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Mud Hammer Drilling

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Hammer Drilling
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Scope of Work Changes Task
3.1.1 Addition The following
table will be inserted or
added to the agreement in

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Performance
order to test Smith
international mud hammer
tool in Subtask 3.1.1 Test
program under test sequence.
All ...

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This document details the progress to date on the OPTIMIZATION OF MUD HAMMER DRILLING PERFORMANCE - A PROGRAM TO BENCHMARK THE VIABILITY OF ADVANCED MUD HAMMER DRILLING contract for the year starting January

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2002 through December 2002.

Accomplishments to date
include the following;

Review of 2001 Q1 2001

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Optimization of Mud Hammer
Drilling Performance - A
Program to Benchmark the
Viability of Advanced Mud
Hammer Drilling Quarterly
Progress Report Reporting

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Performance
Period Start Date - April 1,
2004 Reporting Period End
Date - June 30, 2004 Author;
Arnis Judzis, TerraTek

Optimization of Mud Hammer
Drilling Performance - A ...
Optimization of Mud Hammer

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INTRODUCTION In accordance with the award requirements from the Department of Energy and NETL, TerraTek (Arnis Judzis and Sidney Green) presented details

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about the Mud Hammer
Drilling Performance Testing
Project at a January 'kick-
off' meeting in Morgantown.

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Drilling Performance

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Drilling Performance DE-
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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

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Performance Testing Project
were presented at a “kick
off” meeting held in
Morgantown.

Optimization of Mud Hammer
Drilling Performance

Operators continue to look

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Performance
for ways to improve hard
rock drilling performance
through emerging
technologies. A consortium
of Department of Energy,
operator and industry
participants put together an
effort to test and optimize

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mud driven fluid hammers as one emerging technology that has shown promise to increase penetration rates in hard rock.

Optimization of Mud Hammer
Drilling Performance--A

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The results will be used to improve the state of mud hammer drilling at depth and improve the understanding and ability to use mud hammers at deeper depths and at higher wellbore

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Performance. This knowledge is helping to redesign percussion drilling tools which have shown to drill much faster at shallower depths and lower wellbore pressures.

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optimization of mud hammer
drilling performance - a
program to benchmark the
viability of advanced mud
hammer drilling

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OPTIMIZATION OF MUD HAMMER
DRILLING PERFORMANCE - A ...

This document details the progress to date on the OPTIMIZATION OF MUD HAMMER DRILLING PERFORMANCE--A PROGRAM TO BENCHMARK THE

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VIABILITY OF ADVANCED MUD
HAMMER DRILLING contract for
the quarter starting January
2002 through March 2002.
Accomplishments include the
following: In accordance to
Task 7.0 (D.

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OPTIMIZATION OF MUD HAMMER DRILLING PERFORMANCE - A . . .

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HAMMER DRILLING contract for the quarter starting January 2004 through March 2004. The DOE and TerraTek continue to wait for Novatek on the optimization portion of the testing program (they are completely rebuilding their

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fluid hammer).

OPTIMIZATION OF MUD HAMMER
DRILLING PERFORMANCE--A
PROGRAM . . .

Topics: 02 Petroleum,
Testing, Business,
Engineers, Personnel,

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Performance, Petroleum,
Drilling Fluids,
Optimization, Drilling,
Benchmarks, Availability,
Performance, Viability
Publisher: Terra Tek, Inc.
(United States)

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OPTIMIZATION OF MUD HAMMER DRILLING PERFORMANCE - A ...

- Drilling mud is mandatory for drilling deep wells in order to solve the cutting transport problems. - Deeper the well higher the temperature will be, making

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Performance
complex equipment to fail
Most of the drilling hammers
have shown excellent results
when tested with air or
clear water, but the

Use of Downhole Mud-Driven
Hammer for Geothermal

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Performance

This document details the progress to date on the ' 'OPTIMIZATION OF MUD HAMMER DRILLING PERFORMANCE -- A PROGRAM TO BENCHMARK THE VIABILITY OF ADVANCED MUD HAMMER DRILLING' ' contract

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Performance
for the quarter starting
October 2002 through
December 2002.

OPTIMIZATION OF MUD HAMMER
DRILLING PERFORMANCE - A ...

This document details the
progress to date on the

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OPTIMIZATION OF MUD HAMMER
DRILLING PERFORMANCE -- A
PROGRAM TO BENCHMARK THE
VIABILITY OF ADVANCED MUD
HAMMER DRILLING contract for
the quarter starting January
2001 through March 2001.
Accomplishments to date

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Performance
include the following: (1)

On January 9th of 2001,
details of the Mud Hammer
Drilling Performance Testing
Project were presented at a
...

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Operators continue to look for ways to improve hard rock drilling performance through emerging technologies. A consortium of Department of Energy,

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Performance and industry participants put together an effort to test and optimize mud driven fluid hammers as one emerging technology that has shown promise to increase penetration rates in hard rock. The thrust of

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Performance
This program has been to test and record the performance of fluid hammers in full scale test conditions including, hard formations at simulated depth, high density/high solids drilling muds, and

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Performance realistic fluid power levels. This paper details the testing and results of testing two 7 3/4 inch diameter mud hammers with 8 1/2 inch hammer bits. A Novatek MHN5 and an SDS Digger FH185 mud hammer were

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Performance
tested with several bit types, with performance being compared to a conventional (IADC Code 537) tricone bit. These tools functionally operated in all of the simulated downhole environments. The

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Performance was in the range of the baseline tricone or better at lower borehole pressures, but at higher borehole pressures the performance was in the lower range or below that of the baseline tricone bit. A new

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Drilling mode was observed, while operating the MHN5 mud hammer. This mode was noticed as the weight on bit (WOB) was in transition from low to high applied load. During this new 'transition drilling mode', performance

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Performance was substantially improved and in some cases outperformed the tricone bit. Improvements were noted for the SDS tool while drilling with a more aggressive bit design. Future work includes the

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Optimization of these or the next generation tools for operating in higher density and higher borehole pressure conditions and improving bit design and technology based on the knowledge gained from this test program.

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This book reports the results of exhaustive research work on modeling and control of vertical oil well drilling systems. It is focused on the analysis of the system-dynamic response

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and the elimination of the most damaging drill string vibration modes affecting overall perforation performance: stick-slip (torsional vibration) and bit-bounce (axial vibration). The text is

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Performance organized in three parts.

The first part, Modeling, presents lumped- and distributed-parameter models that allow the dynamic behavior of the drill string to be characterized; a comprehensive mathematical

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Performance model taking into account mechanical and electric components of the overall drilling system is also provided. The distributed nature of the system is accommodated by considering a system of wave equations

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Performance
subject to nonlinear
boundary conditions; this
model is transformed into a
pair of neutral-type time-
delay equations which can
overcome the complexity
involved in the analysis and
simulation of the partial

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Differential equation model.
The second part, Analysis,
is devoted to the study of
the response of the system
described by the time-delay
model; important properties
useful for analyzing system
stability are investigated

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Performance- and time-
domain techniques are
reviewed. Part III, Control,
concerns the design of
stabilizing control laws
aimed at eliminating
undesirable drilling
vibrations; diverse control

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Performance based on
infinite--dimensional system
representations are designed
and evaluated. The control
proposals are shown to be
effective in suppressing
stick-slip and bit-bounce so
that a considerable

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Improvement of the overall drilling performance can be achieved. This self-contained book provides operational guidelines to avoid drilling vibrations. Furthermore, since the modeling and control

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Techniques presented here
can be generalized to treat
diverse engineering
problems, it constitutes a
useful resource to
researchers working on
control and its engineering
application in oil well

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