

AGENTIC AI

AI-Powered Entity Resolution at Scale

Mineral rights owner database – 1.69M records cleaned in 3 weeks

1.69M

RECORDS

125x

COST SAVINGS

99%+

VALIDATED

3 Wks

TIMELINE

What would cost **\$25,000+** in analyst time, AI completed for **~\$200** – with every decision documented for audit.

THE PROBLEMS

Two types of data corruption – neither solvable by rules alone

Collision IDs

Different people sharing ONE ID

OWNER ID: 817132

Sims Frances A Tyler, TX
Pendergast Finis H Tuscaloosa, AL
Police Billy Huntington Beach, CA
Palmer Ruth C Oberlin, OH

... + 666 more strangers on this ONE ID

⚠ Excluding one owner would exclude all 670

Unstable IDs

Same person with MULTIPLE IDs

MILLER PAULA (TEXAS)

Miller Paula ID 700576
Miller Paula ID 880625
Miller Paula ID 1281581
Miller Paula ID 1234990

Same owner recorded 4 different ways

⚠ Team could contact her 4 separate times

VALIDATION COST

50,000+ decisions to verify

Traditional Approach

Junior analysts review matches
~500 hours of manual work
Subjective, inconsistent decisions

\$25,000+

AI Agent Review

Parallel AI agents reason through each
Every decision documented
100% coverage, not spot-checks

~\$200

125x

COST REDUCTION



1,250,757

Unique owners properly identified



4,817

Exclude list owners matched (84%)



268+

Systematic errors found & fixed



100%

Decisions documented for audit