International Directional Services (IDS) brings decades of experience to deliver unmatched services and products to its customer, offering borehole deviation surveys and directional drilling services in the minerals, energy, and civil markets. IDS provides its customers with five product and service lines: downhole deviation survey services, directional drilling services, downhole instrumentation sales and rentals, directional mud motor sales, and borehole geophysics in select international markets.

**Directional Drilling**
IDS brings over 50 years combined experience to deliver unmatched results on global directional drilling programs. Lead by a team whose combined expertise provides strategic planning and precise execution of programs to reach targets for mineral exploration, coal degasification and civil infrastructure projects. IDS delivers consistent performance and

**Deviation Surveys**
IDS delivers accurate and reliable borehole deviation data in professional, cost-effective ways. We employ robust down-hole survey technology as well as versatile tools and solutions for drill programs concerning both surface and underground projects. We offer professional verification of your borehole deviation data. IDS’ solutions are tailored

**Product Sales**
As a leader in directional drilling and borehole surveying, IDS offers a variety of proven tools and equipment to clients and contractors in the industry. From directional motors to non-magnetic drill rods and deviation survey and core orientation tools utilizing the latest technology, we support our clients’ comprehensive drill programs with a wide

**Instrument Rentals**
IDS provides the latest rental surveying tools and technology in the industry: Boart Longyear, Axis Mining Technology Survey Tools, and Minnovare Azimuth Aligner® North-Seeking Gyro Rig Alignment System. Consider IDS when choosing trusted rental equipment for mineral exploration, civil as well as energy related projects worldwide.

**Geophysical Logging**
IDS is a leading provider of borehole geophysical logging services in select international mining and civil construction markets. Logging parameters include, but are not limited to: optical and acoustic televiewer, caliper, electric logs, magnetic data, natural gamma, fluid flow and resistivity/conductivity, video.

**Quality Assurance**
IDS maintains a rigorous QA/QC program for delivered data quality which includes comprehensive employee training programs, routine data reviews, and instrument calibration facilities and protocols. Our technical expertise and modern instrument fleet allows us to provide customers with a robust formal QA/QC program for data. We design and implement a custom-tailored QA/QC program for even the most challenging projects.
We specialize in Directional Drilling, Borehole Surveying, and Geophysical Logging solutions that utilize proven technology and global experience for Mining, Environmental, Civil and Energy projects.

Time and time again, we are trusted to utilize our directional drilling, logging, and survey expertise to supply precise borehole location and analysis to surface and underground drilling projects worldwide.
IDS is part of a long-standing tradition in directional drilling, borehole surveying and geophysical logging services stemming as far back as 1960. This rich history flows through Christensen Mining Products, Boyles Bros. Drilling, and Layne Christensen Co. (for the complete history see our web site: www.IDSdrill.com).

We continued to solve many of the industry’s biggest challenges, and in doing so IDS developed additional drilling tools and processes to deliver solutions to the mining, civil and geotechnical, as well as energy markets. Learning from its predecessor, the Navi-dri™, IDS developed the Accu-dri™ to offer directional drilling options in other markets. Offering borehole surveying tools was a natural addition in order to undertake complete solutions for our clients. IDS’s geophysical logging services evolved from basic borehole geophysics logs in the mining industry in the 1980s to provide a wide range of comprehensive logs across all arenas today. Today, IDS is proud of our impeccable technology and resources that assist a variety of industries. Not only do we aid in the implementation of our resources, but many are available for sale and rental.

Moving forward, IDS is expanding internationally by partnering with pivotal leaders in the global directional drilling communities in North America, Latin America and Asia.

OUR HISTORY

We recognized a real need in the mining industry for directional drilling, borehole surveying services, and geophysical logging services in surface and underground mining boreholes. From that need, IDS has evolved into what they are today—a proven industry leader.
DIRECTIONAL DRILLING
IDS reaches drill targets with confidence, utilizing decades of experience to deliver unmatched results on global directional drilling programs. Lead by a team with vast combined expertise, IDS provides strategic planning and precise execution of directional drilling programs to reach targets for mineral exploration, coal degasification and civil infrastructure projects. Our goal is to maximize overall project savings while reducing risk, utilizing cutting-edge methods and solutions to deliver consistent results at exceptionally competitive rates.

Depending on specific application needs, IDS utilizes its in-house designed and built Accu-dril™ directional drilling motor to successfully execute directional drilling programs in all industries. Designed to provide reliable results and a long utilization life, the Accu-dril™ motor has multiple options available including fixed and adjustable bent housings, non-magnetic power sections for use with magnetic steering systems, and multiple torque and rpm configurations to suit most any need. The Accu-dril™ is hydraulically powered using a variety of mediums such as clear water, drilling fluid, or air-mist circulation.

BOREHOLE SURVEYING
IDS delivers accurate and reliable borehole deviation data utilizing professional, cost-effective methods. We employ robust and accurate down-hole survey technology as well as versatile tools and solutions for various drill programs in both surface and underground projects. IDS offers professional verification of your borehole trajectory by leveraging our borehole surveying expertise and our wide variety of application-specific tools.

IDS maintains a large technical staff and an extensive suite of tools to enable us to reliably handle any size project. IDS’s solutions are tailored to specific application needs, including importing gyro data directly into most mine modeling software programs. Utilizing our substantial experience, IDS will recommend the best and most cost-effective solution to a project’s needs utilizing the following in-house borehole deviation survey instruments:

- Surface Recording Gyro
- North-Seeking Gyro
- MEMS Gyro
- Magnetic Instruments
- Fiber Optic Gyro
- Continuous Data Collection

GEOPHYSICAL LOGGING
IDS is a leading service provider for an extensive list of geophysical logs for mining, geotechnical, oil and gas, water infrastructure, and environmental markets. We have taken traditional borehole geophysics logs to a new level by combining standard logging techniques with the latest technological advancements and creative thinking to develop capabilities unmatched by the industry.

+ Acoustic Measurements (acoustic televiewer)
+ Electric and Magnetic Measurements (normal resistivity, single point resistance, spontaneous potential)
+ Nuclear Measurements (natural gamma)
+ Fluid Measurements (temperature/differential temperature, fluid resistivity/conductivity)
+ Auxiliary Measurements (borehole image processing system, deviation/inclination, borehole video)
**APPLICATIONS**

IDS offers a variety of application options utilizing directional drilling, borehole surveying, and geophysical logging solutions specifically for mineral exploration, mine production, environment, civil, and energy markets.

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![IDS Logo](image-url)
Consider IDS when investing in equipment for mineral exploration, environmental, civil and energy drilling programs. As an industry leader, we have developed several directional drilling and geophysical logging product lines for sale and rental:

+ Accu-dril™ Directional Drilling Mud Motors
+ Survey Tool Rentals and Sales
+ Directional Drilling Equipment and Supplies

Tough Challenges. Comprehensive Solutions.

At IDS, our expertise allows us to collaborate globally delivering comprehensive solutions to the world’s toughest mineral, environmental, civil, and energy challenges. We offer more than services - we offer solutions.

Locations

**Chandler, Arizona, USA**
12030 East Riggs Road
Chandler, AZ 85249
Phone: (480) 824-7100

**Elko, Nevada, USA**
112 W Front Street
Elko, NV 89801
Phone: (775) 778-6625

**Sudbury, Ontario, Canada**
582 Falconbridge Road, Unit 1
Sudbury, Ontario, P3A 4S4
Phone: (705) 560-6460

**Hermosillo, Sonora, Mexico**
Blvd. de los Seris #133,
Parque Industrial,
Hermosillo, Sonora, Mexico
C.P. 83299
Phone: (705) 858-6460

To learn more about International Directional Services (IDS) please visit us at www.IDSdrill.com. To contact an expert directly, utilize one of the numbers listed above, or email your questions to IDSinfo@IDSdrill.com.