

# X-Tend<sup>®</sup> Acid Stimulation Service Increases Production

## HYDROCHLORIC ACID FLUID SYSTEM ALLOWS DEEPER PENETRATION OF LIVE ACID INTO THE FORMATION

MEXICO

### OVERVIEW AND CHALLENGE

X-Tend Acid Stimulation Service has been successfully in different applications, including matrix acidizing, acid fracturing, and wellbore cleanout, in both land and offshore applications. X-Tend acid has been used in BHT as high as 340°F (171°C).

Well A is an oil well producing from a HP/HT, naturally fractured carbonate formation (JSK) offshore Mexico. The well had a 5-5/8" OH completion (19,517 ft – 20, 439 ft, 862 ft Interval, BHT ~316°F, flow capacity of 112 mD-ft). Operator wanted to optimize production by reducing skin and mitigating water production at the same time.


### HALLIBURTON CUSTOM CHEMICALS SOLUTION

X-Tend Acid stimulation service was selected to optimize acid efficiency by allowing deeper penetration of live acid into the formation. Guidon<sup>®</sup> AGS was used as the acid diverter to help mitigate water production. The treatment was designed by pumping a solvent preflush to remove organic deposits (176 bbls), followed by pumping 380 bbls of X-Tend acid.

### RESULTS

After the treatment, Well A is producing at steady conditions with an oil producing increase of 1567 BOPD and watercut reduction of 16 percent.

Treatment	Choke Size (in)	Q <sub>T</sub> (BFOD)	Q <sub>o</sub> (BOPD)	WC (%)	PTP (PSI)
Before	1/2	9,590	7,480	22	5,903
After	1/2	9,583	9,047	5.6	6,372

**+1,500**  
  
**BOPD**  
 SUSTAINED OIL  
 PRODUCTION GAIN

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