,406' - $1\ 1/4^{\circ}$	6,867' - $1/4^{\circ}$	

Sincerely,

*Gary W. Chappell*  
Gary W. Chappell  
Contracts Manager

STATE OF NEW MEXICO)  
COUNTY OF CHAVES )

The foregoing was acknowledged before me this 19th day of December 1997 by Gary W. Chappell.

MY COMMISSION EXPIRES

JUNE 20, 2000

*Deborah J. Elliott*

NOTARY PUBLIC

RECEIVED

FEB 12 '98

ROSWELL, NM