

WILLIAM R. SPEER  
CONSULTING GEOLOGIST  
Petroleum Club Plaza Bldg.  
Farmington, New Mexico 87401

P.O. BOX 255      PHONE 505-325-7789

Certified Professional Geologist # 1121  
Petroleum and Mineral Evaluation and Management

March 10, 1983

New Mexico Department of Minerals  
Oil and Gas Division  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

Attention: Mr. Frank Chavez

Re: Deviation Surveys  
Bolack Minerals Co. #320  
Canyon Largo Unit Gallup  
NW $\frac{1}{4}$ , S1, T24N-R6W, NMPM  
Rio Arriba Co., New Mexico

Dear Mr. Chavez,

The following deviation surveys were taken during the drilling  
of the above-cited well:

<u>DEPTH</u>	<u>DEVIATION</u>
226'	$\frac{1}{2}^{\circ}$
1590'	$1\frac{1}{2}^{\circ}$
2575'	$2^{\circ}$
4127'	$1^{\circ}$
6180'	$2\frac{1}{4}^{\circ}$

These deviations were taken during trips with a Totco deviation  
survey tool.

Very truly yours,



William R. Speer  
for BOLACK MINERALS CO.

Subscribed and sworn before me this 11th day of March, 1983



Betty J. Ferrick, Notary Public

My commission expires:

12-15-84

**RECEIVED**  
MAR 14 1983  
**OIL CON. DIV.**  
DIST. 3