



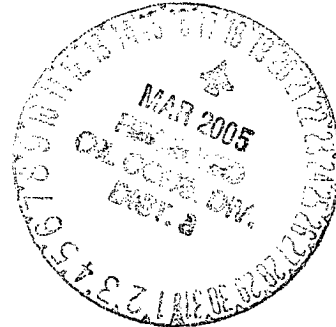
3100 La Plata Hwy. Farmington, NM 87401 (505) 564-3100
Fax (505) 564-3109

12/29/2004

Richardson Operating Company
4601 DTC Blvd, Suite #470
Denver, CO 80237

Re: Directional Survey

30-045-31981



Below is the directional survey for your well **Federal 31-23 #3**

828' @ 1°
1365' @ 1/2°
1567' @ 1/2°
1910' @ 3/4°
2483' @ 3/4°

Acknowledgment

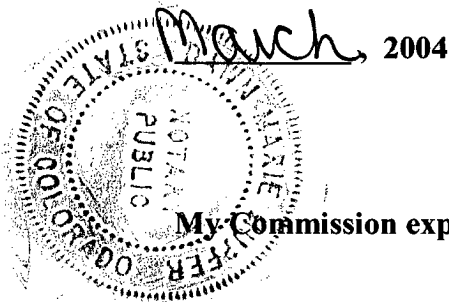
State of Colorado]

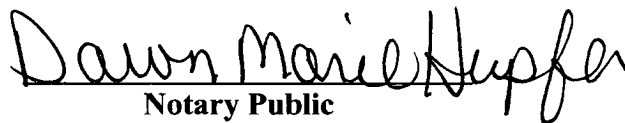
County of Arapahoe]

Signed and Acknowledged By:


Patti L. Davis, Manager

The foregoing instrument was acknowledged before me this 14th day of




Notary Public

My Commission expires: 10-31-06