

MATRIX STIMULATION OF CARBONATE RESERVOIR USING MAXOIL

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Treatment is designed to achieve well clean-up. Matrix stimulation of carbonate reservoir using MaxOIL is designed to maximize the oil production by removing all near wellbore damage and enhancing flow path of conductive fractures in hydrocarbon bearing zones limiting acid invasion in water producing zones. The fluids and operation sequence were designed to fulfill following main objectives: enhance production of hydrocarbons by removing skin and plugging in the formation matrix; reduce or remove any near wellbore damage which may cause an impairment to production; minimize the stimulation of water-bearing zones and divert acid into oil bearing formations; optimize pre-job preparation and thus simplify site operations and reduce overall job cost; conduct all operations safely and avoid harm to personnel, environment or equipment. Oil production increased from 5% to 60%. Water production decreased from 95% to 40%. Well production increased from ~1000 bopd to ~2500 bopd (150% increases).

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