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Progress Report Reporting Period Start
Date ? April 1, 2004 Reporting Period End
Date ? June 30, 2004 Author; Arnis Judzis,
TerraTek

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- 6 - EXECUTIVE SUMMARY Progress on the testing of fluid driven drilling hammers is on schedule. Background On January 9th of 2001, details of the Mud Hammer Drilling Performance Testing Project were presented at a “kick off” meeting held in Morgantown.

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Percussion drilling system, combining a

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mud hammer with drill bits, has been developed to increase drilling performances in hard formations. This system is based on a high-power down-the-hole hammer (Power output of 30 kW), capable of delivering high-energy impacts at high frequency (35 Hz) used with mud pressure as the power source. The drill bit is a key performance element because it is the ...

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awaiting the optimization portion of the testing program, accomplishments included the ...

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Technology Assessment for 'Optimization

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of Deep Drilling Performance' DE -FC26-02NT41657 - 3 - Introduction: Current State of Technology Background and context For domestic operations involving hard rock and deep oil and gas plays, improvements in drilling penetration rates are an opportunity to reduce well costs and make viable certain field

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motor power section with a high-

pressure losses in the drill string and the available pressure at the bit for optimized drilling performance. The ROP is also affected by the density of the mud and nature of the suspended solids. Regular and complete tests are essential to the control of mud properties. The interpretation of the results of these

Percussion drilling system, combining a mud hammer with drill bits, has been developed to increase drilling performances in hard formations. This system is based on a high-power down-the-hole hammer (Power output of 30 kW), capable of delivering high-energy impacts at high

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frequency (35 Hz) used with mud pressure as the power source. The drill bit is a key performance element because it is the ...

The drilling performance in this section has a strong impact in the profitability of the field. A number of simulations using geological drilling logs and the concept of the learning curve defined the optimum drilling parameters for the block. The result shows that DROPS® has the capability to simulate the drilling performance

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design have on the ROP. An analysis applying drilling performance modeling to optimize drilling operations has been conducted to address this issue. This study shows how optimum operational parameters and equipment can be predicted by simulating drilling ...

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Real-time optimization of drilling parameters during drilling operations aims to optimize weight on bit, bit rotation speed for obtaining maximum drilling rate as well as minimizing the drilling cost. The process is considered to be formation specific. A statistical method such as multiple linear regression technique has been used for the ...

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the mud pump and drill bit), and return line choke manifold (for pressure monitoring of the return line carrying the mud plus

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cuttings). Honeywell's Wing

Union/Hammer Union pressure sensors help detect pressure level changes in the media circulation system, which can indicate changing conditions being encountered downhole by the drill

during drilling and a proper understanding of the factors affecting the down-hole hammer performance and development of a model that can give drillers an indication of down-hole hammer efficiency is an important step in achieving constant drilling efficiency while drilling with the air rotary-percussive drilling ...

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