

Layne[®]

A GRANITE COMPANY

MINERAL SERVICES





01

Layne is a water management, mineral exploration and drilling company.

We provide responsible infrastructure solutions for water and minerals, while offering innovative, sustainable services with an enduring commitment to safety, operational excellence, and client satisfaction.

In June 2018, Layne became a wholly-owned subsidiary of Granite Construction, Inc.

ABOUT LAYNE

- **Founded 140 years ago Layne is one of the world's largest, most experienced water and mineral service companies.**
- **Aligned with our Latin American affiliates, Layne Mineral Services is one of the three largest providers of drilling services in the Americas.**
- **The world's premier mining companies rely on our teams to deliver a high level of expertise and technical competence while maintaining the most stringent safety and environmental standards.**

OUR STORY



1895
FOUNDING

Christensen Boyles Bros.
Established



1996
MERGER

Layne
and
Christensen Boyles Bros.
form
Layne Christensen



2018
REBORN

Layne joins the Granite
family

01

03

05

1882
FOUNDING

Layne established

02



1974
GROWTH

Formation of Geotec
Boyles Bros.
(Latin American affiliates)

04



2010
THE RESCUE

Rescue of Chilean
miners (Plan B)

06



02

SAFETY

Our safety culture is underpinned with relationship-based training, shared knowledge, and engagement at every level of our organization.

An authentic commitment from all will elevate our program, ultimately achieving safety, success and zero injuries.

At Layne, we are responsible for making safe choices not only for ourselves, but for those around us. We must take care of each other.

- Safety is about people, not projects.
- Safety is about stories, not statistics.
- Safety is about connecting people.
- Safety is deeply personal.



**TOTAL
RECORDABLE
INCIDENT RATE**
consistently
under 1,
year after year.





SAFETY BY CHOICE



GRANITE

ONE PERSON

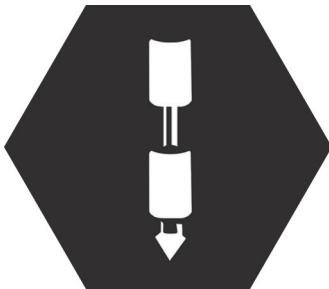
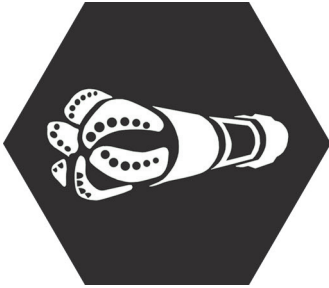
ONE CREW

ONE DAY AT A TIME

SAFETY BY CHOICE.



03



OUR SERVICES

- **Coring**
- **Dual wall reverse circulation**
- **Flooded reverse**
- **Directional drilling**
- **PQ-3, HQ-3, NQ-3 triple tubes/Lexan liners**
- **Oriented core**
- **Wireline packer with single and zone testing**
- **Mechanical packer testing**
- **Mud rotary W/SPT testing**
- **Piezometer and TDR cable installations**
- **Casing advance**
- **Down-hole hammer**
- **Air/mud rotary**
- **Stratex/Odex casing advance systems**
- **Directionally steered core/rotary wells**
- **Electrode installation**





04

OUR TEAM

UNITED STATES



GERNOT PENZHORN
VICE PRESIDENT



WENDY BATTAGLIA
CONTROLLER



WILLIAM ATTERIDGE
DIVISION SAFETY
MANAGER



MICHAEL MAGNIN
GENERAL MANAGER



SCOTT GRAHAM
OPERATIONS MANAGER



MARY BAILEY
FINANCE MANAGER



PAUL FORBES
AREA MANAGER, NV



DAVID PALUMBO
SUPPORT SERVICES



BRYAN DUMAS
SUPPORT SERVICES

MEXICO



GERARDO MARTINEZ
GENERAL MANAGER



LEO WURTZ
OPERATIONS MANAGER



CONNIE DAVILA
FINANCE MANAGER



SERGIO NAVARRO
SAFETY MANAGER



DAVID UREÑA
SUPPORT SERVICES



EMMANUEL QUINTANA
SUPPORT SERVICES

05

OUR FLEET

CORING



RIG NAME	PULLBACK (LB)	DEPTH N (FT)	DEPTH H (FT)	DEPTH P (FT)
Epiroc CT20 Track / Truck	45,000	10,000	7,500	5,500
Epiroc CS4002 Track / Truck	45,000	10,000	7,500	5,500
Mobile B20 Track	38,000	8,400	6,300	4,600
Epiroc CS3001 Track / Truck	35,000	7,800	5,800	4,300
Epiroc CT-14 Track / Truck	31,000	6,900	5,200	3,800
Duralite NMP800	29,000	6,400	4,800	3,500
Epiroc CS1500 Track / Truck	21,000	4,700	3,500	2,600





REVERSE CIRCULATION

RIG NAME	PULLBACK (LB)	STROKE (FT)	DEPTH (FT)
Schramm T685WS	96,000	27	3,000
Epiroc TH75	75,000	27	2,200
Epiroc TH100	65,000	25	2,100
Ditch Witch JT 4020	40,000	15	1,500
Foremost MPD1500	38,000	25	2,100
Foremost Prospector W750	38,000	25	1,500
Schramm 450GT	30,000	25	1,500

DEWATERING

RIG NAME	PULLBACK (LB)	DIAMETER (IN)
Challenger 360	300,000	8 - 42
Schramm T200XD	200,000	7 - 36
Schramm T130XD	130,000	7 - 36



SPECIALTY



RIG NAME	PULLBACK (LB)	DIAMETER (IN)	DEPTH (FT)
Foremost DR 24	74,000	6 - 24	1,200
Foremost AP-1000 Hammer	20,000	3 - 12	500



06

DRILLING TECHNOLOGY

DTC OBJECTIVES

Layne's Drilling Technology Center (DTC) is strategically located at the corporate office near Houston, Texas, an area rich in drilling history and expertise. The group consists of a multi-generational team of engineers with vast experience in all major drilling markets and techniques.

- Increase safety
- Increase productivity
- Decrease costs associated with Layne's drilling operations
- Develop technology not commercially available to meet the needs of new or emerging markets



BRIAN SMITH
DIRECTOR OF ENGINEERING



ZACH THOMAS
DESIGN ENGINEER



GEORGE KING
TECHNICAL FELLOW



AUTOMATED ROD HANDLING

Born from the need to reduce hand injuries and operator fatigue, the Layne patented Automated Rod Manipulator (ARM) provides truly hands-free rod handling for its legacy fleet of diamond core drills. Our entire fleet of rotary rigs is equipped with reliable and proven rod loaders designed to work explicitly with each machine. All Layne rigs are equipped with hands-free hydraulic wrenches to safely make and break each connection within the drill string.



A fully loaded rod storage magazine, containing up to one mile of drill rod, can be safely transported to site using the Universal Track Carrier which can conquer the most rugged of terrains and environments.



Smart inventory management allows us to send the least worn rod to the bottom of the hole. We use a continuous rod inventory rollover system to ensure even wear, minimize rod failure and increase safety on the jobsite.

07

LATIN AMERICAN AFFILIATES



Our longtime affiliates, Geotec Boyles Bros., have led the market in drilling and related services in Chile and Peru for decades. Our combined presence in the Americas is unparalleled, as is our ability to operate at the highest level of safety, technology, and environmental responsibility for our valued mining clients.



INTERNATIONAL DIRECTIONAL SERVICES

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Our subsidiary International Directional Services (IDS) offers expertise for borehole deviation surveys and directional drilling services in the mineral, energy, and civil markets. IDS provides its customers with five product and service lines in select international markets: downhole deviation surveys, directional drilling services, downhole instrumentation sales and rentals, directional mud motor sales, and borehole geophysics.



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PARENT COMPANY



Granite Construction Incorporated (NYSE: GVA), America's Infrastructure Company, has a workforce of 9,200 and a combined revenue of \$3.5 billion annually. As an industry leader in the transportation, water resources and mining markets throughout North America, Granite provides infrastructure solutions for construction, program management, alternative procurement, and is a vertically-integrated contractor with aggregate materials reserves throughout the U.S.

100
YEARS

9,200
EMPLOYEES*

\$3.5B
ANNUAL
REVENUE

Forbes

Forbes Magazine, one of America's Best Mid-Size Employers (2021)



AGC

Associated General Contractors

Earned over 20 awards for innovation, safety and quality



Certified

Great Place to Work (2021)



ENR

Engineering News Record

#1 Highway Contractor (2022)
#2 in Mining (2022)

NAPA

National Asphalt Paving Association

40 NAPA quality awards for airport pavement quality and pavement projects constructed in sustainable/innovative ways

FORTUNE

World's Most Admired Companies





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