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1. The following table shows the ratio of the number of

1. 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400

11-00000-0444

Case	Age	Sex	Height	Weight	ECG	ECG	ECG
	(yr)		(cm)	(kg)	Normal	Normal	Normal
1	10	M	130	25	Normal	Normal	Normal
2	12	F	140	30	Normal	Normal	Normal
3	14	M	150	35	Normal	Normal	Normal
4	16	F	160	40	Normal	Normal	Normal
5	18	M	170	45	Normal	Normal	Normal
6	20	F	180	50	Normal	Normal	Normal
7	22	M	190	55	Normal	Normal	Normal
8	24	F	200	60	Normal	Normal	Normal
9	26	M	210	65	Normal	Normal	Normal
10	28	F	220	70	Normal	Normal	Normal
11	30	M	230	75	Normal	Normal	Normal
12	32	F	240	80	Normal	Normal	Normal
13	34	M	250	85	Normal	Normal	Normal
14	36	F	260	90	Normal	Normal	Normal
15	38	M	270	95	Normal	Normal	Normal
16	40	F	280	100	Normal	Normal	Normal
17	42	M	290	105	Normal	Normal	Normal
18	44	F	300	110	Normal	Normal	Normal
19	46	M	310	115	Normal	Normal	Normal
20	48	F	320	120	Normal	Normal	Normal
21	50	M	330	125	Normal	Normal	Normal
22	52	F	340	130	Normal	Normal	Normal
23	54	M	350	135	Normal	Normal	Normal
24	56	F	360	140	Normal	Normal	Normal
25	58	M	370	145	Normal	Normal	Normal
26	60	F	380	150	Normal	Normal	Normal
27	62	M	390	155	Normal	Normal	Normal
28	64	F	400	160	Normal	Normal	Normal
29	66	M	410	165	Normal	Normal	Normal
30	68	F	420	170	Normal	Normal	Normal
31	70	M	430	175	Normal	Normal	Normal
32	72	F	440	180	Normal	Normal	Normal
33	74	M	450	185	Normal	Normal	Normal
34	76	F	460	190	Normal	Normal	Normal
35	78	M	470	195	Normal	Normal	Normal
36	80	F	480	200	Normal	Normal	Normal
37	82	M	490	205	Normal	Normal	Normal
38	84	F	500	210	Normal	Normal	Normal
39	86	M	510	215	Normal	Normal	Normal
40	88	F	520	220	Normal	Normal	Normal
41	90	M	530	225	Normal	Normal	Normal
42	92	F	540	230	Normal	Normal	Normal
43	94	M	550	235	Normal	Normal	Normal
44	96	F	560	240	Normal	Normal	Normal
45	98	M	570	245	Normal	Normal	Normal
46	100	F	580	250	Normal	Normal	Normal
47	102	M	590	255	Normal	Normal	Normal
48	104	F	600	260	Normal	Normal	Normal
49	106	M	610	265	Normal	Normal	Normal
50	108	F	620	270	Normal	Normal	Normal
51	110	M	630	275	Normal	Normal	Normal
52	112	F	640	280	Normal	Normal	Normal
53	114	M	650	285	Normal	Normal	Normal
54	116	F	660	290	Normal	Normal	Normal
55	118	M	670	295	Normal	Normal	Normal
56	120	F	680	300	Normal	Normal	Normal
57	122	M	690	305	Normal	Normal	Normal
58	124	F	700	310	Normal	Normal	Normal
59	126	M					

7-10-68 10:31 AM 000 Ship 6 In 100% 100%

7-10-68 10:31 AM 000 Ship 6 In 100% 100%

Surface (OD) 14,750⁵

in production.

2112 (+4135) 14,717 (-13,722)

3312 (+323)

6510 (+515)

7414 (-2436)

1112 (-4157)

(Order) 13,912 (-7317)

2112	2102	Reduces 6/14 streaks
4304	2394	Any, reduces, li, sd & salt streaks
1010	3124	Dt w/streaks li & any
1152	2002	Dt w/streaks sd, li & s
1200	1050	Red & green sd w/streaks any & li
1050	1500	Dt w/streaks sd & any
1050	1030	li w/streaks sd
11,200	300	Dt w/streaks sd
11,200	1044	li w/streaks sd & sd
12,200	1092	Dt gray s. w/streaks sd & li
12,213	214	li w/streaks sd
13,217	115	sd w/streaks sd & li
13,312	334	li w/streaks sd
13,311	112	sd w/li & sd streaks
14,337	730	li w/cit streaks
14,337	80	Dark brn & black s.
14,337	53	li w/cit streaks
14,337	10	Dt w/cit streaks

THE SUPERIOR OIL COMPANY
G. H. COATES NO. 1-A
TABULATION OF DEVIATION SURVEYS

LOCATION: 600' FNL & 1980' FWL
SECTION 32, T-13-S, R-36-E
LEA COUNTY, NEW MEXICO

<u>DEPTH</u> <u>(FEET)</u>	<u>DEVIATION</u> <u>(DEGREES)</u>	<u>DEPTH</u> <u>(FEET)</u>	<u>DEVIATION</u> <u>(DEGREES)</u>	<u>DEPTH</u> <u>(FEET)</u>	<u>DEVIATION</u> <u>(DEGREES)</u>
120	1/4	6190	1-1/2	11,311	1
367	3/4	6490	1-1/4	11,470	3/4
740	1/2	6917	1	11,553	3/4
1019	1/2	7156	3/4	11,742	3/4
1357	1/4	7405	1	11,888	1/2
1931	1	7639	3/4	12,073	1/2
2044	3/4	7839	1	12,173	1/2
2199	1/4	7949	3/4	12,214	3/4
2572	1/4	8167	1	12,293	1
2885	1/2	8493	1	12,427	3/4
3100	3/4	8744	1	12,564	1-1/4
3391	1-1/2	8946	1	12,671	1-1/4
3578	1-1/2	9110	1	12,812	1-1/4
3652	1-1/2	9297	1	12,997	1
3919	2-1/2	9469	1-1/4	13,137	1-1/2
4013	2-1/4	9724	1-1/2	13,228	1-1/4
4139	2	9906	1-1/2	13,444	2
4498	1-3/4	10,039	1-1/2	13,563	1-3/4
4600	1-3/4	10,115	1-1/2	13,688	3
4786	2	10,205	1-1/2	13,975	3
4910	1-3/4	10,256	1-1/2	14,172	3
5000	1-1/2	10,349	1-1/2	14,246	3
5215	1-1/2	10,566	3/4	14,318	2-3/4
5395	1-1/4	10,808	3/4	14,480	2
5677	1-3/4	11,003	3/4	14,633	3-1/4
5920	1-3/4	11,200	1	14,722	3-1/4

I certify that the above information is true and complete to the best of my knowledge.

B.H. Freeland, Jr.
B. H. Freeland, Jr.
Petroleum Engineer
THE SUPERIOR OIL COMPANY

Subscribed & Sworn before me this 11th day of June, 1964.

My Commission Expires June 1, 1965

Donald W. Eastwood
DONALD W. EASTWOOD

THE SUPERIOR OIL COMPANY
BETENBOUGH NO. 1
RECORD OF DRILL STEM TESTS

LOCATION: 660' FNL & 1980' FWL
SECTION 32, T-13-S, R-36-E
LEA COUNTY, NEW MEXICO

- DST #1, 9746-9766, Leonard, 4-1/2" drill pipe dry, 5/8" BHC, Tool open 1 hour, weak blow increasing to strong blow after 10 minute, then steady thruout. Rec 438' gas in drill pipe, 270' heavily oil & gas cut mud, 270' oil, gas & mud cut SW, 192' SW. 1 hr ISIP 3576, BHFP 139-198, 1 hr FSIP 3284, HP 4572 in & out, BHT 188°.
- DST #2, 10,142-10,256, Wolfcamp, 4-1/2" drill pipe dry, 5/8" BHC, Tool open 1 hour, no blow. Rec 15' drlg mud. 1 hour ISIP 58, BHFP 43-43, 1 hr FSIP 72, HP 4846, BHT 182°.
- DST #3, 10,971-11,003, Cisco-Canyon, 4-1/2" drill pipe dry, 5/8" BHC, Tool open 1 hour, Fair blow thruout, Rec 465' muddy sulf wtr & 3813' salty sulf wtr (24,000 ppm Cl), 1 hour ISIP 4259, BHFP 635-1945, 1 hour FSIP 4251, HP 5279, BHT 216°.
- DST #4, 12,285-12,336, Atoka, 4-1/2" drill pipe, 5/8" BHC, 2500' nitrogen cushion. Tool open 1 hour, strong blow thruout. Gas to surface 2 min after closing too, TSTM. Rec 800' oil & gas cut mud, 60" ISIP 3906, BHFP 1225-1186, 60" FSIP 3886, HP 5791
- DST #5, 12,812-12,890, Atoka, 4-1/2" drill pipe, 5/8" BHC, 3000' nitrogen cushion. Tool open 2 hours, no blow immediately, strong blow of air after 35 min & thruout remainder of test. Rec 2000 gas in drill pipe, 20' condensate, 285' gas & condensate cut mud. 1 hr ISIP 4078, BHFP 1212-1305, 1 hr FSIP 4055, HP 6162, BHT 179°.
- DST #6, 14,721-14,780, Devonian, 4-1/2" drill pipe, 5/8" BHC, 4764' nitrogen cushion. Tool open 1 hour & 15 minute, very strong blow of air decreasing to dead in 1 hour & 15 minute. Rec 13,106' salty sulf wtr (22,000 ppm Cl). 45 min ISIP 5760, BHFP 3426-5760, 90 min FSIP 5760. HP 6967-6943, BHT 210°.