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The Impact of the Project "Aditep" in the Salina del Istmo Basin, Southeast Mexico.

Abstract

The "ADITEP (Administration of Data and Technical Information of Exploration and Production) project has a principal strategy the integration and standardization of the data and technical information about the PEMEX Exploration and Production's oil wells, to register them in a corporate base of information to realize an adequate administration of that information and to provide at all time to the specialists the information and technical information necessary for the accomplishment of specific projects or of integral studies that contribute economic value to the company.

In the Activo Integral Cinco Presidentes we are sure of the need to rely on a base of technical information that it should provide to the engineers of geoscience area, the information and data needed of immediate form and that by means of the necessary tools it should help them to obtain a better and opportune decision making to maximize the economic value of the Activo Integral Cinco Presidentes.

In this work, the benefits obtained in the Activo Integral Cinco Presidentes will be shown for the project "Aditep" in the short term and the benefits waited will be shown in the medium term.

It will be mentioned the importance of relying on a technical file of dossiers that includes all the documents arranged chronologically, maps, records and nucleous. It will be checked the importance of keeping them organized and strategically located, also it will be commented since it has diminished the time of search of data and of technical information and likewise since it has been accomplished by the element 10 of the Siaspa (Administration of the Information).

Introduction

In Pemex (Petróleos Mexicanos) Production and Exploration the commitments of gas and oil production, and the need to increase the level of productivity of the company to reach highly competitive standards, do necessarily to rely on an efficient scheme that it should allow to administer the flow of information in the substantive processes of the business.

From its origins Petróleos Mexicanos, as all the petroleum companies, has faced the challenge that represents the managing and utilization of the enormous quantity of technical information that is generated in the activities of Exploration and Production of hydrocarbons. Across the years, and as response to the need to solve problems for specific disciplines, there have developed innumerable systems and databases that generally solve in

isolated from the managing of a type of information especially.

Among the principal goals of Pemex Production and Exploration business Plan 2002-2010 are:

- The implementation of the Technical Database during the period 2002-2004
- The links of technical and financial systems and that one of planning during the same period.

With these aims, in the Planning Sub bureau, the Strategy was defined @DITEP (Data Administration and Technical Information of Production and Exploration, which includes fundamentally the stages of:

- Knowledge of the state of advance of the different initiatives related to the administration of information in the main administrative offices of Pemex, Regions and Activos.
- Definition of the common Strategy and of the Plan of Work for the creation of the Corporate System of Administration of Information.
- Establishment of mechanisms of consultation and aggregation of technical and financial information to create the system of help in decisions making.

¿What is @DITEP?

It is the persons' organization, processes and infrastructure of technology of information that will take charge optimizing the administration of the technical information, and promoting a cultural change in the managing and utilization of the same ones.

Strategy

The Strategy @DITEP has as premises support and protect so much the investment realized in terms of the valuable Asset that the technical information means, that is like achieving and increasing in productivity by means of the efficient utilization of the information and generated information. The three lines of action of the strategy are related with; Data (Standards, Capture, Storage, Integration and Services of Administration). Infrastructure (Communications, Equipment and Technical Software) and Processes and Persons (Management of the Change)

Aims

- To integrate, storage and preserve PEMEX PRODUCTION AND EXPLORATION technical information with the intention that this one is administered efficiently using the unique model of managing of technical corporate information.
- To provide technical personnel and professionals dedicated to the location and production of hydrocarbons, an effective system for consultation, analysis and supply of information.
- To develop and to apply mechanisms of optimization, opportune and systematic, which lead to the company to an efficient and profitable growth as for technology of information and administration of information, refers.

Implantation

The implantation was carried out regarding with 12 Units BDT (base of technical information), located in Pemex Production and exploration installations where there are realized the operational activities and the services of administration of information.

In the Region North:

Burgos-Reynosa, Altamira-Tampico, Poza Rica-Misantla, and Veracruz-Papaloapan.

In the Region South:

Salina del Istmo-Cinco Presidentes, Macuspana-Chilapilla Colomo, Reforma-Comalcalco, Samaria-Luna, Muspac-Bellota Chinchorro-Jujo Tecominoacan.

In the Region Marina Noreste and South-east:

Ciudad del Carmen and Dos Bocas.

In this work one refers to the impact of the project generated in the UTDB (unit of technical database) Salina del Istmo-Cinco Presidentes.

The Salina del Istmo basin is located in the north part of Tehuantepec's isthmus, to the south-east of Veracruz state and part of the east of Chiapas's state. In the basin there exist big warehouses of salt that constitute geological structures named saline domes that give place to the formation of receptacles that contain hydrocarbons. All the deposits of the isthmus are associated with the saline domes. Geologically the fields of this zone come from sands of the diverse

formations of the mioceno. These fields are those of Cinco Presidentes, San Ramon, Sanchez Magallanes, Rodador, Blasillo, Ogarrio, among others.

The Activo Integral Cinco Presidentes is located in the Basin of Rio Tonalá. The river Tonalá of Chiapas is born in the limits of the states of Veracruz, Tabasco and Chiapas, in the mother mountains to 1000 m.s.n.m. (Meters on the sea level), practically in all its tour it serves as political natural division between the states of Veracruz and Tabasco, until Veracruz ends in the immediate bar to Tonalá's, belonging to the congregation of Agua Dulce City.

Realized activities

The first activity realized was the integration and classification of the technical file of process of well, which was organized in agreement to the logic of search of the information and in chronological order of agreement to the life of the well. It was created a technical file (Figure 1) All the processes, planes, seismic lines, geological reports, information of nucleuses, records of well and reports of integral studies were joined to this file.

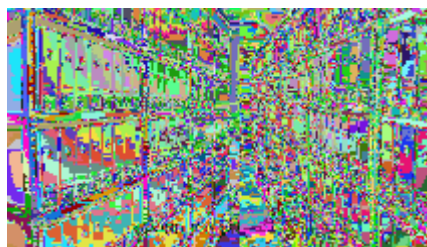


Figure1.- Technical file of information of wells

To fulfill with one of main strategies of project that it refers at the preservation

of the data, it digitized the technical file of well and it create a digital technical file, it which is sort and update in agreement to the established procedure, in this way the files are consulted digitally, avoiding so, to manipulate the document and in consequence it functions for preserving the information of the original document.

consult all the information related to every element that shapes the installation, for example, specification sheets of the equipments, location, procedures of installation, capacity of storage, programs of prevention of accidents, contingency plans and all the information relating to the geographical location of the installation.

Another important activity was to incorporate technical information of 1391 wells of the priority fields of this Activo into the corporative database, where the specialists can consult the technical information necessary for the development of their projects and allow them to make decisions opportunely (figure 2)

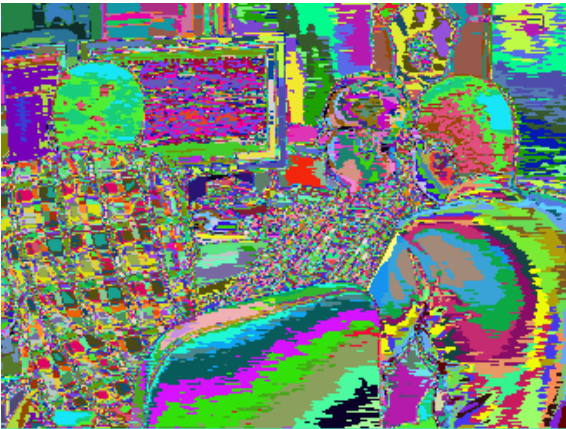


Figure 2.- Group of specialists consulting the database

In figure 3 a scheme is shown to represent the flow of the technical and administrative information and how every Coordination controls the process of the company's business. In the part of surface information it is realized the raising of four installations (batteries of separation and compressor stations) with the purpose of elaborating electronic models that allow user specialists to realize virtual tours among the installations where someone can

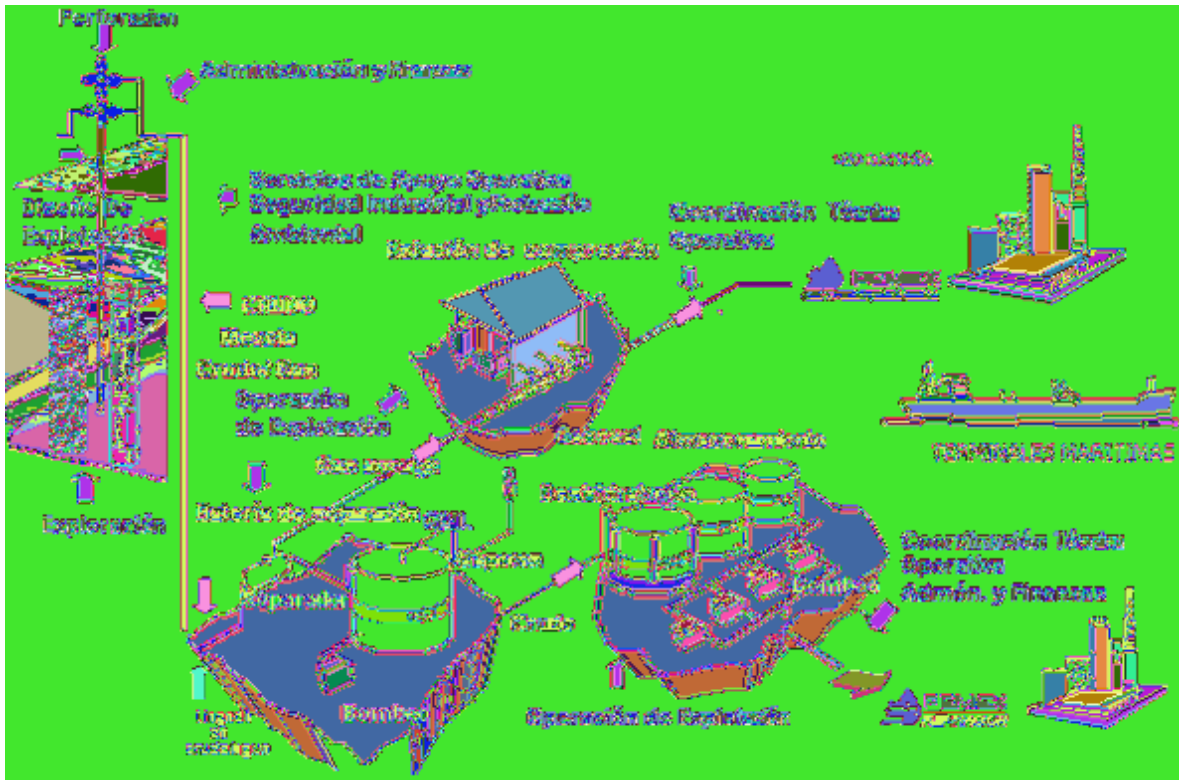


Figure 3.- Scheme of the flow of the technical and administrative information in the process of Exploration and Production.

Benefits

- The benefits of relying on a strategy of administration of information and technical information of E&P are of two types: The "Tangible ones"; those which can be measured economically; and the "Intangible ones"; those that have to do with aspects that can not be measured economically, but that are of enormous value since they strike practically to the whole process of Production and Exploration.
- With the creation of the technical digital file the specialists can consult from their offices the processes of well, this represents a great decrease in the time of search of the information.
- The creation of the corporative technical database allows to the specialists to consult the technical information necessary for the accomplishment of their projects.
- The Creation of the electronic models allows to the users to check the information of the installations of the company from their offices.
- The production of the electronic models allows to accomplish with the requirements for the implantation of the ISASEP (integral system of the

administration of the safety and the environmental protection) in our company.

Conclusions

The economic globalization demands that all the companies are competitive on their corresponding markets. One way to keep our company in competitive standards is using the technology of information with projects as those mentioned in this work.

I am grateful for the help received

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