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Ionos Directional Services

Executive Summary

September 2022

About us

- Ionos Directional Services is a Colombian venture, created in 2013 with the vision of having an independent Directional Drilling Company in Colombia.
- We provide a comprehensive service of performance directional drilling and logging for the oil and gas industry in Colombia, which could manage to be part of the value chain of our customers by optimizing their drilling and completion operations.



- We aim to be a Directional leader in the Colombian drilling market. Our inventory of advanced drilling tools includes the newest generation of downhole tools.

Historical Summary

Ionos Directional Services

The company was created.

Jan 13

First Operations

Directional drilling services
Plato X1P 21.500 ft.
Maurita - 3 Well - Llanos 10.500ft.

Diversification & Internationalization

HDD 4500ft – Colombia Ecuador
Directional well –S Type 10.200 ft
Jaguarete – Paraguay - Amerisur

Marh 13 - 14

New services

Mansarovar -Sidetracks
17 Wells- 2.500 ft - 3.000 ft
Directional drilling Wells MWD/ LWD
Curito 6 Llanos -10.500 ft

Apr 15- Aug 16

Consolidation

Drilling Campaign 42 Wells 2.500 ft –
3.000 ft Mansarovar E.
Directional drilling services with
Hocol, Oxy, Petronorte, etc

Jun 17

New technologies

Performance Drilling, Extrem MWD EM. &
Evenwall Motors in LCI & Llanos
Mexico Operations with 3 DD wells.
HDD 1250 ft – Inchiyaco Putumayo

Nov 18-19

Development of new technologies

Logging While Tripping (GR-CN DEN)
35 Wells in LCI Basin SierraCol
Performance Drilling in Extrem MWD EM.
& Evenwall Motors Llanos & LCI
Hupecol & Omega Energy. DD Services

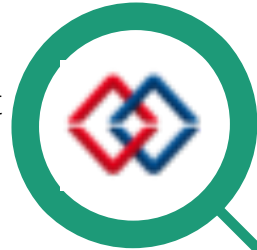
Dec 19 – Aug 20

Jun 21-Sep 22

Our Experience

Mansarovar ENERGY

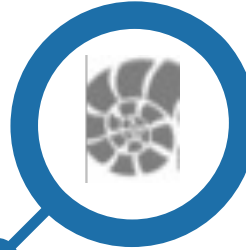
- Puerto Boyacá
- 2580 ft- 3250 ft
- J Type - 42 Wells.
- 2018-2109
- Puerto Boyacá
- 2580 ft- 3250 ft
- 17 Sidetracks.
- 2017



- 69 Wells Drilled 2021-2022
- 37 Triple Combo Logs
- 61 RES-GR Logs



- Putumayo
- HDD -4.500 ft
- HDD
- Aug 2016



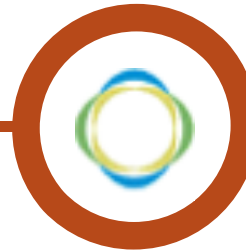
Occidental de Colombia

- Barrancabermeja
- 3.500 ft
- J Type - 6 Wells
- Aug 2019
- Arauca
- 8.000 ft
- J Type - 4 Wells
- Jan 2020



GranTierra energy inc.

- San Martin - Cesar
- 8.900 ft - 9.800ft
- J Type - 2 Wells
- Aug 2016
- Putumayo
- HDD -180 m
- HDD
- Aug 2019



Hocol

- Piedras - Tolima
- 4.800 ft
- J type - 2 Well
- 2020
- Puerto Gaitan
- 5.200 ft
- J type - 1 Well
- 2019



FRONTERA ENERGY

Casanare
10.500 ft
J Type - 1 Well
Aug 2017



Tecpetrol

Puerto Gaitan - 2019 - 2020 - 2021-2022
Gyro Services 33 Wells





MEXICO

- Campo Aragon
- Mexico
- Aragon 135-150
- Mar 2020



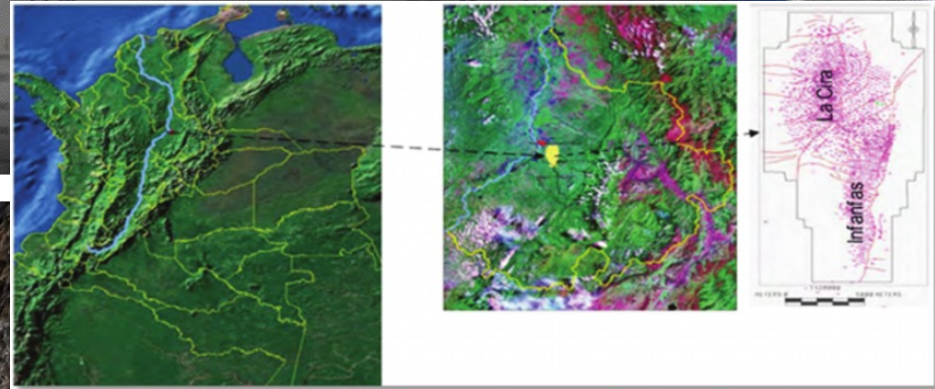
PARAGUAY

- Cuenca Parana - Paraguay
- 8.322 ft
- Vertical- 1 Well
- Nov 2016

PERFORMANCE DRILLING & LOGGING

- EM-MWD
- Ewell Technologies Mud Motor
- LWT (RES-GR-DEN-NEU)
- Switch-Blade Stabilizers & Reamers
- Horizontal Directional Drilling for river crossing.

IONOS
ATIONAL SERVICES

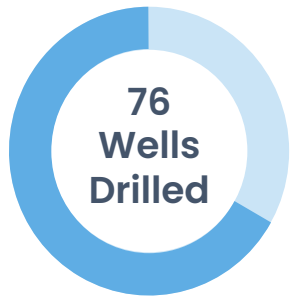


EXTREME
ENGINEERING

CORDAX™



Drilling Campaign 2021-2022 KPI's



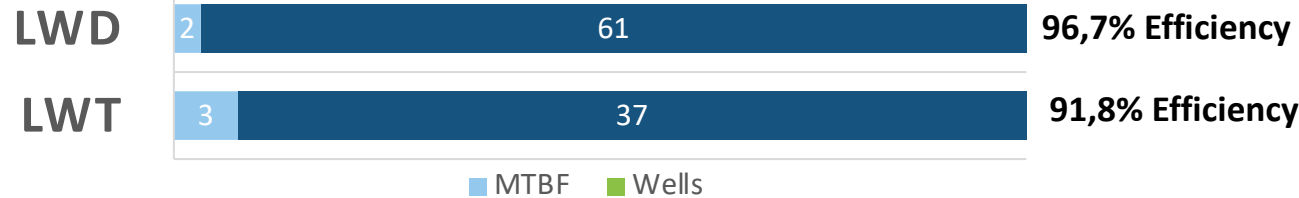
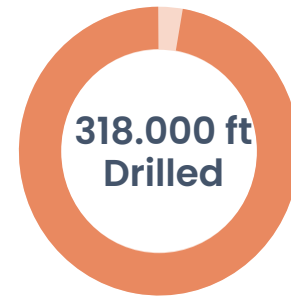
2021 - 2022



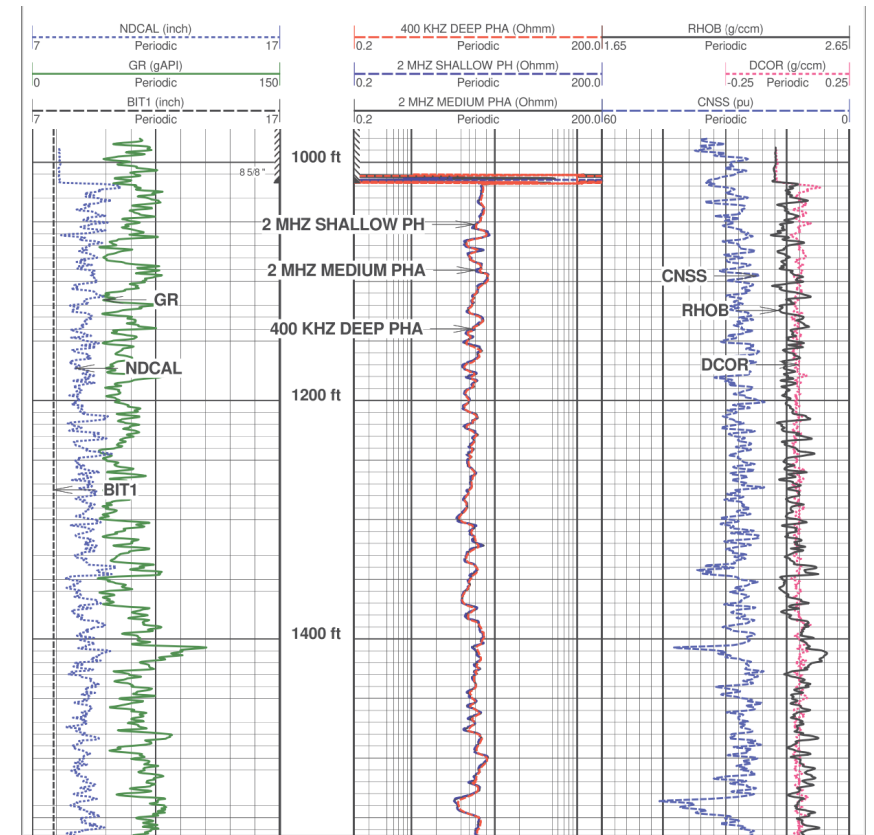
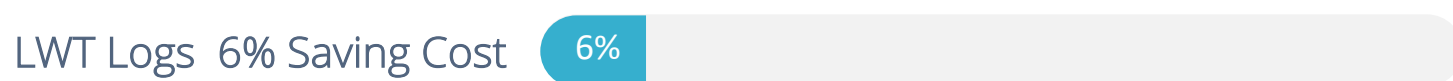
105.000 ft Triple Combo Log



177.000 ft RES-GR Log



Performance Logs in LWT & LWD



Successful Keys

6 - 8 Hr

Wells Logged



22,000 USD/well

Less than wireline



Saving Time

Services Cost

650.000 USD



\$53,765 USD/Well

Total: 1,935,540 USD

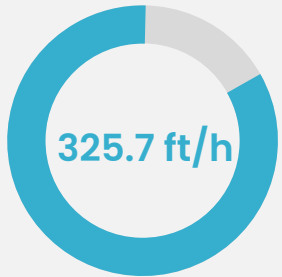


Risk LIH / Wells Logged

Customer Savings

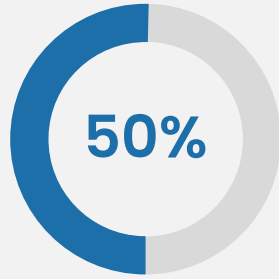
Bico Mud Motor Performance Review

Mud Motor



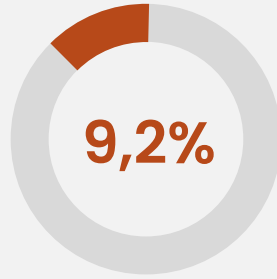
Net ROP when applied 800-900 Psi Diff. Prea on rotating mode 1000-1200 ft/hr (Inst ROP)

SmartDrill



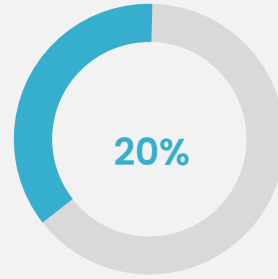
Reducción on ST Time. Manual mode Vs SmartDrill

Rig Crew



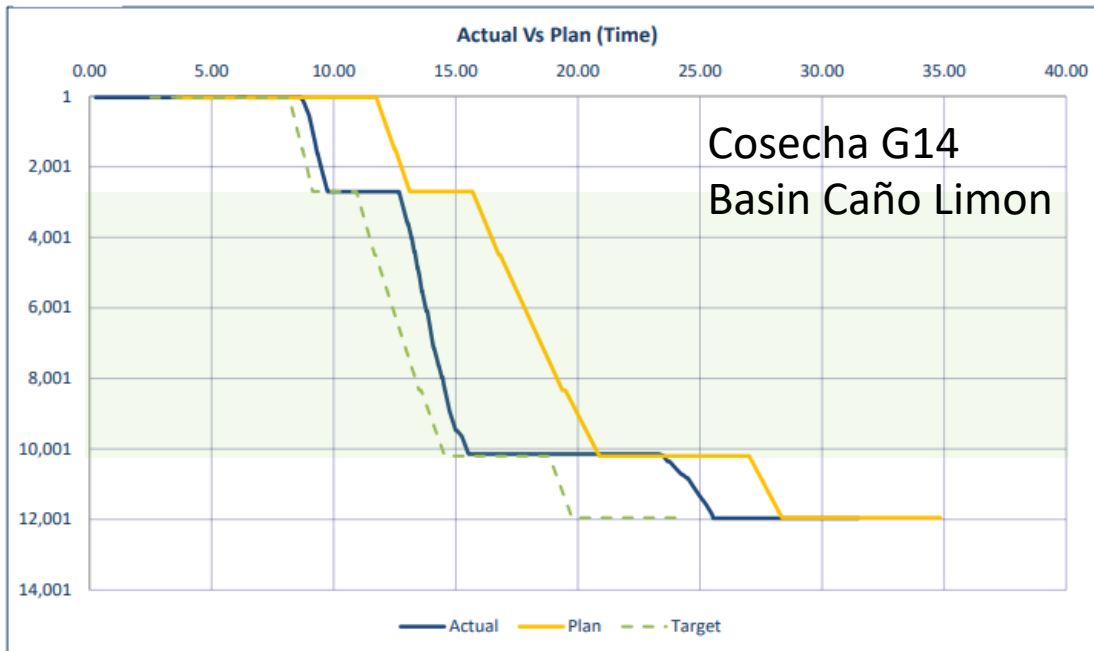
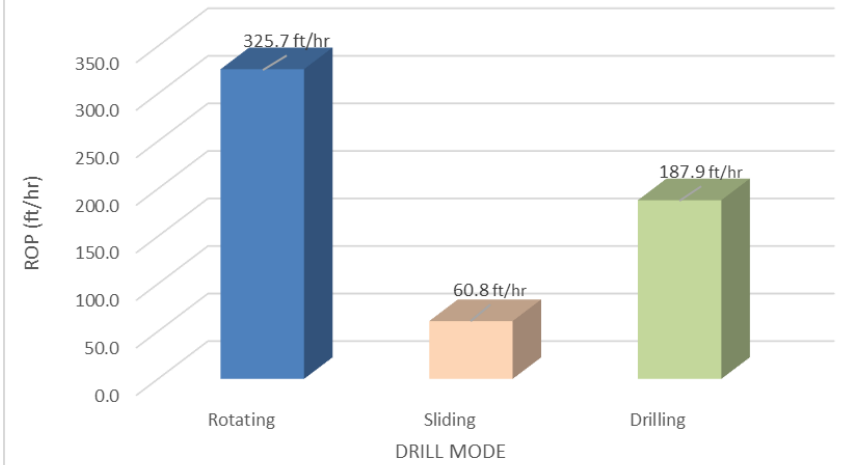
Reduccion on STS time. Task oriented Rig Crew

Human Factor



Customer Supervision Optimization of drilling parameters.

12 1/4" INTERMEDIATE HOLE NET ROP



Our Directional Tools

- Drilling Motors & Drilling Jars
- Positive Pulse MWD
- Electromagnetic MWD
- Logging While Drilling Gamma Ray - Resistivity
- Annular Pressure While Drilling
- Logging While Tripping – Nuclear Logs
- Gyroscopic Logging Tools



Maintenance Facility

- Breakout Machine.
- Jar Tester
- MWD / LWD Lab
- Radioactive Storage Units



- Maintenance Shop with 3950 Sq ft.
- 3,2 ton Crane
- 2 ton Forklift

- Positive Drilling Motors
- Drilling Jars, NonMag Drill Collars
- PP MWD – EM MWD



Thanks

