



Daniel Industry Plan



SUPPLYING, ENGINEERING AND CONSULTANCY SERVICES



About Company

Daniel Industry Plan Company as an engineering, production, research and business company, is active in this industry in order to produce and provide a variety of drilling mud add-ons by having manufacturing plant and QC laboratory in Hamedan and central Tehran.

At the time being, Daniel Industry Plan Company has been able to be put in a competitive position with reputable foreign companies in producing oil well drilling chemicals by relying on professional activity experience and employing well-trained work teams. By following the principle of maintaining and improving the quality, deep and precise understanding of the customers' requirements and expectation and in accordance with the latest advances, this company is able to provide production services according to each customer's requirements. These abilities has made Daniel Industry Plan to be recognized as a leading supplier in this industry.

Vision

As a leading company in supplying and providing drilling services. Due to the quantitative and qualitative growth of the drilling industry, Daniel Industry Plan Company has the capability to be the leading provider of mineral and chemical supply management services and to provide modern drilling services to its customers in the Middle East.



Mission

Our main mission is to observe ethic and fairness in all areas of life, especially business. Commitment, accountability, continuous improvement of the quality of service, and accountability in adherence to ethic, which makes sense. Daniel Industry Plan Company believes as a company that is faithful to moral values that will improve our social life. The company is always committed to providing its engineering services for drilling and supplying the minerals and chemicals of this industry to its customers.

Company's Values

Daniel Industry Plan Company sees the customers and employers as the cause of its success and considers following values in its interactions with them:

- Taking necessary steps for environmental protection and health and safety of the personnel, customers and contractors, and also making a safe working environment in all projects;
- Taking necessary steps for implementing and completing drilling plans based on customers requirements by providing drilling improving solutions;
- Compliance with the obligations and cooperating in meeting customers, personnel and supporters'

We are honored to work with the following companies

Contractor Companies of South oil-producing regions;

Contractor Companies of National Iranian Drilling Company;

Contractor Companies of Iranian Oil Exploration Management;

Contractor Companies of Iranian Offshore Oil Company;

Contractor Companies of Iranian North Drilling.



OVERVIEW

Who Are We?

DIP aims to serve the oil & gas industry as a technical and engineering based company. We position ourselves as an engineering consultancy and service company with years of insight in drilling, completion and production services. We do this by providing high quality specialist engineering support services to the industry. This is mainly due to our partical research activities to overcome drilling problems during the past years.

We understand the of various drilling services, which can make a huge in the production process that drives the bottom line for our clients. It is of our core belief that one of the key components in the drilling services cycle is Drilling Fluids. For this particular reason, we have paid special attention to Drilling Fluids and its interface with other services.

Our focus is on quality assurance, technical advice and providing viable solutions that ultimately leads to the best possible services for our clients.

What We Do?

Our role is to review and analyze drilling and production performance, which is mainly driven by drilling and completion By doing so, we can design, re-design and customize a tailor made solution which is best suitable for the challenges ahead of us. The design process is a combination of R&D, Engineering Analysis, QHSE and Finance to come up with optimum solutions that are viable and in compliance with the required standards.

D I P

ENGINEERING & CONSULTANCY SERVICES

Drilling Fluids Engineering & Services

Completion & Packer Fluids Design

Drill-in-Fluids & Reservoir Fluids

Well Clean Up Services

Engineering & Performance Monitoring

Research & Development

Environment Solutions

Supply Chain Management

Training & Consultancy

Drilling Fluids Engineering & Services

We can design and customize drilling based on the well design and the drilling program in order to improve drilling . This is initially done by preparing a comprehensive operational drilling program to meet both normal and contingency plans. In addition, we can our advanced Hi-Tech Drilling Fluids for special applications such as those in high reactive shales/clays, depleted zones and HPHT wells. Our systems can be customized based on our client's requirements whether it be OBM, WBM or Synthetic Based Muds.

We a wide range of drilling engineering solutions to cover our client's engineering and operational requirements in drilling activities.

Completion & Packer Fluids Design

Completion and packer design has direct on well integrity and well life. The result of a good will minimize workover operation, reduce corrosion rates and prevent downhole tools damage. In addition, we evaluate the compatibility of completion and packer with the formation of water properties to minimize damage invasion into the formation.

Drill-in-Fluids & Reservoir Fluids

Drilling the reservoir section is the most sensitive and important phase of the well. We take a proactive approach to make sure the negative impacts of drilling such as formation damage are minimized, and by doing so we can enhance the well productivity. We design compatible and reservoir based on the reservoir characteristics to make sure production enhancement is optimized. Reservoir Drill-in-Fluids service is a special service to provide specifically designed exclusively for drilling through the reservoir section of a wellbore.

Given that each reservoir is unique and optimized its performance requires a unique approach, we select a to match the reservoir to mitigate and prevent formation damage, minimize the skin factor and help improve well productivity.

Well Clean Up

The productivity performance of wells is a crucial endeavor which is directly related to the wellbore damage by drilling. We evaluate the formation damage type and provide well clean up practices, proactive well clean up systems and specialty chemicals to obtain the maximum formation on recovery. removal of drilling damage before putting wells on production maximizes well performance, cash and . Furthermore, it enables operators to retain and improve permeability in horizontal open hole completions and increase production in mature wells without the need for rig intervention. Well Clean Up services ensures the cleanest wells

Engineering Performance Monitoring & Optimization

Performance monitoring is one of our engineering services in order to optimize and improve of the drilling operation. Based on international benchmarked drilling standards, KPIs and drilling parameters, we will identify the impediments and provide the best possible solution for optimization. We will track and monitor all records relevant to drilling and drilling parameter in order to benchmark and compare performance during and after drilling. We analyze the following information for monitoring and benchmarking drilling performance:

Wellbore Geometry Parameters

Bit and BHA Information

Hydraulic and Hole Cleaning Parameter

Drilling Fluids Properties

Drilling Parameters

Research & Development

We strongly believe that research and development is a key element to continuous improvement. It has been the main driver behind the development of an integrated value chain to develop a wide range of, Hi-Tech Specialty Chemicals, Fluid Systems and Waste Management Solutions based on our clients operational troubleshooting problems.

We have Strategic alliances with several academic research institutions to extend the depth of our R&D.

Environmental Solutions

Solids build up is one of the main concerns that drilling parameters and performance. This will enable our clients to achieve the best results from their drilling systems (such as good rheological properties and system stability).

DIP a wide range of waste management services to minimize generated waste and contaminated discharged cutting during drilling operations. This helps keep our environment clean and ensures that our operations are in compliance with DOE (Department of Environment) legislations.

We provide cost and optimum solutions from environmentally acceptable procedures to achieve zero-discharge plans and improve recovery. The outcome reduces operational costs and enables recycling.

Wastes are analyzed for various parameters such as chloride, nitrate, phosphate, BOD (Biological Oxygen Demand), COD (Chemical Oxygen Demand) and oil content. Other analysis are carried out to monitor the treatment process on a regular basis during waste generation. Our waste management personnel are fully trained and experienced having the competencies in place to provide the best reliable services with concentrated support and the least liability.

Waste Management Services

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Identifications

- Environmental Impact Assessment
- Check List Questionnaire
- Consultancy Services

Planning

- Waste Water Treatment Solutions
- Cutting Treatment Methods
- Solution Optimization



Design

Waste Treatment Process Design
Equipment Selection
Zero-Discharge Process Design
Waste Pit Design
Treatment Chemical Selection
Simulation
Pilot Test

Implementing

Treatment Equipment Supply
Custom Made Equipment
Dewatering Equipment
Cutting Treatment
Biological Treatment
High Performance Oil Recovery by a 3-phase Separation Unit
Commissioning and Start Up

Monitoring

Waste Treatment Analysis
Dewatering Performance
Waste Fixation & Stabilization
Biological Parameters
Oil Separation Recovery
Laboratory Analysis

Improvement

Process Design Improvement
Cost Optimization
Training
Lesson Learned Record



Training & Consultancy

We are able to provide a wide range of training courses to our clients from a variety of industrial backgrounds. These courses can be designed to meet our clients requirements where necessary and if facilities and equipment, training programs can be conducted on client premises to suit their own individual needs.

Our current training programs covers well engineering, drilling HPHT operation and design in both basic and advance levels.

PRODUCTS OVERVIEW

Drilling operations requires vast amount of chemicals, which our procurement department has been supplying. We have therefore gained valuable experience in supply chain management and we are able to support our customers with a wide range of chemicals.

managing our supply chain is one of the most important issues to sustain an drilling operation. Failure to manage the supply chain has severe for us and our operators making all the in and We have created strong ethical ties with our suppliers and logistic companies making sure they meet compliance requirements.

Many of the chemicals used in drilling operations can be applied to numerous industries and we have adequated knowledge of chemistry through our R&D department.

Our goal is to provide innovative products for chemicals with international standards at competitives prices.

Products

- Commodity Chemicals
- Drilling Specialty Chemicals
- Drilling Fluids Systems
- Loss Circulation Solutions
- Reservoir & Drill-in-Fluids Systems
- Completion Fluids & Well Clean Up
- Workover & Reservoir Fluids
- Production & Processing Chemicals
- waste Water Treatment Chemicals

Productions



Water-based Products:

Starch LV & HV & HT
Starch CMS
Xanthan GUM
Pac HV & LV
CMC LV & HV
Natural GUM
Guar GUM
Glydril

Oil-based Products:

O.B.M EMUL P&S
O.B.M F.L.C
O.B.M V
DME (S.W)
Pipe Lax
Biocide
Wetting Agent

LCM:

Mica
Shell Fish
Fiber Lock
Limestone Chips
Walnut Shell

Mineral Products:

Barite
FER.o.BAR
Bentonite
Anti cake salt
Limestone
Gilsomite

Productions



Chemical Products:

Cal. Chloride G
Cal. Bromide
Pot. Chloride
Lime
Soda Ash
Caustic Soda
H₂S Scavenger
INH.H₂S.CORR
CORR.INH (S.W)
PHPA
Defoamer
Foamer
Asphalt Sulfonated
SOD.BICARB

Production & Refinery:

Chemicals:
Emulsion Braker
Asphalten Dispersant
Antifoam
Oil Phase Corrosion Inhibitor
Scale Inhibitor
H₂S Scavenger
Gas Corrosion Inhibitor
O₂ Scavenger

Productions



Laboratory Equipments:

By having the representation of the reputable foreign companies and with experienced and experts in sales and after-sale services, Daniel Industry Plan Company is prepared to provide services for supplying and equipping oil and cement drilling laboratory.

Viscometer 35SA

Filter Press API (LPLT)- HPHT

Hamilton Beach Mixer

Roller Oven

Retort Kit

Kit Sand Content

ES Meter

Thermo Cup

PH Meter

Aging Cell

Mud Balance

Drilling Starch:

By having the modern European machinery and being equipped with quality control laboratory and also expert and well-training personnel, the drilling starch production unit of the company is able to produce various types of drilling starch based on potato, wheat and cereals according to the customer's required standards.

Composition		1	2
S.S.W	ML	350	-
LV.Starch	GR	14	-
Barite (d:4.20)	GR	903	123
FER .O. bar (d:4.70)	GR	70	40
M.W	PCF	150	150

Properties	Unit	Before Add formation water 4h Rolling at 200°F Rheology measured at 140°F		After Add formation water 4h Rolling at 200°F Rheology measured at 140°F	
		Req	Samp	Req	Samp
APP.VIS	CPS	72±2	74	65±2	63
Ø 600	RPM	-	148	-	126
Ø 300	RPM	-	82	-	70
P.V	CPS	65±2	65	58±2	56
Y.P	LBS./100 ² FT gel	18±2	17	15±2	14
Int.Gel	LBS./100 ² FT gel	5±1	4.5	4±1	4
10 min .Gels	LBS./100 ² FT gel	7±1	7	6±1	6
API.W.L	ML	0.9 max.	8	1 max.	0.95
PH (After Roll)	-	7±0.5	7	7±0.5	7
Settelling	-	Nil	Nil	Nil	Nil
Foam	ML		400	-	400



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