

Striving for E3 for North Kuwait's Production Aspirations: Smart Re-Alignment

Hom Chetri¹ and Hamad Al-Zaabi¹

¹KOC, Ahmadi, Kuwait.

ABSTRACT

North Kuwait is an active asset with a multitude of stacked reservoirs of various sizes, challenges and level of maturity. In order to capitalize and optimize rich inventory of reservoirs vis-à-vis the vision to have about 30% jack-up in oil production & 20% enhancement in water injection volumes in next 3 years, maximizing Efficiency with matching Expertize to achieve Excellence (E3) became mandatory requirement. E3 has been attempted in all spheres of activities, starting with defining clear roles, responsibilities and accountability for delivery of targets/objectives. Emphasis on improvement in quality of studies & diagnostic analysis is being ensured aiming to add value to the field development decisions via focused approach. Dedicated concept for handling of all operational & day-to-day activities has resulted in minimizing production deferrals. Effective project management helped to avoid duplication of tasks so as to optimize resources. Harmonious work environment has been created to capitalize on the strength of each team and also to bridge the gaps impacting the system efficiency. Best practice workflow processes have been created by integrating technical inputs with respect to sub surface potential of all discovered reservoirs. Drilling plan & workover / backlog liquidation plan is constantly filtered based on duration & oil rate benefits, in addition to the degree of complexity in operations. Simultaneously, water injection has been ramped up by about 18% to supplement the reservoir energy in water flooded reservoirs. Enhanced Technical Services Agreement with the IOCs has brought the best global discipline experts to the doorsteps of the Asset, embedded with a solid mentoring & coaching program for local staff, so as to build skills & expertize. North Kuwait production has increased by about 16% as a result of multipronged actions via the implementation of E3 approach, resulting in synchronization of all activities during the last 15 months. The new way of managing the tasks has reflected the effective planning / implementation to bring the oil from the pores of the reservoir to the pipeline, maximizing the value of the subsurface & surface resources. The proposed paper is a case history of optimized portfolio management aiming at efficiency, expertise & excellence to have significant build up in production within a small time window.