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T. 26 R.16W Sec. 4

V__CO Water Analysis

Prepared for STERLING DRILLING

TROUSDALE, KS

Gary L. Fritzler
NALCO Chemical Company

7-Jan-86

Well Number : CUDNEY B-5-√

Water Source : WELLHEAD

| DISSOLVED | SOLIDS |
|-----------|--------|
| ======== | ====== |

| | i ' | | | |
|--|------------------------------------|------------------------------|---|-----------------------|
| Cations | mg/l ==== | meq/1 | | mg/l ==== |
| Sodium Na+ Calcium Ca++ Magnesium Mg++ Barium Ba++ | 39,897.57 11,520.00 2,235.60 | 1,734.68 576.00 183.99 | as NaCl as CaCO3 as CaCO3 as CaCO3 | 28,800.00 9,200.00 |
| Total Cations | 53,653.17 | 2,494.67 | | |
| Anions | mg/l ==== | meq/l ===== | | mg/l |
| Chloride Cl- Sulfate SO4= Carbonate CO3= | 88,015.00 473.20 | 2,482.02 9.84 | as NaCl as Na2SO4 as CaCO3 | 145,000.00 |
| B' wrb. HC03- | 170.80 | 2.80 | as CaCO3 | 140.00 |
| Total Anions | 88,659.00 | 2,494.67 | | |
| Total Solids | .142,312.17 | | | |
| Total Iron, Fe Acid to Phen, CO2 | 202.40 | | as Fe as CaCO3 | 460.00 |

SCALING INDICES

| ====== | ===== | | |
|--|---|----------------------------------|-------|
| Temp | CaCO3 | CaSO4 | BaSO4 |
| 50 F 77 F 95 F 122 F 149 F 176 F 203 F | -0.64 -0.40 -0.19 +0.18 +0.64 +1.20 +1.83 | -9.46 -9.74 -9.22 -8.56 | ., |
| | | | |

Positive values indicate scaling is likely.
Scaling Indices calculated using ASTM standard practices.

Or 'R PROPERTIES

| рH | 6.00 |
|-------------------|------|
| Specific Gravity | 1.12 |
| Turbidity | |
| Oxygen, as O2 ppm | |