



# AGOCO Shut-in Wells Re-activation & Production Enhancement – Libya

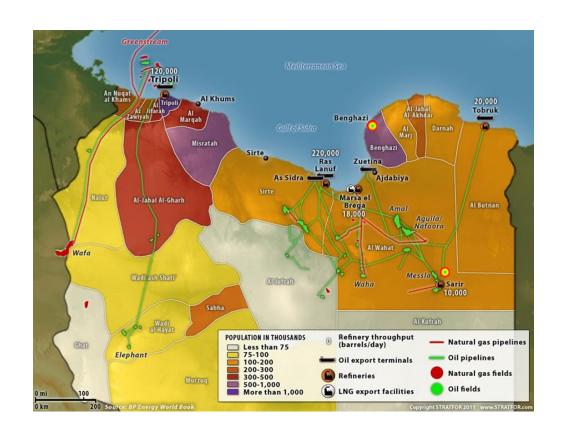
Schlumberger Digital Forum 2022, September 2022





## AGOCO Shut-in Wells (2019-2021) - Overview

- AGOCO Shut-In Wells Re-activation is part of AGOCO Production Enhancement Objectives which comes with study, analysis and engineering solutions to reactivate (+469) shut-in wells at different fields.
- Shut-in well reactivation campaign, included candidate selection, engineering solutions and execution started in July-2019 with Messla Field, and Then Sarir, Nafoora,...etc.
- An Exceptional Budget for Development & Drilling was approved during November-2019; To reactivate (100) Shut-In Wells (as PHASE-1) with the objectives to increase Oil Production to 48,622 BOPD (Expected Production).



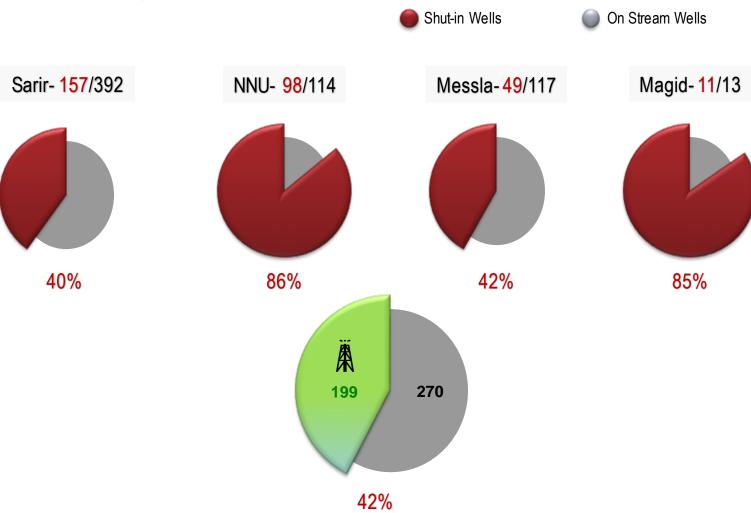




### AGOCO Shut-in Wells % By Field, As per 31-July-2019

#### Main reasons for Shut-in Wells:

- High Water Cut, Low fluid entry, Reservoir evaluation, No Flow to Surface, Pump change out, Initial Completion...etc. (Shut-in Wells requiring Workover, 199 wells out of 469)
- Power problems, Gas compressor, No Flow Lines/ Flow Lines Repair, Work at Station, Surface facility...,etc. (Shut-in Wells not requiring Workover, 270 wells out of 469)

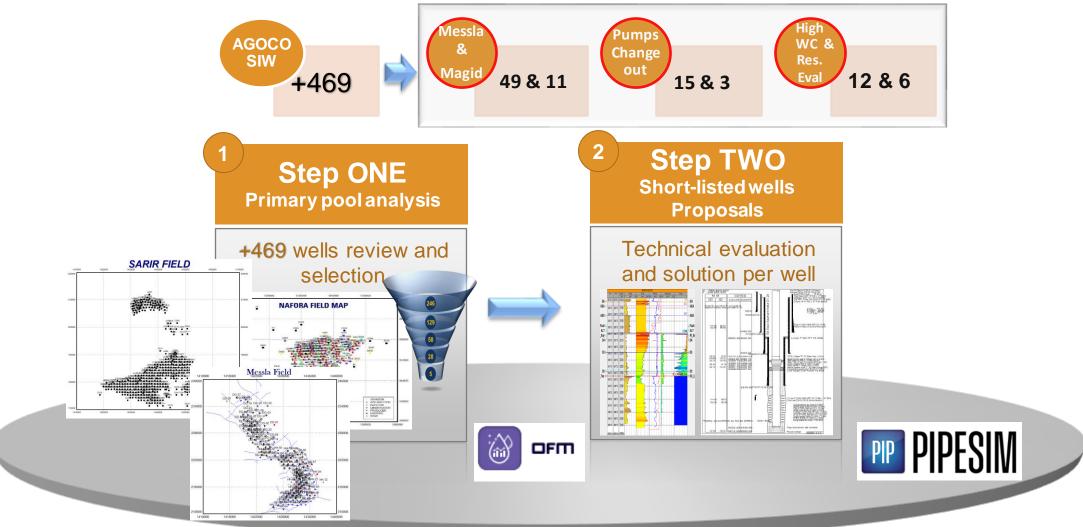




### Two Steps Analysis - Primary Pool Analysis



Funnel selection of candidates and candidate technical proposals Integration in Workover / Intervention





### Well By Well Methodology



### Well By Well Review Workflow







### AGOCO SIWs Project Timeline & Execution

- Well Screening





- Technical Proposals

- Execute 1st wells batch



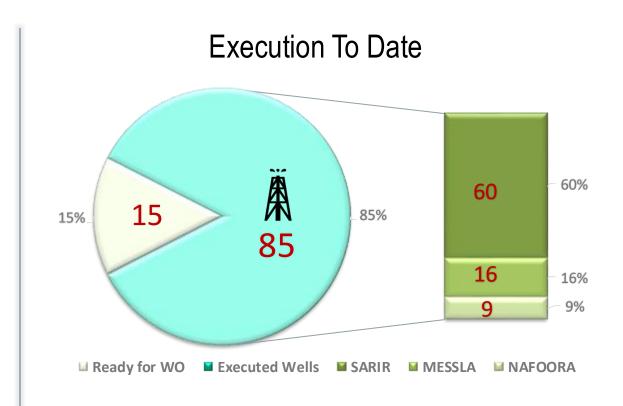


#### AGOCO Shut-in Wells Project - Accomplishments & Achievements YTD

AGOCO Shut-In Wells Project – (100 Wells with Exceptional Budget 2019-2020)

#### **Executive Summary**

- √ (100) Shut-in Wells Technical Proposals prepared and completed.
- ✓ (85) Wells already completed and operationally executed.
- √ (77) wells have been already tested after intervention
  and results into a significant increase of oil production







# AGOCO SHUT-IN WELLS PROJECT RESULTS (PHASE-1)



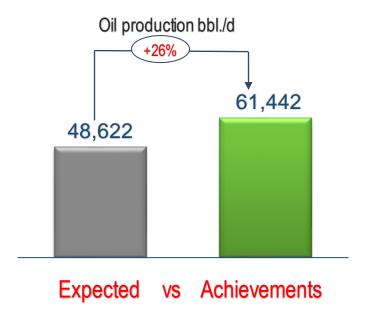


#### AGOCO Shut-in Wells Project - Results YTD

AGOCO Shut-In Wells (100 Wells ) Project – (Exceptional Budget Development-Drilling 2019-2020)

- ✓ Oil Production Incremental Reached 61,442 BOPD.
- ✓ Unwanted Water Production Reduced by 29,754 BWPD.
- √ 3 seconded junior engineers from AGOCO part of APS Team.
- √ 1<sup>st</sup> Time Experience for AGOCO Engineers in Fields
- AGOCO Shut-in-Wells is FIRST project with Integrated Services Management approach in (Libya) for Production Enhancement.

#### **Results To Date**

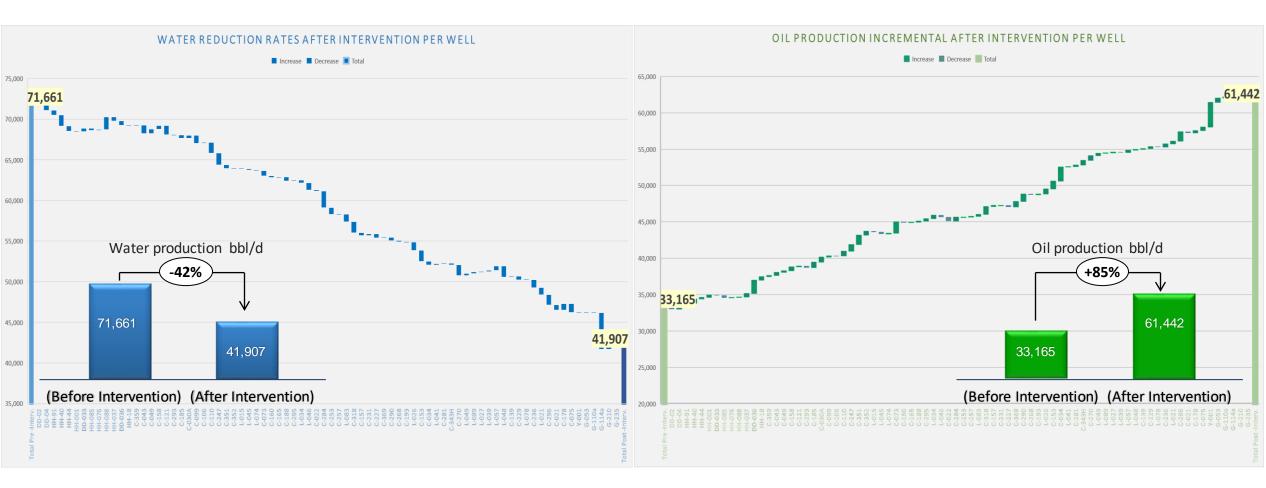


(Expected Production From 100 wells) (Actual Production)





## AGOCO Shut-in Wells Project - Well by Well Production Test Results



- Unwanted Water Production Reduced by 29,754 BWPD.
- Project Oil Production Reached 61,442 BOPD.





# Thank You