

MASTER

Technical Report 80-2

CALIBRATION CHARACTERISTICS OF IRAD-GAGE
VIBRATING-WIRE STRESSMETER
AT NORMAL AND HIGH TEMPERATURE

VOLUME 2

Prepared for

University of California
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by

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IRAD GAGE
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October, 1981

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"This report is an account of work performed by IRAD for the University of California, Lawrence Livermore National Laboratory. The intent of the work was to obtain laboratory calibration data for the vibrating wire stress meter in Climax Stock Quartz Monzonite. The theoretical development contained in this report is incidental to the main task, is incomplete at this stage, and is included in this report only to indicate avenues so far explored in understanding the gage-rock interaction problem."

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VOLUME 2

APPENDIX 9

Raw Data of the Calibration Study Tests

TEST NO. 12 UNIAXIAL BIAXIAL TRIAXIAL
 SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET
 MULTI CYCLE REPEATABILITY DATE 4/8/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>V49</u>	MATERIAL/NO. <u>B4</u>
BENCH RDG. <u>1884</u>	ORIENTATION <u>HORIZONTAL</u>
SETTING PRELOAD <u>+215</u>	CONTACT AREA <u>15.25 in.²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>197 psi</u>
TEMPERATURE <u>70°F</u>	TEMPERATURE <u>70°F</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	2099	—	—	—	—
4000	66	2105	2074	2071	2069	2071
8000	328	2126	2093	2091	2090	2091
12000	590	2148	2120	2116	2116	2117
16000	852	2175	2149	2146	2144	2146
20000	1115	2204	2184	2181	2180	2182
24000	1377	2234	2219	2217	2214	2217
28000	1639	2262	2257	2255	2254	2255
32000	1902	2304	2297	2293	2292	2294
36000	2164	2342	2339	2336	2333	2336

TEST NO. 27

UNIAXIAL



BIAXIAL



TRIAXIAL



SINGLE CYCLE REPEATABILITY

TEST OPERATOR

RWA/RET

MULTI CYCLE REPEATABILITY

DATE

4/9-10/81

TEST OBJECTIVE:

STRESSMETERGAGE NO. V49BENCH RDG. 1884SETTING PRELOAD +150ORIENTATION VERTICALTEMPERATURE 90°FPLATEN FORM HRSLABMATERIAL/NO. C2ORIENTATION HORIZONTALCONTACT AREA 14.14 in²INITIAL STRESSFIELD 212 psiTEMPERATURE 90°F

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4 2-3
		1	2	3	4	
3000	0	2034	2020	2019		2019
4000	71	2033	2021	2017		2020
8000	354	2037	2027	2031		2029
12000	636	2042	2033	2038		2035
16000	910	2047	2039	-		2039
20000	1202	2053	2047	2046		2046
24000	1485	2057	2054	2052		2053
28000	1751	2062	2060	2059		2059

TEST NO. 32 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR PLH/RET

MULTI CYCLE REPEATABILITY

DATE 4/9/80

TEST OBJECTIVE:

STRESSMETER
 GAGE NO. V49
 BENCH RDG. 1884
 SETTING PRELOAD +191
 ORIENTATION VERTICAL
 TEMPERATURE RT
 PLATEN FORM HR

SLAB
 MATERIAL/NO. A1
 ORIENTATION VERTICAL
 CONTACT AREA 15.02 in²
 INITIAL STRESSFIELD 200 psc
 TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	2075	2034	2035	2035	2035
8000	333	2099	2057	2058	2057	2057
16000	866	2151	2106	2106	2106	2106
24000	1398	2213	2166	2166	2165	2166
32000	1931	2282	2236	2236	2237	2236
40000	2463	2355	2314	2316	2315	2315
48000	2996	2445	2403	2403	2403	2403
56000	3529	2542	2504	2502	2505	2504
64000	4061	2651	2616	2618	2615	2616

TEST NO. 33 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR PWH/RET

MULTI CYCLE REPEATABILITY

DATE 4/9/80

TEST OBJECTIVE:

STRESSMETER
GAGE NO. V49
BENCH RDG. 1854
SETTING PRELOAD 4196
ORIENTATION VERTICAL
TEMPERATURE 90°F
PLATEN FORM HR

SLAB
MATERIAL/NO. A1
ORIENTATION HORIZONTAL
CONTACT AREA 15.02
INITIAL STRESSFIELD 200 psi
TEMPERATURE 90°F

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	2080	2035	2034	2033	2034
8000	333	2109	2061	2060	2060	2060
16000	866	2164	2114	2113	2113	2113
24000	1398	2230	2180	2179	2179	2179
32000	1931	2303	2252	2253	2252	2252
40000	2463	2385	2357	2336	2336	2336
48000	2996	2477	2429	2430	2429	2429
56000	3529	2579	2535	2536	2534	2535
64000	4061	2698	2659	2657	2659	2658

TEST NO. 33 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR _____

MULTI CYCLE REPEATABILITY DATE 4/9/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>V49</u>	MATERIAL/NO. _____
BENCH RDG. _____	ORIENTATION _____
SETTING PRELOAD _____	CONTACT AREA _____
ORIENTATION _____	INITIAL STRESSFIELD _____
TEMPERATURE _____	TEMPERATURE _____
PLATEN FORM _____	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
72000	4594	2834	2798	2798	—	2798
80000	5126	2995	2962	2963	2966	2964
88000	5659	3186	3160	3160	3160	3160
96000	6192	3396	3381	3380	3382	3381
104000	6724	3629	3632	3632	3631	3632

TEST NO. 35 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 4/9/80

TEST OBJECTIVE:

STRESSMETER
 GAGE NO. V 49
 BENCH RDG. 1884
 SETTING PRELOAD +177
 ORIENTATION VERTICAL
 TEMPERATURE RT
 PLATEN FORM HR

SLAB
 MATERIAL/NO. C2
 ORIENTATION VERTICAL
 CONTACT AREA 14.28 in.²
 INITIAL STRESSFIELD 210 psi
 TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	2061	2038	2036	2035	2036
4000	70	2065	2043	2042	2040	2042
8000	350	2085	2062	2061	2059	2061
12000	630	2105	2085	2083	2081	2083
16000	910	2108	2110	2108	2106	2108
20000	1190	2152	2138	2134	2134	2135
24000	1471	2176	2165	2164	2161	2164
28000	1751	2202	2195	2191	2190	2192
32000	2031	2227	2223	2220	2220	2221

TEST NO. 36 UNIAXIAL BIAXIAL TRIAXIAL
 SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/JEG
 MULTI CYCLE REPEATABILITY DATE 4/22/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>B4</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+40</u>	CONTACT AREA <u>15.32 in.²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>196 psi</u>
TEMPERATURE <u>73°F</u>	TEMPERATURE <u>73°F</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1776	1775	1773	1773	1774
4000	65		1778	1777	1776	1777
8000	326		1793	1792	1791	1792
12000	587		1811	1810	1809	1810
16000	849		1832	1831	1829	1831
20000	1110		1853	1851	1851	1852
24000	1371		1875	1873	1872	1873
28000	1632		1898	1897	1895	1897
32000	1893		1922	1920	1919	1920
36000	2154		1947	1945	1944	1945

TEST NO. 57 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/JEG

MULTI CYCLE REPEATABILITY DATE 4/22/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>B4</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+ 92</u>	CONTACT AREA <u>15.32 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>196 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1828	1817	1816	1814	1816
4000	65		1821	1820	1820	1820
8000	326		1841	1840	1838	1840
12000	587		1866	1865	1864	1865
16000	849		1893	1892	1891	1892
20000	1110		1921	1921	1919	1921
24000	1371		1953	1950	1949	1951
28000	1632		1982	1980	1980	1981
32000	1893		2013	2011	2011	2012
36000	2154		2046	2043	2042	2044

TEST NO. 38 UNIAXIAL BIAXIAL TRIAXIAL
 SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/JEG
 MULTI CYCLE REPEATABILITY DATE 4/23/80

TEST OBJECTIVE:

<p><u>STRESSMETER</u></p> <p>GAGE NO. <u>916</u></p> <p>BENCH RDG. <u>1236</u></p> <p>SETTING PRELOAD <u>+140</u></p> <p>ORIENTATION <u>VERTICAL</u></p> <p>TEMPERATURE <u>RT</u></p> <p>PLATEN FORM <u>HR</u></p>	<p><u>SLAB</u></p> <p>MATERIAL/NO. <u>B4</u></p> <p>ORIENTATION <u>VERTICAL</u></p> <p>CONTACT AREA <u>15.32 in²</u></p> <p>INITIAL STRESSFIELD <u>196 psi</u></p> <p>TEMPERATURE <u>RT</u></p>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1876	1860	1857	1854	1857
4000	65		1866	1863	1861	1863
8000	326		1893	1889	1887	1890
12000	587		1922	1920	1917	1920
16000	849		1957	1954	1951	1954
20000	1110		1992	1990	1987	1990
24000	1371		2029	2027	2024	2027
28000	1632		2069	2066	2062	2064
32000	1893		2107	2105	2101	2104
36000	2154		2147	2144	2141	2144

TEST NO. 39 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH LIES

MULTI CYCLE REPEATABILITY

DATE 4/22/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>B4</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+185</u>	CONTACT AREA <u>15.32 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>196 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1921	1902	1902	1900	1901
4000	65		1911	1908	1906	1908
8000	326		1941	1938	1937	1939
12000	587		1977	1977	1974	1976
16000	849		2019	2017	2016	2017
20000	1110		2063	2058	2058	2060
24000	1371		2109	2108	2103	2107
28000	1632		2155	2152	2149	2152
32000	1893		2201	2199	2198	2198
36000	2154		2253	2250	2246	2249

TEST NO. 40 UNIAXIAL BIAXIAL TRIAXIAL
 SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/JEG
 MULTI CYCLE REPEATABILITY DATE 4/22/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>B4</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+231</u>	CONTACT AREA <u>15.32 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>196 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1967	1946	—	1941	1943
4000	65		1954	1952	1949	1951
8000	326		1988	1986	1983	1985
12000	587		2031	2028	2027	2029
16000	849		2076	2075	2073	2075
20000	1110		2126	2124	2121	2124
24000	1321		2178	2175	2172	2175
28000	1632		2232	2229	2227	2229
32000	1893		2286	2285	2282	2284
36000	2154		2344	2342	2340	2342

TEST NO. 41 UNIAXIAL BIAXIAL TRIAXIAL
 SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/JEG
 MULTI CYCLE REPEATABILITY DATE 4/22/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>B4</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>HORIZONTAL</u>
SETTING PRELOAD <u>+87</u>	CONTACT AREA <u>15.25 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>197 psi</u>
TEMPERATURE <u>90°F</u>	TEMPERATURE <u>90°F</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1823	1811	1809	1807	1809
4000	66		1812	1811	1809	1811
8000	328		1824	1822	1820	1822
12000	590		1839	1836	1834	1836
16000	852		1858	1852	1851	1853
20000	1115		1873	1871	1869	1871
24000	1377		1893	1890	1889	1890
28000	1639		1913	1910	1909	1911
32000	1902		1936	1922	1930	1933
36000	2164		1958	1955	1952	1955

TEST NO. 42 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/JEG

MULTI CYCLE REPEATABILITY DATE 4/22/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>B4</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>HORIZONTAL</u>
SETTING PRELOAD <u>+133</u>	CONTACT AREA <u>15.25 in.²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>197 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1869	1854	1852	1850	1852
4000	66		1857	1854	1853	1855
8000	328		1874	1871	1868	1871
12000	590		1894	1891	1888	1891
16000	852		1918	1915	1912	1915
20000	1115		1946	1941	1938	1941
24000	1377		1975	1971	1968	1971
28000	1639		2005	2002	1999	2002
32000	1902		2038	2034	2032	2034
36000	2164		2071	2068	2066	2068

TEST NO. 43 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/JEG

MULTI CYCLE REPEATABILITY DATE 4/22/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>84</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>HORIZONTAL</u>
SETTING PRELOAD <u>1.208</u>	CONTACT AREA <u>15.25 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>197 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1944	1926	1923	1921	1923
4000	66		1930	1927	1924	1927
8000	328		1952	1949	1947	1949
12000	590		1981	1979	1976	1979
16000	852		2016	2013	2011	2013
20000	1115		2053	2049	2046	2049
24000	1377		2092	2090	2086	2089
28000	1639		2136	2131	2127	2131
32000	1902		2178	2175	2172	2175
36000	2164		2225	2222	2218	2222

TEST NO. 45 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/JEG

MULTI CYCLE REPEATABILITY DATE 4/22/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>A1</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+160</u>	CONTACT AREA <u>15.02 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>200 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1896	1884	1884	1884	1884
8000	333		1907	1906	1906	1906
16000	866		1950	1949	1949	1949
24000	1398		2000	2002	2001	2001
32000	1931		2059	2058	2059	2059
40000	2463		2123	2124	2123	2123
48000	2996		2196	2197	2196	2196
56000	3529		2277	2277	2277	2277
64000	4061		2367	2368	2368	2368
72000	4594		2467	2471	2470	2469
80000	5126		2588	2589	2588	2588

TEST NO. 46

UNIAXIAL



BIAXIAL



TRIAXIAL



SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/JEG

MULTI CYCLE REPEATABILITY

DATE 4/22/80

TEST OBJECTIVE:

STRESSMETER
 GAGE NO. Q16
 BENCH RDG. 1736
 SETTING PRELOAD +206
 ORIENTATION VERTICAL
 TEMPERATURE RT
 PLATEN FORM HR

SLAB
 MATERIAL/NO. A1
 ORIENTATION VERTICAL
 CONTACT AREA 15.02 in.²
 INITIAL STRESSFIELD 200 psi
 TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1942	1933	1932	1931	1931
8000	333		1958	1957	1956	1957
16000	866		2007	2007	2005	2006
24000	1398		2066	2065	2064	2065
32000	1931		2131	2130	2130	2130
40000	2463		2205	—	2204	2204
48000	2996		2285	2285	2285	2285
56000	3529		2380	2379	2378	2379
64000	4061		2484	2485	2484	2484
72000	4594		2610	2607	2607	2608
80000	5126		2751	2752	2752	2752

TEST NO. 47 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/JEG

MULTI CYCLE REPEATABILITY DATE 4/32/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>C4</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+63</u>	CONTACT AREA <u>13.88 in.²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>216 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1799	1793	1792	1792	1792
4000	72		1795	1794	1793	1794
8000	360		1802	1801	1801	1801
12000	648		1812	1811	1810	1811
16000	937		1823	1822	1820	1822
20000	1225		1833	1832	1832	1832
24000	1513		1845	1843	1843	1844
28000	1801		1857	1856	1855	1856
32000	2089		1869	1868	1867	1868
36000	2378		1882	1880	1880	1881

TEST NO. 49 UNIAXIAL BIAXIAL TRIAXIAL
 SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/JEG
 MULTI CYCLE REPEATABILITY DATE 4/22/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>C1</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+106</u>	CONTACT AREA <u>13.88 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>216 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HP</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1842	1835	1835	1834	1835
4000	72		1838	1837	1836	1837
8000	360		1848	1847	1846	1847
12000	648		1860	1859	1859	1859
16000	937		1874	1872	1872	1873
20000	1225		1888	1888	1887	1888
24000	1513		1904	1903	1903	1903
28000	1801		1922	1920	1919	1920
32000	2089		1938	1937	1936	1937
36000	2378		1956	1954	1953	1954

TEST NO. 49 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/JEG

MULTI CYCLE REPEATABILITY DATE 4/22/80

TEST OBJECTIVE:

STRESSMETER
 GAGE NO. Q16
 BENCH RDG. 1736
 SETTING PRELOAD +161
 ORIENTATION VERTICAL
 TEMPERATURE RT
 PLATEN FORM HR

SLAB
 MATERIAL/NO. C4
 ORIENTATION VERTICAL
 CONTACT AREA 13.88 in²
 INITIAL STRESSFIELD 216 psi
 TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1897	1884	1887	1886	1887
4000	72		1892	1890	1889	1890
8000	360		1905	1905	1904	1905
12000	648		1923	1923	1923	1923
16000	937		1943	1942	1941	1942
20000	1225		1964	1963	1962	1963
24000	1513		1985	1985	1983	1984
28000	1801		2008	2006	2006	2006
32000	2089		2030	2030	2028	2029
36000	2378		2053	2053	2051	2052

TEST NO. 50 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/JEG

MULTI CYCLE REPEATABILITY

DATE 4/23/80

TEST OBJECTIVE:

STRESSMETER
 GAGE NO. Q16
 BENCH RDG. 1736
 SETTING PRELOAD +210
 ORIENTATION VERTICAL
 TEMPERATURE RT
 PLATEN FORM HR

SLAB
 MATERIAL/NO. C4
 ORIENTATION VERTICAL
 CONTACT AREA 13.88 in²
 INITIAL STRESSFIELD 216 psi
 TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1946	1935	1933	1931	1933
4000	72		1939	1936	1935	1937
8000	360		1954	1952	1950	1952
12000	648		1973	1971	1969	1971
16000	937		1994	1991	1990	1992
20000	1225		2015	2013	2012	2013
24000	1513		2038	2036	2035	2036
28000	1801		2063	2060	2059	2060
32000	2089		2086	2083	2082	2084
36000	2378		2110	2108	2106	2108

TEST NO. 54 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/JEG

MULTI CYCLE REPEATABILITY

DATE 4/25/80

TEST OBJECTIVE:

STRESSMETER
 GAGE NO. Q16
 BENCH RDG. 1736
 SETTING PRELOAD +273
 ORIENTATION VERTICAL
 TEMPERATURE RT
 PLATEN FORM HR

SLAB
 MATERIAL/NO. A1
 ORIENTATION VERTICAL
 CONTACT AREA 15.02 in²
 INITIAL STRESSFIELD 200 psi
 TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	2009	1994	1992	1990	1992
8000	333		2021	2018	2017	2019
16000	866		2076	2072	2072	2073
24000	1398		2140	2139	2137	2139
32000	1931		2213	2211	2209	2211
40000	2463		—	2294	2292	2293
48000	2996		2389	2385	2382	2385
56000	3529		2493	2494	2489	2492
64000	4061		2619	2614	2612	2615
72000	4594		2762	2758	2753	2758
80000	5126		2930	2923	2926	2926

TEST NO. 58 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH LEE

MULTI CYCLE REPEATABILITY DATE 4/25/80

TEST OBJECTIVE:

<u>STRESSMETER</u>		<u>SLAB</u>	
GAGE NO.	<u>Q16</u>	MATERIAL/NO.	<u>C4</u>
BENCH RDG.	<u>1736</u>	ORIENTATION	<u>HORIZONTAL</u>
SETTING PRELOAD	<u>+65</u>	CONTACT AREA	<u>13.88 m²</u>
ORIENTATION	<u>VERTICAL</u>	INITIAL STRESSFIELD	<u>216psi</u>
TEMPERATURE	<u>RT</u>	TEMPERATURE	<u>RT</u>
PLATEN FORM	<u>HR</u>		

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1801	1801	1800	1800	1800
4000	72		1804	1804	1803	1804
8000	360		1818	1817	1816	1817
12000	648		1832	1832	1831	1832
16000	937		1848	1848	1847	1848
20000	1225		1865	1865	1864	1865
24000	1513		1884	1883	1882	1883
28000	1801		—	1902	1901	1901
32000	2089		1919	1920	1919	1919
36000	2378	V	1941	1940	1939	1940

TEST NO. 59 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/SEG

MULTI CYCLE REPEATABILITY

DATE 4/25/80

TEST OBJECTIVE:

STRESSMETER
 GAGE NO. Q16
 BENCH RDG. 1736
 SETTING PRELOAD +100
 ORIENTATION VERTICAL
 TEMPERATURE RT
 PLATEN FORM NR

SLAB
 MATERIAL/NO. C4
 ORIENTATION HORIZONTAL
 CONTACT AREA 13.88 in²
 INITIAL STRESSFIELD 216 psi
 TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1836	1830	1830	1829	1830
4000	72		1835	1833	1834	1834
8000	360		1850	1850	1848	1849
12000	648		-	1866	1865	1865
16000	937		1885	1884	1884	1884
20000	1225		1906	1905	1904	1905
24000	1513		1927	1925	1925	1925
28000	1801		1948	1947	1946	1947
32000	2089		1970	1969	1968	1969
36000	2378	V	1993	1992	1990	1992

TEST NO. 61 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/JEG

MULTI CYCLE REPEATABILITY

DATE 4/25/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>C4</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>HORIZONTAL</u>
SETTING PRELOAD <u>+197</u>	CONTACT AREA <u>13.86 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>216 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1933	1920	1918	1916	1918
4000	72		1928	1924	1923	1925
8000	360		1953	1950	1948	1950
12000	648		1978	1976	1973	1976
16000	937		2007	2004	2001	2004
20000	1225		2036	2033	2030	2033
24000	1513		2066	2062	2061	2063
28000	1801		2098	2094	2091	2094
32000	2089		2130	2127	2124	2127
36000	2378		2164	2160	2158	2161

TEST NO. 67 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/JEG

MULTI CYCLE REPEATABILITY

DATE 4/25/80

TEST OBJECTIVE:

STRESSMETER
 GAGE NO. V49
 BENCH RDG. 1884
 SETTING PRELOAD +115
 ORIENTATION VERTICAL
 TEMPERATURE RT
 PLATEN FORM HR

SLAB
 MATERIAL/NO. C1
 ORIENTATION VERTICAL
 CONTACT AREA 13.70 in²
 INITIAL STRESSFIELD 219 psi
 TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1999	1993	1994	1994	1994
4000	73		1997	1996	1996	1996
8000	367		2008	2009	2008	2008
12000	660		2022	2022	2022	2022
16000	954		2036	2036	2036	2036
20000	1247		2052	2051	2051	2051
24000	1541		2066	2066	2066	2066
28000	1834		2082	2082	2083	2082
32000	2128		2099	2098	2098	2098
36000	2421		2115	2115	2115	2115

TEST NO. 69

UNIAXIAL



BIAXIAL



TRIAxIAL



SINGLE CYCLE REPEATABILITY

TEST OPERATOR BLW HLEG

MULTI CYCLE REPEATABILITY

DATE 4/25/80

TEST OBJECTIVE:

STRESSMETERSLABGAGE NO. 016MATERIAL/NO. C1BENCH RDG. 1736ORIENTATION VERTICALSETTING PRELOAD +153CONTACT AREA 13.70 in²ORIENTATION VERTICALINITIAL STRESSFIELD 219 psiTEMPERATURE RTTEMPERATURE RTPLATEN FORM HR

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1889	1882	1882	1881	1882
4000	73		1885	1884	1884	1884
8000	367		1899	1897	1897	1898
12000	660		1912	1910	1911	1911
16000	954		1928	1926	1926	1927
20000	1247		1943	1942	1941	1942
24000	1541		1959	1958	1958	1958
28000	1834		1975	1975	1974	1975
32000	2128		1992	1992	1992	1992
36000	2421		2010	2010	2009	2010

TEST NO. 70 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH LEE

MULTI CYCLE REPEATABILITY DATE 4/25/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>C1</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+203</u>	CONTACT AREA <u>13.70 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>219 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1939	1921	1924	1923	1923
4000	73		1926	1927	1927	1927
8000	367		1943	1942	1943	1943
12000	660		1962	1961	1961	1961
16000	954		1980	1980	1980	1980
20000	1247		2000	2000	1999	2000
24000	1541		2022	2020	2020	2021
28000	1834		2042	2043	2042	2042
32000	2128		2066	2066	2064	2065
36000	2421		2090	2089	2088	2089

TEST NO. 71 UNIAXIAL BIAXIAL TRIAXIAL
 SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/JEG
 MULTI CYCLE REPEATABILITY DATE 4/25/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>C1</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+241</u>	CONTACT AREA <u>13.70 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>219 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1977	1967	1966	1965	1966
4000	73		1972	1971	1970	1971
8000	367		1991	1991	1990	1991
12000	660		2015	2014	2014	2014
16000	954		2040	2038	2038	2039
20000	1247		2065	2064	2063	2064
24000	1541		2091	2090	2085	2089
28000	1834		2118	2116	2115	2116
32000	2128		2145	2143	2142	2143
36000	2421		2173	2172	2171	2172

TEST NO. 22 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/LEG

MULTI CYCLE REPEATABILITY DATE 4/25/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>C1</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>HORIZONTAL</u>
SETTING PRELOAD <u>+101</u>	CONTACT AREA <u>13.51 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>222 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1837	1834	1835	1834	1834
4000	74		1838	1837	1839	1838
8000	368		1852	1852	1853	1852
12000	662		1865	1865	1865	1865
16000	957		1878	1878	1879	1878
20000	1251		1892	1892	1892	1892
24000	1545		1906	1906	1906	1906
28000	1840		1920	1920	1921	1920
32000	2134		1935	1935	1936	1935
36000	2428		1951	1950	1951	1951

TEST NO. 73 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH / LEG

MULTI CYCLE REPEATABILITY DATE 4/25/80

TEST OBJECTIVE:

STRESSMETER

GAGE NO. Q16

BENCH RDG. 1736

SETTING PRELOAD + 202

ORIENTATION VERTICAL

TEMPERATURE RT

PLATEN FORM HR

SLAB

MATERIAL/NO. C1

ORIENTATION HORIZONTAL

CONTACT AREA 13.51 in²

INITIAL STRESSFIELD 222 psi

TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1938	1927	1926	1927	1927
4000	74		1938	1936	1936	1937
8000	368		1969	1969	1969	1969
12000	662		1995	1994	1994	1994
16000	957		2020	2019	2019	2019
20000	1251		2044	2043	2041	2043
24000	1545		2069	2065	2067	2067
28000	1840		2093	2093	2093	2093
32000	2134		2120	2119	2119	2119
36000	2428		2147	2146	2145	2146

TEST NO. 74 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/JEG

MULTI CYCLE REPEATABILITY DATE 4/25/60

TEST OBJECTIVE:

STRESSMETER
GAGE NO. Q16
BENCH RDG. 1736
SETTING PRELOAD +253
ORIENTATION VERTICAL
TEMPERATURE RT
PLATEN FORM HR

SLAB
MATERIAL/NO. C1
ORIENTATION HORIZONTAL
CONTACT AREA 13.51 in²
INITIAL STRESSFIELD 222 psi
TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1989	1973	-	1973	1973
4000	74		1986	1987	1986	1986
8000	368		2028	2026	2027	2027
12000	662		2057	2058	2056	2057
16000	957		2086	2084	2084	2085
20000	1251		2112	2111	2110	2111
24000	1545		2137	2136	2136	2136
28000	1840		2164	2163	2162	2163
32000	2134		2190	2189	2189	2189
36000	2428		2215	2216	2215	2215

TEST NO. 75 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/JEG

MULTI CYCLE REPEATABILITY

DATE 4/25/80

TEST OBJECTIVE:

STRESSMETER
GAGE NO. Q16
BENCH RDG. 1736
SETTING PRELOAD +301
ORIENTATION VERTICAL
TEMPERATURE RT
PLATEN FORM HR

SLAB
MATERIAL/NO. B4
ORIENTATION VERTICAL
CONTACT AREA 15.32 in²
INITIAL STRESSFIELD 196 psi
TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	2037	2015	2013	2010	2013
4000	65		2024	2022	2020	2022
8000	326		2067	2065	2063	2065
12000	587		2120	2118	2116	2118
16000	849		2182	2181	2177	2180
20000	1110		2249	2247	2242	2246
24000	1371		2320	2316	2313	2316
28000	1632		2393	2391	2386	2390
32000	1893		2468	2467	2462	2466
36000	2154		2530	2543	2544	2546

TEST NO. 76 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/JEG

MULTI CYCLE REPEATABILITY

DATE 4/25/80

TEST OBJECTIVE:

STRESSMETER

SLAB

GAGE NO. Q16

MATERIAL/NO. B4

BENCH RDG. 1736

ORIENTATION HORIZONTAL

SETTING PRELOAD 1307

CONTACT AREA 15.25 in²

ORIENTATION VERTICAL

INITIAL STRESSFIELD 197 psi

TEMPERATURE RT

TEMPERATURE RT

PLATEN FORM HR

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	2043	2010	2005	2004	2006
4000	66		2016	2011	2009	2012
8000	328		2044	2039	2035	2039
12000	590		2080	2075	2072	2076
16000	852		2125	2119	2115	2120
20000	1115		2172	2166	2162	2167
24000	1377		2224	2219	2215	2219
28000	1639		2280	2273	2269	2274
32000	1902		2337	2332	2329	2333
36000	2164		2401	2395	2390	2395

TEST NO. 77 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 5/20/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>L2</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+100</u>	CONTACT AREA <u>15.00 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>200 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1836	1830	1827	1827	1828
4000	67		1842	1840	1840	1841
8000	333		1888	1887	1886	1887
12000	600		1938	1937	1935	1937
16000	867		1992	1992	1990	1991
20000	1133		2050	2050	2050	2050
24000	1400		2114	2114	2114	2114
28000	1667		2182	2184	2184	2184
32000	1933		2262	2262	2261	2262

TEST NO. 78 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 5/20/80

TEST OBJECTIVE:

STRESSMETER
GAGE NO. 016
BENCH RDG. 1736
SETTING PRELOAD +197
ORIENTATION VERTICAL
TEMPERATURE RT
PLATEN FORM HR

SLAB
MATERIAL/NO. L2
ORIENTATION VERTICAL
CONTACT AREA 15.00 in²
INITIAL STRESSFIELD 200 psi
TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1733	1929	1927	1924	1927
4000	67		1941	1939	1937	1939
8000	333		1992	1990	1989	1990
12000	600		2050	2049	2047	2049
16000	867		2115	2113	2111	2113
20000	1133		2187	2184	2183	2185
24000	1400		2267	2264	2262	2264
28000	1667		2354	2350	2350	2351
32000	1933		2452	2450	2448	2450

TEST NO. 79 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 5/20/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>L2</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+260</u>	CONTACT AREA <u>15.00 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>200 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1996	1993	1987	1985	1988
4000	67		2005	2000	1998	2001
8000	333		2063	2057	2056	2059
12000	600		2127	2120	2119	2123
16000	867		2199	2194	2192	2195
20000	1133		2281	2275	2276	2277
24000	1400		2370	2365	2365	2367
28000	1667		2471	2467	-	2469
32000	1933		2584	2580	2582	2582

TEST NO. 80 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 5/20/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>L3</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+98</u>	CONTACT AREA <u>15.00 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>200 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1834	1830	1829	1827	1829
4000	67		1841	1840	1839	1840
8000	333		1884	1883	1882	1883
12000	600		1931	1931	1930	1931
16000	867		1985	1984	1985	1985
20000	1133		2043	2043	2044	2043
24000	1400		2106	2108	2106	2107
28000	1667		2176	2176	2176	2176
32000	1933		2252	2251	2251	2251

TEST NO. 81 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 5/20/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>L3</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+195</u>	CONTACT AREA <u>15.00 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>200 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1931	1928	1924	1923	1925
4000	67		1941	1937	1935	1939
8000	333		1989	1987	1984	1989
12000	600		2046	2042	2040	2043
16000	867		2110	2107	2104	2107
20000	1133		2179	2177	2175	2177
24000	1400		2258	2254	2256	2256
28000	1667		2341	2340	2338	2340
32000	1933		2439	2436	2431	2435

TEST NO. 82 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 5/20/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>L3</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+254</u>	CONTACT AREA <u>15.00 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>200 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1990	1985	1980	1978	1981
4000	67		1999	—	1992	1995
8000	333		2051	2047	2045	2048
12000	600		2112	2109	2106	2109
16000	867		2182	2184	2177	2181
20000	1133		2260	2258	2257	2258
24000	1400		2351	2344	2341	2345
28000	1667		2442	2439	2439	2440
32000	1933		2549	2547	2543	2546

TEST NO. 84 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 5/20/60

TEST OBJECTIVE:

STRESSMETER
 GAGE NO. Q16
 BENCH RDG. 1736
 SETTING PRELOAD +201
 ORIENTATION VERTICAL
 TEMPERATURE RT
 PLATEN FORM HR

SLAB
 MATERIAL/NO. L4
 ORIENTATION VERTICAL
 CONTACT AREA 15.00 in²
 INITIAL STRESSFIELD 200 psi
 TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1937	1932	1929	1926	1929
4000	67		1944	1942	1940	1942
8000	333		1996	1993	1991	1993
12000	600		2052	2050	2048	2050
16000	867		2116	2114	2111	2114
20000	1133		2187	2184	2181	2184
24000	1400		2264	2260	2260	2261
28000	1667		2348	2346	2344	2346
32000	1933		2444	2441	2437	2441

TEST NO. 91 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 5/20/80

TEST OBJECTIVE:

STRESSMETER
GAGE NO. Q16
BENCH RDG. 1736
SETTING PRELOAD +223
ORIENTATION VERTICAL
TEMPERATURE RT
PLATEN FORM HR

SLAB
MATERIAL/NO. C4
ORIENTATION VERTICAL
CONTACT AREA 13.88 in²
INITIAL STRESSFIELD 216 psi
TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1959	1946	1945	1944	1945
4000	72	1962	1951	1948	1948	1949
8000	360	1975	1965	1964	1963	1964
12000	648	1991	1983	1981	1980	1981
16000	937	2010	2003	2001	2001	2002
20000	1225	2030	2024	2023	2022	2023
24000	1513	2052	2047	2045	2044	2045
28000	1801	2074	2070	2068	2068	2069
32000	2089	2092	2094	2092	2092	2093
36000	2378	2121	2119	2117	2117	2118

TEST NO. 92 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 5/20/80

TEST OBJECTIVE:

STRESSMETER
 GAGE NO. Q16
 BENCH RDG. 1736
 SETTING PRELOAD +226
 ORIENTATION VERTICAL
 TEMPERATURE RT
 PLATEN FORM HR

SLAB
 MATERIAL/NO. C4
 ORIENTATION VERTICAL
 CONTACT AREA 13.88 in²
 INITIAL STRESSFIELD 576 psi
 TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
8000	0	1962	1957	1955	1955	1956
12000	288	1978	1973	1972	1971	1972
16000	576	1997	1991	1990	1989	1990
20000	865	2016	2011	2011	2009	2010
24000	1153	2037	2033	2032	2031	2032
28000	1441	2058	2056	2054	2054	2055
32000	1729	2081	2079	2078	2077	2078
36000	2017	2105	2103	2101	2101	2102

TEST NO. 93 UNIAXIAL BIAXIAL TRIAXIAL
 SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET
 MULTI CYCLE REPEATABILITY DATE 5/20/80

TEST OBJECTIVE:

<p><u>STRESSMETER</u></p> <p>GAGE NO. <u>Q16</u></p> <p>BENCH RDG. <u>1736</u></p> <p>SETTING PRELOAD <u>+23.2</u></p> <p>ORIENTATION <u>VERTICAL</u></p> <p>TEMPERATURE <u>RT</u></p> <p>PLATEN FORM <u>HR</u></p>	<p><u>SLAB</u></p> <p>MATERIAL/NO. <u>C4</u></p> <p>ORIENTATION <u>VERTICAL</u></p> <p>CONTACT AREA <u>13.88 in²</u></p> <p>INITIAL STRESSFIELD <u>865 psi</u></p> <p>TEMPERATURE <u>RT</u></p>
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LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
12000	0	1968	1964	1964	1963	1964
16000	288	1987	1984	1982	1981	1982
20000	576	2007	2003	2003	2002	2002
24000	865	2028	2027	2025	2025	2025
28000	1153	2051	2049	2049	2048	2049
32000	1441	2074	2072	2072	2072	2072
36000	1729	2098	2098	2097	2096	2097

TEST NO. 94 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 5/20/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>C4</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+253</u>	CONTACT AREA <u>13.88 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>1297 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
18000	0	1989	1986	1982	1986	1986
20000	144	1997	1995	1994	1994	1994
24000	432	2016	2014	2013	2013	2013
28000	720	2035	2033	2033	2032	2033
32000	1009	2056	2054	2053	2053	2053
36000	1297	2078	2076	2076	2075	2076

TEST NO. 104 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 5/22/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>V49</u>	MATERIAL/NO. <u>A1</u>
BENCH RDG. <u>1884</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>159</u>	CONTACT AREA <u>15.02 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>200 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>MSR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1943	1928	1928	1927	1928
8000	323		1940	1939	1938	1939
16000	867		1965	1962	1961	1963
24000	1398		1999	1997	1997	1996
32000	1931		2042	2040	2040	2041
40000	2463		2096	2094	2093	2094
48000	2996		2158	2156	2156	2157
56000	3529		2231	2230	2229	2230
64000	4061		2319	2317	2316	2317
72000	4594		2402	2419	2420	2420
80000	5126		2543	2544	2542	2543

TEST NO. 105 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 5/22/80

TEST OBJECTIVE:

STRESSMETER
 GAGE NO. V49
 BENCH RDG. 1884
 SETTING PRELOAD +162
 ORIENTATION VERTICAL
 TEMPERATURE RT
 PLATEN FORM MSR

SLAB
 MATERIAL/NO. A1
 ORIENTATION VERTICAL
 CONTACT AREA 15.02 in²
 INITIAL STRESSFIELD 200 psi
 TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	2046	2025	2024	2022	2024
8000	333		2050	2048	2048	2049
16000	867		2100	2099	2097	2099
24000	1398		2164	2163	2162	2163
32000	1931		2241	2239	2239	2240
40000	2463		2332	2332	2331	2332
48000	2996		2440	2440	2438	2439
56000	3529		2568	2567	2566	2567
64000	4061		2722	2722	2722	2722
72000	4594		2908	2907	2908	2908
80000	5126		3134	3133	3131	3133

TEST NO. 106 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 5/22/60

TEST OBJECTIVE:

STRESSMETER
GAGE NO. V49
BENCH RDG. 1884
SETTING PRELOAD +252
ORIENTATION VERTICAL
TEMPERATURE RT
PLATEN FORM MSR

SLAB
MATERIAL/NO. A1
ORIENTATION VERTICAL
CONTACT AREA 15.02 in²
INITIAL STRESSFIELD 200 psi
TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	2118	2111	2109	2109	2109
8000	333	2152	2144	2142	2142	2143
16000	867	2220	2212	2210	2208	2210
24000	1398	2308	2298	2295	2294	2296
32000	1931	2412	2400	2398	2395	2398
40000	2463	2536	2523	2321	2318	2521
48000	2996	2684	2668	2666	2664	2666
56000	3529	2864	2845	2842	2839	2842
64000	4061	3079	3060	3057	3057	3058
72000	4594	3341	3322	3318	3317	3319
80000	5126	3640	3633	3627	3622	3627

TEST NO. 107 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 5/22/80

TEST OBJECTIVE:

STRESSMETER
 GAGE NO. V49
 BENCH RDG. 1884
 SETTING PRELOAD + 259
 ORIENTATION VERTICAL
 TEMPERATURE RT
 PLATEN FORM SR

SLAB
 MATERIAL/NO. A1
 ORIENTATION VERTICAL
 CONTACT AREA 15.02 in.²
 INITIAL STRESSFIELD 200 psi
 TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4 2-3
		1	2	3	4	
3,000	0	2119	2109	2108		2108
8,000	333	2158	2148	2146		2147
16,000	867	2235	2225	2223		2224
24,000	1398	2332	2320	2318		2319
32,000	1931	2445	2432	2431		2431
40,000	2463	2581	2569	2564		2566
48,000	2996	2742	2726	2724		2725
56,000	3529	2934	2920	2918		2919
64,000	4061	3170	3155	3154		3154
72,000	4594	3451	3445	3444		3444
80,000	5126	3760	3758	3753		3755

TEST NO. 108 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 5/22/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>V49</u>	MATERIAL/NO. <u>A1</u>
BENCH RDG. <u>1884</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+53</u>	CONTACT AREA <u>15.02 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>200 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>SR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1939	1925	1924	1924	1924
8000	333		1937	1937	1936	1937
16000	867		1967	1965	1964	1965
24000	1398		2010	2009	2008	2009
32000	1921		2065	2064	2063	2064
40000	2463		2134	2133	2132	2133
48000	2996		2215	2213	2212	2213
56000	3527		2301	2307	2307	2307
64000	4061		2421	2419	2419	2420
72000	4594		2551	2550	2549	2550
80000	5126		2706	2706	2705	2706

TEST NO. 109 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 5/22/80

TEST OBJECTIVE:

STRESSMETER
 GAGE NO. V49
 BENCH RDG. 1884
 SETTING PRELOAD +161
 ORIENTATION VERTICAL
 TEMPERATURE RT
 PLATEN FORM SR

SLAB
 MATERIAL/NO. A1
 ORIENTATION VERTICAL
 CONTACT AREA 15.02 in²
 INITIAL STRESSFIELD 200 psi
 TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	2047	2016	2014	2013	2014
8000	333		2044	2041	2040	2042
16000	867		2101	2098	2098	2099
24000	1398		2174	2172	2170	2172
32000	1931		2261	2258	2257	2258
40000	2463		2365	2363	2360	2363
48000	2996		2483	2481	2480	2481
56000	3529		2624	2625	2622	2624
64000	4061		2799	2798	2795	2797
72000	4594		3005	3002	3000	3002
80000	5126		3253	3254	3254	3255

TEST NO. 124 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 6/4/80

TEST OBJECTIVE:

<p><u>STRESSMETER</u></p> <p>GAGE NO. <u>Q16</u></p> <p>BENCH RDG. <u>1736</u></p> <p>SETTING PRELOAD <u>+51</u></p> <p>ORIENTATION <u>VERTICAL</u></p> <p>TEMPERATURE <u>RT</u></p> <p>PLATEN FORM <u>SR</u></p>	<p><u>SLAB</u></p> <p>MATERIAL/NO. <u>L3</u></p> <p>ORIENTATION <u>VERTICAL</u></p> <p>CONTACT AREA <u>15.00 m²</u></p> <p>INITIAL STRESSFIELD <u>200 psi</u></p> <p>TEMPERATURE <u>RT</u></p>
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LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1787	1775	1772	1772	1773
4000	67		1783	1783	1782	1783
8000	333		1823	1823	1822	1823
12000	600		1870	1869	1869	1869
16000	857		1922	1921	1920	1921
20000	1133		1979	1978	1977	1978
24000	1400		2039	2039	2038	2039
28000	1667		2105	2105	2104	2105
32000	1933		2179	2177	2177	2177

TEST NO. 125 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 6/4/80

TEST OBJECTIVE:

STRESSMETER

SLAB

GAGE NO. Q16

MATERIAL/NO. L3

BENCH RDG. 1736

ORIENTATION VERTICAL

SETTING PRELOAD +121

CONTACT AREA 15.00 in²

ORIENTATION VERTICAL

INITIAL STRESSFIELD 200 psi

TEMPERATURE RT

TEMPERATURE RT

PLATEN FORM SP

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1857	1858	1856	1856	1857
4000	67		1868	1866	1867	1867
8000	333		1911	1911	1911	1911
12000	600		1964	1964	1963	1964
16000	867		2025	2023	2023	2023
20000	1133		2090	2088	2081	2089
24000	1400		2162	2160	2160	2161
28000	1667		2243	2241	2240	2241
32000	1933		2328	2333	2331	2334

TEST NO. 126 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 6/4/80

TEST OBJECTIVE:

STRESSMETER

SLAB

GAGE NO. Q16

MATERIAL/NO. L3

BENCH RDG. 1736

ORIENTATION VERTICAL

SETTING PRELOAD +201

CONTACT AREA 15.00 in²

ORIENTATION VERTICAL

INITIAL STRESSFIELD 200 psi

TEMPERATURE RT

TEMPERATURE RT

PLATEN FORM SR

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1937	1948	1947	1948	1948
4000	67		1958	1958	1958	1958
8000	333		2008	2010	2009	2009
12000	600		2068	2068	2067	2068
16000	867		2136	2138	2136	2137
20000	1133		2213	2213	2211	2212
24000	1400		2298	2298	2297	2298
28000	1667		2392	2393	2392	2392
32000	1933		2510	2506	2505	2507

TEST NO. 130 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH / RET

MULTI CYCLE REPEATABILITY DATE 6/4/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>016</u>	MATERIAL/NO. <u>A3</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+242</u>	CONTACT AREA <u>15.02 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>200 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>R.T.</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1978	1966	1963	1963	1964
8000	333		1992	1990	1988	1990
16000	867		2040	2037	2036	2038
24000	1398		2094	2091	2089	2091
32000	1931		2152	2149	2147	2149
40000	2463		2219	2215	2215	2216
48000	2996		2290	2287	2286	2288
56000	3529		2371	2367	2366	2368
64000	4061		2461	2458	2456	2458
72000	4594		2564	2562	2560	2562
80000	5126		2684	2682	2679	2682

TEST NO. 140 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 6/27/80

TEST OBJECTIVE:

STRESSMETER
 GAGE NO. Q1L
 BENCH RDG. 1736
 SETTING PRELOAD +64
 ORIENTATION VERTICAL
 TEMPERATURE RT
 PLATEN FORM HR

SLAB
 MATERIAL/NO. C2
 ORIENTATION VERTICAL
 CONTACT AREA 14.28 in²
 INITIAL STRESSFIELD 210 psi
 TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1802	1799	1799	1798	1799
4000	70		1801	1800	1800	1800
8000	350		1810	1809	1808	1809
12000	630		1820	1819	1818	1819
16000	910		1832	1830	1830	1831
20000	1190		1845	1843	1842	1843
24000	1471		1856	1857	1856	1857
28000	1751		1873	1872	1870	1872
32000	2031		1887	1887	1886	1887
36000	2310		1905	1904	1902	1904

TEST NO. 141 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 6/27/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>C2</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>1164</u>	CONTACT AREA <u>14.28 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>210 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1902	1891	1890	1890	1890
4000	70		1896	1894	1893	1894
8000	350		—	1911	1909	1910
12000	630		1931	1930	1928	1930
16000	910		1952	1951	1949	1951
20000	1190		1975	1973	1971	1973
24000	1471		1999	1997	1995	1997
28000	1751		2024	2022	2021	2022
32000	2031		2050	2048	2046	2048
36000	2310		2077	2075	2074	2075

TEST NO. 142 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 6/27/80

TEST OBJECTIVE:

STRESSMETER
GAGE NO. Q16
BENCH RDG. 1736
SETTING PRELOAD +209
ORIENTATION VERTICAL
TEMPERATURE RT
PLATEN FORM SR

SLAB
MATERIAL/NO. C2
ORIENTATION VERTICAL
CONTACT AREA 14.28 in²
INITIAL STRESSFIELD 210 psi
TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1947	1939	1936	1936	1937
4000	70		1943	1941	1940	1941
8000	350		1963	1961	1960	1961
12000	630		1987	1964	1983	1985
16000	910		2010	2008	2007	2008
20000	1190		2037	2035	2034	2035
24000	1471		2064	2067	2062	2064
28000	1741		2095	2091	2092	2093
32000	2031		2125	2122	2122	2123
36000	2310		2156	2154	2153	2154

TEST NO. 143 UNIAXIAL BIAXIAL TRIAXIAL
 SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/PET
 MULTI CYCLE REPEATABILITY DATE 6/27/80

TEST OBJECTIVE:

<p><u>STRESSMETER</u></p> <p>GAGE NO. <u>Q16</u></p> <p>BENCH RDG. <u>1736</u></p> <p>SETTING PRELOAD <u>+258</u></p> <p>ORIENTATION <u>VERTICAL</u></p> <p>TEMPERATURE <u>RT</u></p> <p>PLATEN FORM <u>HR</u></p>	<p><u>SLAB</u></p> <p>MATERIAL/NO. <u>C2</u></p> <p>ORIENTATION <u>VERTICAL</u></p> <p>CONTACT AREA <u>14.28 in²</u></p> <p>INITIAL STRESSFIELD <u>210 psi</u></p> <p>TEMPERATURE <u>RT</u></p>
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LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1994	1985	1984	1982	1984
4000	70		1990	1989	1988	1989
8000	350		2012	2011	2010	2011
12000	630		2037	2036	2035	2036
16000	910		2066	2063	2064	2064
20000	1190		2094	2094	2092	2093
24000	1471		2126	2124	2123	2124
28000	1751		2157	2157	2156	2157
32000	2021		2193	2193	2192	2193
36000	2310		2229	2229	2220	2229

TEST NO. 144 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR BWH/RET

MULTI CYCLE REPEATABILITY DATE 6/27/80

TEST OBJECTIVE:

STRESSMETER
 GAGE NO. 016
 BENCH RDG. 1736
 SETTING PRELOAD +59
 ORIENTATION VERTICAL
 TEMPERATURE RT
 PLATEN FORM HR

SLAB
 MATERIAL/NO. C2
 ORIENTATION HORIZONTAL
 CONTACT AREA 14.14 in²
 INITIAL STRESSFIELD 212 psi
 TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1795	1791	1790	1789	1790
4000	70		1793	1791	1790	1791
8000	350		1799	1798	1796	1798
12000	630		1806	1805	1803	1805
16000	910		1813	1812	1812	1812
20000	1190		1822	1820	1820	1821
24000	1471		1831	1830	1829	1830
28000	1751		1840	1839	1839	1839
32000	2031		1851	1849	1848	1849
36000	2310		1860	1859	1859	1859

TEST NO. 145 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 6/27/80

TEST OBJECTIVE:

STRESSMETER
 GAGE NO. Q16
 BENCH RDG. 1736
 SETTING PRELOAD +166
 ORIENTATION VERTICAL
 TEMPERATURE RT
 PLATEN FORM HR

SLAB
 MATERIAL/NO. C2
 ORIENTATION HORIZONTAL
 CONTACT AREA 4.14 in²
 INITIAL STRESSFIELD 212 psi
 TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1902	1892	1890	1889	1890
4000	70		1895	1893	1892	1893
8000	350		1907	1905	1903	1905
12000	630		1920	1918	1918	1919
16000	910		1935	1934	1933	1934
20000	1190		1952	1949	1948	1949
24000	1471		1968	1965	1966	1966
28000	1751		1985	1983	1982	1983
32000	2031		2002	2000	1999	2000
36000	2310		2020	2019	2017	2019

TEST NO. 146 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 6/27/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>C2</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>HORIZONTAL</u>
SETTING PRELOAD <u>+239</u>	CONTACT AREA <u>14.14 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>212 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1975	1963	1961	1959	1961
4000	70		1967	1965	1964	1965
8000	350		1984	1982	1981	1982
12000	630		2004	2001	1999	2001
16000	910		2022	2021	2019	2021
20000	1190		2045	2042	2040	2042
24000	1471		2066	2064	2063	2064
28000	1751		2090	2087	2086	2087
32000	2031		2116	2112	2111	2113
36000	2310		2140	2137	2136	2137

TEST NO. 162

UNIAXIAL



BIAXIAL



TRIAXIAL



SINGLE CYCLE REPEATABILITY

TEST OPERATOR

RWH/RET

MULTI CYCLE REPEATABILITY

DATE

7/2/80

TEST OBJECTIVE:

STRESSMETERSLABGAGE NO. Q16MATERIAL/NO. C2BENCH RDG. 1736ORIENTATION VERTICALSETTING PRELOAD +208CONTACT AREA 14.28 in²ORIENTATION VERTICALINITIAL STRESSFIELD 210 psiTEMPERATURE 24°CTEMPERATURE 24°CPLATEN FORM HR

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1944	1939	1938	1937	1939
4000	70		1944	1944	1944	1944
8000	350		1973	1973	1972	1973
12000	630		2005	2003	2003	2004
16000	910		2039	2037	2038	2039
20000	1190		2074	2074	2073	2074
24000	1471		2112	2111	2110	2111
28000	1751		2152	2151	2150	2151

TEST NO. 163 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH / RET

MULTI CYCLE REPEATABILITY DATE 7/2/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>C 2</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+ 252</u>	CONTACT AREA <u>14.28 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>210 psi</u>
TEMPERATURE <u>52°C</u>	TEMPERATURE <u>52°C</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1978	1986	1985	1985	1985
4000	70	1985	1993	1993	1991	1992
8000	350	2017	2024	2023	2022	2023
12000	630	2053	2056	2056	2056	2056
16000	910	2090	2093	2093	2091	2092
20000	1190	2129	2130	2130	2129	2130
24000	1471	2171	2170	2168	2169	2169
28000	1751	2214	2213	2212	2211	2212

TEST NO. 164 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 7/2/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>C2</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+290</u>	CONTACT AREA <u>14.28 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>210 psi</u>
TEMPERATURE <u>82°C</u>	TEMPERATURE <u>82°C</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	2026	2035	2035	2034	2035
4000	70	2032	2042	2042	2042	2042
8000	350	2066	2075	2075	2074	2075
12000	630	2103	2111	2111	2110	2111
16000	910	2145	2149	2149	2149	2149
20000	1190	2189	2191	2189	2190	2190
24000	1471	2233	2234	2233	2232	2233

TEST NO. 165 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/PET

MULTI CYCLE REPEATABILITY DATE 7/2/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>CJ</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+305</u>	CONTACT AREA <u>14.28 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>210 psi</u>
TEMPERATURE <u>96 °C</u>	TEMPERATURE <u>96 °C</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	2041	2047	2047	2046	2047
4000	70	2048	2055	2054	2055	2055
8000	350	2081	2088	2089	2088	2088
12000	630	2119	2124	2124	2125	2124
16000	910	2159	2166	2165	2164	2165
20000	1190	2203	2206	2206	2206	2205
24000	1471	2250	2251	2250	2250	2250

TEST NO. 166 UNIAXIAL

BIAxIAL

TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 7/10/80

TEST OBJECTIVE:

STRESSMETER

GAGE NO. Q16

BENCH RDG. 1736

SETTING PRELOAD +196

ORIENTATION VERTICAL

TEMPERATURE 26°C

PLATEN FORM HR

SLAB

MATERIAL/NO. C 13

ORIENTATION —

CONTACT AREA —

INITIAL STRESSFIELD -0 psi

TEMPERATURE 26°C

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 3-4
		1	2	3	4	
0	0	1932	1926	1924	1923	1923
200	144	1941	1933	1931	1931	1931
400	288	1948	1941	1939	1939	1939
600	432	1956	1949	1947	1947	1947
800	576	1964	—	1956	1956	1956
1000	720	1972	—	1965	1964	1964
1200	864	1982	—	1975	1973	1974
1400	1008	1990	—	1984	1983	1983
1600	1152	1998	—	1993	1992	1992

TEST NO. 167 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 7/10/80

TEST OBJECTIVE:

<u>STRESSMETER</u>		<u>SLAB</u>	
GAGE NO.	<u>Q16</u>	MATERIAL/NO.	<u>C13</u>
BENCH RDG.	<u>1736</u>	ORIENTATION	<u>—</u>
SETTING PRELOAD	<u>+222</u>	CONTACT AREA	<u>—</u>
ORIENTATION	<u>VERTICAL</u>	INITIAL STRESSFIELD	<u>0 psi</u>
TEMPERATURE	<u>57°C</u>	TEMPERATURE	<u>57°C</u>
PLATEN FORM	<u>HR</u>		

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 1-3
		1	2	3	4	
0	0	1958	1958	1958		1958
200	144	1966	1967	1966		1966
400	288	1975	1975	1975		1975
600	432	1984	1984	1983		1984
800	576	1993	1993	1992		1993
1000	720	2002	2002	2000		2001
1200	864	2012	2011	2011		2011
1400	1008	2022	2021	2020		2021
1600	1152	2032	2030	—		2031

TEST NO. 168 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 7/11/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>C13</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u> </u>
SETTING PRELOAD <u>+238</u>	CONTACT AREA <u> </u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>0 psi</u>
TEMPERATURE <u>72°C</u>	TEMPERATURE <u>72°C</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
0	0	1974	1975			
200	144	1983	1984			
400	288	1992	1992			
600	432	2001	2001			
800	576	2011				
1000	720	2022				
1200	864	2032				
1400	1008	2043				
1600	1152	2054				

TEST NO. 175 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 7/17/80

TEST OBJECTIVE:

STRESSMETER
GAGE NO. Q16
BENCH RDG. 1736
SETTING PRELOAD +196
ORIENTATION VERTICAL
TEMPERATURE 23°C
PLATEN FORM HR

SLAB
MATERIAL/NO. C 2
ORIENTATION VERTICAL
CONTACT AREA 14.28 in²
INITIAL STRESSFIELD 210 psi
TEMPERATURE 23°C

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1932	1934	1934	-	1934
4000	70		1941	1941	-	1941
8000	350		1970	1970	-	1970
12000	630		2002	2002	-	2002
16000	910		2036	2037	-	2036
20000	1190		2072	2072	-	2072
24000	1471		2108	2108	-	2108
28000	1751		2147	2147	-	2147

TEST NO. 176

UNIAXIAL

BIAXIAL

TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 7/17/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>016</u>	MATERIAL/NO. <u>C 2</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+238</u>	CONTACT AREA <u>14.28 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>210 psi</u>
TEMPERATURE <u>62°C</u>	TEMPERATURE <u>62°C</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1974	1982	1983	1982	1982
4000	70	1981	1990	1991	1990	1990
8000	350	2014	2022	2023	2023	2023
12000	630	2051	2058	2057	2057	2057
16000	910	2089	2094	2094	2095	2094
20000	1190	2130	2134	2134	2134	2134
24000	1471	2173	2174	2174	2173	2174
28000	1751	2217	2217	2217	2215	2216

TEST NO. 177

UNIAXIAL

BIAXIAL

TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH / RET

MULTI CYCLE REPEATABILITY

DATE 7/17/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>C2</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+268</u>	CONTACT AREA <u>14.28 in²</u>
ORIENTATION <u>VERTICAL</u>	INITIAL STRESSFIELD <u>210 psi</u>
TEMPERATURE <u>86°C</u>	TEMPERATURE <u>26°C</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	2004	2014	2013	2013	2013
4000	70	2012	2022	2020	2021	2021
8000	350	2047	2055	2054	2054	2054
12000	630	2084	2091	2091	2091	2091
16000	910	2126	2131	2131	2131	2131
20000	1190	2168	2172	2172	2172	2172
24000	1471	2213	2215	2215	2215	2215
28000	1751	2260	2260	2260	2260	2260

TEST NO. 179 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 7/21/80

TEST OBJECTIVE:

STRESSMETER
GAGE NO. Q16
BENCH RDG. 1736
SETTING PRELOAD +162
ORIENTATION VERTICAL
TEMPERATURE RT
PLATEN FORM HR

SLAB
MATERIAL/NO. C2
ORIENTATION VERTICAL
CONTACT AREA 14.28 in²
INITIAL STRESSFIELD 210 psi
TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1898	1896	1895	1895	1895
4000	70	1904	1901	1900	-	1901
8000	350	1927	1924	1923	1923	1923
12000	630	1952	1949	1949	1949	1949
16000	910	1979	1976	1977	1977	1977
20000	1190	2008	2007	2006	2007	2007
24000	1471	2038	2037	2036	2036	2036
28000	1751	2068	2069	2067	2067	2068

TEST NO. 180 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 7/21/80

TEST OBJECTIVE:

STRESSMETER
GAGE NO. D16
BENCH RDG. 1736
SETTING PRELOAD +237
ORIENTATION VERTICAL
TEMPERATURE RT
PLATEN FORM HR

SLAB
MATERIAL/NO. C2
ORIENTATION VERTICAL
CONTACT AREA 14.28 m²
INITIAL STRESSFIELD 210 psi
TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1973	1966	1966	1966	1966
4000	70	1980	1972	1972	1972	1972
8000	350	2007	2000	2000	1999	2000
12000	630	2036	2030	2029	2029	2029
16000	910	2066	2062	2061	2061	2061
20000	1190	2099	2094	2094	2094	2094
24000	1471	2132	2130	2130	2129	2130
28000	1751	2167	2167	2067	2166	2167

TEST NO. 182 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 7/21/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>016</u>	MATERIAL/NO. <u>C.2</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>VERTICAL</u>
SETTING PRELOAD <u>+161</u>	CONTACT AREA <u>14.28 in.²</u>
ORIENTATION <u>HORIZONTAL</u>	INITIAL STRESSFIELD <u>210 psi</u>
TEMPERATURE <u>RT</u>	TEMPERATURE <u>RT</u>
PLATEN FORM <u>14R</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1897	1892	1891	1891	1891
4000	70	1894	1891	1889	1889	1889
8000	350	—	1884	1882	1882	1883
12000	630	1880	1877	1875	1874	1875
16000	910	1872	1869	1868	1868	1868
20000	1190	1864	1862	1861	1860	1861
24000	1471	1856	1854	1853	1852	1853

TEST NO. 183 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 7/21/80

TEST OBJECTIVE:

STRESSMETER
GAGE NO. Q16
BENCH RDG. 1736
SETTING PRELOAD +208
ORIENTATION HORIZONTAL
TEMPERATURE RT
PLATEN FORM HR

SLAB
MATERIAL/NO. C2
ORIENTATION VERTICAL
CONTACT AREA 14.28 in²
INITIAL STRESSFIELD 210 psi
TEMPERATURE RT

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
3000	0	1944	1936	1934	1934	1935
4000	70	1941	1934	1933	1931	1933
8000	350	1932	1926	1924	1924	1925
12000	630	1923	1917	1916	1914	1916
16000	910	1912	1908	1906	1906	1907
20000	1190	1903	1898	1897	1896	1897
24000	1471	1891	1889	1888	1887	1888

TEST NO. 188 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 7/22/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>016</u>	MATERIAL/NO. <u>C13</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>-</u>
SETTING PRELOAD <u>+204</u>	CONTACT AREA <u>24.38 in.²</u>
ORIENTATION <u>-</u>	END LOAD LEVEL <u>205 psi</u>
TEMPERATURE <u>52°C</u>	TEMPERATURE <u>52°C</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE
		1	2	3	4	
0	-	1940	1940	1940		1940
200	144	1948	1947	1947		1947
400	288	1956	1956	1955		1956
600	432	1964	1965	1965		1965
800	576	1973	1973	1973		1973
1000	720	1982	1982	1982		1982

TEST NO. 189 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 7/22/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>016</u>	MATERIAL/NO. <u>C13</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>-</u>
SETTING PRELOAD <u>+203</u>	CONTACT AREA <u>24.38 in.²</u>
ORIENTATION <u>-</u>	END LOAD LEVEL <u>615 psi</u>
TEMPERATURE <u>52°C</u>	TEMPERATURE <u>52°C</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE
		1	2	3	4	
0	-	1939	1939	1938		1938
200	144	1946	1946	1946		1946
400	288	1955	1954	1954		1954
600	432	1963	1963	1963		1963
800	576	1972	1972	1972		1972
1000	720	1981	1980	1981		1981

TEST NO. 190 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 7/22/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>C13</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>—</u>
SETTING PRELOAD <u>+200</u>	CONTACT AREA <u>24.38 in.²</u>
ORIENTATION <u>—</u>	END LOAD LEVEL <u>1230 psi</u>
TEMPERATURE <u>52°C</u>	TEMPERATURE <u>52°C</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE OF 2-4
		1	2	3	4	
0	—	1936	1935	1935		1935
200	144	1943	1944	1943		1943
400	288	1952	1951	1951		1951
600	432	1959	1960	1960		1960
800	576	1969	1969	1969		1969
1000	720	1978	1977	1977		1977

TEST NO. 191 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 7/22/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>C13</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>-</u>
SETTING PRELOAD <u>+240</u>	CONTACT AREA <u>24.38 in.²</u>
ORIENTATION <u>-</u>	END LOAD LEVEL <u>205 psi</u>
TEMPERATURE <u>52°C</u>	TEMPERATURE <u>52°C</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE
		1	2	3	4	
0	-	1976	1976	1976		1976
200	144	1985	1984	1984		1984
400	288	1993	1993	1993		1993
600	432	2003	2003	2003		2003
800	576	2012	2013	2012		2012
1000	720	2022	2022	2022		2022

TEST NO. 192 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 7/22/80

TEST OBJECTIVE:

STRESSMETER
GAGE NO. 016
BENCH RDG. 1736
SETTING PRELOAD +237
ORIENTATION -
TEMPERATURE 52°C
PLATEN FORM HR

SLAB
MATERIAL/NO. C13
ORIENTATION -
CONTACT AREA 24.38 in.²
END LOAD LEVEL 615 psi
TEMPERATURE 52°C

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE
		1	2	3	4	
0	-	1973	1973			1973
200	144	1982	1983			1983
400	288	1991	1991			1991
600	432	2000	2001			2001
800	576	2010	2010			2010
1000	720	2020	2020			2020

TEST NO. 193 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 7/22/80

TEST OBJECTIVE:

STRESSMETER
GAGE NO. 016
BENCH RDG. 1736
SETTING PRELOAD +234
ORIENTATION —
TEMPERATURE 52°C
PLATEN FORM HR

SLAB
MATERIAL/NO. C13
ORIENTATION —
CONTACT AREA 24.38 in.²
END LOAD LEVEL 1230 psi
TEMPERATURE 52°C

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE
		1	2	3	4	
0	—	1970	1970			1970
200	144	1979	1980			1980
400	289	1988	1988			1988
600	432	1998	1997			1998
800	576	2006	2007			2007
1000	720	2016	2016			2016

TEST NO. 194 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 7/22/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>C13</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>—</u>
SETTING PRELOAD <u>+260.</u>	CONTACT AREA <u>24.38 in.²</u>
ORIENTATION <u>—</u>	END LOAD LEVEL <u>205 psi</u>
TEMPERATURE <u>72°C</u>	TEMPERATURE <u>72°C</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE
		1	2	3	4	
0	—	1996	1996			1996
200	144	2006	2008			2007
400	288	2016	2017			2017
600	432	2026	2027			2027
800	576	2037	2038			2038
1000	720	2049	2050			2050

TEST NO. 195 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY

TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY

DATE 7/22/80

TEST OBJECTIVE:

STRESSMETER
GAGE NO. Q16
BENCH RDG. 1736
SETTING PRELOAD +262
ORIENTATION —
TEMPERATURE 72°C
PLATEN FORM HR

SLAB
MATERIAL/NO. C13
ORIENTATION —
CONTACT AREA 24.38 in.²
END LOAD LEVEL 615 psi
TEMPERATURE 72°C

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE
		1	2	3	4	
0	-	1998	1998			1998
200	144	2008	2009			2009
400	288	2017	2019			2018
600	432	2027	2029			2028
800	576	2038	2039			2039
1000	720	2049	2050			2050

TEST NO. 196 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 7/22/80

TEST OBJECTIVE:

STRESSMETER
 GAGE NO. Q16
 BENCH RDG. 1736
 SETTING PRELOAD +260
 ORIENTATION -
 TEMPERATURE 72°C
 PLATEN FORM HR

SLAB
 MATERIAL/NO. C13
 ORIENTATION -
 CONTACT AREA 24.38 in.²
 END LOAD LEVEL 1230 psi
 TEMPERATURE 72°C

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE
		1	2	3	4	
0	-	1996	1997			1997
200	144	2006	2007			2007
400	288	2016	2017			2017
600	432	2027	2027			2027
800	576	2037	2037			2037
1000	720	2048	2049			2049

TEST NO. 197 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWIT/RET

MULTI CYCLE REPEATABILITY DATE 7/23/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>C13</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>-</u>
SETTING PRELOAD <u>+269</u>	CONTACT AREA <u>24.38 in.²</u>
ORIENTATION <u>-</u>	END LOAD LEVEL <u>205 psi</u>
TEMPERATURE <u>100°C</u>	TEMPERATURE <u>100°C</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE
		1	2	3	4	
0	-	2005	2008			2007
200	144	2018	2020			2021
400	288	2029	2031			2032
600	432	2042	2044			2044
800	576	2056	2056			2056
1000	720	-	2069			2070

TEST NO. 198 UNIAXIAL BIAXIAL TRIAXIAL

SINGLE CYCLE REPEATABILITY TEST OPERATOR RWH/RET

MULTI CYCLE REPEATABILITY DATE 7/23/80

TEST OBJECTIVE:

<u>STRESSMETER</u>	<u>SLAB</u>
GAGE NO. <u>Q16</u>	MATERIAL/NO. <u>C13</u>
BENCH RDG. <u>1736</u>	ORIENTATION <u>-</u>
SETTING PRELOAD <u>+270</u>	CONTACT AREA <u>24.39 in²</u>
ORIENTATION <u>-</u>	END LOAD LEVEL <u>615 psi</u>
TEMPERATURE <u>100°C</u>	TEMPERATURE <u>100°C</u>
PLATEN FORM <u>HR</u>	

LOAD (lb _f)	ROCK STRESS CHANGE (psi)	METER READING (RUN #)				AVERAGE
		1	2	3	4	
0	-	2006	2006			2006
200	144	2018	2019			2019
400	288	2030	2031			2031
600	432	2043	2043			2043
800	576	2056	2057			2057
1000	720	2068	-			2068