

American Drilling Contractors, LLC

3100 LA PLATA HWY. · FARMINGTON, NEW MEXICO 87401 · (505)564-3100

Date: December 22, 2004

To: Richardson Operating
4601 DTC Blvd., Suite 470
Denver, CO 80237

Re: Directional Survey

30-045-31832

Below is the directional survey for your well **Federal 23-32 # 2**

544' @ 1/2°
1490' @ 1/4°
2242' @ 1/2°

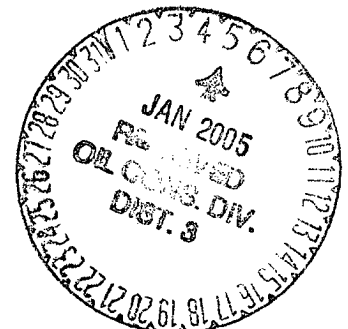
Acknowledgment

State of New Mexico]

County of San Juan]

Signed & Acknowledged By: _____

Billie Ferrell, Manager



The foregoing instrument was acknowledged before me this 22 day of December, 2004

Brenna Rothlisberger
Notary Public

My Commission expires: October 1, 2008

