

## CODELL - NIOBRARA RECOMPLETION PROCEDURE

- 1) Isolate existing J-Sand perforations.
- 2) Perforate C/N Zones
- 3) Frac C/N
- 4) Clean up C/N & Produce.
- 5) Kill well and un-isolate J-Sand
- 6) Swab well in and return well to production from C/N - J-Sand, comingled.



RESERVOIR DATA  
Twenty-Six Wells\*

CODELL/NIOBRARA

J-SAND

Depth  
Reservoir Temperature (F)  
Initial Reservoir Pressure  
Permeability  
Porosity (Logs)  
Oil Gravity (°API)  
Gas Specific Gravity  
Water Production

7000' - 8000'  
200 - 250 degrees  
(approx) 3500 psi  
< 0.1 md  
10 - 16%  
40 - 45 degrees  
0.70 - 0.85  
0 - TSTM

7500' - 8500'  
185 - 250 degrees  
(approx) 2500 - 3000 psi  
< 0.1 md  
8 - 12%  
40 - 45 degrees  
.65 - .75  
0 - TSTM

\* Throndson #3-2, #2-2  
Dechant #1  
State Dechant #2-16  
Sharpe #2-10  
Carlson #1  
Nordstrom #5-4  
Nordstrom #6-6  
Nordstrom #1-9  
Nordstrom #3-9  
Strong #2-21  
Dodd #1-33  
Perrin GU #1  
Perrin GU #2-20  
Dawson #2-10  
Tyler #2-4  
Tyler #1-4

Buffalo Gardens #2-13  
Buffalo Gardens #1  
Erickson Birkle #1-25  
Greeley National Bank #2-31  
Brozovich #1-8  
Brozovich #2-8  
Herman #2-32  
Herman #1-32  
Anderson #2-33  
Anderson #1-33