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SANTOS MELANY

*Development of a Model for Productivity of
Horizontal Directional Drilling (HDD)*

Cambridge University Press

This book explains the drivers and implications of unconventional gas at regional, national and global scales with case studies and in-depth analyses.

New Publications Vulkan-Verlag GmbH

This is a complete sourcebook of

information on Horizontal Directional Drilling, the installation of pipelines and utilities beneath obstacles such as water and roadways. HDD is a fast-growing technology in the trenchless industry. Provides technical information on the design, permitting, construction, bid documents, specifications, and construction of HDD applications Numerous HDD calculations with examples *Risks, Rewards and Regulation of Unconventional Gas* DIANE Publishing This dissertation, "The Use of Horizontal Directional Coring Technique for Ground

Investigation of Tunnelling Projects in Hong Kong" by Man-piu, Chan, 陳滿皮, was obtained from The University of Hong Kong (Pokfulam, Hong Kong) and is being sold pursuant to Creative Commons: Attribution 3.0 Hong Kong License. The content of this dissertation has not been altered in any way. We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation. All rights not granted by the above license are retained by the author. Abstract: Abstract The Project has studied the use of horizontal directional coring (HDC)

technique for ground investigation (GI) of tunnelling projects in Hong Kong. The aim is to explore the usefulness of HDC for Hong Kong tunnelling projects in future. The study of this new GI technique for tunnelling projects has covered the following three main considerations: - i. Technically feasible, ii. Economically viable, and iii. Programme acceptable. It was found that the advance in drilling technology and equipment has increased the efficiency which reduces both the cost per meter of HDC drilling as well as the drilling time. And make the HDC technique more practical in application for GI works. Calculations based on the Junk Bay Tunnel project suggest that the drilling cost of the HDC technique per meter is about 2 times the drilling cost of the traditional GI technique, but the cost per meter of relevant geological information is 2.4 times cheaper. In fact, this project is favourable to the traditional GI technique because of the thin overburden. For tunnel projects with greater overburden thickness, the HDC technique will be more cost-effective. Not only can a HDC hole running along the tunnel alignment enable the precise ground conditions to be

examined, but it also can identify any permeable zones with high water flux prior to tunnel excavation. Thus the impact to the surrounding environment due to ground water drawdown during construction stage can be better assessed at the design stage. - 4 - DOI: 10.5353/th_b3880140 Subjects: Boring - China - Hong Kong Tunneling - China - Hong Kong
[Analysis of Parameters Affecting Costs of Horizontal Directional Drilling Projects in the United States for Municipal Infrastructure](#) Springer Science & Business Media
 Horizontal Directional Drilling (HDD) is a growing method for installation of pipes in urban areas and where trenching is impossible or undesirable; such as in crossing rivers, lakes, railways, and special areas such as airports. This technique utilizes downhole cutting heads to create a pilot borehole before it is enlarged with back reamers to allow pulling back of a product pipe. The utilization of HDD for the installation of underground infrastructure (i.e., water, wastewater, oil and gas pipes, telecommunication, and power conduits), has shown a rapid growth compared to

other trenchless technologies. HDD can install a range of pipe diameters from 2 to 60 inches utilizing different pipe materials including steel, high density polyethylene (HDPE), polyvinyl chloride (PVC), and ductile iron pipe (DIP) with minimum surface and daily life disruptions. Estimation of HDD productivity, project duration, and quantity of materials required, is a difficult task due to variable productivity conditions such soil, project, contractor, and machine conditions involved in operation. The objectives of this research are to define the significant subconditions that affect HDD productivity by utilizing the analysis of variance (ANOVA) model, to develop HDD productivity prediction model, and to develop HDD user interface as a planning tool for operation. Initially the main productivity conditions and subconditions were identified through literature review and consulting the HDD experts and professionals. A HDD questionnaire was designed, reviewed, and sent to HDD experts (contractors, design engineers, and consultants) to collect data addressing HDD operation conditions required for testing significance of subconditions and

modeling operation productivity. HDD subconditions that show significance by ANOVA model analysis will be used to model HDD productivity in clayey and rocky conditions. This model is applicable in predicting HDD productivity to estimate duration of HDD project, in addition to other project parameters such as quantities of materials required and cost of labor. Applications on HDD productivity model will be useful for consultants and contractors for planning, scheduling, and bidding of HDD projects during preconstruction stage, as well as during installation and construction.

Horizontal Directional Drilling (HDD) : Utility and Pipeline Applications DIANE Publishing

The book clearly explains the concepts of the drilling engineering and presents the existing knowledge ranging from the history of drilling technology to well completion. This textbook takes on the difficult issue of sustainability in drilling engineering and tries to present the engineering terminologies in a clear manner so that the new hire, as well as the veteran driller, will be able to understand the drilling concepts with

minimum effort. This textbook is an excellent resource for petroleum engineering students, drilling engineers, supervisors & managers, researchers and environmental engineers for planning every aspect of rig operations in the most sustainable, environmentally responsible manner, using the most up-to-date technological advancements in equipment and processes.

Utility and Pipeline Applications Evaluation Risks and Cost Factors for Horizontal Directional Drilling and Open Cut Productivity Analysis of Horizontal Directional Drilling Analysis of Parameters Affecting Costs of Horizontal Directional Drilling Projects in the United States for Municipal Infrastructure Horizontal Directional Drilling (HDD) is a growing and expanding trenchless method utilized to install pipelines from 2 to 60 inch diameters for lengths over 10,000 foot. To date, there are not many public documents where direct costs and bid prices incurred by HDD installations are available and analyzed. The objective is to provide a better understanding of the factors affecting the bid prices of these projects. The first section of the thesis

analyzes how project parameters such as product diameter, bore length and soil conditions affect the bid price of water and wastewater pipeline installations using HDD. Through multiple linear regressions, the effect of project parameters on bid prices of small, medium and large rigs projects is extracted. The results were further investigated to gain a better understanding of bid factors that influence the relationship between total cost and the project parameters. The second section uses unit cost, based on bid prices, to compare the costs incurred by defined categories. Parameters such as community type, product type, soil conditions, and geographical region were used in the analysis. Furthermore, using average unit cost from 2001 to 2009, HDD project cost trends are briefly analyzed against the main variations of the US economy from the same time horizon by using economic indicators. It was determined that project geometric factors influence more the bid price of small rig projects than large rig projects because external factors including market rates and economic situation have an increasing impact on bid prices when rig size

increases. It was observed that bid price variation of HDD projects over years followed the same trend as the US economic variation described by economic indicators. Horizontal Directional Drilling (HDD) : Utility and Pipeline Applications Utility and Pipeline Applications

This is a complete sourcebook of information on Horizontal Directional Drilling, the installation of pipelines and utilities beneath obstacles such as water and roadways. HDD is a fast-growing technology in the trenchless industry. Provides technical information on the design, permitting, construction, bid documents, specifications, and construction of HDD applications Numerous HDD calculations with examples

Investigation of Longwall Gateroad Roof Support Characteristics at Powhatan No. 4 Mine McGraw Hill Professional

This handbook is written for planning engineers, construction engineers and technicians, for pipeline and network engineers and technicians, for engineering companies, for construction and pipeline companies, for network and pipeline

owners, for installation companies of mains, cables, fibers, ducts, sewers and complete networks, for drillers of all branches, for drilling fluid specialists, for environmental and water management applications, for foundations specialists, for all people engaged in the underground infrastructure, for all which like to combine economical and ecological advantages by going trenchless and by using newest technological possibilities for underground construction.

Evaluation Risks and Cost Factors for Horizontal Directional Drilling and Open Cut McGraw Hill Professional
 Evaluation Risks and Cost Factors for Horizontal Directional Drilling and Open Cut
 Productivity Analysis of Horizontal Directional Drilling
 Analysis of Parameters Affecting Costs of Horizontal Directional Drilling Projects in the United States for Municipal Infrastructure
Instrumentation Plan John Wiley & Sons
 Horizontal directional drilling (HDD) is a versatile form of utility construction and has seen enormous growth in the last decade as it offers a clear alternative to conventional methods. Drilling is conducted in both the vertical and

horizontal direction and can be steered within limits, dependent upon subsurface conditions. HDD can install utilities from 1" to 48" in diameter and up to 6000 feet in length. The major utilities (gas, electric, telecommunications and water/sewer) can be installed with this technology. The construction process (pilot hole, reaming and pullback) along with the major components (drill rig, drill pipe, slurry, slurry recycling, survey equipment, drill bits, reamers and pipeline materials) will be discussed. The advantages of cost reduction, and environmental, social and time benefits will be examined in the context of numerous case studies. The challenges of proper soils information, subsurface conditions, training and knowledge, drilling fluids and binding of the drill pipe and reamer/bit will be discussed. Through constant innovation, HDD should remain state of the art for some time, and should be a consideration for the construction of any new utility within the size parameters.

Little Snake Resource Management Plan Springer Science & Business Media
 In the past decade, the field of trenchless technology has expanded rapidly in

products, equipment, and utilization. This expansion would not have occurred without a strong increase in economic incentives to the user. Because the operating environment has changed, trenchless technology is often the preferred alternative to traditional methods of digging holes and installing conduits. The infrastructure in which we live has become more congested and has to be shared by several users. In addition, the cost of restoring a road or landscaped area after construction may be higher than the cost of installing the conduit. These factors add to the need for trenchless technology—the ability to dig holes without disturbing the surface. In some ways, trenchless technology is a futuristic concept. Ruth Krauss in a children's book of definitions wrote, "A Hole... Is to Dig." But this statement is not necessarily true. Today, a hole could be bored. Trenchless technology is not new. But it certainly has become the buzzword of the construction industry and it appears that it will have a growing impact in the way contractors, utilities, and others install new facilities. Methods to bore horizontal holes were

practiced as early as the 1800s, but this technology has greatly changed. Today's tools include sophisticated drilling methods, state-of-the-art power systems, and electronic guidance techniques. These tools can bore faster, safer, and more accurately, and in many instances more economically, than open-cut methods. Technology has played an important role in these advances, but economics has become the driving force in making these systems popular.

no. 7381 to date

Some 35 years ago I was somewhat precariously balanced in a drilling derrick aligning a whipstock into a directional hole in North Holland by the Stokenbury method, and no doubt thinking to myself that I was at the very forefront of technology. During the intervening period it has become obvious to many of us that some of the most significant technical advances in the oil business have been made in drilling, and particularly in the fields of offshore and directional drilling. It has also become apparent that the quality of the technical literature describing these advances has not kept pace with that of the advances themselves in many

instances. A particular glaring example of this has been in the field of directional drilling where a large literature gap has existed for many years. I am delighted to see this gap now filled with the present volume by my friend Tom Inglis. Indeed it is only after reading his comprehensive book that I realize the extent of my own ignorance of the latest techniques of directional drilling and how desirable it was to have an authoritative text on the subject. I feel sure that this volume will be welcomed by the industry and warmly recommend it to all who are in any way involved and interested in the fascinating world of drilling.

Report of Investigations

Horizontal Directional Drilling (HDD) is a growing and expanding trenchless method utilized to install pipelines from 2 to 60 inch diameters for lengths over 10,000 foot. To date, there are not many public documents where direct costs and bid prices incurred by HDD installations are available and analyzed. The objective is to provide a better understanding of the factors affecting the bid prices of these projects. The first section of the thesis analyzes how project parameters such as

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