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38840

MONSANTO
SEAL SANDS 1/W45
CORE ANALYSIS

4.4 Core Analysis



CORE LABORATORIES, INC.

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International Department

REPLY TO
2, Mitcham Industrial Estate
Streatham Road
Mitcham, London, CR4 2AP

JSG/may.

29th January, 1975.

Monsanto Chemicals Ltd.,
Monsanto House,
14-18, Victoria Street,
London,
S.W.1.

Attention: Mr. Bill McCaw.

Ref: UKCA/996.

Dear Sir,

Sidewall sliced samples from your Teeside Disposal well were analysed for porosity and permeability in this laboratory.

Porosity measurements were obtained using the Boyles Law helium gas expansion method and permeability by micropermeameter, after the samples were resin mounted. From 4264'7" to 4265'10" porosity samples were taken in variance to permeability samples owing to small core size, however, the values reported will be representative of the total interval.

We trust that this report meets with your approval and thankyou for the opportunity to be of service.

Yours sincerely,
CORE LABORATORIES, INC.

J.S. Green.
Laboratory Manager.

Core Analysis Results

Company MONSANTO LIMITED Formation _____ File UKCA 996
 Well DISPOSAL WELL NO. 1 Core Type _____ Date Report JANUARY 1975
 Field UK Drilling Fluid _____ Analysts JG
 County SEAL SANDS State TEESIDE Elev. _____ Location ONSHORE

Lithological Abbreviations

| | | | | | | | | |
|----------|--------------|--------------------|-----------|------------|-----------------|-----------|----------------|-------------|
| Sand-Sd | Dolomite-Dol | Anhydrite-Anhy | Sandy-Sdy | Fine-Fn | Crystalline-Xlm | Brown-Brn | Fractured-Frac | Slightly-Sl |
| Shale-Sh | Chert-Ch | Conglomerate-Cong | Shaly-Shy | Medium-Med | Grain-Grn | Gray-Gy | Lamination-Lam | Very-V/ |
| Lime-Lm | Gypsum-Gyp | Fossiliferous-Foss | Limy-Lmy | Coarse-Cse | Granular-Grnl | Vuggy-Vgy | Stylolitic-Sty | With-W/ |

| Sample Number | Depth Feet | Horizontal Permeability Millidarcys | | Helium Porosity Per Cent | Residual Saturation Per Cent Pore | | Sample Description and Remarks |
|---------------|------------|-------------------------------------|----|--------------------------|-----------------------------------|-------------|--------------------------------|
| | | Ka | Kl | | Oil | Total Water | |

CORE NO. 1

| | | | | |
|---------|-----|-----|------|------------------------------|
| 4529'3" | 1.6 | 1.1 | 10.3 | Ss, gy, m-fg, w std, w cmtd. |
| 4530'0" | 2.7 | 1.9 | 10.6 | AA |
| 4531'0" | 2.3 | 1.6 | 10.9 | AA |
| 4532'0" | 1.2 | 0.8 | 9.3 | AA |

CORE NO. 2

| | | | | |
|---------|------|------|------|------------------------------|
| 4521'0" | 8.1 | 6.2 | 13.7 | Ss, gy, m-fg, w std, w cmtd. |
| 4522'0" | 6.7 | 5.1 | 13.4 | AA |
| 4523'0" | 4.8 | 3.6 | 12.8 | AA |
| 4524'0" | 0.53 | 0.34 | 11.8 | AA |

CORE NO. 3

| | | | | |
|----------|------|------|------|------------------------------|
| 4263'0" | 0.24 | 0.15 | 3.7 | Ss, gy, fg, w std, v w cmtd. |
| 4264'0" | 0.13 | 0.08 | 8.5 | AA, m-fg. |
| 4264'7" | | | 10.7 | - |
| 4264'11" | 0.08 | 0.05 | | AA, m-fg. |
| 4265'8" | 0.77 | 0.52 | | AA |
| 4265'10" | | | 7.1 | - |

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