

## CASE HISTORY

McKenzie County, Bakken

# IMERY'S Oilfield Solutions

## Light Weight Ceramics Proppants

### Why Specific Gravity Matters

#### Advantages Of LWC

- Increased volume due to lower density - more cubic feet for your investment
- Improved production due to increased fracture width
- Better transport leads to increased SRV - Stimulated Reservoir
- Less wear on pumps and production equipment - reduced cost

#### Background

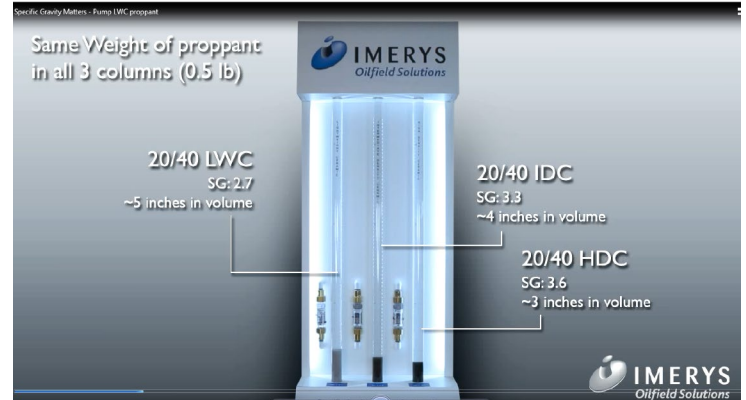
- 4 Operators
- 45 wells in 12 miles radius
- Average total vertical depth 10,820 - 11,000
- Average horizontal length 9,220 - 9,800
- Average proppant volume 3.5 MMlb - 4.0 MMlb

#### Results

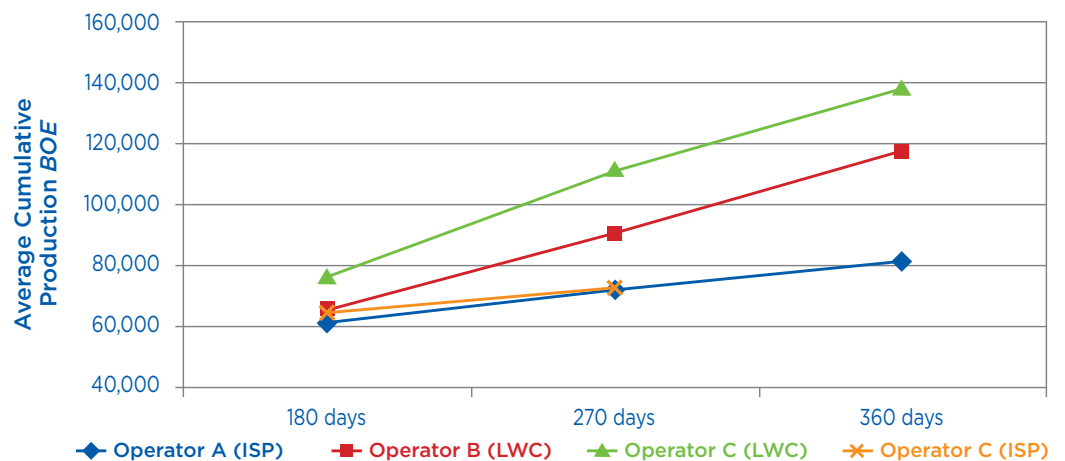
- LWC wells out performed ISP wells over a one year period
- On average the LWC wells produced +50% more oil in 30 days
- LWC improved both ROI and EUR when compared to ISP

Testing and selecting the proper type of proppant is essential for a successful fracture stimulation. Our LWC products are US-Manufactured from high quality South Georgia kaolin clay. A recent study of 45 wells and 4 operators in McKenzie County, ND compared wells with LWC and

ISP. The LWC wells clearly out-performed ISP wells on average 50% with the gap widening over time. The selected wells have similar average completion details including number of frac stages, lateral length and proppant volume. Not every deep formation calls for high density ceramic proppants. Additional strength gained with pumping Intermediate or High Density Proppants is not always an advantage since proppant density, hence fracture width has a major impact on your fractures effective conductivity.



#### LWC vs ISP Comparative Average Production



Overall, LWC wells performed significantly better than ISP wells, even with same operator and well completion, and the difference becomes more apparent with increase in production days.

*Superior Performance  
You Can Trust For  
Your Unconventional  
Challenges*

For More Information Contact:  
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