

ARAPAHOE DRILLING CO., INC.

P. O. BOX 26687

ALBUQUERQUE, NEW MEXICO 87125

STEVE SCHALK
PRESIDENT

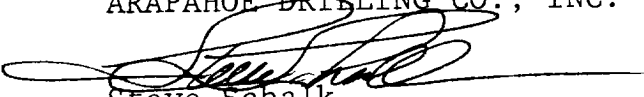
June 20, 1984

Operator: Chace Oil Co.

Jicarilla 71#17/
Section 3, Township 23 North, Range 4 West
Rio Arriba County, New MexicoDEVIATION RECORD

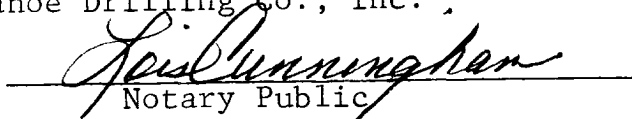
| DATE | DEPTH | DEVIATION |
|---------|-------|-----------|
| 5/30/84 | 360' | 1 1/2° |
| | 759' | 1 1/4° |
| 5/31/84 | 1162' | 2° |
| | 1346' | 1 1/2° |
| | 1809' | 1° |
| 6/01/84 | 2428' | 1 1/2° |
| | 2675' | 1 1/4° |
| | 3013' | 1 3/4° |
| 6/02/84 | 3198' | 2° |
| | 3382' | 1 3/4° |
| | 3690' | 1 1/4° |
| 6/03/84 | 3966' | 1° |
| | 4487' | 3/4° |
| 6/04/84 | 5012' | 3/4° |
| 6/05/84 | 5295' | 1 1/4° |
| 6/06/84 | 5746' | 1 1/4° |
| 6/07/84 | 6237' | 1 1/2° |
| 6/08/84 | 6492' | 1 1/2° |
| | 6667' | 1° |
| 6/11/84 | 7460' | 1 1/4° |

ARAPAHOE DRILLING CO., INC.


Steve Schalk
President

RECEIVED

JUN 26 1984

STATE OF NEW MEXICO
COUNTY OF BERNALILLOOIL CON. DEPT.
DIST. 3Subscribed and sworn to before me, a Notary Public,
this 20th day of June, 1984, by Steve Schalk,
President of Arapahoe Drilling Co., Inc.,
Notary PublicOFFICIAL SEAL
LOIS CUNNINGHAM
NOTARY PUBLIC - NEW MEXICO
Notary Bond Filed with Secretary of State
My Commission Expires: 3/7/87