

# **Ministry Of Oil**

## **OIL & GAS METERING**

February, 2009

# WHY METERING IS URGENTLY NEEDED

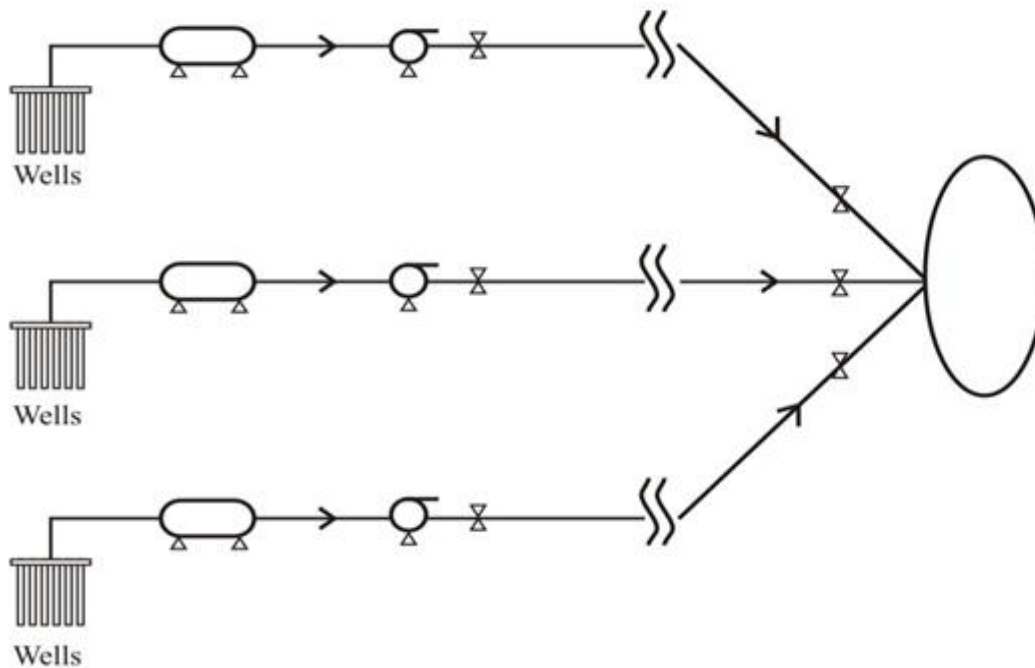
- In the past, metering of oil & gas in Iraq, was never an issue except at export points.
- It will control production and utilization of Oil & Gas.
- It will alleviate misuse of Crude Oil & Hydrocarbon Products.
- An essential requirement for IOC, IPP, and International Refinery & Petrochemical operators,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

# MINISTRY OF OIL EFFORTS IN METERING

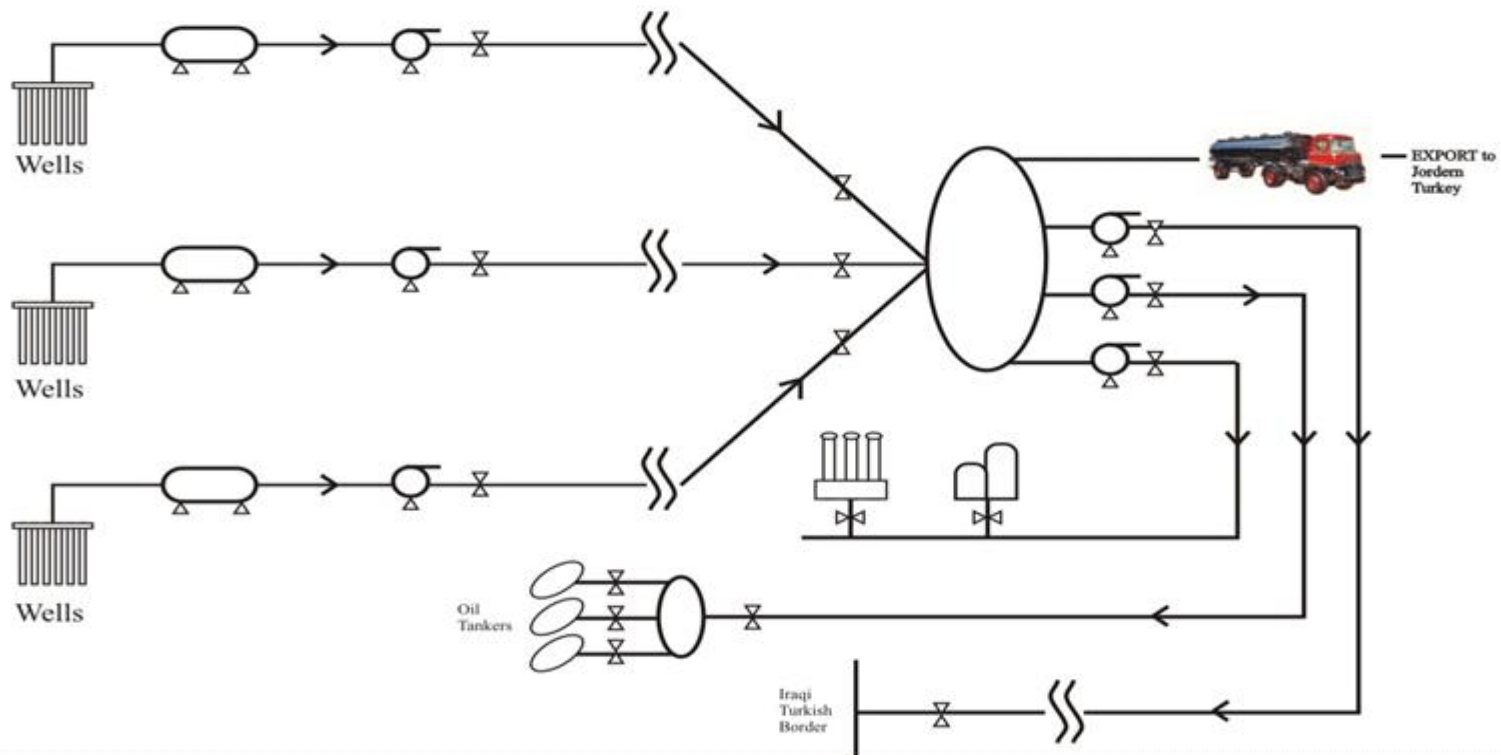
The Ministry of Oil has done the following;

- 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

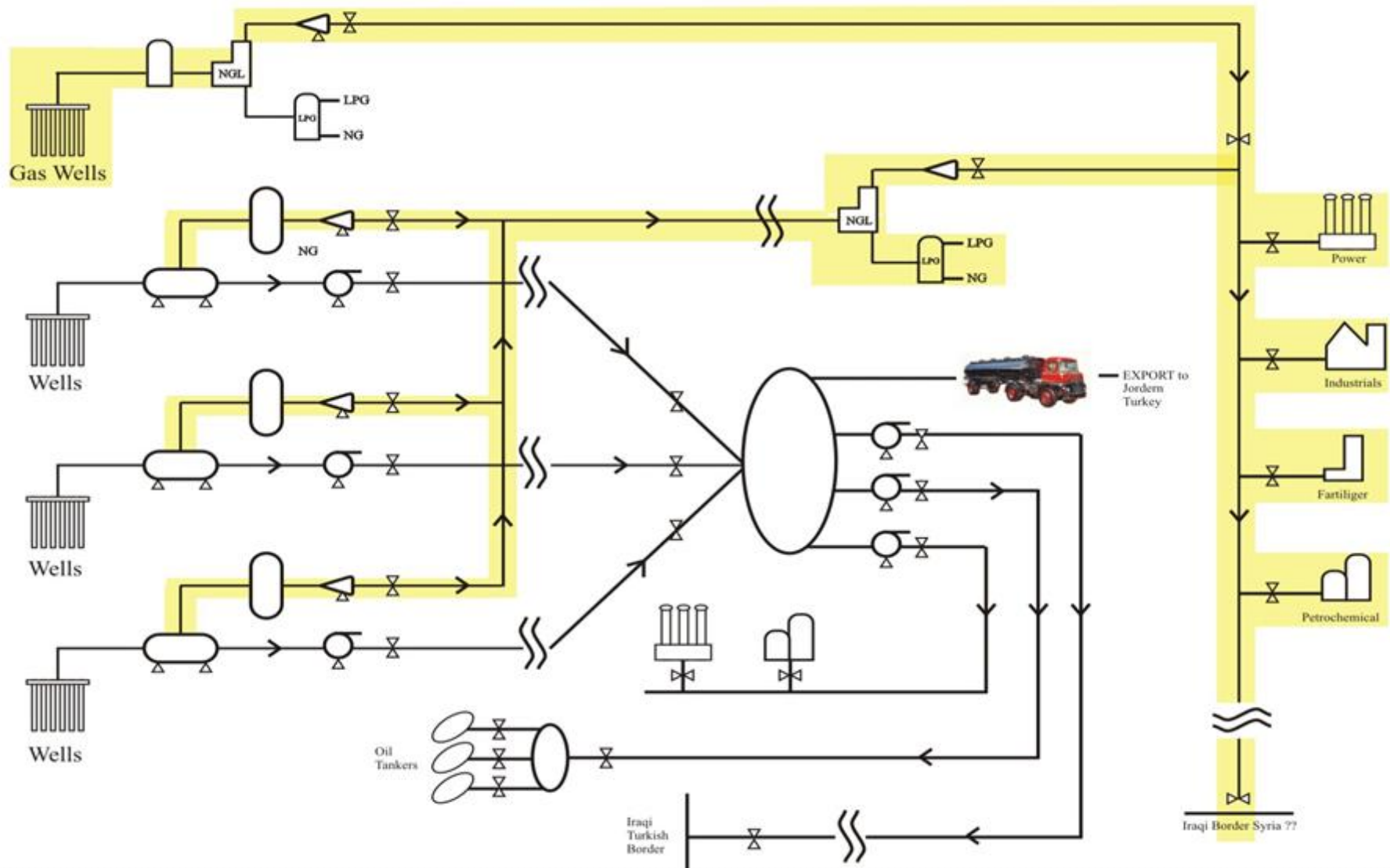
# SCHEMATIC OIL FIELD METERING POINTS



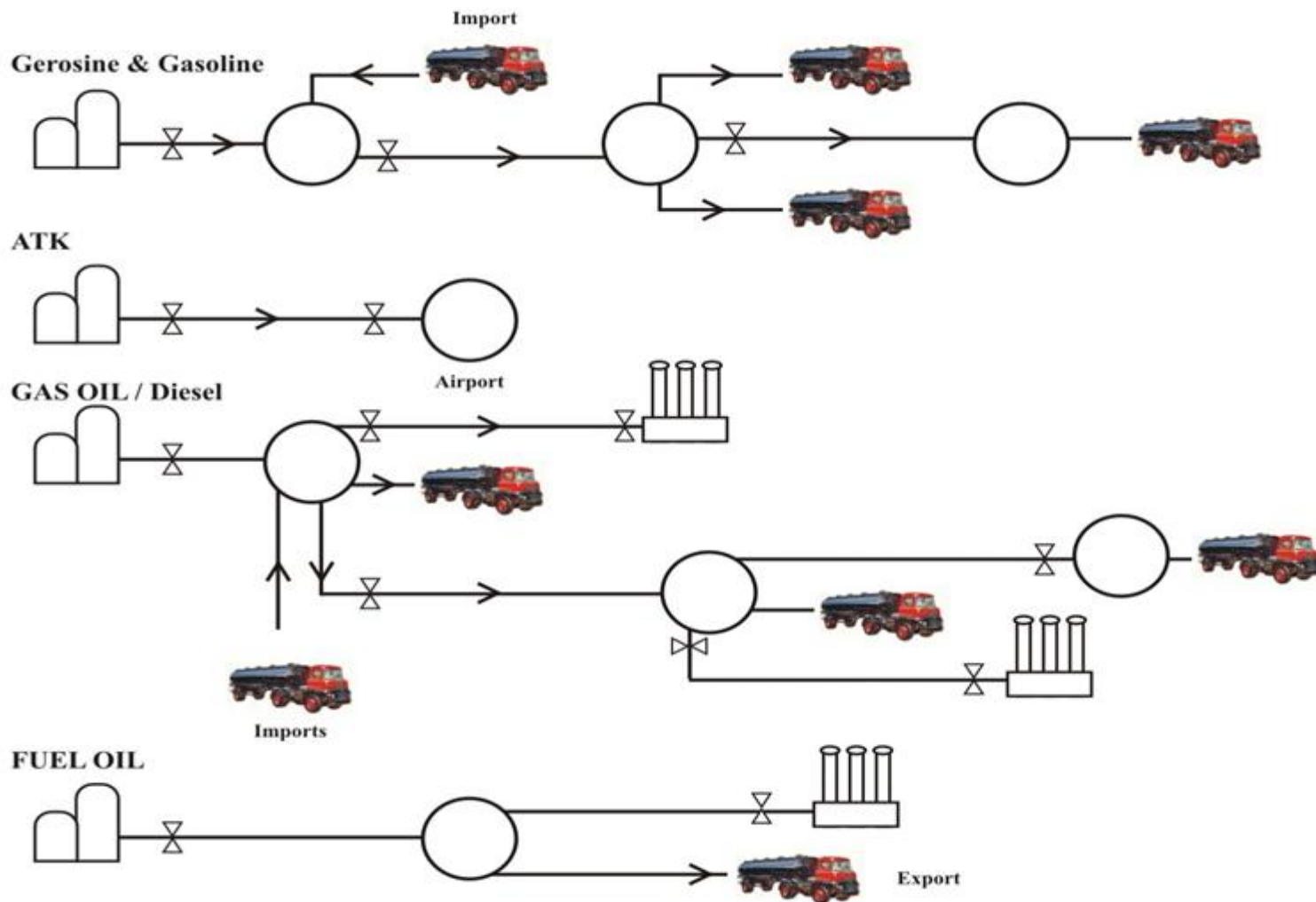
# SCHEMATIC OIL FIELD METERING POINTS



# 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.