



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

1/29/2005

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

Re: Directional Survey

30-045-32597



Below is the directional survey for your well Federal 32-13 #3Y

525' @ 0°
1025' @ 3/4°
1486' @ 1°
1617' @ 1°
2209' @ 0°
2578' @ 1°

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 March, 2005


Notary Public

My Commission expires: 10-31-06