

FILE NAME: Drilling Specialties (DRSP)

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FIOSAL INFORMATION

FIOSAL is a white, inactive calcium-magnesium silicate composed of fine, slender, wavy fibers.

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

~~Reference to:~~
~~FIOSAL, DETERGAC.~~

FIOSAL 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 FIOSAL, only one viscosifier is necessary under all of these varying conditions. This simplifies storage at the rig.

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

* A Trademark

DDO 255672

DSC 15821

PLAINTIFF'S EXHIBIT

DMFA-1684

cc: Mr. A. V. Williams

March 13, 1964

ASB 001246

LOCAL INFORMATION

File: P-9-Ba-63-64D

Mr. Dan K. Eklund
Manager of Purchasing
Magnet Core Products Corporation
P. O. Box 6304
Houston 5, Texas

Dear Sir:

This is in reply to your letter of February 14, to Van Williams requesting information concerning our new product, FIDIAL. 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.

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

FLOSAI is compatible with the conventional water loss control agents. To produce ultra low solids muds with water loss control, the high swelling polymer, DRISPAQ, 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.

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

FLOSAI 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 FLOSAI and water with no additional additives unless oil or SOLTEK* are added for increased side wall lubrication.

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Major Advantages

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

LAB 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 attapulgate clay, starch and starch preservatives to total depth. Below is a comparison of these two wells:

	Well No. 1	Well No. 2 (Used FLOSAI)
Total Mud Cost	\$5200.71	\$52,000.71
Bits Under Surface	31	25
Rotating Hours Under Surface	416	349 1/2
Drilling Rate After Mud Up	12.2' / hr	14.7' / hr

The record well in this field before the well was drilled using FLOSAI 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.

DDO 255673

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Yours very truly,
ORIGINAL SIGNED BY
H. M. BARRETT
H. M. Barrett, Manager
Production and Development

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