



Acid Solubility Cond't

<u>Sample Depth</u> (feet)	<u>Per cent Soluble In</u>	
	<u>15X</u>	<u>Mud Acid</u>
2081	1.1	11.3
2082	0.5	12.9
2083	0.6	12.8
2084	0.8	18.8
2085	1.4	15.6
2086	1.3	14.5
2087	1.7	15.3
2088	1.2	15.1
2089	2.2	16.4
2090	37.1	37.3
2091	5.8	17.3
2092	4.4	18.7
2093	5.0	18.3
2094	2.8	15.8
2095	4.5	18.6

Air Permeability and Porosity

These measurements were made on clean dry cores. Air permeabilities were determined from pressure-flow rate measurements. Porosities were determined using an Air Compression Pycnometer.

<u>Sample Depth</u> (feet)	<u>Air Permeability</u> (md)	<u>Porosity</u> (%)	
2069	0.6	13.3	
2070	0.6	13.4	
2071	0.5	13.0	
2072	2.4	12.6	Frac
2073	12	14.1	Frac
2074	1.5	12.9	
2075	1.7	11.7	
2076	0.4	15.4	
2077	0.3	14.1	
2078	0.6	15.9	
2079	0.5	14.8	
2080	1.8	18.8	
2081	0.4	14.0	
2082	0.2	11.7	
2083	1.5	16.6	
2084	0.8	16.9	
2085	0.4	16.3	
2086	0.6	16.1	
2086	0.6	16.1	

Air Permeability and Porosity

<u>Sample Depth</u> (feet)	<u>Air Permeability</u> (md)	<u>Porosity</u> (%)
2087	0.6	15.4
2088	0.3	11.9
2089	0.1	10.1
2090	0.1	2.0
2091	0.3	12.6
2092	1.2	13.3
2093	0.2	12.8
2094	0.1	10.3
2095	0.1	2.4

Formation Hardness

Hardness measurements were made by placing a 1/16 inch diameter spherical tip on a water wet section of core, an increasing load was applied and the depth of penetration was recorded. Dowell has a hardness classification system employing four ranges of hardness. These are soft, medium hard, hard and very hard.

<u>Sample Depth</u> (feet)	<u>Hardness</u> <u>Classification</u>	<u>Modulus of Elasticity</u> (psi)
2069	Medium Hard	6.5 x 10 ⁶
2070	Hard	9.5 x 10 ⁶
2071	Medium Hard	6.5 x 10 ⁶
2072	Medium Hard	6.5 x 10 ⁶
2073	Hard	9.5 x 10 ⁶
2074	Soft	2.3 x 10 ⁶
2075	Hard	9.5 x 10 ⁶
2076	Medium Hard	6.5 x 10 ⁶
2077	Medium Hard	6.5 x 10 ⁶
2078	Soft	2.3 x 10 ⁶
2079	Medium Hard	6.5 x 10 ⁶
2080	Medium Hard	6.5 x 10 ⁶
2081	Medium Hard	6.5 x 10 ⁶
2082		
2083	Medium	6.5 x 10 ⁶
2084	Soft	2.3 x 10 ⁶
2085	Soft	2.3 x 10 ⁶
2086	Medium Hard	6.5 x 10 ⁶
2087	Medium Hard	6.5 x 10 ⁶
2088	Medium Hard	6.5 x 10 ⁶