

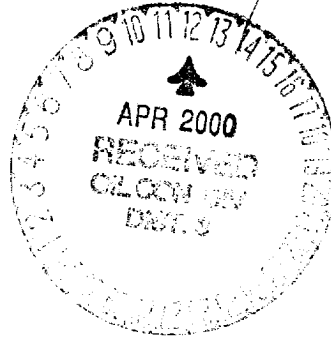
L & B Speed Drill, Inc.

James L. Ludwick

P.O. BOX 70 • FARMINGTON, NEW MEXICO 87499-0070 • (505) 325-1079

July 29, 1999

RICHARDSON OPERATING COMPANY
1700 LINCOLN ST., SUITE 1700
DENVER, CO 80203



Re: Directional Survey
Well 1 WF State 36
805' FSL & 820' FEL
San Juan County, NM

Below is the directional survey for your well 1 WF State 36. # 1

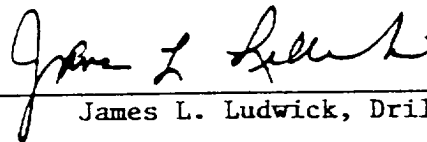
125' 1/2°
600' 3/4°
800' 3/4°

P-36-30N-15W
30-045-29947

ACKNOWLEDGEMENT

STATE OF NEW MEXICO]
COUNTY OF SAN JUAN]

SIGNED & ACKNOWLEDGE BY:



James L. Ludwick, Driller

The foregoing instrument was acknowledge before me this 29th day of July 1999.


NOTARY PUBLIC

My commission expires; 10/23/99