

MAC Sub

Service



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Multy
Activation
Circulating
Sub



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MAC Sub Service

A Method of Cost Saving

Facing losses has always been a challenge in drilling history. Especially if you use tools in drill string which has limitations for solids in mud system!

Before, there were only two options on the table. Either pump Loss Circulation Material (LCM) with low concentration or pull out of the hole and change the string to conventional string with no limitation in pumping LCM material. In both cases, time is wasted and so does the money.

MAC Sub Service

How it Saves Your Cost

With the Invention of Multi-Activation Circulating Subs, it is easy to pump large LCM material into the hole with no concern regarding sensitive, expensive, high-tech tools such as LWD & MWD. The Mechanical MAC Sub is a mid-string circulating tool. It can be run in milling, drilling, and wellbore clean-up strings to improve circulation and assist with hole cleaning, without compromising pressures in the well.

“

MAC Sub will deduct the cost spent on several trips and will allow you to manage your expenditure wisely

”



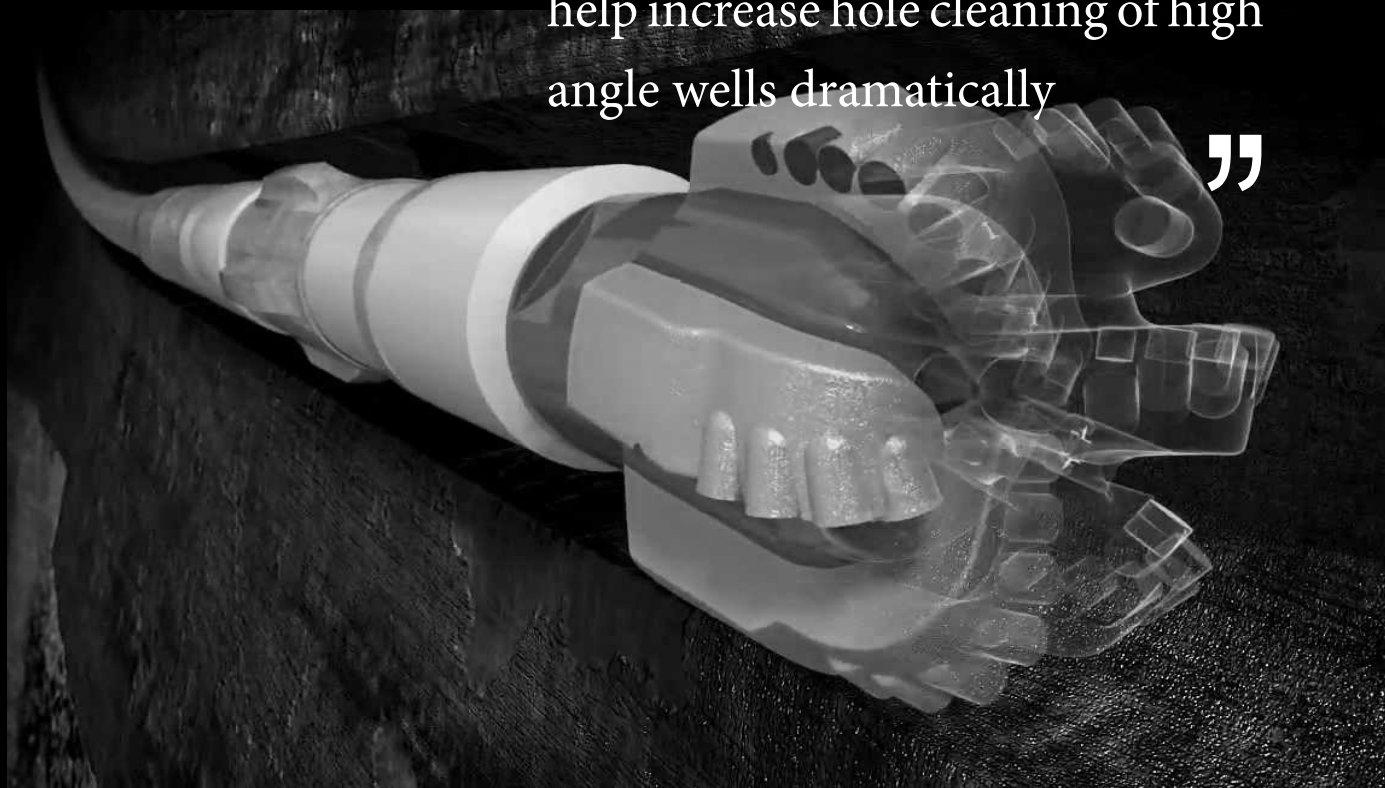
OUR SERVICE ADVANTAGES

1. IMPROVED WELL CLEANING IN HIGH ANGLE WELLS

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The MAC Sub is the perfect tool for use in ‘High Angle’ and ‘Horizontal’ wells. This will help increase hole cleaning of high angle wells dramatically

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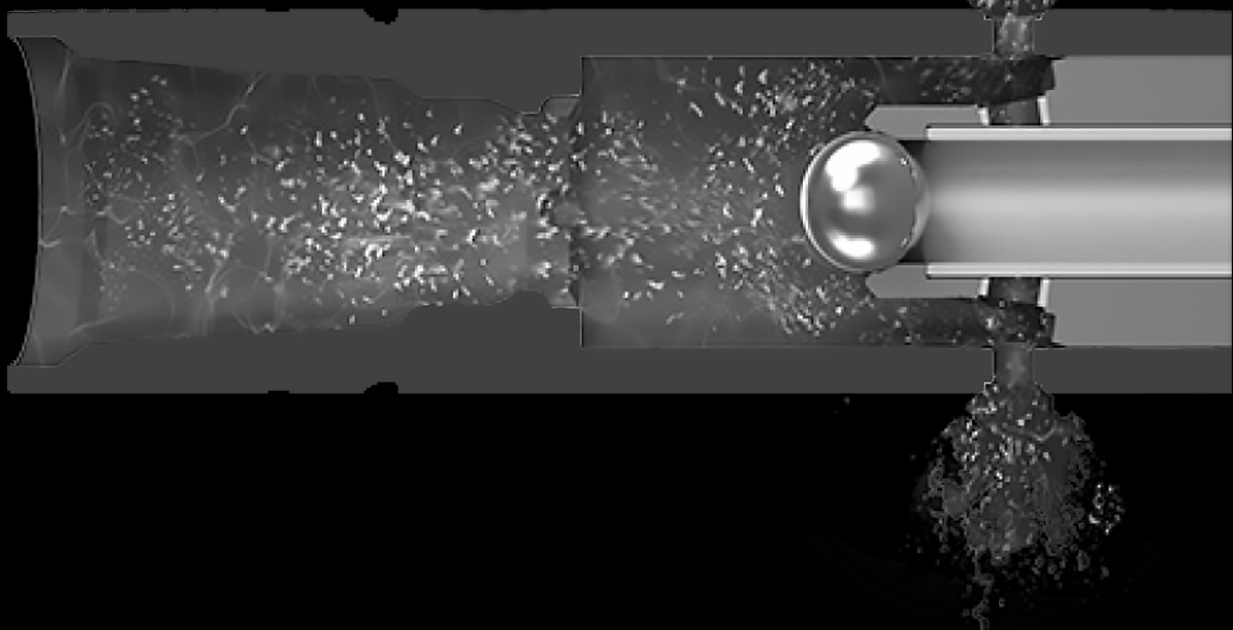
OUR SERVICE ADVANTAGES

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All tools have two large circulating ports as standard which greatly reduces the risk of plugging. So, client should not worry about the size of LCM or other materials pumping in well.

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**2. TWO PORTS
CAN HANDLE
COMPLETE
FLOW DIVERT**



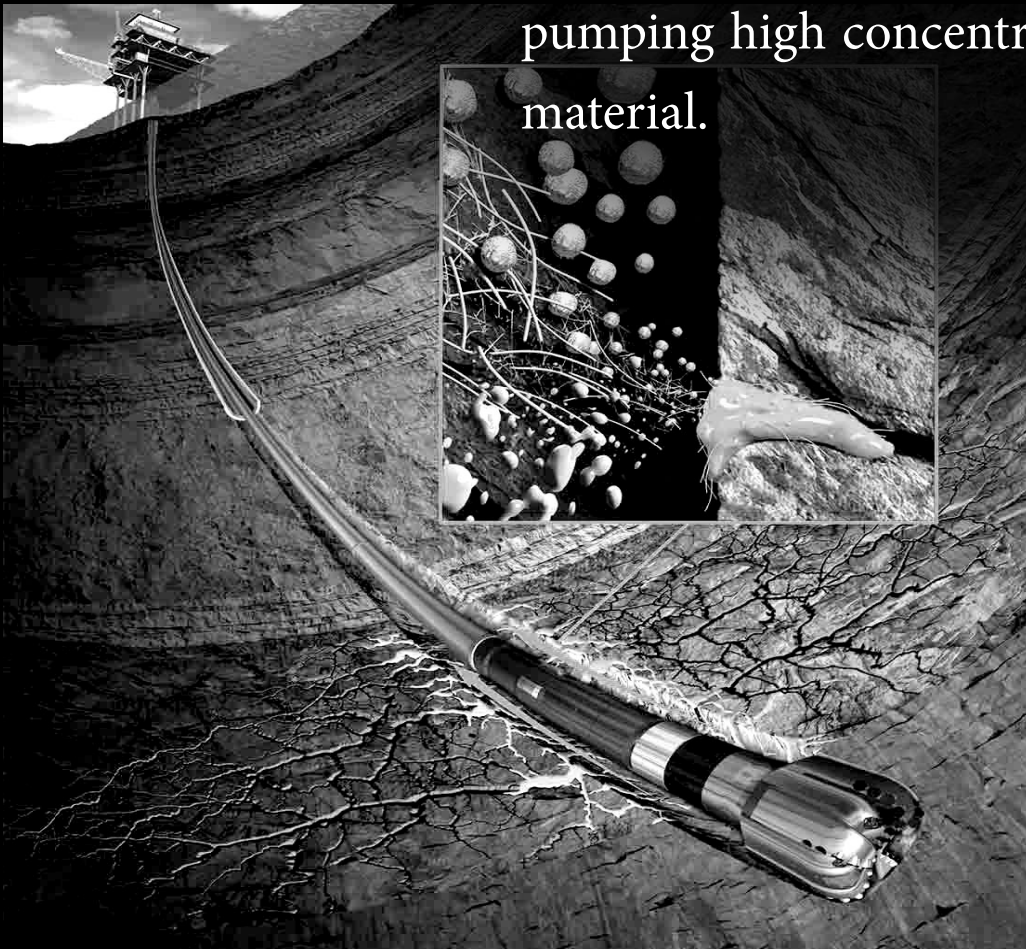
OUR SERVICE ADVANTAGES

3. FULL CONTROL FOR CURING THE LOSS

“

The MAC Sub is designed to divert flow from MWD and Motor. This means no restriction in pumping high concentration of LCM material.

”



OUR SERVICE ADVANTAGES

4. REMOVES TRIPS FOR CHANGING BHA

“

Due to the unique design of the MAC Sub, Client can change the flow from BHA to Ports and when pumping LCM is finished, the flow will be returned to BHA. This means no added trip is required to change BHA to cure the loss. This will reduce costs tremendously.

”



OUR SERVICE ADVANTAGES

5. CLEANING INSIDE BOP IS NOW AS EASY AS TURNING

“

The MAC Sub can be run into the well bore in the ‘locked open’ position.

This means all the flow will be directed through the ports from the beginning. This will make washing inside BOP very easy!

”

OUR SERVICE ADVANTAGES

6. YOU ARE THE WELL COMMANDER

“

With unique design of MAC Sub, it will permit up to five open and close functions as standard. This means you can clean your high angle well, cure the loss using high concentration LCM as much as 5 times. Your well, your command!

”



Easy Method of Activating

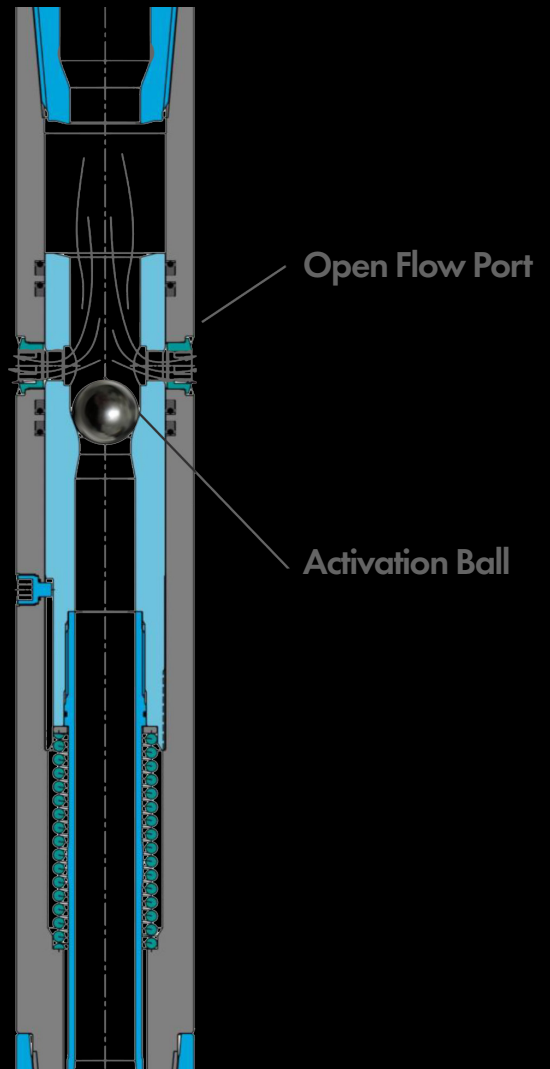
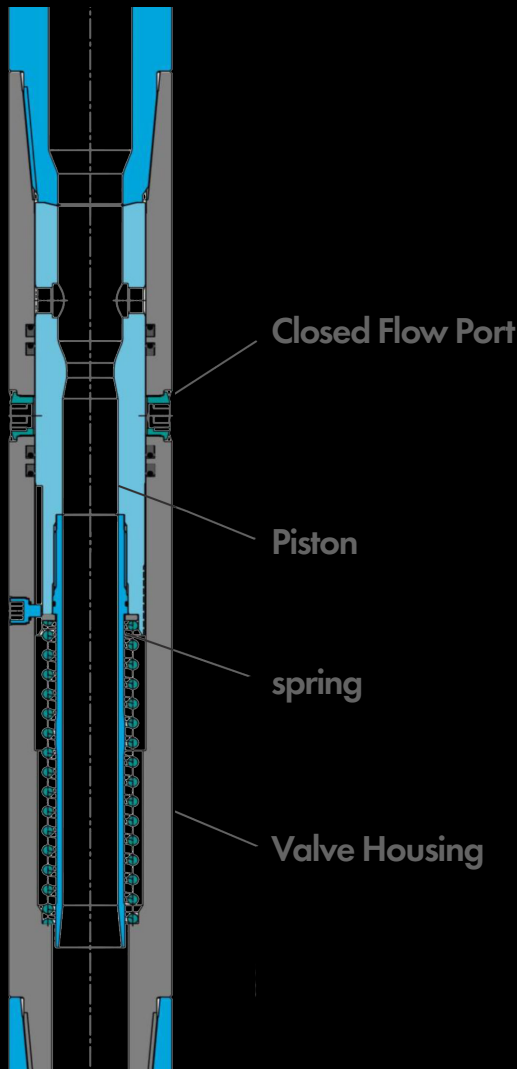


All you need to do is dropping the setting ball into the string and the circulation will be diverted from the sub.



1. Starting Point

2. Valve Activation



Easy Method of De-Activating

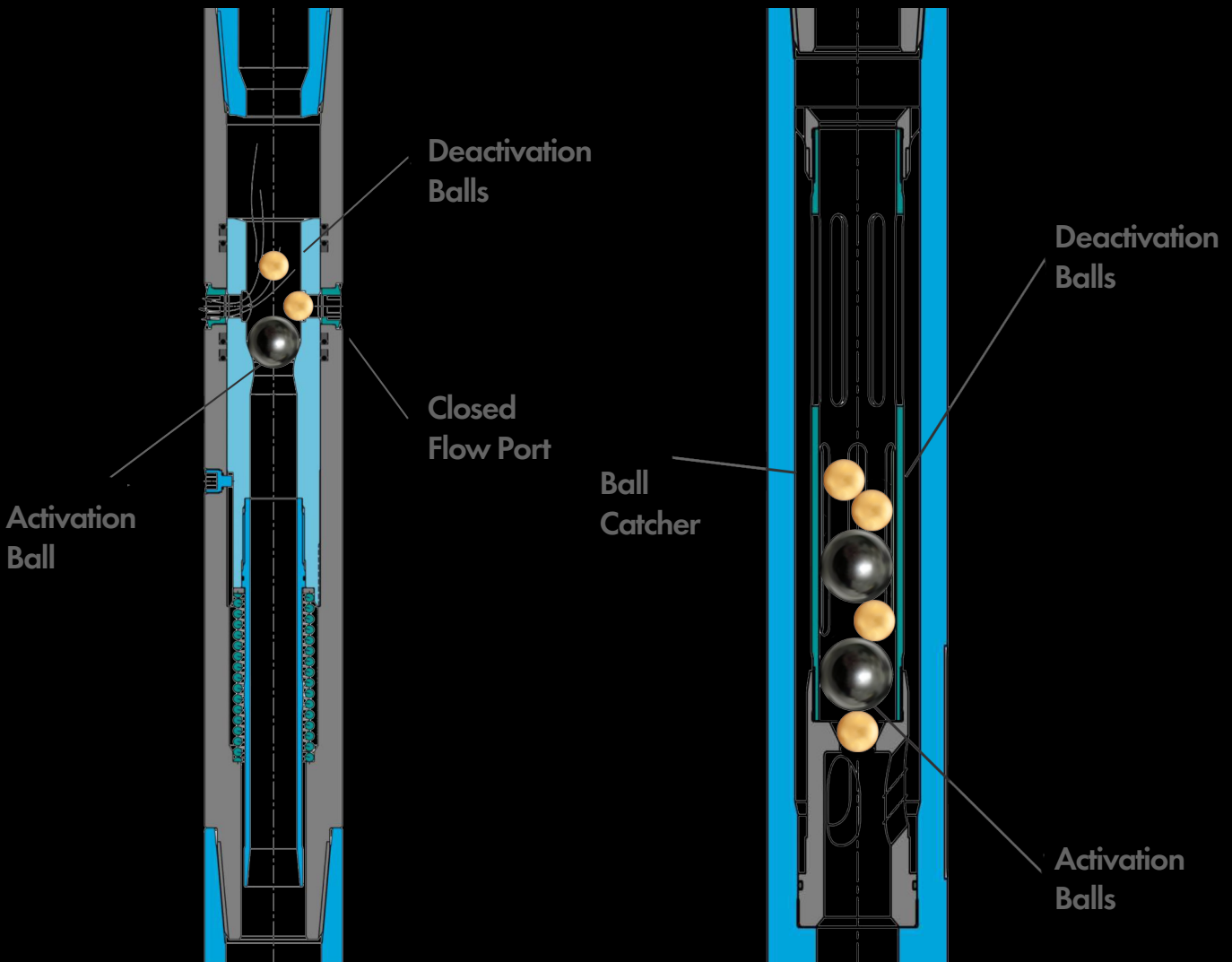


After curing the sub, just drop deactivating ball into the string and the circulation is back from the bit.



1. Valve Deactivation

2. Valve Reset



Save your Time & Money

Saving enormous time in formations with high losses, GETS offers its MAC Sub services along with technical support to make sure clients will benefit from time and cost saving solution whenever is needed.



We Are Available
Whenever You Need Us

Gam
Energy
Total
Solutions

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