

Ministry Of Oil

OIL & GAS METERING

February, 2009

WHY METERING IS URGENTLY NEEDED

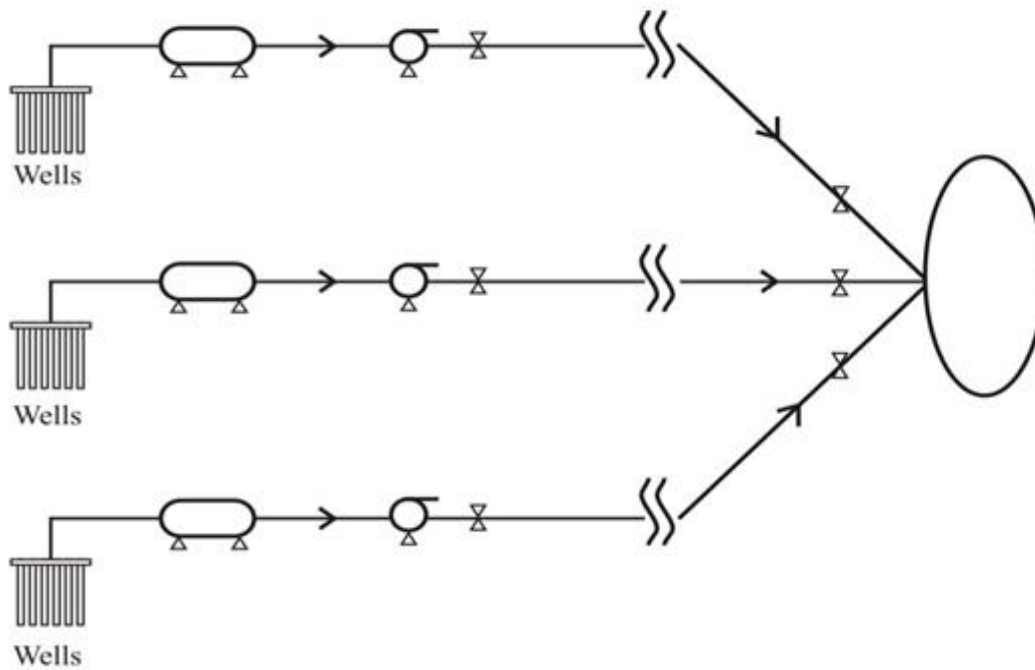
- In the past, metering of oil & gas in Iraq, was never an issue except at export points.
- It will control production and utilization of Oil & Gas.
- It will alleviate misuse of Crude Oil & Hydrocarbon Products.
- An essential requirement for IOC, IPP, and International Refinery & Petrochemical operators, working in Iraq.
- Verification of metering and dispute settlement requires an independent internationally recognized entity.

MINISTRY OF OIL EFFORTS IN METERING

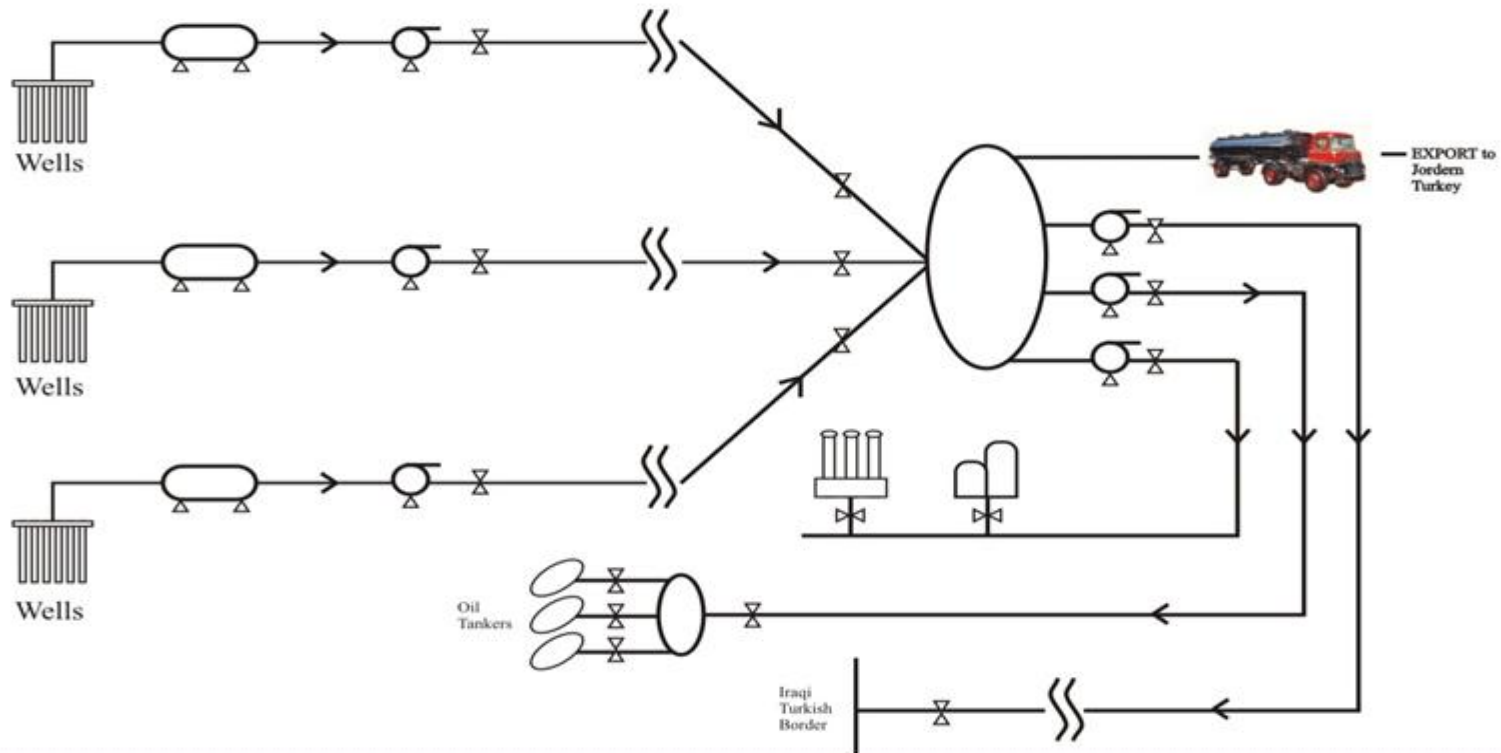
The Ministry of Oil has done the following;

- Commissioned BP & SHELL to prepare metering standards.
- Metering standards were prepared based on DTI standards.
- Established a metering department at Technical Directorate.
- Started the process to establish metering units at relevant Oil Companies.
- Accessed API & ASTM standards, tables, and procedures.
- Purchased modern oil meters.
- Concentrated efforts on metering & monitoring at;
 - Export terminals.
 - Border crossings on oil pipelines.
 - At tanker trucks loading stations

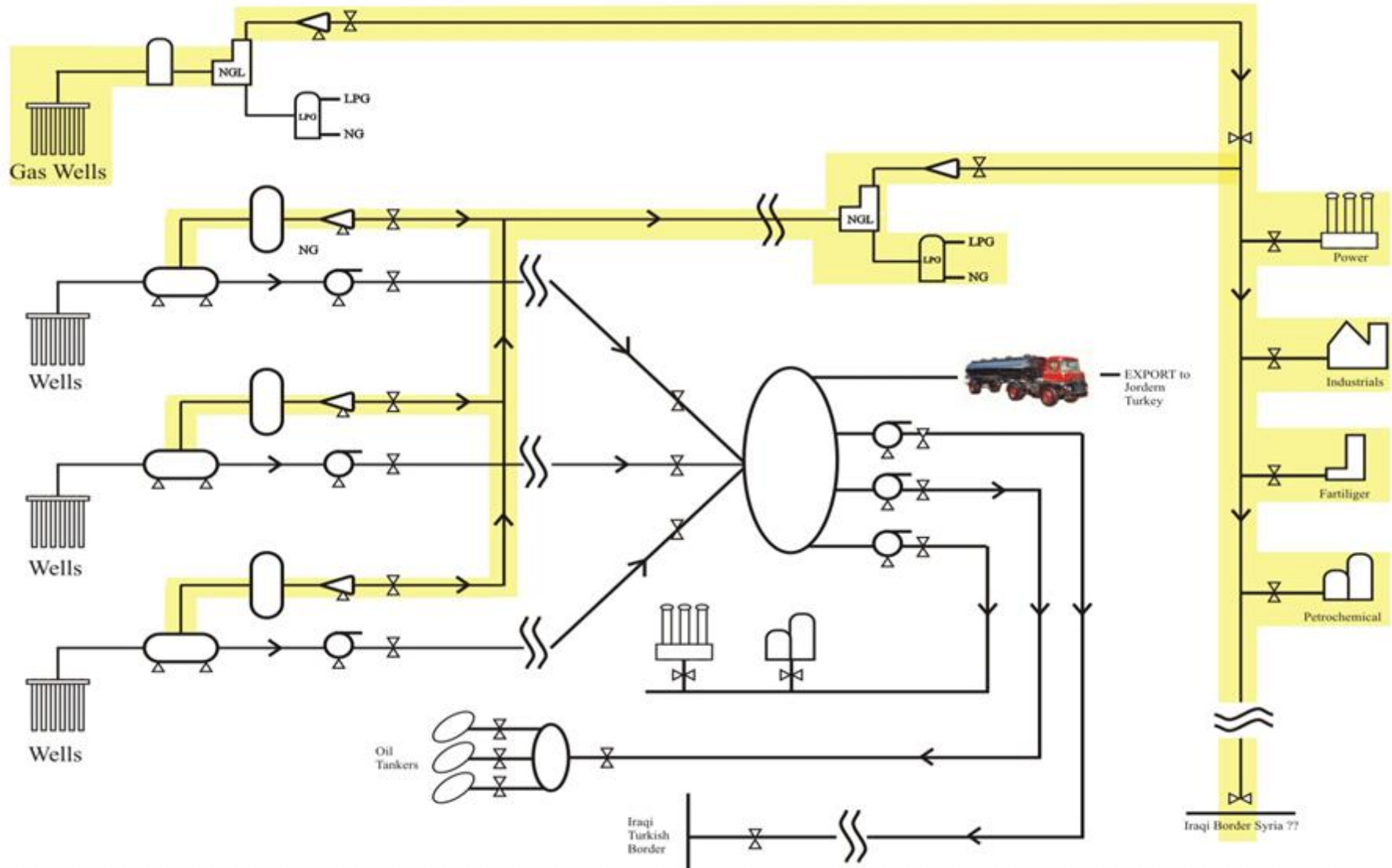
SCHEMATIC OIL FIELD METERING POINTS



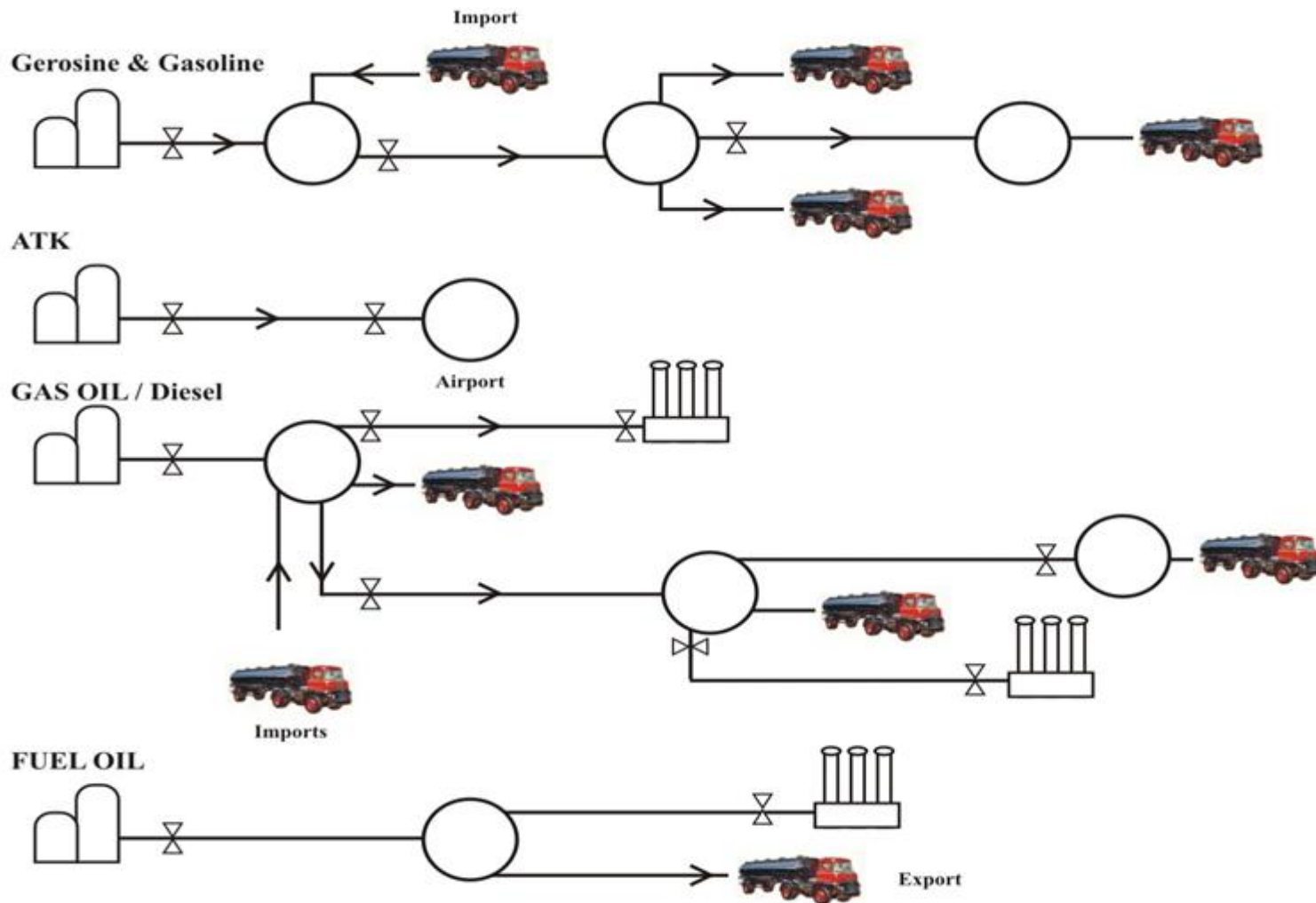
SCHEMATIC OIL FIELD METERING POINTS



SCHEMATIC OIL FIELD METERING POINTS



SCHEMATIC HC PRODUCTS METERING POINTS



VERIFICATION OF METERS

An independent entity is required to;

- Certify all meter operators.
- Carry out periodic verification of meters.
- Approve all meters used.
- Monitor, set out procedures, and train operators.

The entity has to be Internationally recognized so that;

- It can be the arbitrator in disputes.
- It would be acceptable by International companies operating in Iraq.

Central Organization for Standardization and Quality Control

COSQC

- COSQC, is part of the Ministry of Planning.
- It is responsible for all measurements, standards, and quality control across Iraq.
- It had been barred from interfering with oil & gas metering.
- It is currently recognized by the Ministry of Oil, as being the natural verification entity.
- It needs to establish a special unit for this purpose.
- It requires support in staffing, training, and setting procedures.
- COSQC, needs to partner with an internationally recognized organization to mentor it through the setting up period.