FILE NAME: Drilling Specialties (DRSP)

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FLOSAL INFORMATION

FLOSAL is a white, native calcium-magnesium silicate composed of fine, slender, waxy fibers.

1. FLOSAL induces viscosity in both fresh and salt water systems.
2. Extremely low solids muds can be compounded with FLOSAL.
3. FLOSAL is effective in conventional emulsion muds.
4. FLOSAL is compatible with most water loss control additives.
5. FLOSAL is stable at all temperatures encountered in drilling.
6. FLOSAL does not deteriorate in storage.
7. FLOSAL is non-toxic.
8. FLOSAL is mixed readily with conventional rig equipment.
9. FLOSAL is synergistic with DRISPAC*.
10. FLOSAL stops seepage losses.

GENERAL

~~FLOSAL Advantages~~

FLOSAL is a versatile viscosifier, effective in both fresh water and salty mud systems. Many wells being drilled today are required to change from fresh water to salt water mud and then perhaps back again as various formations are penetrated. With FLOSAL, only one viscosifier is necessary under all of these varying conditions. This simplifies storage at the rig.

A smaller amount of FLOSAL produces more viscosity than either bentonite or attapulgite clays and therefore requires less space in the mud house. This great effectiveness of FLOSAL often allows one truck load of mud additives to be sufficient for the drilling of a well to total depth. The FLOSAL left at the end of a job can be readily moved in

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CDO 255672

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PLAINTIFF'S EXHIBIT

DMA-1684

cc: Mr. A. V. Williams

ASB 001246

March 13, 1964

FLOSAL* Information

File: P-3-Ba-63-640

Mr. Dan M. Mikins
Manager of Purchasing
Magnet Cove Barium Corporation
P. O. Box 6504
Houston 5, Texas

Dear Sir:

This is in reply to your letter of February 14 to Van Williams requesting information concerning our new product, FLOSAL. A technical bulletin for this material is still not ready for publication but you may find the following information useful while awaiting a printed brochure.

the mud house to the next location. The small amount of FLOSAL necessary to produce normal viscosities keeps mud solids to an absolute minimum. The ultra low solids drilling fluids produced by FLOSAL allow the fastest rates of penetration of which a drilling rig is capable. This small amount of FLOSAL necessary to produce good hole cleaning and cuttings removal can be mixed quickly and with conventional rig equipment.

FLOSAL is compatible with the conventional water loss control agents. To produce ultra low solids muds with water loss control, the high swelling polymer, DRISPAC, can be used in muds with any degree of salinity without sterilizing the system. Starch can be used if proper precautions are taken to prevent its degradation by micro-organisms. Starch, however, does not produce the ultra low solids systems and may slow down the drilling rate.

FLOSAL is stable at temperatures encountered in a well of any depth. The absence of clays in a FLOSAL mud system insures it against heat gelation.

FLOSAL has found extensive use in overcoming seepage type losses and increasing the viscosity of both fresh and salt water before a more extensive mud up is needed. In these cases FLOSAL and water with no additional additives unless oil or SOLTEX* are added for increased side wall lubrication.

Major Advantages

The major advantages obtained by the use of FLOSAL are the versatility of the mud and its lack of solids.

MB DATA →

Field Examples

In Dewey County, Oklahoma, two wells were drilled offsetting each other. The first one employed conventional mud systems. A salt section was exposed requiring a bentonite mud part way and then attapulgite clay, starch and starch preservatives to total depth. Below is a comparison of these two wells:

	Well No. 1	Well No. 2 (Used FLOSAL)
Total Mud Cost	~~$52,000.77~~ $5200.77	$ 4,484.53
Bits Under Surface	31	25
Rotating Hours Under Surface	416	349½
Drilling Rate After Mud Up	12.2'/hr	14.7'/hr

The record well in this field before the well was drilled using FLOSAL used 27 bits under surface, 396 rotating hours and had an average drilling rate after mud up of 13.7'/hr.

I hope this is useful to you.

CDD 255673

Yours very truly,

ORIGINAL SIGNED BY
H. M. BARRETT

H. M. Barrett, Manager

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