

Bulletin on Sucker Rod Pumping System Design Book

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Supplement 1
to
API BUL 11L3 (First Edition)
**SUCKER ROD PUMPING SYSTEM
DESIGN BOOK**

OFFICIAL PUBLICATION



REG. U.S. PATENT OFFICE

AMERICAN PETROLEUM INSTITUTE
Washington, D.C.



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Foreword

This supplement contains changes to explain differences between rod percentages used in this bulletin and rod percentages shown in Table 4.1 of the third edition of RP11L: *Recommended Practice for Design Calculations for Sucker Rod Pumping Systems*, January 1977. Errata sheets issued November, 1973 remain in effect.

Page iii, Par. 5. *Replace Par. 5 with the following:*

5. Rod and Pump Sizes. Rod and pump combinations listed in Table 1 were taken from Table 4.1 of the second edition of RP 11L, dated March 1972. Rod and pump combinations listed in Table 2 were not included in Table 4.1 of the second edition of RP 11L. Some of the larger size rods are not considered for shallow depth, low volume. Rod Nos. 88 and 99 were not considered in the computer program because it was assumed that untapered rods of 1 inch and larger would not normally be run.

SPECIAL NOTE: Values of rod percentages and related rod weights, elastic constants, and frequency factors were changed in the third edition of RP 11L, dated January 1977. Changes were adopted at the 1976 Standardization Conference and were based on an article by A. B. Neely entitled "Sucker Rod String Design", published in the March 1976 issue of PETROLEUM ENGINEER magazine. Values in Bulletin 11L3 have not been recalculated using the new rod percentages. The changed rod percentages have negligible effect upon the values calculated in this Bulletin 11L3, except for the weight of rods in fluid (Wrf). The new value of Wrf can be obtained by taking the ratio of the

rod weight per foot from Table 4.1 of the third edition of RP 11L and the rod weight per foot from Table 1 of Bulletin 11L3 and multiplying the appropriate Bulletin 11L3 value of Wrf by this ratio. The increased weight of the rods in fluid should then be added to both the peak polished rod load and the minimum polished rod load.

Example: Assume a case (page 393, Bulletin 11L3) of 300 barrels per day from 7,000 feet with an 86 rod and a 1.75 inch pump. The rod weight per foot from Table 4.1, third edition, RP 11L, is 2.185. The rod weight per foot from column 3, Table 1, Bul 11L3, is 2.130. The ratio of these two values is 1.02582. The weight of rods in fluid for the assumed conditions is 13,002 pounds (page 393, Bul 11L3). Multiplying this figure by the ratio of 1.02582 gives a value of 13,338. This is 336 pounds heavier rod weight than the Bul 11L3 recommended rod design. The value of 336 pounds should then be added to both the peak polished rod load (PPRL) and the minimum polished rod load (MPRL) listed in Bulletin 11L3.

Page iii, Par. 8. *Replace the first sentence of Par. 8 with the following:*

All API stroke lengths listed in Supplement 1 to API Spec 11E: *Specification for Pumping Units*, issued December 1972, are included.

Page iv, Table 1. *Replace the parenthesized phrase (From RP 11L, Table 1) with (See Par. 5)*

Page v, Table 2. *Change title of Table 2 to read ADDITIONAL ROD AND PUMP DATA. Delete parenthesized phrase (Not included in Table 1, RP 11L).*



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ERRATA

November, 1973

API BUL 11L3

SUCKER ROD PUMPING SYSTEM DESIGN BOOK

FIRST EDITION

MAY, 1970

NOTE: Since the issuance of API Bulletin 11L3: **Sucker Rod Pumping System Design Book** (First Edition, May 1970), information has been received that approximately six percent of the tabulated minimum polished rod load (MPRL) values are in error. Other tabulated values in the book are not affected by this error.

The following sheets contain the results of a computer rerun correcting the MPRL values that are in error by five percent or more,

based on the weight of rods in fluid. The correct MPRL values are properly identified according to their location in Bulletin 11L3 by including the pump depth and production subheadings, along with the columns designated ROD NO., PUMP DIA, and STROKE that correspond with the MPRL. The corrections begin at pump depth of 2500 ft, because there were no corrections to be made at the 2000 ft depth.

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PUMP DEPTH
2500.

PRODUCTION
100.

77 2.25 30. 954.
77 2.75 20. 1743.
77 2.75 24. 1621.

65 2.25 30. 1615.
66 1.75 30. 1464.
66 2.00 24. 1911.
66 2.00 30. 1763.
66 2.25 24. 2050.
75 1.75 36. 1571.
75 2.25 24. 2347.
76 1.75 30. 1641.
76 2.00 30. 2023.
76 2.25 24. 2415.
77 2.00 24. 2747.
77 2.00 30. 2656.
77 2.25 20. 3165.
77 2.25 24. 3016.
77 2.50 24. 3245.

ROD NO. PUMP DIA. STROKE MPRL
44 1.25 20. 665.
44 1.50 16. 906.
54 1.25 20. 886.
54 1.50 16. 1109.
64 1.50 16. 1573.

PUMP DEPTH
2500.

PRODUCTION
600.

ROD NO. PUMP DIA. STROKE MPRL
66 2.75 24. 734.
76 2.75 24. 932.
77 2.50 24. 999.

PUMP DEPTH
2500.

PRODUCTION
150.

ROD NO. PUMP DIA. STROKE MPRL
44 1.50 20. 580.
54 1.50 20. 800.
54 1.75 20. 966.
55 1.50 20. 1016.
55 1.75 16. 1240.
64 1.50 20. 1131.
64 1.75 16. 1507.
65 1.50 20. 1232.
65 1.75 16. 1525.
65 2.00 16. 1689.
66 1.75 16. 1933.
75 1.75 16. 1960.
75 2.00 16. 2277.
76 1.75 16. 2167.

PUMP DEPTH
3000.

PRODUCTION
100.

ROD NO. PUMP DIA. STROKE MPRL
44 1.25 24. 947.
54 1.25 24. 1219.
54 1.50 20. 1463.
55 1.25 20. 1660.
64 1.25 24. 1740.
64 1.50 20. 2049.
65 1.50 20. 2191.
66 1.50 16. 2819.
75 1.75 16. 3030.
76 1.50 16. 3147.
76 1.75 16. 3380.
77 1.50 16. 3961.

PUMP DEPTH
2500.

PRODUCTION
200.

ROD NO. PUMP DIA. STROKE MPRL
55 2.00 20. 1103.
64 1.75 20. 1162.
65 2.00 20. 1409.
66 1.75 20. 1529.
66 2.00 16. 1825.
66 2.25 16. 1944.
75 1.75 20. 1521.
75 2.00 16. 1957.
75 2.25 16. 2205.
76 1.75 20. 1756.
76 2.00 16. 2084.
76 2.25 16. 2284.
77 1.75 16. 2357.
77 2.00 16. 2614.

PUMP DEPTH
3000.

PRODUCTION
150.

ROD NO. PUMP DIA. STROKE MPRL
44 1.50 30. 613.
54 1.75 24. 1343.
55 1.50 24. 1462.
55 1.75 20. 1669.
64 1.50 24. 1638.
64 1.75 20. 2020.
65 1.50 24. 1739.
65 1.75 20. 2046.
66 1.50 20. 2351.
66 1.50 24. 2290.
66 1.75 20. 2572.
75 1.50 24. 2208.
75 1.75 20. 2602.
75 2.00 20. 2914.
76 1.50 20. 2630.
76 1.50 24. 2585.
76 1.75 20. 2891.
77 1.75 16. 3752.
77 1.75 20. 3630.
77 2.00 16. 3951.

PUMP DEPTH
2500.

PRODUCTION
250.

ROD NO. PUMP DIA. STROKE MPRL
54 1.75 24. 533.
55 2.00 24. 879.
65 2.00 20. 1167.
65 2.00 24. 1151.
65 2.25 20. 1343.
66 1.75 20. 1247.
66 1.75 24. 1177.
66 2.00 20. 1477.
66 2.25 16. 1730.
75 1.75 24. 1212.
75 2.00 20. 1573.
75 2.25 16. 1974.
75 2.25 20. 1934.
76 2.25 16. 2026.
77 2.00 16. 2327.
77 2.00 20. 2215.
77 2.25 16. 2523.
77 2.50 16. 2703.

PUMP DEPTH
3000.

PRODUCTION
200.

ROD NO. PUMP DIA. STROKE MPRL
44 1.50 30. 616.
54 1.50 30. 853.
54 1.50 36. 824.
54 1.75 30. 1079.
55 1.75 24. 1397.
64 1.50 30. 1233.
64 1.75 24. 1691.
65 1.50 30. 1339.
65 1.75 24. 1713.
65 2.00 24. 1915.
66 1.75 24. 2161.
66 2.00 20. 2437.
75 1.50 30. 1778.
75 1.75 24. 2197.
75 2.00 20. 2622.
75 2.00 24. 2589.
76 1.75 24. 2434.
76 2.00 20. 2803.
77 1.75 20. 3229.
77 1.75 24. 3167.
77 2.00 20. 3490.

PUMP DEPTH
2500.

PRODUCTION
300.

ROD NO. PUMP DIA. STROKE MPRL
55 1.75 24. 500.
55 2.25 24. 809.
64 1.75 30. 583.
65 1.75 30. 575.
65 2.25 20. 1160.
65 2.25 24. 1111.
66 1.75 24. 050.
66 2.00 20. 1265.
66 2.25 20. 1464.
66 2.50 20. 1574.
76 2.00 20. 1457.
76 2.50 20. 1924.
77 2.00 20. 1871.
77 2.25 16. 2304.
77 2.25 20. 2156.
77 2.50 16. 2451.

PUMP DEPTH
3000.

PRODUCTION
250.

ROD NO. PUMP DIA. STROKE MPRL
54 1.75 30. 906.
55 2.00 30. 1278.
64 1.50 36. 875.
65 2.00 30. 1646.
66 1.75 24. 1908.
66 1.75 30. 1768.
66 2.00 24. 2109.
66 2.25 24. 2277.
75 1.75 30. 1748.
75 2.00 24. 2273.
75 2.25 24. 2593.
76 1.75 30. 2040.
76 2.00 24. 2420.
76 2.25 24. 2687.
77 1.75 24. 2720.
77 2.00 20. 3189.
77 2.00 24. 3051.
77 2.25 20. 3367.

PUMP DEPTH
2500.

PRODUCTION
400.

ROD NO. PUMP DIA. STROKE MPRL
65 2.25 30. 680.
66 2.00 24. 726.
66 2.50 20. 1244.
66 2.50 24. 1170.
66 2.75 24. 1307.
76 2.00 30. 742.
76 2.50 20. 1497.
76 2.50 24. 1413.
77 2.00 24. 1129.
77 2.25 20. 1673.
77 2.75 20. 2096.

PUMP DEPTH
3000.

PRODUCTION
300.

ROD NO. PUMP DIA. STROKE MPRL
54 2.00 30. 915.
55 1.75 30. 910.

PUMP DEPTH
2500.

PRODUCTION
500.

ROD NO. PUMP DIA. STROKE MPRL
66 2.50 30. 720.

PUMP DEPTH
3000.

PRODUCTION
400.

ROD NO. PUMP DIA. STROKE MPRL
65 2.00 42. 858.
65 2.25 30. 1240.
66 2.00 30. 1326.
66 2.50 30. 1731.
75 2.25 30. 1768.
76 2.00 30. 1529.
76 2.50 30. 2082.
76 2.75 30. 2314.
77 2.00 30. 1968.
77 2.25 24. 2557.
77 2.25 30. 2324.
77 2.50 24. 2764.
77 2.50 30. 2644.

PUMP DEPTH
3000.

PRODUCTION
500.

ROD NO. PUMP DIA. STROKE MPRL
66 2.25 42. 954.
66 2.50 30. 1408.
66 2.50 36. 1316.
75 2.25 42. 1294.
76 2.50 30. 1713.
76 2.50 36. 1611.
77 2.25 30. 1871.
77 2.75 30. 2424.

PUMP DEPTH
3000.

PRODUCTION
600.

ROD NO. PUMP DIA. STROKE MPRL
65 2.75 42. 939.
76 2.25 36. 870.
76 2.75 30. 1601.
77 2.25 42. 1107.
77 2.50 30. 1805.
77 2.75 36. 1913.

PUMP DEPTH
3000.

PRODUCTION
800.

ROD NO. PUMP DIA. STROKE MPRL
66 2.75 36. 675.
86 2.75 36. 1273.

PUMP DEPTH
3000.

PRODUCTION
1000.

ROD NO. PUMP DIA. STROKE MPRL
98 3.75 36. 2711.

PUMP DEPTH
3000.

PRODUCTION
1250.

ROD NO. PUMP DIA. STROKE MPRL
87 3.75 48. 1010.

PUMP DEPTH
3000.

PRODUCTION
1500.

ROD NO. PUMP DIA. STROKE MPRL
108 3.75 36. 1714.
108 3.75 48. 1420.

PUMP DEPTH
3000.

PRODUCTION
2000.

ROD NO. PUMP DIA. STROKE MPRL
109 4.75 48. 1419.

PUMP DEPTH
3500.

PRODUCTION
100.

ROD NO. PUMP DIA. STROKE MPRL
44 1.06 36. 1039.
44 1.25 30. 1225.
54 1.25 30. 1564.
55 1.25 24. 2115.
55 1.50 20. 2322.
55 1.50 24. 2292.
64 1.25 30. 2203.
64 1.50 24. 2517.
65 1.25 24. 2453.
65 1.50 20. 2747.
65 1.50 24. 2714.



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66	1.25	24.	3147.
66	1.50	20.	3470.
75	1.25	24.	2974.
75	1.50	20.	3397.
75	1.75	20.	3673.
76	1.50	20.	3866.
77	1.50	16.	4965.
77	1.50	20.	4846.
77	1.75	16.	5124.

PUMP DEPTH		PRODUCTION	
3500.		150.	
ROD NO.	PUMP DIA.	STROKE	MPRL
44	1.25	36.	916.
44	1.25	42.	856.
44	1.50	36.	1080.
54	1.25	36.	1183.
54	1.25	42.	1198.
54	1.50	30.	1518.
54	1.50	36.	1495.
55	1.25	36.	1561.
55	1.50	30.	1896.
64	1.50	30.	2105.
64	1.75	24.	2530.
65	1.50	30.	2234.
65	1.75	24.	2563.
66	1.50	24.	3006.
66	1.50	30.	2921.
66	1.75	24.	3218.
75	1.50	30.	2841.
75	1.75	24.	3271.
76	1.50	24.	3352.
76	1.50	30.	3297.
76	1.75	24.	3640.
76	2.00	24.	3870.
77	1.50	24.	4217.
77	1.75	20.	4617.
77	1.75	24.	4529.
77	2.00	20.	4808.

PUMP DEPTH		PRODUCTION	
3500.		200.	
ROD NO.	PUMP DIA.	STROKE	MPRL
44	1.50	36.	889.
54	1.75	36.	1441.
55	1.50	42.	1490.
55	1.75	30.	1810.
64	1.50	36.	1706.
64	1.75	30.	2184.
64	1.75	36.	2173.
65	1.50	36.	1816.
65	1.75	30.	2211.
65	2.00	30.	2413.
66	1.50	30.	2498.
66	1.50	36.	2424.
66	1.75	30.	2791.
75	1.50	36.	2353.
75	1.75	30.	2826.
75	2.00	30.	3238.
76	1.75	30.	3132.
76	2.00	24.	3529.
77	1.75	24.	4120.
77	1.75	30.	3995.
77	2.00	20.	4491.
77	2.00	24.	4372.
77	2.25	24.	4563.

PUMP DEPTH		PRODUCTION	
3500.		250.	
ROD NO.	PUMP DIA.	STROKE	MPRL
44	1.50	42.	655.
55	1.50	48.	1175.
55	1.75	42.	1466.
55	2.00	36.	1674.
64	1.50	42.	1344.
64	1.50	48.	1455.
64	1.75	36.	1829.
64	1.75	42.	1868.
65	1.50	42.	1429.
65	1.75	36.	1851.
65	2.00	30.	2164.
65	2.00	36.	2130.
66	1.75	30.	2506.
66	1.75	36.	2369.
66	2.00	30.	2726.
75	1.75	36.	2383.
75	2.00	30.	2917.
75	2.25	30.	3262.
76	1.75	30.	2832.
76	1.75	36.	2685.
76	2.00	30.	3116.
76	2.25	30.	3379.
77	1.75	30.	3567.
77	2.00	24.	4066.
77	2.00	30.	3916.
77	2.25	24.	4225.

PUMP DEPTH		PRODUCTION	
3500.		300.	
ROD NO.	PUMP DIA.	STROKE	MPRL
54	1.75	42.	993.
55	1.50	48.	847.
55	1.75	48.	1166.
55	2.00	36.	1472.
55	2.00	42.	1452.
64	1.75	48.	1570.
65	2.00	36.	1888.
65	2.00	42.	1887.
66	1.75	36.	2083.
66	1.75	42.	2008.
66	2.00	30.	2489.
66	2.00	36.	2381.
75	2.00	36.	2530.
75	2.25	30.	3000.

75	2.25	36.	2984.
76	1.75	36.	2340.
76	1.75	42.	2333.
76	2.00	30.	2865.
76	2.00	36.	2716.
76	2.25	30.	3089.
77	1.75	36.	3008.
77	2.00	30.	3572.
77	2.00	36.	3438.
77	2.25	24.	4011.
77	2.25	30.	3864.

PUMP DEPTH		PRODUCTION	
3500.		400.	
ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.75	48.	899.
65	2.00	42.	1389.
66	1.75	42.	1417.
66	1.75	48.	1271.
66	2.00	36.	1939.
66	2.00	48.	1692.
66	2.25	36.	2153.
66	2.25	42.	2105.
75	1.75	48.	1339.
75	2.00	42.	1897.
75	2.00	48.	1983.
75	2.25	36.	2455.
75	2.25	42.	2416.
76	2.25	36.	2519.
76	2.25	42.	2503.
76	2.50	36.	2780.
77	2.00	36.	2813.
77	2.00	42.	2717.
77	2.25	30.	3361.
77	2.25	36.	3173.
77	2.50	30.	3545.
77	2.50	36.	3513.

PUMP DEPTH		PRODUCTION	
3500.		500.	
ROD NO.	PUMP DIA.	STROKE	MPRL
65	2.00	48.	899.
65	2.25	42.	1330.
65	2.25	54.	1237.
65	2.50	48.	1513.
66	2.00	42.	1395.
66	2.25	48.	1564.
66	2.50	42.	1915.
75	2.00	48.	1306.
75	2.25	42.	1900.
76	2.00	54.	1398.
76	2.50	36.	2391.
76	2.50	42.	2308.
76	2.75	42.	2562.
77	2.00	42.	2074.
77	2.00	48.	1941.
77	2.25	36.	2712.
77	2.25	48.	2488.
77	2.50	42.	2894.
77	2.75	36.	3246.

PUMP DEPTH		PRODUCTION	
3500.		600.	
ROD NO.	PUMP DIA.	STROKE	MPRL
65	2.25	48.	936.
66	2.00	64.	653.
75	2.00	54.	728.
75	2.00	64.	918.
76	2.50	42.	1936.
76	2.75	48.	2123.
77	2.25	42.	2069.
77	2.25	54.	1890.
77	2.50	36.	2631.
77	2.50	48.	2318.
77	2.75	36.	2831.
77	2.75	42.	2745.
86	2.25	54.	2078.
86	2.50	42.	2564.
86	2.50	48.	2484.
86	2.75	36.	3076.
86	2.75	42.	2922.
87	2.25	42.	2280.
87	2.50	36.	2935.
87	2.50	48.	2678.
87	2.75	36.	3201.
87	2.75	42.	3090.

PUMP DEPTH		PRODUCTION	
3500.		800.	
ROD NO.	PUMP DIA.	STROKE	MPRL
76	2.25	54.	497.
76	2.50	48.	1110.
77	2.25	64.	712.
77	2.75	42.	2022.
77	2.75	54.	1753.
86	2.50	48.	1524.
86	2.75	42.	2235.
87	2.25	54.	819.
87	2.75	42.	2340.
87	2.75	54.	2060.

PUMP DEPTH		PRODUCTION	
3500.		1000.	
ROD NO.	PUMP DIA.	STROKE	MPRL
87	2.75	48.	1413.
97	3.75	48.	3660.
98	2.50	54.	1089.

PUMP DEPTH		PRODUCTION	
3500.		1250.	
ROD NO.	PUMP DIA.	STROKE	MPRL
97	3.75	54.	2699.
98	3.75	54.	2819.
108	2.75	64.	634.
108	3.75	42.	3777.
109	3.75	48.	3852.

PUMP DEPTH		PRODUCTION	
3500.		1500.	
ROD NO.	PUMP DIA.	STROKE	MPRL
97	3.75	48.	2010.
109	3.75	42.	3301.

PUMP DEPTH		PRODUCTION	
4000.		100.	
ROD NO.	PUMP DIA.	STROKE	MPRL
44	1.06	36.	1372.
44	1.06	42.	1311.
44	1.25	36.	1505.
54	1.06	42.	1688.
54	1.25	36.	1938.
55	1.25	30.	2541.
64	1.25	36.	2669.
64	1.50	30.	3005.
65	1.25	30.	2935.
65	1.50	24.	3262.
66	1.25	30.	3806.
66	1.50	24.	4130.
75	1.25	30.	3560.
75	1.50	24.	4032.
76	1.25	30.	4216.
76	1.50	24.	4599.
77	1.50	20.	5838.
77	1.50	24.	5760.
77	1.75	20.	6031.

PUMP DEPTH		PRODUCTION	
4000.		150.	
ROD NO.	PUMP DIA.	STROKE	MPRL
44	1.25	42.	1196.
44	1.25	48.	1140.
44	1.50	42.	1348.
54	1.25	42.	1542.
54	1.25	48.	1462.
54	1.50	36.	1866.
54	1.50	42.	1830.
55	1.25	42.	2000.
55	1.50	36.	2337.
64	1.50	36.	2584.
65	1.25	42.	2367.
65	1.50	36.	2753.
66	1.50	30.	3615.
66	1.50	36.	3520.
66	1.75	30.	3853.
75	1.50	36.	3488.
75	1.75	30.	3900.
76	1.50	30.	4018.
76	1.50	36.	4017.
76	1.75	30.	4341.
77	1.50	30.	5055.
77	1.75	24.	5509.
77	2.00	24.	5687.

PUMP DEPTH 4000.		PRODUCTION 200.	
ROD NO.	PUMP DIA.	STROKE	MPRL
44	1.25	64.	809.
44	1.50	54.	1085.
54	1.25	54.	1117.
54	1.50	48.	1491.
54	1.75	48.	1795.
55	1.50	42.	1958.
55	1.50	48.	1931.
55	1.75	36.	2220.
55	1.75	42.	2204.
64	1.50	42.	2212.
64	1.50	48.	2212.
64	1.75	36.	2686.
64	1.75	42.	2672.
65	1.50	42.	2331.
65	1.50	48.	2360.
65	1.75	36.	2720.
65	1.75	42.	2739.
66	1.50	36.	3123.
66	1.50	42.	3045.
66	1.75	30.	3518.
66	1.75	36.	3427.
75	1.50	42.	2927.
75	1.75	36.	3466.
75	2.00	36.	3690.
76	1.50	36.	3469.
76	1.50	42.	3429.
76	1.75	30.	3998.
76	1.75	36.	3852.
76	2.00	30.	4200.
77	1.50	36.	4416.
77	1.75	30.	4950.
77	1.75	36.	4836.
77	2.00	24.	5346.
77	2.00	34.	5239.

34	1.75	48.	1543.	77	2.25	54.	3271.	PUMP DEPTH		PRODUCTION	
54	1.75	54.	1538.	77	2.50	42.	3821.	4500.		100.	
55	1.50	48.	1626.	77	2.50	48.	3754.	ROD NO.	PUMP DIA.	STROKE	MPRL
55	1.50	54.	1557.	85	2.00	54.	2654.				
55	1.75	42.	1935.	86	2.00	54.	2672.	44	1.06	42.	1654.
55	1.75	48.	1937.	86	2.25	48.	3366.	44	1.06	48.	1596.
64	1.50	54.	1767.	86	2.25	54.	3295.	44	1.25	42.	1786.
64	1.75	42.	2345.	86	2.50	42.	3983.	54	1.06	48.	2009.
64	1.75	48.	2306.	86	2.50	48.	3850.	54	1.25	42.	2292.
65	1.50	48.	1929.	86	2.75	48.	4313.	55	1.06	42.	2695.
65	1.50	54.	1926.	87	2.00	48.	3238.	55	1.25	36.	2976.
65	1.75	42.	2374.	87	2.00	54.	3072.	64	1.25	36.	3075.
65	1.75	48.	2336.	87	2.25	42.	3944.	64	1.25	42.	3116.
65	2.00	42.	2648.	87	2.25	54.	3621.	64	1.50	36.	3493.
66	1.50	42.	2640.	87	2.50	42.	4276.	65	1.25	36.	3447.
66	1.50	48.	2539.	87	2.50	48.	4187.	65	1.50	30.	3766.
66	1.75	36.	3122.	87	2.75	42.	4550.	66	1.25	30.	4519.
66	1.75	42.	3011.					66	1.25	36.	4471.
66	2.00	36.	3329.	PUMP DEPTH		PRODUCTION		66	1.50	24.	4850.
75	1.50	48.	2483.	4000.		600.		66	1.50	30.	4760.
75	1.75	42.	3053.	ROD NO.	PUMP DIA.	STROKE	MPRL	75	1.25	36.	4141.
75	2.00	36.	3569.					75	1.50	30.	4648.
75	2.00	42.	3583.	65	2.00	64.	902.	76	1.25	30.	4986.
76	1.75	36.	3512.	65	2.25	74.	1276.	76	1.25	36.	4940.
76	1.75	42.	3374.	75	2.00	64.	1340.	76	1.50	30.	5323.
76	2.00	36.	3827.	75	2.25	64.	2087.	77	1.25	30.	6260.
76	2.25	36.	4071.	76	2.00	74.	1474.	77	1.50	24.	6735.
77	1.75	36.	4399.	76	2.25	54.	2134.	77	1.75	24.	6925.
77	1.75	42.	4366.	76	2.50	48.	2622.				
77	2.00	30.	4881.	76	2.75	54.	2797.	PUMP DEPTH		PRODUCTION	
77	2.00	36.	4796.	77	2.00	54.	2297.	4500.		150.	
77	2.25	30.	5015.	77	2.00	64.	1988.	ROD NO.	PUMP DIA.	STROKE	MPRL
				77	2.25	48.	2950.				
				77	2.25	64.	2639.	44	1.06	64.	1147.
				77	2.50	42.	3483.	44	1.25	48.	1479.
				77	2.50	54.	3185.	44	1.25	54.	1421.
				77	2.75	48.	3569.	54	1.25	54.	1829.
				85	2.00	64.	1872.	54	1.50	42.	2222.
				86	2.00	64.	1836.	54	1.50	48.	2193.
				86	2.25	54.	2725.	55	1.25	42.	2540.
				86	2.25	64.	2814.	55	1.25	48.	2439.
				86	2.50	48.	3409.	55	1.50	36.	2842.
				86	2.75	48.	3807.	55	1.50	42.	2781.
				86	2.75	54.	3824.	64	1.25	54.	2610.
				87	2.25	48.	3262.	64	1.50	42.	3065.
				87	2.50	48.	3647.	64	1.50	48.	3100.
				87	2.50	54.	3538.	64	1.75	42.	3518.
				87	2.75	42.	4128.	65	1.25	48.	2869.
				87	2.75	48.	4026.	65	1.50	36.	3369.
								65	1.50	42.	3275.
								66	1.50	36.	4229.
				PUMP DEPTH		PRODUCTION		66	1.50	42.	4178.
				4000.		300.		66	1.75	36.	4493.
				ROD NO.	PUMP DIA.	STROKE	MPRL	75	1.25	48.	3526.
								75	1.50	36.	4153.
				76	2.25	64.	1160.	75	1.50	42.	4116.
				76	2.75	54.	2119.	75	1.75	36.	4545.
				86	2.75	54.	2920.	76	1.50	36.	4720.
				86	2.75	64.	2849.	76	1.50	42.	4711.
				87	2.25	64.	1715.	76	1.75	30.	5104.
				87	2.25	74.	1697.	76	1.75	36.	5070.
				87	2.50	54.	2664.	77	1.50	30.	6079.
				87	2.75	48.	3283.	77	1.50	36.	5942.
				87	2.75	64.	2952.	77	1.75	30.	6360.
				96	2.25	64.	2072.	77	2.00	30.	6559.
				96	2.25	74.	2423.				
				97	2.25	64.	2136.	PUMP DEPTH		PRODUCTION	
				97	2.50	54.	3170.	4500.		200.	
				97	2.75	48.	3964.	ROD NO.	PUMP DIA.	STROKE	MPRL
				98	2.50	54.	3639.				
				98	2.50	64.	3540.	54	1.25	64.	1447.
				98	2.75	48.	4390.	54	1.50	54.	1873.
								54	1.75	54.	2146.
								55	1.50	48.	2407.
								55	1.50	54.	2372.
								55	1.75	48.	2628.
								64	1.25	64.	2082.
								64	1.50	48.	2696.
								64	1.50	54.	2638.
								64	1.75	42.	3191.
								64	1.75	48.	3154.
								65	1.50	48.	2859.
								65	1.50	54.	2798.
								65	1.75	42.	3231.
								65	1.75	48.	3203.
								66	1.50	42.	3763.
								66	1.50	48.	3665.
								66	1.75	36.	4146.
								66	1.75	42.	4069.
								75	1.50	48.	3558.
								75	1.50	54.	3745.
								75	1.75	42.	4109.
								75	1.75	48.	4171.
								75	2.00	42.	4547.
								76	1.50	42.	4195.
								76	1.50	48.	4110.
								76	1.75	36.	4695.
								76	1.75	42.	4576.
								77	1.50	42.	5275.
								77	1.75	36.	5794.
								77	1.75	42.	5733.
								77	2.00	30.	6160.
								77	2.00	36.	6115.
								PUMP DEPTH		PRODUCTION	
								4500.		250.	
								ROD NO.	PUMP DIA.	STROKE	MPRL
								54	1.50	64.	1527.
								54	1.75	54.	1923.
								54	1.75	64.	1885.
								55	1.50	64.	2083.
								55	1.50	64.	1972.
								55	1.75	48.	2374.
								55	1.75	54.	2340.
								64	1.50	64.	2244.
								64	1.75	36.	2381.



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64	1.75	54.	2805.
65	1.50	54.	2459.
65	1.50	64.	2408.
65	1.75	48.	2903.
65	1.75	54.	2844.
66	1.50	48.	3294.
66	1.50	54.	3174.
66	1.75	42.	3748.
66	1.75	48.	3651.
66	2.00	42.	3919.
75	1.50	54.	3118.
75	1.75	48.	3699.
75	1.75	54.	3762.
75	2.00	42.	4228.
75	2.00	48.	4197.
76	1.50	54.	3583.
76	1.75	42.	4223.
76	1.75	48.	4099.
76	2.00	42.	4535.
77	1.75	42.	5274.
77	1.75	48.	5232.
77	2.00	36.	5716.
77	2.00	42.	5676.

PUMP DEPTH		PRODUCTION	
4500.		300.	

ROD NO.	PUMP DIA.	STROKE	MPRL
55	1.50	74.	1640.
64	1.50	64.	1903.
64	1.50	74.	1953.
64	1.75	54.	2537.
64	1.75	64.	2480.
65	1.50	64.	2015.
65	1.50	74.	2065.
65	1.75	54.	2569.
65	1.75	64.	2509.
65	2.00	54.	2872.
66	1.50	64.	2667.
66	1.75	48.	3364.
66	1.75	54.	3242.
66	2.00	42.	3711.
66	2.00	48.	3638.
66	2.00	54.	3597.
75	1.50	64.	2618.
75	1.75	54.	3296.
75	2.00	48.	3884.
75	2.00	54.	3884.
75	2.25	48.	4316.
76	1.75	48.	3812.
76	1.75	54.	3651.
76	2.00	42.	4245.
76	2.00	48.	4173.
76	2.25	48.	4473.
77	1.75	42.	4945.
77	1.75	48.	4775.
77	1.75	54.	4751.
77	2.00	42.	5266.
77	2.00	48.	5196.
77	2.25	42.	5566.

PUMP DEPTH		PRODUCTION	
4500.		400.	

ROD NO.	PUMP DIA.	STROKE	MPRL
54	1.50	100.	728.
64	1.50	86.	1140.
64	1.75	64.	1920.
65	1.75	64.	1946.
65	2.25	64.	2648.
66	1.75	74.	2516.
66	2.00	54.	3055.
66	2.00	64.	2968.
75	1.75	64.	2556.
75	1.75	74.	2664.
75	2.00	54.	3295.
75	2.00	64.	3176.
75	2.25	48.	3791.
75	2.25	54.	3737.
76	1.75	64.	2852.
76	1.75	74.	2972.
76	2.00	54.	3505.
76	2.00	64.	3407.
76	2.25	48.	3919.
76	2.25	54.	3870.
77	1.75	54.	3898.
77	1.75	64.	3726.
77	2.00	48.	4565.
77	2.00	54.	4384.
77	2.25	42.	5035.
77	2.25	48.	4937.
77	2.25	54.	4830.
77	2.50	48.	5141.

PUMP DEPTH		PRODUCTION	
4500.		500.	

ROD NO.	PUMP DIA.	STROKE	MPRL
65	1.75	74.	1361.
65	2.00	64.	1961.
75	1.75	86.	1943.
75	2.00	64.	2637.
75	2.25	54.	3328.
75	2.25	64.	3126.
76	1.75	74.	2029.
76	2.00	64.	2799.
76	2.00	74.	2626.
76	2.25	54.	3404.
76	2.25	64.	3235.
76	2.50	64.	3680.
77	2.00	54.	3873.
77	2.00	64.	3573.
77	2.25	48.	4429.
77	2.25	54.	4234.
77	2.25	64.	4114.
77	2.50	48.	4647.
77	2.50	54.	4591.

85	2.00	64.	3386.
85	2.00	74.	3747.
86	2.00	64.	3436.
86	2.00	74.	3754.
86	2.25	54.	4256.
86	2.25	64.	4163.
86	2.50	48.	4831.
86	2.50	54.	4728.
86	2.75	54.	5174.
87	2.00	64.	3970.
87	2.25	48.	4892.
87	2.25	54.	4687.
87	2.25	64.	4632.
87	2.50	48.	5212.
87	2.50	54.	5156.
87	2.75	54.	5473.

PUMP DEPTH		PRODUCTION	
4500.		600.	

ROD NO.	PUMP DIA.	STROKE	MPRL
75	2.00	74.	1984.
75	2.25	64.	2729.
76	2.00	86.	2125.
76	2.25	64.	2797.
77	2.00	64.	3047.
77	2.00	74.	2816.
77	2.25	54.	3400.
77	2.25	74.	3400.
85	2.00	74.	2652.
86	2.00	74.	2629.
86	2.25	64.	3527.
86	2.25	74.	3576.
86	2.50	54.	4316.
86	2.50	64.	4124.
86	2.75	54.	4691.
86	2.75	64.	4668.
87	2.00	64.	3312.
87	2.00	74.	3156.
87	2.25	74.	4020.
87	2.25	54.	4671.
87	2.50	64.	4484.
87	2.75	54.	4920.

PUMP DEPTH		PRODUCTION	
4500.		800.	

ROD NO.	PUMP DIA.	STROKE	MPRL
76	2.00	86.	957.
76	2.25	74.	1837.
86	2.25	74.	2350.
86	2.75	64.	3749.
86	2.75	74.	3660.
87	2.25	74.	2615.
87	2.25	86.	2556.
87	2.50	64.	3484.
87	2.75	74.	3880.
96	2.25	74.	3049.
96	2.25	86.	3381.
96	2.50	64.	4103.
97	2.25	74.	3172.
97	2.25	86.	3483.
97	2.50	64.	4179.
98	2.25	74.	3709.
98	2.50	64.	4689.
98	2.50	74.	4622.
98	2.75	54.	5687.
98	2.75	64.	5302.

PUMP DEPTH		PRODUCTION	
4500.		1000.	

ROD NO.	PUMP DIA.	STROKE	MPRL
87	2.25	86.	1372.
87	2.25	100.	1330.
87	2.50	74.	2430.
97	2.50	74.	2904.
97	2.75	86.	3885.
98	2.50	74.	3328.
98	2.50	86.	3263.
98	2.75	64.	4444.
107	2.50	74.	3583.
107	2.50	86.	3815.
108	2.50	74.	3664.
108	2.50	86.	4025.
108	2.75	64.	4868.
108	3.75	64.	7345.
109	2.50	74.	4352.
109	2.75	64.	5592.
109	2.75	74.	5394.

PUMP DEPTH		PRODUCTION	
4500.		1250.	

ROD NO.	PUMP DIA.	STROKE	MPRL
97	2.75	100.	2657.
98	2.50	86.	1673.
98	2.75	74.	3029.
108	3.75	74.	6248.
109	2.75	74.	3794.
109	2.75	86.	3647.

PUMP DEPTH		PRODUCTION	
4500.		1500.	

ROD NO.	PUMP DIA.	STROKE	MPRL
109	2.75	86.	2037.

PUMP DEPTH		PRODUCTION	
5000.		100.	

ROD NO.	PUMP DIA.	STROKE	MPRL
44	1.06	48.	1938.
44	1.06	54.	1886.
44	1.25	48.	2071.
54	1.06	54.	2343.
54	1.25	42.	2686.
54	1.25	48.	2645.
55	1.06	48.	3147.
55	1.25	36.	3494.
55	1.25	42.	3429.
64	1.06	54.	3180.
64	1.25	42.	3532.
64	1.25	48.	3559.
64	1.50	42.	3979.
65	1.25	42.	3957.
65	1.50	36.	4281.
66	1.25	36.	5150.
66	1.25	42.	5103.
66	1.50	30.	5462.
75	1.25	42.	4813.
75	1.25	36.	5290.
76	1.25	36.	5666.
76	1.25	30.	6105.
77	1.25	36.	7169.
77	1.50	30.	7601.

PUMP DEPTH		PRODUCTION	
5000.		150.	

ROD NO.	PUMP DIA.	STROKE	MPRL
44	1.06	64.	1466.
44	1.06	74.	1420.
44	1.25	64.	1695.
54	1.25	64.	2172.
54	1.50	54.	2541.
55	1.25	48.	2988.
55	1.25	54.	2901.
55	1.50	42.	3268.
55	1.50	48.	3239.
64	1.25	64.	3109.
64	1.50	48.	3565.
64	1.50	54.	3577.
65	1.25	54.	3372.
65	1.50	42.	3862.
65	1.50	48.	3799.
65	1.75	48.	4086.
66	1.25	48.	4438.
66	1.50	36.	4994.
66	1.50	42.	4876.
66	1.50	48.	4838.
66	1.75	42.	5136.
75	1.25	54.	4142.
75	1.50	42.	4778.
75	1.50	48.	4737.
75	1.75	42.	5189.
76	1.50	42.	5434.
76	1.50	48.	5441.
76	1.75	36.	5826.
76	1.75	42.	5793.
77	1.50	36.	6935.
77	1.50	42.	6824.
77	1.75	30.	7335.
77	1.75	36.	7249.

PUMP DEPTH		PRODUCTION	
5000.		200.	

ROD NO.	PUMP DIA.	STROKE	MPRL
54	1.25	74.	1770.
54	1.50	64.	2218.
55	1.25	64.	2432.
55	1.25	74.	2389.
55	1.50	54.	2871.
55	1.50	64.	2793.
64	1.25	74.	2545.
64	1.50	54.	3190.
64	1.50	64.	3146.
64	1.75	54.	3677.
65	1.50	54.	3388.
65	1.50	64.	3370.
65	1.75	48.	3752.
65	1.75	54.	3732.
66	1.50	48.	4411.
66	1.50	54.	4304.
66	1.75	42.	4764.
66	1.75	48.	4714.
75	1.50	54.	4199.
75	1.75	48.	4777.
75	1.75	54.	4778.
76	1.50	48.	4917.
76	1.50	54.	4820.
76	1.75	42.	5378.
76	1.75	48.	5302.
77	1.50	42.	6314.
77	1.50	48.	6158.
77	1.75	36.	6824.
77	1.75	42.	6661.
77	1.75	48.	6632.
77	2.00	42.	6994.

75 1.75 54. 5425.
76 1.50 54. 5607.
76 1.50 64 5116.

AVA **Documents** **5**
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76	1.75	48.	6099.
76	1.75	54.	6029.
77	1.50	48.	7198.
77	1.50	54.	7043.
77	1.75	42.	7672.
77	1.75	48.	7577.
77	1.75	54.	7532.

PUMP DEPTH 5500. PRODUCTION 250.

ROD NO.	PUMP DIA.	STROKE	MPRL
54	1.25	100.	1699.
54	1.50	86.	2212.
64	1.25	100.	2572.
64	1.50	74.	3243.
64	1.50	86.	3259.
64	1.75	64.	3860.
64	1.75	74.	3827.
65	1.50	74.	3430.
65	1.50	86.	3468.
65	1.75	64.	3909.
65	1.75	74.	3884.
66	1.50	64.	4538.
66	1.50	74.	4431.
66	1.75	54.	5036.
66	1.75	64.	4925.
75	1.50	74.	4255.
75	1.75	64.	4973.
75	2.00	64.	5521.
76	1.50	64.	5068.
76	1.50	74.	4980.
76	1.75	54.	5697.
76	1.75	64.	5538.
77	1.50	64.	6370.
77	1.75	48.	7193.
77	1.75	54.	7027.
77	1.75	64.	6943.
77	2.00	48.	7435.
77	2.00	54.	7423.

PUMP DEPTH 5500. PRODUCTION 300.

ROD NO.	PUMP DIA.	STROKE	MPRL
54	1.25	120.	1353.
54	1.50	86.	1990.
64	1.50	86.	2797.
64	1.50	100.	2955.
64	1.75	74.	3503.
64	1.75	86.	3504.
65	1.50	86.	2963.
65	1.75	74.	3544.
65	1.75	86.	3552.
65	2.00	74.	3882.
66	1.50	74.	4028.
66	1.50	86.	3951.
66	1.75	64.	4596.
66	1.75	74.	4497.
75	1.50	86.	3830.
75	1.75	74.	4564.
75	2.00	64.	5182.
75	2.00	74.	5207.
76	1.50	74.	4466.
76	1.50	86.	4471.
76	1.75	64.	5172.
76	1.75	74.	5081.
76	2.00	64.	5591.
77	1.75	54.	6703.
77	1.75	64.	6451.
77	2.00	48.	7163.
77	2.00	54.	7018.
77	2.00	64.	6947.

PUMP DEPTH 5500. PRODUCTION 400.

ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.50	120.	2237.
64	1.75	86.	2875.
64	1.75	100.	2782.
65	1.50	100.	2205.
65	1.75	86.	2912.
65	1.75	100.	2807.
75	1.75	86.	3754.
75	1.75	100.	4002.
75	2.00	74.	4546.
75	2.00	86.	4505.
75	2.25	74.	5082.
76	1.75	74.	4413.
76	1.75	86.	4170.
76	2.00	74.	4849.
76	2.00	86.	4874.
76	2.25	74.	5264.
77	1.75	74.	5549.
77	1.75	86.	5483.
77	2.00	64.	6235.
77	2.00	74.	6097.
85	1.75	86.	4840.
85	2.00	74.	5838.
86	1.75	86.	5064.
86	2.00	74.	5860.
86	2.25	64.	6559.
86	2.25	74.	6553.
87	1.75	74.	5984.
87	1.75	86.	6005.
87	2.00	64.	6806.
87	2.00	74.	6631.
87	2.25	54.	7440.
87	2.25	64.	7276.
87	2.50	64.	7627.

PUMP DEPTH 5500. PRODUCTION 500.

ROD NO.	PUMP DIA.	STROKE	MPRL
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75	1.75	100.	3014.
75	2.00	86.	3888.
75	2.00	100.	3880.
75	2.25	74.	4605.
75	2.25	86.	4475.
76	1.75	100.	3394.
76	2.00	86.	4135.
76	2.00	100.	4169.
76	2.25	86.	4634.
85	1.75	100.	3978.
85	2.00	86.	4962.
86	1.75	100.	4190.
86	2.00	86.	5017.
86	2.25	74.	5881.
86	2.25	86.	5872.
86	2.50	74.	6433.
87	2.00	74.	5977.
87	2.00	86.	5715.
87	2.25	64.	6711.
87	2.25	74.	6500.
87	2.50	64.	6996.
87	2.50	74.	7007.

PUMP DEPTH 5500. PRODUCTION 600.

ROD NO.	PUMP DIA.	STROKE	MPRL
75	1.75	120.	2271.
75	2.00	100.	3174.
76	1.75	120.	2647.
76	2.00	86.	3695.
85	2.00	100.	4154.
86	2.00	100.	4167.
86	2.25	86.	5120.
86	2.50	74.	5932.
86	2.50	86.	5820.
86	2.75	86.	6405.
87	2.00	86.	5098.
87	2.00	100.	4952.
87	2.25	74.	5954.
87	2.25	86.	5681.
87	2.50	74.	6381.
87	2.50	86.	6355.
96	2.00	100.	5671.
96	2.25	86.	6384.
96	2.50	74.	7369.
96	2.50	86.	7489.
97	2.00	86.	5845.
97	2.00	100.	6049.
97	2.25	74.	6919.
97	2.25	86.	6638.
97	2.50	74.	7500.
97	2.75	74.	8135.
98	2.00	86.	6791.
98	2.25	74.	7838.
98	2.25	86.	7658.
98	2.50	64.	8753.
98	2.50	74.	8467.
98	2.75	64.	9079.
98	2.75	74.	9047.

PUMP DEPTH 5500. PRODUCTION 800.

ROD NO.	PUMP DIA.	STROKE	MPRL
85	2.00	120.	2771.
86	2.00	120.	2783.
86	2.25	100.	3908.
86	2.25	120.	4090.
86	2.50	86.	4924.
96	2.25	100.	4843.
96	2.50	86.	6105.
96	2.50	100.	6087.
97	2.25	100.	5091.
97	2.50	86.	6214.
97	2.50	100.	6198.
97	2.75	74.	7118.
97	2.75	86.	6836.
98	2.25	86.	6314.
98	2.25	100.	6087.
98	2.50	74.	7398.
98	2.50	86.	6960.
98	2.50	100.	6980.
98	2.75	74.	7915.
98	2.75	86.	7667.
107	2.25	100.	6155.
107	2.50	86.	7337.
107	2.75	74.	8576.
107	2.75	86.	8477.
108	2.25	100.	6622.
108	2.50	86.	7600.
108	2.75	74.	8775.
108	2.75	86.	8664.
109	2.25	86.	7826.
109	2.50	74.	9271.
109	2.50	86.	8938.
109	2.75	64.	10293.
109	2.75	74.	9874.
109	2.75	86.	9881.

PUMP DEPTH 5500. PRODUCTION 1000.

ROD NO.	PUMP DIA.	STROKE	MPRL
96	2.25	120.	3476.
96	2.50	100.	4789.
96	2.50	120.	5020.
97	2.25	120.	3641.
97	2.50	100.	4878.
97	2.50	120.	5128.
97	2.75	86.	5991.
107	2.25	120.	4652.
107	2.50	100.	5880.
107	2.75	86.	7219.
107	2.75	100.	7024.
108	2.50	100.	6141.

108	2.75	86.	7364.
108	2.75	100.	7234.
109	2.50	86.	7591.
109	2.50	100.	7281.
109	2.75	86.	8322.
109	2.75	100.	8260.

PUMP DEPTH 5500. PRODUCTION 1250.

ROD NO.	PUMP DIA.	STROKE	MPRL
107	2.50	120.	4034.
107	2.75	100.	5587.
107	2.75	120.	5615.
108	2.50	120.	4191.
108	2.75	100.	5654.
108	2.75	120.	5872.

PUMP DEPTH 6000. PRODUCTION 100.

ROD NO.	PUMP DIA.	STROKE	MPRL
44	1.06	64.	2492.
44	1.06	74.	2453.
44	1.25	64.	2631.
54	1.06	64.	3095.
54	1.06	74.	3093.
54	1.25	54.	3398.
54	1.25	64.	3361.
55	1.06	54.	4130.
55	1.06	64.	4052.
55	1.25	48.	4372.
55	1.25	54.	4345.
64	1.06	64.	3972.
64	1.25	54.	4457.
65	1.06	54.	4723.
65	1.06	64.	4664.
65	1.25	48.	5069.
65	1.25	54.	5014.
66	1.25	42.	6542.
66	1.25	48.	6457.
66	1.25	54.	6418.
66	1.50	42.	6772.
75	1.25	48.	6081.
75	1.25	54.	6083.
75	1.50	48.	6557.
76	1.25	42.	7214.
76	1.25	48.	7113.
76	1.50	42.	7542.
77	1.25	42.	9024.
77	1.25	48.	9014.
77	1.50	36.	9444.
85	1.25	48.	7095.
85	1.25	54.	7207.
85	1.50	42.	7886.
85	1.50	48.	7880.
86	1.25	42.	8210.
86	1.25	48.	8083.
86	1.50	36.	8761.
86	1.50	42.	8699.
87	1.25	42.	9668.
87	1.50	36.	10186.

PUMP DEPTH 6000. PRODUCTION 150.

ROD NO.	PUMP DIA.	STROKE	MPRL
54	1.06	86.	2532.
54	1.25	74.	2931.
54	1.25	86.	2932.
54	1.50	74.	3252.
55	1.25	64.	3848.
55	1.25	74.	3767.
55	1.50	64.	4102.
64	1.25	74.	3890.
64	1.50	64.	4516.
65	1.25	64.	4446.
65	1.25	74.	4371.
65	1.50	54.	4893.
65	1.50	64.	4846.
66	1.25	64.	5700.
66	1.50	48.	6273.
66	1.50	54.	6195.
75	1.25	64.	5370.
75	1.25	74.	5504.
75	1.50	54.	6047.
75	1.50	64.	6035.
76	1.25	64.	6324.
76	1.50	48.	7001.
76	1.50	54.	6898.
76	1.75	54.	7262.
77	1.50	42.	8826.
77	1.50	48.	8675.
77	1.50	54.	8639.
77	1.75	42.	9042.
77	1.75	48.	9044.
85	1.25	64.	6309.
85	1.50	54.	7265.
85	1.75	54.	8069.
86	1.25	64.	7275.
86	1.50	48.	8065.
86	1.50	54.	7945.
86	1.75	48.	8522.
87	1.50	48.	9360.
87	1.50	54.	9303.
87	1.75	42.	9842.
87	1.75	48.	9817.

PUMP DEPTH 6000. PRODUCTION 200.

ROD NO.	PUMP DIA.	STROKE	MPRL
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54	1.25	86.	2531.
54	1.25	100.	2425.
54	1.50	74.	2956.
54	1.50	86.	2926.
55	1.25	74.	3396.
64	1.25	86.	3375.
64	1.50	74.	4092.
64	1.50	86.	4143.
64	1.75	74.	4688.
65	1.25	86.	3826.
65	1.50	64.	4492.
65	1.50	74.	4368.
65	1.75	74.	4756.
66	1.50	64.	5638.
66	1.50	74.	5573.
66	1.75	64.	5991.
75	1.25	86.	4717.
75	1.50	64.	5537.
75	1.50	74.	5474.
75	1.75	64.	6060.
76	1.50	64.	6294.
76	1.50	74.	6256.
76	1.75	54.	6813.
76	1.75	64.	6760.
77	1.50	54.	8090.
77	1.50	64.	7922.
77	1.75	48.	8568.
77	1.75	54.	8475.
85	1.50	64.	6667.
85	1.50	74.	6796.
85	1.75	54.	7627.
85	1.75	64.	7596.
86	1.50	64.	7277.
86	1.75	54.	8013.
86	1.75	64.	8012.
87	1.50	54.	8720.
87	1.50	64.	8597.
87	1.75	48.	9316.
87	1.75	54.	9200.
87	2.00	54.	9604.

PUMP DEPTH 6000. PRODUCTION 250.

ROD NO.	PUMP DIA.	STROKE	MPRL
54	1.25	120.	2084.
54	1.50	86.	2650.
64	1.50	86.	3672.
64	1.75	74.	4347.
64	1.75	86.	4348.
65	1.50	74.	4052.
65	1.50	86.	3897.
65	1.75	74.	4401.
65	1.75	86.	4413.
66	1.50	74.	5142.
66	1.50	86.	5069.
66	1.75	64.	5590.
66	1.75	74.	5564.
75	1.50	74.	5035.
75	1.50	86.	4935.
75	1.75	64.	5723.
75	1.75	74.	5615.
75	2.00	74.	6191.
76	1.50	74.	5710.
76	1.50	86.	5710.
76	1.75	64.	6338.
76	1.75	74.	6289.
77	1.50	64.	7405.
77	1.50	74.	7248.
77	1.75	54.	8072.
77	1.75	64.	7897.
77	2.00	54.	8297.
85	1.50	86.	6290.
85	1.75	64.	7140.
85	1.75	74.	7104.
85	2.00	64.	7978.
86	1.50	74.	6691.
86	1.75	64.	7446.
86	1.75	74.	7528.
86	2.00	64.	8033.
87	1.50	74.	7863.
87	1.75	54.	8769.
87	1.75	64.	8581.
87	2.00	54.	9114.

PUMP DEPTH 6000. PRODUCTION 300.

ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.50	100.	3255.
64	1.75	86.	3997.
65	1.50	86.	3603.
65	1.50	100.	3422.
65	1.75	74.	4150.
65	1.75	86.	4058.
66	1.50	100.	4573.
75	1.50	86.	4505.
75	1.50	100.	4562.
75	1.75	74.	5299.
75	1.75	86.	5242.
75	2.00	74.	5829.
76	1.50	86.	5148.
76	1.75	74.	5851.
76	1.75	86.	5814.
76	2.00	74.	6376.
77	1.75	64.	7503.
77	1.75	74.	7326.
77	2.00	54.	8020.
77	2.00	64.	7902.
85	1.50	86.	5512.
85	1.75	74.	6597.
85	1.75	86.	6751.
85	2.00	64.	7589.
85	2.00	74.	7562.
86	1.50	86.	6094.
86	1.75	74.	6892.
86	2.00	64.	7629.
86	2.00	74.	7611.

87	1.75	64.	8149.
87	1.75	74.	7962.
87	2.00	54.	8793.
87	2.00	64.	8614.
87	2.25	64.	9004.

PUMP DEPTH 6000. PRODUCTION 400.

ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.50	120.	2466.
75	1.50	120.	3556.
75	1.75	100.	4327.
75	2.00	86.	5173.
75	2.00	100.	5195.
76	1.75	86.	5031.
76	1.75	100.	4816.
76	2.00	74.	5705.
76	2.00	86.	5571.
76	2.25	86.	5967.
77	1.75	74.	6611.
77	1.75	100.	6326.
85	1.75	100.	5718.
85	2.00	74.	6724.
85	2.00	86.	6712.
86	1.75	86.	5968.
86	1.75	100.	6052.
86	2.00	74.	6861.
86	2.00	86.	6751.
86	2.25	74.	7379.
87	1.75	86.	6882.
87	2.00	74.	7704.
87	2.00	86.	7584.
87	2.25	64.	8300.
87	2.25	74.	8227.

PUMP DEPTH 6000. PRODUCTION 500.

ROD NO.	PUMP DIA.	STROKE	MPRL
75	1.75	120.	3496.
75	2.00	100.	4470.
76	1.75	100.	4226.
76	1.75	120.	4080.
76	2.00	86.	5053.
85	1.75	120.	5076.
85	2.00	86.	6022.
86	1.75	100.	5831.
86	2.00	86.	5023.
86	2.00	86.	5055.
86	2.00	100.	5849.
86	2.25	86.	6695.
86	2.50	86.	7290.
87	1.75	100.	5800.
87	2.00	86.	6507.
87	2.00	100.	6588.
87	2.25	74.	7580.
87	2.25	86.	7402.
87	2.50	86.	7945.
96	2.00	86.	7300.
96	2.00	100.	7453.
96	2.25	74.	8425.
96	2.25	86.	8274.
96	2.50	74.	9155.
96	2.50	86.	9210.
97	2.00	86.	7799.
97	2.00	100.	8067.
97	2.25	74.	8790.
97	2.25	86.	8626.
97	2.50	74.	9319.
98	2.00	74.	9352.
98	2.00	86.	9041.
98	2.25	74.	9941.
98	2.25	86.	9850.
98	2.50	64.	10644.
98	2.50	74.	10560.
98	2.75	74.	10953.

PUMP DEPTH 6000. PRODUCTION 600.

ROD NO.	PUMP DIA.	STROKE	MPRL
75	1.75	144.	3142.
85	2.00	100.	5196.
86	1.75	120.	5310.
86	2.00	100.	4056.
86	2.00	120.	5324.
86	2.25	86.	6217.
86	2.25	100.	5943.
86	2.50	100.	6692.
87	2.00	100.	5872.
87	2.25	86.	6816.
87	2.25	100.	6617.
96	2.00	100.	6330.
96	2.25	86.	7593.
96	2.25	150.	7524.
96	2.50	86.	8378.
97	2.00	100.	6860.
97	2.25	86.	7911.
97	2.25	100.	7875.
97	2.50	74.	8804.
97	2.50	86.	8553.
97	2.75	86.	9224.
98	2.00	86.	8235.
98	2.00	100.	8005.
98	2.25	74.	9362.
98	2.25	86.	8957.
98	2.25	100.	9022.
98	2.50	74.	9891.
98	2.50	86.	9677.
98	2.75	74.	10249.

PUMP DEPTH 6000. PRODUCTION 800.

ROD NO.	PUMP DIA.	STROKE	MPRL
85	2.00	144.	3835.
86	2.00	144.	3820.
96	2.50	100.	7036.
97	2.25	100.	6429.
97	2.25	120.	6197.
97	2.50	100.	7159.
97	2.50	86.	8120.
98	2.25	100.	7392.
98	2.25	120.	7247.
98	2.50	86.	8507.
107	2.25	100.	7436.
107	2.25	120.	7900.
107	2.50	100.	8460.
107	2.75	86.	9782.
107	2.75	100.	9750.
108	2.25	170.	7958.
108	2.50	86.	9280.
108	2.50	100.	8812.
108	2.75	86.	10036.
108	2.75	100.	10093.
109	2.25	100.	9283.
109	2.50	86.	10569.
109	2.50	100.	10308.
109	2.75	74.	11721.
109	2.75	86.	11339.

PUMP DEPTH 6000. PRODUCTION 1000.

ROD NO.	PUMP DIA.	STROKE	MPRL
96	2.25	144.	4816.
97	2.25	120.	4810.
97	2.25	144.	4992.
107	2.75	100.	8404.
108	2.25	120.	6054.
108	2.50	100.	7690.
108	2.50	120.	7389.
108	2.75	100.	8508.
109	2.50	100.	8929.
109	2.50	120.	8711.
109	2.75	86.	10223.

PUMP DEPTH 6000. PRODUCTION 1250.

ROD NO.	PUMP DIA.	STROKE	MPRL
107	2.50	144.	5488.
108	2.50	120.	5637.
108	2.50	144.	5821.

PUMP DEPTH 6000. PRODUCTION 1500.

ROD NO.	PUMP DIA.	STROKE	MPRL
107	2.50	168.	4054.

PUMP DEPTH 6500. PRODUCTION 100.

ROD NO.	PUMP DIA.	STROKE	MPRL
54	1.06	74.	3423.
54	1.25	64.	3730.
54	1.25	74.	3726.
55	1.06	64.	4545.
55	1.06	74.	4514.
55	1.25	54.	4832.
64	1.06	74.	4449.
64	1.25	64.	4905.
65	1.06	64.	5188.
65	1.06	74.	5217.
65	1.25	54.	5590.
65	1.25	64.	5573.
66	1.25	48.	7190.
66	1.25	54.	7127.
66	1.50	48.	7435.
75	1.06	64.	6178.
75	1.25	54.	6704.
75	1.50	54.	7199.
76	1.25	48.	7917.
76	1.25	54.	7837.
76	1.50	48.	8280.
77	1.25	42.	10040.
77	1.25	48.	9920.
77	1.25	54.	9897.
77	1.50	36.	10423.
77	1.50	42.	10359.
85	1.06	64.	7149.
85	1.25	54.	7823.
85	1.50	48.	8636.
85	1.50	54.	8640.
86	1.25	48.	9025.
86	1.25	54.	8938.
86	1.50	42.	9582.
86	1.50	48.	9548.
87	1.25	48.	10628.
87	1.50	36.	11247.
87	1.50	42.	11165.

PUMP DEPTH 6500. PRODUCTION 150.

ROD NO.	PUMP DIA.	STROKE	MPRL
54	1.06	100.	2846.
54	1.25	86.	3254.
55	1.06	86.	3853.
55	1.25	86.	4219.



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	PUMP DEPTH 6500.		PRODUCTION 300.
ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.50	100.	3831.
64	1.50	120.	3791.
64	1.75	86.	4577.
65	1.50	100.	4064.
65	1.50	120.	4025.
65	1.75	86.	4631.
75	1.50	100.	5051.
75	1.75	86.	5908.
75	1.75	100.	5896.

ROD NO.	PUMP DEPTH	PRODUCTION	
	6500.	600.	
	PUMP DIA.	STROKE	MPRL
85	1.75	144.	4726.
85	2.00	120.	5838.
86	1.75	144.	4863.
86	2.00	120.	5861.
86	2.25	100.	6956.
86	2.25	120.	6855.
87	2.00	100.	7093.
96	2.00	120.	7305.
96	2.25	100.	8499.
96	2.50	86.	9620.
96	2.50	100.	9454.
97	2.00	100.	8123.
97	2.00	120.	7866.
97	2.25	100.	8855.
97	2.50	86.	9797.
97	2.50	100.	9657.
97	2.75	100.	10289.
98	2.00	100.	9285.
98	2.00	120.	9311.
98	2.25	86.	10475.
98	2.25	100.	10165.
98	2.50	86.	10976.
98	2.50	100.	10969.

PUMP DEPTH 7000.		PRODUCTION 150.	
ROD NO.	PUMP DIA.	STROKE	MPRL
54	1.06	100.	3253.
54	1.06	120.	3262.
54	1.25	86.	3676.
54	1.25	100.	3618.
55	1.06	100.	4264.
55	1.25	74.	4792.
64	1.25	86.	4836.
64	1.25	100.	4913.
64	1.50	86.	5484.
65	1.25	74.	5533.
65	1.25	86.	5972.
65	1.50	74.	5971.
66	1.25	74.	7032.
66	1.25	86.	7039.
66	1.50	64.	7497.
75	1.25	86.	6571.
75	1.50	64.	7343.
75	1.50	74.	7175.
75	1.25	74.	7175.

76	1.25	86.	7799.
76	1.50	64.	8371.
77	1.25	64.	9957.
77	1.25	74.	9839.
77	1.50	54.	10587.
77	1.50	64.	10477.
35	1.25	86.	7921.
85	1.50	64.	8820.
85	1.50	74.	8788.
86	1.25	74.	8932.
86	1.50	64.	9665.
86	1.75	64.	10218.
87	1.50	54.	11413.
87	1.50	64.	11273.
87	1.75	54.	11782.
96	1.25	74.	10273.
96	1.50	64.	11237.
96	1.75	64.	12037.
97	1.50	54.	12701.
97	1.50	64.	12581.
97	1.75	48.	13303.
97	1.75	54.	13255.
98	1.50	54.	14543.
98	1.75	48.	15392.
98	1.75	54.	15350.

PUMP DEPTH 7000. PRODUCTION 200.

ROD NO.	PUMP DIA.	STROKE	MPRL
54	1.06	144.	2685.
64	1.25	120.	4407.
64	1.50	86.	5104.
64	1.50	100.	5058.
65	1.25	100.	4843.
65	1.50	86.	5449.
65	1.50	100.	5462.
66	1.25	86.	6411.
66	1.25	100.	6300.
66	1.50	74.	7014.
66	1.50	86.	6921.
75	1.25	100.	5911.
75	1.50	86.	6727.
75	1.75	86.	7359.
76	1.50	74.	7807.
76	1.50	86.	7700.
76	1.75	74.	8219.
77	1.50	64.	9930.
77	1.50	74.	9730.
77	1.75	64.	10249.
85	1.25	100.	7101.
85	1.50	86.	8169.
85	1.75	74.	9158.
86	1.50	74.	9035.
86	1.50	86.	9032.
86	1.75	64.	9731.
86	1.75	74.	9651.
87	1.50	64.	10710.
87	1.50	74.	10481.
87	1.75	64.	11165.
96	1.50	74.	10485.
96	1.75	64.	11468.
96	1.75	74.	11436.
97	1.50	74.	11694.
97	1.75	64.	12528.
97	2.00	64.	13112.
98	1.50	64.	13679.
98	1.50	74.	13618.
98	1.75	54.	14734.
98	1.75	64.	14529.
98	2.00	54.	15069.

PUMP DEPTH 7000. PRODUCTION 250.

ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.50	100.	4691.
64	1.50	120.	4680.
65	1.25	120.	4272.
65	1.50	100.	4991.
75	1.50	100.	6195.
75	1.75	86.	6946.
75	1.75	100.	6973.
76	1.50	86.	7221.
76	1.50	100.	7047.
76	1.75	74.	7829.
76	1.75	86.	7754.
77	1.50	74.	9284.
77	1.50	86.	9028.
77	1.75	64.	9905.
77	1.75	74.	9715.
77	1.75	86.	9640.
85	1.50	100.	7588.
85	1.75	86.	8633.
85	2.00	86.	9680.
86	1.50	86.	8372.
86	1.50	100.	8401.
86	1.75	74.	9218.
86	1.75	86.	9139.
87	1.50	86.	9763.
87	1.75	74.	10540.
87	1.75	86.	10519.
87	2.00	74.	11032.
96	1.50	86.	9751.
96	1.75	74.	10846.
96	1.75	86.	10901.
96	2.00	74.	11664.
97	1.50	86.	10982.
97	1.75	74.	11848.
97	2.00	64.	12597.
97	2.00	74.	12543.
98	1.75	64.	13964.
98	1.75	74.	13781.
98	2.00	64.	14461.

PUMP DEPTH 7000. PRODUCTION 300.

ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.25	144.	3291.
64	1.50	120.	4209.
75	1.50	100.	5682.
75	1.75	100.	6479.
75	2.00	100.	7154.
76	1.50	100.	6635.
76	1.50	120.	6595.
76	1.75	86.	7385.
76	1.75	100.	7230.
76	1.75	100.	8343.
77	1.50	74.	9353.
77	1.75	74.	9281.
85	1.50	120.	8264.
85	1.75	86.	8167.
85	1.75	100.	9225.
85	2.00	86.	7717.
86	1.50	100.	8659.
86	1.75	86.	8633.
86	1.75	100.	9288.
86	2.00	86.	9040.
87	1.50	100.	10156.
87	1.75	74.	9911.
87	1.75	86.	10568.
87	2.00	74.	10520.
87	2.00	86.	9063.
96	1.50	100.	10221.
96	1.75	86.	11242.
96	2.00	74.	11183.
96	2.00	86.	11137.
97	1.75	74.	12039.
97	2.00	86.	12044.
98	1.75	74.	13207.
98	1.75	86.	12994.
98	2.00	64.	13993.
98	2.00	74.	13841.

PUMP DEPTH 7000. PRODUCTION 400.

ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.50	168.	3662.
75	1.50	144.	4707.
75	1.75	120.	5651.
76	1.50	120.	5579.
76	1.75	100.	6563.
85	1.50	144.	6275.
85	1.75	120.	7203.
85	2.00	100.	8330.
86	1.75	100.	7717.
86	1.75	120.	7547.
86	2.00	100.	8392.
86	2.25	100.	9085.
87	1.75	100.	8854.
87	1.75	120.	8829.
87	2.00	86.	9748.
87	2.00	100.	9515.
96	1.75	120.	9444.
96	2.00	100.	10212.
96	2.25	86.	11161.
96	2.25	100.	11153.
97	1.75	100.	9997.
97	2.00	86.	11058.
97	2.00	100.	10929.
97	2.25	86.	11699.
98	1.75	100.	11659.
98	2.00	86.	12639.
98	2.00	100.	12576.
98	2.25	74.	13394.
98	2.25	86.	13307.

PUMP DEPTH 7000. PRODUCTION 500.

ROD NO.	PUMP DIA.	STROKE	MPRL
75	1.50	168.	3804.
85	1.75	144.	6463.
85	2.00	120.	7520.
86	1.75	120.	6682.
86	1.75	144.	6820.
86	2.00	120.	7560.
86	2.25	100.	8440.
86	2.25	120.	8422.
87	1.75	120.	7698.
87	2.00	100.	8789.
96	1.75	120.	8044.
96	2.00	120.	9336.
96	2.25	100.	10302.
96	2.50	100.	11276.
97	1.75	120.	8800.
97	2.00	100.	10054.
97	2.00	120.	9993.
97	2.25	100.	10768.
97	2.50	100.	11510.
98	2.00	100.	11490.
98	2.25	86.	12510.
98	2.25	100.	12300.
98	2.50	86.	12961.

PUMP DEPTH 7000. PRODUCTION 600.

ROD NO.	PUMP DIA.	STROKE	MPRL
85	1.75	144.	5460.
85	1.75	168.	5924.
85	2.00	120.	6885.
85	2.00	144.	6817.
86	1.75	144.	5682.
86	2.00	120.	6923.
86	2.00	144.	6834.
96	2.00	120.	8350.
96	2.00	144.	8822.
96	2.25	120.	9543.
96	2.50	100.	10609.
96	2.50	120.	10590.
97	2.00	120.	8917.
97	2.25	100.	10176.

97	2.25	120.	9939.
97	2.50	100.	10790.
98	2.00	120.	10379.
98	2.25	120.	11348.
107	2.00	120.	10091.
107	2.25	100.	11698.
107	2.25	120.	11809.
107	2.50	100.	12672.
107	2.75	100.	13744.
108	2.00	120.	11222.
108	2.25	100.	12510.
108	2.50	86.	13679.
108	2.50	100.	13365.
108	2.75	100.	14116.
109	2.25	86.	14826.
109	2.25	100.	14328.
109	2.50	86.	15455.
109	2.50	100.	15311.
109	2.75	86.	15999.

PUMP DEPTH 7000. PRODUCTION 800.

ROD NO.	PUMP DIA.	STROKE	MPRL
96	2.00	168.	6962.
97	2.00	144.	7093.
97	2.00	168.	7394.
107	2.25	144.	10045.
107	2.50	120.	11049.
107	2.75	100.	12451.
107	2.75	120.	12271.
108	2.25	120.	10565.
108	2.25	144.	10964.
108	2.50	120.	11572.
108	2.75	100.	12794.
108	2.75	120.	12702.
109	2.50	100.	13799.

PUMP DEPTH 7000. PRODUCTION 1000.

ROD NO.	PUMP DIA.	STROKE	MPRL
107	2.25	144.	8099.
107	2.25	168.	8485.
108	2.25	144.	8650.

PUMP DEPTH 7500. PRODUCTION 100.

ROD NO.	PUMP DIA.	STROKE	MPRL
54	1.06	86.	4163.
54	1.06	100.	4169.
54	1.25	86.	4442.
55	1.06	74.	5496.
55	1.06	86.	5421.
55	1.25	64.	5746.
55	1.25	74.	5720.
64	1.06	86.	5332.
64	1.25	74.	5857.
64	1.25	86.	5863.
65	1.06	74.	6267.
65	1.06	86.	6186.
65	1.25	64.	6663.
65	1.25	74.	6607.
66	1.06	64.	8179.
66	1.06	74.	8065.
66	1.25	54.	8576.
66	1.25	64.	8478.
75	1.06	74.	7424.
75	1.25	64.	7991.
75	1.25	74.	7973.
76	1.06	74.	8864.
76	1.25	64.	9348.
77	1.25	54.	11824.
77	1.25	64.	11737.
77	1.50	48.	12178.
85	1.06	74.	8523.
85	1.25	64.	9296.
85	1.50	64.	10162.
86	1.75	64.	10615.
86	1.50	54.	11248.
87	1.25	54.	12662.
87	1.25	64.	12567.
87	1.50	48.	13151.
87	1.50	54.	13128.
96	1.25	64.	12278.
96	1.50	54.	13038.
97	1.25	54.	13977.
97	1.50	48.	14625.
97	1.50	54.	14624.
98	1.25	48.	16286.
98	1.25	54.	16160.
98	1.50	42.	16900.
98	1.50	48.	16837.

PUMP DEPTH 7500. PRODUCTION 150.

ROD NO.	PUMP DIA.	STROKE	MPRL
54	1.06	120.	3524.
54	1.25	100.	3995.
64	1.06	120.	4740.
64	1.25	100.	5289.
65	1.25	86.	6011.
65	1.25	100.	5929.
65	1.50	86.	6430.
66	1.25	74.	7822.

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ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.25	120.	5268.
64	1.25	144.	5330.
64	1.50	120.	6010.
65	1.25	120.	5970.
65	1.50	100.	6509.
65	1.50	120.	6493.
75	1.25	120.	7120.
75	1.50	100.	8013.
76	1.25	100.	8595.
76	1.25	120.	8431.
76	1.50	86.	9332.
76	1.50	100.	9166.
77	1.50	86.	11562.
77	1.50	100.	11476.
85	1.25	120.	8537.
85	1.50	100.	9679.
85	1.75	100.	10766.
86	1.50	86.	10744.
86	1.50	100.	10658.
86	1.75	86.	11366.
87	1.50	86.	12370.
87	1.50	100.	12370.
87	1.75	74.	13161.
87	1.75	86.	13093.
96	1.50	86.	12455.
96	1.50	100.	12590.
96	1.75	74.	13475.
96	1.75	86.	13384.
97	1.50	86.	13907.
97	1.75	74.	14765.
98	1.50	74.	16195.
98	1.50	86.	16044.
98	1.75	64.	17238.
98	1.75	74.	17113.
107	1.50	86.	15160.
107	1.75	74.	16355.
107	2.00	74.	17207.
108	1.50	74.	17486.
108	1.50	86.	17320.
108	1.75	64.	18453.
108	1.75	74.	18289.
108	2.00	64.	18984.
109	1.50	74.	20396.
109	1.75	64.	21361.
109	1.75	74.	21216.
109	2.00	64.	21965.

PUMP DEPTH 8000. PRODUCTION 250.

ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.25	144.	4693.
64	1.25	168.	4879.
64	1.50	120.	5650.
64	1.50	144.	5625.
75	1.25	144.	6474.
75	1.50	120.	7459.
75	1.75	120.	8236.
76	1.50	120.	8700.
76	1.50	100.	8523.
75	1.75	100.	9135.
85	1.75	100.	10279.
86	1.50	100.	10078.
86	1.50	120.	10042.
86	1.75	86.	10964.
86	1.75	100.	10792.
87	1.50	100.	11687.
87	1.75	86.	12523.
87	1.75	100.	12473.
96	1.50	100.	11700.
96	1.75	86.	12879.
96	1.75	100.	12791.
97	1.50	100.	13096.
97	1.75	86.	14086.
97	1.75	100.	14125.
97	2.00	86.	14749.
98	1.50	100.	15118.
98	1.75	74.	16530.
98	1.75	86.	16306.
98	2.00	74.	16968.
107	1.50	100.	14340.
107	1.75	86.	15617.
107	2.00	74.	16687.
107	2.00	86.	16606.
108	1.75	74.	17646.
108	1.75	86.	17416.
108	2.00	74.	18313.
109	1.75	74.	20444.
109	1.75	86.	20259.
109	2.00	64.	21281.
109	2.00	74.	21150.

PUMP DEPTH 8000. PRODUCTION 300.

ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.25	168.	4170.
64	1.25	192.	4512.
75	1.50	144.	6976.
75	1.75	120.	7799.
76	1.50	120.	8037.
76	1.50	144.	8034.
76	1.75	120.	8824.
85	1.50	144.	8752.
85	1.75	120.	9792.
86	1.50	120.	9324.
86	1.75	100.	10383.
86	1.75	120.	10303.
87	1.50	120.	10953.
87	1.75	100.	11870.
87	2.00	100.	12473.
96	1.50	120.	10964.
96	1.75	100.	12221.
96	2.00	100.	13150.
97	1.50	120.	12283.
97	1.75	100.	13347.

97	2.00	86.	14251.
97	2.00	100.	14193.
98	1.75	86.	15758.
98	1.75	100.	15504.
98	2.00	74.	16537.
98	2.00	86.	16351.
98	2.25	86.	16818.
107	1.75	100.	14839.
107	2.00	86.	16069.
107	2.00	100.	16086.
108	1.75	86.	16813.
108	1.75	100.	16487.
108	2.00	86.	17585.
108	2.25	86.	18339.
109	1.75	86.	19547.
109	1.75	100.	19540.
109	2.00	74.	20543.
109	2.00	86.	20353.
109	2.25	74.	21047.

PUMP DEPTH 8000. PRODUCTION 400.

ROD NO.	PUMP DIA.	STROKE	MPRL
85	1.50	168.	7571.
85	1.75	144.	8796.
85	2.00	120.	10065.
86	1.75	120.	9372.
86	1.75	144.	9260.
86	2.00	120.	10123.
87	1.75	144.	10734.
96	1.75	120.	11069.
96	1.75	144.	11357.
96	2.00	120.	12203.
96	2.25	120.	13237.
97	1.75	120.	12094.
97	2.00	100.	13281.
97	2.00	120.	13168.
97	2.25	100.	13874.
98	1.75	120.	14110.
98	2.00	100.	15168.
98	2.25	86.	15916.
98	2.25	100.	15826.
107	1.75	120.	13392.
107	2.00	100.	14969.
107	2.00	120.	15042.
107	2.25	120.	15956.
108	1.75	120.	15106.
108	2.00	100.	16360.
108	2.25	86.	17363.
108	2.25	100.	17196.
108	2.50	100.	17885.
109	2.00	86.	19268.
109	2.00	100.	18891.
109	2.25	86.	19857.
109	2.50	86.	20381.

PUMP DEPTH 8000. PRODUCTION 500.

ROD NO.	PUMP DIA.	STROKE	MPRL
85	1.50	192.	6387.
85	1.75	168.	7860.
86	1.75	144.	8323.
86	1.75	168.	8277.
96	1.75	144.	9871.
96	2.00	144.	11326.
96	2.25	120.	12400.
97	1.75	144.	10910.
97	2.00	120.	12188.
97	2.00	144.	12193.
97	2.25	120.	13016.
98	1.75	144.	12763.
107	1.75	144.	12153.
107	2.00	120.	13705.
107	2.25	120.	14986.
107	2.50	120.	16124.
108	2.00	120.	14971.
108	2.25	100.	16341.
108	2.25	120.	16155.
108	2.50	100.	16984.
109	2.00	100.	17945.
109	2.00	120.	17528.
109	2.25	100.	18661.
109	2.50	86.	19525.
109	2.50	100.	19392.

PUMP DEPTH 8000. PRODUCTION 600.

ROD NO.	PUMP DIA.	STROKE	MPRL
96	1.75	168.	8807.
96	2.00	144.	10324.
96	2.00	168.	10614.
97	1.75	168.	9758.
107	2.00	120.	12331.
107	2.00	144.	12412.
107	2.25	120.	14167.
107	2.25	144.	14236.
107	2.50	120.	15263.
108	2.00	144.	13820.
108	2.25	120.	15161.
108	2.50	120.	16029.
109	2.00	120.	16477.
109	2.00	144.	16264.
109	2.50	120.	18362.

PUMP DEPTH 8000. PRODUCTION 800.

ROD NO.	PUMP DIA.	STROKE	MPRL
107	2.00	168.	10543.

107	2.00	192.	11263.
107	2.25	144.	12346.
107	2.25	168.	12242.
108	2.00	168.	11582.
108	2.25	168.	13278.

PUMP DEPTH 8500. PRODUCTION 100.

ROD NO.	PUMP DIA.	STROKE	MPRL
54	1.06	100.	4888.
55	1.06	86.	6429.
55	1.06	100.	6358.
64	1.06	100.	6252.
64	1.25	100.	6785.
65	1.06	86.	7334.
65	1.06	100.	7252.
65	1.25	74.	7714.
65	1.25	86.	7684.
66	1.06	74.	9548.
66	1.06	86.	9404.
66	1.25	64.	9927.
66	1.25	74.	9837.
75	1.06	86.	8679.
75	1.06	100.	8733.
75	1.25	74.	9263.
75	1.25	86.	9234.
76	1.06	86.	10329.
76	1.25	74.	10836.
77	1.25	64.	13672.
77	1.25	74.	13596.
85	1.06	86.	9914.
85	1.25	74.	10760.
85	1.25	86.	10790.
86	1.06	86.	11710.
86	1.25	74.	12326.
87	1.25	64.	14642.
87	1.25	74.	14558.
96	1.25	74.	14158.
96	1.50	64.	14982.
97	1.25	64.	16160.
97	1.25	74.	16150.
97	1.50	54.	16873.
97	1.50	64.	16807.
98	1.25	64.	18666.
98	1.50	48.	19450.
98	1.50	54.	19371.
107	1.25	64.	17470.
107	1.50	54.	18457.
107	1.50	64.	18431.
108	1.25	64.	20054.
108	1.50	54.	20928.
109	1.50	48.	24471.

PUMP DEPTH 8500. PRODUCTION 150.

ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.06	144.	5659.
64	1.25	120.	6214.
65	1.06	120.	6489.
65	1.25	100.	7077.
65	1.25	120.	7012.
66	1.25	86.	9165.
75	1.06	120.	7778.
75	1.25	100.	8494.
75	1.50	100.	9196.
76	1.25	86.	10107.
76	1.25	100.	9928.
76	1.50	86.	10575.
77	1.25	86.	12652.
77	1.25	100.	12611.
77	1.50	74.	13270.
77	1.50	86.	13200.
85	1.25	100.	9914.
85	1.50	86.	11079.
85	1.50	100.	11077.
86	1.25	100.	11356.
86	1.50	74.	12331.
86	1.50	86.	12200.
87	1.25	86.	13544.
87	1.50	74.	14306.
96	1.25	100.	13235.
96	1.50	86.	14221.
97	1.75	86.	14984.
97	1.50	74.	15915.
97	1.75	74.	16548.
98	1.50	64.	18451.
98	1.50	74.	18278.
98	1.75	64.	19187.
107	1.50	74.	17422.
107	1.75	74.	18331.
108	1.50	74.	19710.
108	1.75	64.	20545.
109	1.50	64.	23183.
109	1.50	74.	23078.
109	1.75	54.	23981.
109	1.75	64.	23850.

PUMP DEPTH 8500. PRODUCTION 200.

ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.06	168.	4926.
64	1.25	144.	5650.
65	1.25	120.	6477.
65	1.25	144.	6300.
75	1.25	120.	7816.
75	1.25	144.	7984.
75	1.50	100.	8734.
75	1.50	120.	8678.
76	1.25	120.	9151.
76	1.50	100.	9911.

77	1.50	86.	12590.
85	1.50	100.	10474.
85	1.50	120.	10547.
85	1.75	100.	11559.
86	1.25	120.	10500.
86	1.50	100.	11487.
86	1.75	100.	12209.
87	1.50	86.	13557.
87	1.50	100.	13387.
87	1.75	86.	14084.
96	1.50	100.	13369.
96	1.75	86.	14412.
96	1.75	100.	14417.
97	1.50	86.	15107.
97	1.50	100.	14915.
97	1.75	74.	15940.
97	1.75	86.	15813.
98	1.50	86.	17280.
98	1.75	74.	18454.
107	1.50	100.	16651.
107	1.75	86.	17587.
107	2.00	86.	18485.
108	1.50	86.	18695.
108	1.75	74.	19713.
108	1.75	86.	19710.
108	2.00	74.	20341.
109	1.50	86.	21955.
109	1.75	64.	23107.
109	1.75	74.	22881.
109	2.00	64.	23554.

PUMP DEPTH 8500. PRODUCTION 250.

ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.25	168.	5107.
75	1.25	144.	7132.
75	1.50	120.	8175.
75	1.50	144.	8204.
75	1.75	120.	8862.
76	1.50	120.	9300.
76	1.75	120.	9896.
85	1.50	120.	9843.
85	1.75	100.	11127.
85	1.75	120.	11066.
86	1.50	120.	10753.
86	1.75	100.	11704.
87	1.50	100.	12834.
87	1.50	120.	12602.
87	1.75	86.	13607.
87	1.75	100.	13458.
87	2.00	100.	13922.
96	1.50	120.	12643.
96	1.75	100.	13770.
96	2.00	100.	14681.
97	1.50	100.	14268.
97	1.50	120.	14241.
97	1.75	86.	15314.
97	1.75	100.	15121.
98	1.50	100.	16365.
98	1.75	86.	17640.
98	1.75	100.	17557.
98	2.00	86.	18222.
107	1.75	100.	16838.
107	2.00	86.	17843.
108	1.50	100.	17716.
108	1.75	86.	18878.
108	1.75	100.	18907.
108	2.00	74.	19771.
108	2.00	86.	19692.
109	1.75	74.	22214.
109	1.75	86.	21899.
109	2.00	74.	22781.

PUMP DEPTH 8500. PRODUCTION 300.

ROD NO.	PUMP DIA.	STROKE	MPRL
75	1.50	144.	7558.
75	1.75	120.	8503.
75	1.75	144.	8466.
76	1.50	120.	8912.
85	1.50	144.	9228.
85	1.75	120.	10554.
85	2.00	120.	11751.
86	1.50	144.	10161.
86	1.75	120.	11085.
86	2.00	120.	11828.
87	1.50	120.	11962.
87	1.75	100.	13021.
87	1.75	120.	12786.
96	1.50	144.	12286.
96	1.75	120.	13156.
96	2.00	100.	14233.
96	2.00	120.	14212.
97	1.50	120.	13389.
97	1.75	100.	14595.
97	1.75	120.	14501.
97	2.00	100.	15288.
98	1.75	100.	16836.
98	2.00	86.	17634.
98	2.00	100.	17558.
107	1.75	100.	16143.
107	1.75	120.	16395.
107	2.00	100.	17192.
108	1.75	100.	18008.
108	2.00	86.	19083.
108	2.00	100.	19016.
109	1.75	86.	21287.
109	1.75	100.	20974.
109	2.00	74.	22288.
109	2.00	86.	21990.
109	2.25	86.	22609.

PUMP DEPTH 8500. PRODUCTION 400.

ROD NO.	PUMP DIA.	STROKE	MPRL
85	1.50	168.	8086.
85	1.75	144.	9580.
85	1.75	168.	9828.
85	2.00	120.	10991.
85	2.00	144.	10918.
86	1.50	168.	8874.
86	1.75	144.	10008.
86	2.00	144.	10991.
96	1.50	168.	10679.
96	1.75	144.	11961.
96	2.00	120.	13274.
96	2.25	120.	14216.
97	1.75	120.	13351.
97	1.75	144.	13095.
97	2.00	120.	14156.
97	2.25	120.	14973.
98	1.75	120.	15461.
98	2.00	100.	16621.
98	2.00	120.	16297.
107	1.75	144.	15104.
107	2.00	120.	16052.
107	2.25	120.	17222.
108	1.75	120.	16499.
108	2.00	100.	17882.
108	2.00	120.	17627.
108	2.25	100.	18598.
109	1.75	120.	19277.
109	2.00	100.	20588.
109	2.00	120.	20389.
109	2.25	86.	21556.
109	2.25	100.	21383.
109	2.50	100.	21932.

PUMP DEPTH 8500. PRODUCTION 500.

ROD NO.	PUMP DIA.	STROKE	MPRL
85	1.50	216.	7456.
85	1.75	168.	8607.
85	1.75	192.	8903.
96	1.75	168.	10846.
96	2.00	144.	12231.
96	2.25	144.	13529.
96	2.25	144.	13403.
97	1.75	144.	12116.
97	1.75	160.	11929.
97	2.00	144.	13086.
97	2.25	144.	14139.
107	2.00	144.	14957.
107	2.25	120.	16236.
107	2.50	120.	17344.
108	1.75	144.	14994.
108	2.00	120.	16566.
108	2.00	144.	16444.
108	2.25	120.	17428.
108	2.50	120.	18345.
109	2.00	120.	19086.
109	2.25	100.	20454.
109	2.25	120.	20063.

PUMP DEPTH 8500. PRODUCTION 600.

ROD NO.	PUMP DIA.	STROKE	MPRL
96	1.75	192.	9881.
97	1.75	168.	10791.
97	1.75	192.	10777.
97	2.00	144.	12318.
107	2.00	144.	13917.
107	2.00	168.	14066.
107	2.25	144.	15242.
107	2.50	120.	16627.
107	2.50	144.	16553.
108	2.00	144.	15157.
108	2.25	120.	16712.
108	2.25	144.	16386.

PUMP DEPTH 8500. PRODUCTION 800.

ROD NO.	PUMP DIA.	STROKE	MPRL
107	2.00	192.	11569.
107	2.25	192.	13865.

PUMP DEPTH 9000. PRODUCTION 100.

ROD NO.	PUMP DIA.	STROKE	MPRL
54	1.06	120.	5218.
55	1.06	86.	6945.
64	1.06	100.	6748.
64	1.06	120.	6757.
64	1.25	100.	7235.
65	1.06	100.	7808.
65	1.25	86.	8213.
66	1.06	86.	10150.
66	1.06	100.	10090.
66	1.25	74.	10529.
66	1.25	86.	10497.
75	1.06	130.	9219.
75	1.25	86.	9861.
76	1.06	86.	11119.
76	1.06	100.	11076.
76	1.25	74.	11645.
76	1.25	86.	11564.
77	1.06	86.	13988.
77	1.25	64.	14664.
77	1.25	74.	14542.
85	1.06	100.	10654.
85	1.25	86.	11465.
86	1.06	86.	12567.

86	1.25	74.	13230.
86	1.25	86.	13216.
87	1.25	64.	15726.
87	1.25	74.	15591.
87	1.50	64.	16108.
96	1.25	74.	15116.
96	1.50	74.	15967.
97	1.25	74.	17175.
97	1.50	64.	17915.
98	1.25	64.	20014.
98	1.25	74.	19918.
98	1.50	54.	20672.
107	1.25	74.	18660.
107	1.50	64.	19623.
108	1.25	64.	21474.
108	1.50	54.	22335.
109	1.25	64.	25212.

PUMP DEPTH 9000. PRODUCTION 150.

ROD NO.	PUMP DIA.	STROKE	MPRL
54	1.06	168.	4656.
64	1.06	144.	5958.
64	1.25	120.	6715.
65	1.06	120.	7095.
65	1.06	144.	6995.
65	1.25	120.	7523.
75	1.25	120.	9104.
76	1.25	100.	10738.
76	1.25	120.	10696.
76	1.50	86.	11329.
76	1.50	100.	11328.
77	1.25	86.	13665.
77	1.25	100.	13476.
77	1.50	74.	14257.
77	1.50	86.	14155.
85	1.25	120.	10781.
85	1.50	100.	11793.
86	1.25	100.	12245.
86	1.50	86.	13093.
86	1.50	100.	13100.
87	1.25	86.	14650.
87	1.25	100.	14491.
87	1.50	74.	15357.
87	1.50	86.	15270.
96	1.25	100.	14031.
96	1.50	86.	15156.
97	1.25	100.	16033.
97	1.50	74.	17134.
97	1.50	86.	16966.
98	1.50	74.	19587.
98	1.50	86.	19475.
107	1.25	100.	17545.
107	1.50	86.	18637.
107	1.75	74.	19537.
108	1.50	74.	21161.
108	1.75	64.	21949.
108	1.75	74.	21933.
109	1.50	64.	24924.
109	1.50	74.	24678.
109	1.75	64.	25478.

PUMP DEPTH 9000. PRODUCTION 200.

ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.06	192.	5584.
64	1.25	144.	6150.
64	1.25	168.	6232.
75	1.25	144.	8282.
75	1.50	120.	9297.
76	1.25	120.	9972.
76	1.25	144.	9879.
76	1.50	100.	10758.
76	1.50	120.	10646.
85	1.25	144.	10047.
85	1.50	120.	11202.
86	1.25	120.	11373.
86	1.50	100.	12438.
86	1.50	120.	12385.
87	1.50	100.	14435.
87	1.75	86.	15056.
87	1.75	100.	15084.
96	1.50	100.	14405.
96	1.75	100.	15359.
97	1.50	100.	16054.
97	1.75	86.	16963.
97	1.75	100.	16956.
98	1.50	86.	18702.
98	1.50	100.	18479.
98	1.75	74.	19789.
98	1.75	86.	19650.
107	1.50	100.	17603.
107	1.75	86.	18819.
108	1.50	86.	20161.
108	1.50	100.	19952.
108	1.75	74.	21184.
108	1.75	86.	21003.
109	1.50	86.	23532.
109	1.75	74.	24531.
109	1.75	86.	24442.
109	2.00	74.	25089.

PUMP DEPTH 9000. PRODUCTION 250.

85	1.25	168.	9375.
85	1.50	144.	10458.
85	1.75	120.	11843.
86	1.50	120.	11713.
86	1.75	120.	12489.
87	1.50	120.	13593.
87	1.75	100.	14509.
96	1.50	120.	13591.
96	1.75	100.	14865.
96	1.75	120.	14782.
97	1.50	120.	15142.
97	1.75	100.	16277.
98	1.50	100.	17772.
98	1.50	120.	17563.
98	1.75	86.	19060.
98	1.75	100.	18843.
107	1.50	120.	16774.
107	1.75	100.	18033.
107	2.00	100.	19052.
108	1.50	120.	19096.
108	1.75	86.	20370.
108	1.75	100.	20132.
108	2.00	86.	21029.
109	1.75	86.	23589.
109	1.75	100.	23398.
109	2.00	74.	24437.
109	2.00	86.	24327.

PUMP DEPTH 9000. PRODUCTION 300.

ROD NO.	PUMP DIA.	STROKE	MPRL
75	1.25	192.	7053.
75	1.50	144.	8306.
75	1.50	168.	8233.
85	1.50	144.	10001.
85	1.50	168.	10227.
85	1.75	120.	11455.
85	1.75	144.	11394.
86	1.50	144.	10915.
86	1.75	120.	12035.
86	1.75	144.	12018.
87	1.50	120.	13107.
87	1.50	144.	12896.
87	1.75	120.	13804.
96	1.50	144.	12840.
96	1.75	120.	14168.
96	2.00	120.	15184.
97	1.50	144.	14411.
97	1.75	120.	15495.
97	2.00	120.	16379.
98	1.50	120.	16700.
98	1.75	100.	18240.
98	1.75	120.	17976.
98	2.00	100.	18862.
107	1.75	120.	17285.
107	2.00	100.	18523.
108	1.75	100.	19515.
108	1.75	120.	19347.
108	2.00	100.	20369.
109	1.75	100.	22608.
109	2.00	86.	23695.
109	2.00	100.	23487.

PUMP DEPTH 9000. PRODUCTION 400.

ROD NO.	PUMP DIA.	STROKE	MPRL
75	1.50	216.	7490.
85	1.50	192.	8909.
85	1.75	168.	10351.
86	1.50	168.	9753.
86	1.50	192.	9848.
86	1.75	144.	11005.
86	1.75	168.	10929.
96	1.75	144.	12981.
96	1.75	168.	13288.
96	2.00	144.	14231.
97	1.75	144.	14156.
97	2.00	120.	15409.
97	2.00	144.	15388.
98	1.75	120.	16899.
98	1.75	144.	16578.
107	1.75	144.	15781.
107	2.00	120.	17320.
107	2.25	120.	18438.
108	1.75	144.	17728.
108	2.00	120.	18959.
108	2.25	120.	19892.
109	1.75	120.	20913.
109	2.00	100.	22365.
109	2.00	120.	21937.
109	2.25	100.	22948.

PUMP DEPTH 9000. PRODUCTION 500.

ROD NO.	PUMP DIA.	STROKE	MPRL
85	1.50	216.	7700.
96	1.75	168.	11812.
96	1.75	192.	12182.
96	2.00	144.	13383.
96	2.00	168.	13272.
97	1.75	168.	12980.
97	2.00	168.	14333.
107	1.75	168.	14512.
107	2.00	144.	16109.
107	2.25	120.	17647.
107	2.25	144.	17484.
108	1.75	168.	16346.
108	2.00	144.	17570.
108	2.25	120.	18969.
108	2.25	144.	18891.
109	2.00	120.	20926.

PUMP DEPTH 9000. PRODUCTION 600.

ROD NO.	PUMP DIA.	STROKE	MPRL
96	1.75	192.	10702.
96	1.75	216.	11161.
107	1.75	192.	13213.
107	2.00	168.	14884.
107	2.25	144.	16615.
107	2.25	168.	16613.
108	2.00	144.	16734.

PUMP DEPTH 9000. PRODUCTION 800.

ROD NO.	PUMP DIA.	STROKE	MPRL
107	2.00	192.	12888.

PUMP DEPTH 9500. PRODUCTION 100.

ROD NO.	PUMP DIA.	STROKE	MPRL
54	1.06	120.	5589.
64	1.06	120.	7156.
64	1.25	120.	7716.
65	1.06	100.	8389.
65	1.06	120.	8334.
65	1.25	100.	8741.
66	1.06	86.	10896.
66	1.06	100.	10747.
66	1.25	74.	11267.
66	1.25	86.	11205.
75	1.06	100.	9924.
75	1.25	86.	10526.
76	1.06	100.	10485.
76	1.25	86.	11792.
77	1.06	86.	12325.
77	1.25	86.	14987.
77	1.25	74.	15508.
85	1.06	100.	11343.
85	1.25	86.	12240.
85	1.25	100.	12233.
86	1.06	100.	13359.
86	1.25	86.	14020.
87	1.25	74.	16631.
87	1.25	86.	16537.
96	1.06	100.	15326.
96	1.25	86.	16076.
97	1.25	74.	18354.
98	1.25	74.	21185.
107	1.25	74.	19845.
107	1.50	64.	20848.
108	1.25	74.	22729.
109	1.25	64.	26897.

PUMP DEPTH 9500. PRODUCTION 150.

ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.06	168.	6547.
64	1.25	144.	7159.
65	1.06	144.	7510.
65	1.25	120.	8101.
75	1.06	144.	8983.
75	1.25	120.	9721.
75	1.50	120.	10487.
76	1.25	100.	11575.
76	1.25	120.	11373.
76	1.50	100.	12046.
85	1.06	144.	10478.
85	1.25	120.	11377.
85	1.50	100.	12599.
86	1.25	120.	13043.
86	1.50	100.	13926.
87	1.25	100.	15526.
87	1.50	86.	16280.
96	1.50	100.	16151.
97	1.25	100.	17145.
97	1.50	86.	18102.
98	1.25	100.	19861.
98	1.50	74.	20980.
98	1.50	86.	20807.
98	1.75	74.	21738.
107	1.50	86.	19816.
107	1.75	86.	20756.
108	1.50	86.	22461.
108	1.75	74.	23263.
109	1.50	74.	26354.
109	1.50	86.	26175.
109	1.75	64.	27070.

PUMP DEPTH 9500. PRODUCTION 200.

ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.06	192.	5780.
75	1.25	144.	9002.
75	1.50	120.	9981.
75	1.50	144.	9973.
76	1.25	144.	10595.
76	1.50	120.	11404.
85	1.25	144.	10559.
85	1.50	120.	11963.
86	1.25	144.	12134.
86	1.50	120.	13168.
86	1.75	120.	13921.
87	1.50	100.	15519.
87	1.50	120.	15388.
87	1.75	100.	16037.
96	1.50	120.	15353.
97	1.50	100.	17273.
97	1.50	120.	17231.
97	1.75	100.	18045.
98	1.50	100.	19777.
98	1.75	86.	20983.
107	1.50	100.	18880.

107	1.75	100.	19981.
108	1.50	100.	21361.
108	1.75	86.	22428.
109	1.50	86.	25270.
109	1.50	100.	25088.
109	1.75	74.	26241.
109	1.75	86.	26042.

PUMP DEPTH 9500. PRODUCTION 250.

ROD NO.	PUMP DIA.	STROKE	MPRL
75	1.25	168.	8338.
75	1.25	192.	8558.
75	1.50	144.	9395.
75	1.50	168.	9452.
76	1.25	168.	9823.
76	1.50	120.	10967.
85	1.25	168.	9825.
85	1.50	144.	11347.
85	1.75	144.	12648.
86	1.50	144.	12445.
86	1.75	120.	13366.
87	1.50	120.	14688.
87	1.50	144.	14922.
87	1.75	100.	15532.
87	1.75	120.	15380.
96	1.50	144.	14720.
96	1.75	120.	15715.
97	1.50	120.	16369.
97	1.75	100.	17494.
97	1.75	120.	17342.
98	1.50	120.	18789.
98	1.75	100.	20166.
98	2.00	100.	20730.
107	1.50	120.	17877.
107	1.75	120.	19303.
108	1.50	120.	20388.
108	1.75	100.	21582.
108	2.00	100.	22391.
109	1.75	86.	25335.
109	1.75	100.	25050.
109	2.00	86.	25893.

PUMP DEPTH 9500. PRODUCTION 300.

ROD NO.	PUMP DIA.	STROKE	MPRL
75	1.25	192.	7703.
75	1.25	216.	7893.
85	1.50	168.	10734.
85	1.75	144.	12153.
86	1.50	144.	11902.
86	1.50	168.	11815.
86	1.75	144.	12792.
96	1.50	144.	13820.
96	1.50	168.	14213.
96	1.75	144.	15180.
97	1.50	144.	15499.
97	1.75	120.	16715.
97	2.00	120.	17474.
98	1.50	144.	17921.
98	1.75	120.	19324.
98	2.00	100.	20109.
107	1.50	144.	17035.
107	1.75	120.	18504.
107	2.00	120.	19666.
108	1.75	120.	20599.
108	2.00	100.	21780.
109	1.75	100.	24395.
109	1.75	120.	23987.
109	2.00	86.	25377.
109	2.00	100.	25120.
109	2.25	100.	25698.

PUMP DEPTH 9500. PRODUCTION 400.

ROD NO.	PUMP DIA.	STROKE	MPRL
85	1.50	192.	9541.
85	1.50	216.	9890.
85	1.75	192.	11303.
86	1.50	192.	10480.
96	1.50	192.	12521.
96	1.75	168.	13950.
96	2.00	144.	15248.
97	1.75	144.	15433.
97	1.75	168.	15296.
97	2.00	144.	16342.
107	1.75	144.	17063.
107	1.75	168.	17480.
107	2.00	144.	18562.
107	2.25	144.	19705.
108	1.75	144.	19063.
108	2.00	120.	20501.
108	2.00	144.	20436.
108	2.25	120.	21266.
109	1.75	144.	22397.
109	2.00	120.	23599.
109	2.25	100.	24604.
109	2.25	120.	24499.

PUMP DEPTH 9500. PRODUCTION 500.

ROD NO.	PUMP DIA.	STROKE	MPRL
85	1.50.	240.	8603.
96	1.75	192.	12719.
97	1.75	168.	14162
107	1.75	168.	15670.
107	1.75	192.	16159.
107	2.00	144.	17497.
107	2.00	168.	17399.
107	2.25	144.	18717.
108	1.75	168.	17646.
108	2.00	144.	19166.
108	2.00	168.	19200.

PUMP DEPTH 9500.		PRODUCTION 600.	
ROD NO.	PUMP DIA.	STROKE	MPRL
107	1.75	216.	14837.
107	2.00	168.	16243.
107	2.00	192.	16363.
108	2.00	192.	18102.

PUMP DEPTH 9500.		PRODUCTION 800.	
ROD NO.	PUMP DIA.	STROKE	MPRL
107	2.00	240.	14656.

PUMP DEPTH 10000.		PRODUCTION 100.	
ROD NO.	PUMP DIA.	STROKE	MPRL
54	1.06	120.	5980.
54	1.06	144.	5949.
64	1.06	120.	7617.
65	1.06	120.	8848.
75	1.06	120.	10526.
75	1.25	100.	11118.
76	1.06	100.	12567.
76	1.25	86.	13115.
77	1.06	100.	15847.
77	1.25	74.	16505.
85	1.06	120.	12162.
85	1.25	100.	12915.
86	1.06	100.	14215.
86	1.25	86.	14909.
87	1.06	100.	16962.
87	1.25	74.	17724.
96	1.06	100.	16169.
96	1.25	86.	17038.
97	1.25	86.	19391.
98	1.25	74.	22519.
107	1.25	86.	21068.
108	1.25	74.	24191.

PUMP DEPTH 10000.		PRODUCTION 150.	
ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.06	168.	6875.
64	1.25	144.	7621.
65	1.06	144.	8094.
65	1.06	168.	8014.
65	1.25	120.	8678.
65	1.25	144.	8595.
75	1.06	144.	9610.
75	1.25	120.	10427.
75	1.25	144.	10424.
76	1.25	120.	12167.
85	1.25	120.	12130.
85	1.50	120.	13331.
86	1.25	120.	13849.
86	1.50	100.	14779.
87	1.25	100.	16607.
87	1.25	120.	16427.
87	1.50	86.	17335.
87	1.50	100.	17255.
96	1.25	120.	15930.
96	1.50	100.	17129.
97	1.25	100.	18328.
97	1.25	120.	18260.
97	1.50	86.	19308.
97	1.50	100.	19169.
98	1.25	100.	21135.
98	1.50	86.	22096.
107	1.50	100.	21032.
108	1.50	86.	23868.
109	1.50	74.	28081.

PUMP DEPTH 10000.		PRODUCTION 200.	
ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.06	216.	6361.
64	1.25	168.	7064.
64	1.25	192.	7119.
75	1.25	168.	9626.
75	1.50	144.	10580.
76	1.25	144.	11331.
76	1.25	168.	11386.
85	1.25	168.	11513.
85	1.50	144.	12712.
86	1.25	144.	12997.
86	1.50	120.	14079.
87	1.25	144.	15436.
87	1.50	120.	16391.
96	1.25	144.	14945.
96	1.50	120.	16317.
96	1.75	120.	17365.
97	1.50	120.	18231.
97	1.75	100.	19142.
98	1.50	100.	21192.
98	1.50	120.	20939.
98	1.75	86.	22294.
98	1.75	100.	22195.
107	1.50	120.	20091.
107	1.75	100.	21233.
108	1.50	100.	22848.
108	1.50	120.	22849.
108	1.75	86.	23913.
108	1.75	100.	23729.
109	1.50	100.	26634.
109	1.75	86.	27663.

PUMP DEPTH 10000.		PRODUCTION 250.	
ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.06	240.	5567.
75	1.25	192.	8885.
75	1.50	144.	10124.
85	1.25	192.	10776.
85	1.50	144.	12143.
85	1.50	168.	12171.
85	1.75	144.	13426.
86	1.25	168.	12139.
86	1.50	144.	13308.
86	1.75	144.	14201.
87	1.50	120.	15813.
87	1.50	144.	15501.
96	1.50	144.	15499.
96	1.75	120.	16807.
96	1.75	144.	16810.
97	1.50	144.	17245.
97	1.75	120.	18452.
98	1.50	120.	20156.
98	1.75	100.	21548.
98	1.75	120.	21337.
107	1.50	144.	19353.
107	1.75	120.	20426.
107	2.00	120.	21534.
108	1.50	120.	21748.
108	1.75	100.	23066.
108	1.75	120.	22868.
108	2.00	100.	23730.
109	1.50	120.	25469.
109	1.75	100.	26702.
109	2.00	86.	27525.
109	2.00	100.	27456.

PUMP DEPTH 10000.		PRODUCTION 300.	
ROD NO.	PUMP DIA.	STROKE	MPRL
75	1.25	216.	8284.
85	1.25	216.	10042.
85	1.50	168.	11510.
85	1.50	192.	11692.
85	1.75	144.	13008.
85	1.75	168.	12967.
86	1.50	168.	12564.
96	1.50	168.	14770.
96	1.75	144.	16109.
96	2.00	144.	17230.
97	1.50	144.	16631.
97	1.50	168.	16649.
97	1.75	120.	17956.
97	1.75	144.	17749.
98	1.50	144.	19117.
98	1.75	120.	20674.
98	1.75	144.	20539.
107	1.75	144.	19817.
107	2.00	120.	20927.
108	1.50	144.	20736.
108	1.75	120.	22125.
108	2.00	120.	23087.
109	1.75	120.	25653.
109	2.00	100.	26735.

PUMP DEPTH 10000.		PRODUCTION 400.	
ROD NO.	PUMP DIA.	STROKE	MPRL
85	1.50	216.	10285.
96	1.50	192.	13337.
96	1.50	216.	13814.
96	1.75	168.	14940.
96	1.75	192.	15196.
96	2.00	144.	16338.
96	2.00	168.	16225.
97	1.50	192.	15026.
107	1.75	168.	18243.
107	2.00	144.	19702.
107	2.25	144.	20990.
108	1.75	144.	20556.
108	1.75	168.	20488.
108	2.00	144.	21675.
108	2.25	144.	22632.
109	1.75	144.	23896.
109	2.00	120.	25329.
109	2.00	144.	25008.

PUMP DEPTH 10000.		PRODUCTION 500.	
ROD NO.	PUMP DIA.	STROKE	MPRL
96	1.75	192.	13740.
96	1.75	216.	13933.
97	1.75	216.	15402.
107	1.75	192.	16810.
107	2.00	168.	18536.
107	2.25	144.	20062.
107	2.25	168.	19941.
108	1.75	168.	19024.
108	1.75	192.	18983.
108	2.00	144.	20671.

PUMP DEPTH 10000.		PRODUCTION 600.	
ROD NO.	PUMP DIA.	STROKE	MPRL
107	1.75	216.	15469.

PUMP DEPTH 10500.		PRODUCTION 100.	
ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.06	144.	8070.
65	1.06	120.	9414.
75	1.06	120.	11124.
75	1.25	100.	11780.
76	1.06	100.	13397.
76	1.06	120.	13245.
76	1.25	86.	13890.
77	1.06	100.	16833.
85	1.06	120.	12751.
85	1.25	100.	13691.
86	1.06	120.	15115.
86	1.25	86.	15837.
87	1.06	100.	17954.
97	1.25	86.	20530.
107	1.25	86.	22191.

PUMP DEPTH 10500.		PRODUCTION 150.	
ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.06	168.	7350.
64	1.06	192.	7443.
64	1.25	144.	8116.
64	1.25	168.	8088.
65	1.06	144.	8691.
75	1.06	168.	10218.
75	1.25	144.	10993.
76	1.25	120.	12974.
76	1.25	144.	12877.
76	1.50	120.	13523.
85	1.06	168.	11961.
85	1.25	144.	12884.
86	1.25	120.	14787.
86	1.50	120.	15593.
87	1.25	120.	17399.
87	1.50	100.	18246.
96	1.25	120.	16912.
96	1.50	100.	18150.
96	1.50	120.	18102.
97	1.25	120.	19235.
97	1.50	100.	20298.
98	1.50	86.	23481.
107	1.25	120.	20967.
107	1.50	100.	22202.
108	1.50	86.	25325.

PUMP DEPTH 10500.		PRODUCTION 200.	
ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.06	216.	6626.
75	1.25	168.	10231.
75	1.50	144.	11223.
75	1.50	168.	11244.
76	1.25	144.	12190.
85	1.25	168.	12040.
85	1.50	144.	13444.
86	1.25	144.	13876.
86	1.25	168.	13883.
86	1.50	120.	15011.
86	1.50	144.	14904.
87	1.25	144.	16392.
87	1.50	120.	17415.
87	1.75	120.	18000.
96	1.50	120.	17384.
96	1.50	144.	17385.
97	1.50	120.	19383.
97	1.75	120.	20252.
98	1.50	120.	22260.
98	1.75	100.	23472.
107	1.50	120.	21188.
107	1.75	120.	22443.
108	1.50	120.	24015.
108	1.75	100.	25126.
109	1.50	100.	28342.
109	1.50	120.	28209.
109	1.75	86.	29335.

PUMP DEPTH 10500.		PRODUCTION 250.	
ROD NO.	PUMP DIA.	STROKE	MPRL
75	1.25	192.	9531.
75	1.25	216.	9716.
85	1.25	192.	11250.
85	1.50	168.	12851.
85	1.75	168.	14262.
86	1.25	192.	12974.
86	1.50	144.	14266.
86	1.50	168.	14181.
86	1.75	144.	15051.
96	1.50	144.	16533.
96	1.50	168.	16731.
96	1.75	144.	17719.
97	1.50	144.	18417.
97	1.75	120.	19592.
98	1.50	120.	21554.
98	1.50	144.	21283.
98	1.75	120.	22664.
107	1.50	144.	20218.
107	1.75	120.	21733.
108	1.50	144.	22988.
108	1.75	120.	24199.
109	1.50	120.	27107.
109	1.75	100.	28477.
109	1.75	120.	28139.
109	2.00	100.	29008.

PUMP DEPTH 10500.		PRODUCTION 300.	
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ROD NO.	PUMP DIA.	STROKE	MPRL
85	1.50	192.	12234.
86	1.50	168.	13537.
86	1.50	192.	13518.
96	1.50	168.	15732.
96	1.50	192.	16098.
96	1.75	144.	17202.
96	1.75	168.	17173.
97	1.50	168.	17537.
97	1.75	144.	18792.
97	2.00	144.	19669.
98	1.50	144.	20518.
98	1.50	168.	20351.
98	1.75	120.	22112.
107	1.50	168.	19485.
107	1.75	144.	20902.
107	2.00	144.	22165.
108	1.75	120.	23617.
108	1.75	144.	23353.
108	2.00	120.	24413.
109	1.75	120.	27353.
109	1.75	144.	27050.
109	2.00	100.	28442.
109	2.00	120.	28265.

PUMP DEPTH 10500. PRODUCTION 400.

ROD NO.	PUMP DIA.	STROKE	MPRL
85	1.50	216.	11063.
96	1.50	216.	14339.
96	1.75	168.	16066.
96	1.75	192.	15906.
97	1.50	192.	16071.
97	1.50	216.	16130.
97	1.75	192.	17498.
107	1.75	168.	19445.
107	1.75	192.	19841.
107	2.00	144.	21069.
107	2.00	168.	21028.
108	1.75	168.	21600.
108	2.00	144.	23108.

PUMP DEPTH 10500. PRODUCTION 500.

ROD NO.	PUMP DIA.	STROKE	MPRL
96	1.75	240.	15153.
107	1.75	192.	18025.
107	1.75	216.	18372.
107	2.00	168.	19926.
107	2.00	192.	19798.
108	2.00	192.	21893.

PUMP DEPTH 10500. PRODUCTION 600.

ROD NO.	PUMP DIA.	STROKE	MPRL
107	1.75	240.	16941.

PUMP DEPTH 11000. PRODUCTION 100.

ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.06	144.	8506.
65	1.06	120.	9996.
65	1.06	144.	9924.
75	1.06	120.	11805.
75	1.25	120.	12392.
76	1.06	120.	14008.
77	1.06	100.	17808.
85	1.06	120.	13473.
86	1.06	120.	15814.
87	1.06	100.	19034.
96	1.06	120.	18111.
96	1.25	100.	18952.

PUMP DEPTH 11000. PRODUCTION 150.

ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.06	192.	7781.
75	1.06	168.	10788.
75	1.25	144.	11624.
76	1.25	120.	13814.
76	1.25	144.	13612.
85	1.06	168.	12461.
85	1.25	144.	13577.
85	1.50	144.	14867.
86	1.25	144.	15559.
86	1.50	120.	16452.
87	1.25	120.	18471.
87	1.50	100.	19274.
96	1.25	144.	18032.
96	1.50	120.	19038.
97	1.25	120.	20391.
97	1.50	100.	21445.
98	1.25	120.	23620.
107	1.25	120.	22063.
107	1.50	100.	23485.
108	1.25	120.	25391.

PUMP DEPTH 11000. PRODUCTION 200.

ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.06	216.	7109.
75	1.25	168.	10947.
75	1.25	192.	10906.
85	1.25	168.	12777.

ROD NO.	PUMP DIA.	STROKE	MPRL
85	1.25	192.	12963.
85	1.50	144.	14280.
85	1.50	168.	14244.
86	1.25	168.	14575.
86	1.50	144.	15695.
87	1.25	144.	17438.
87	1.25	168.	17373.
87	1.50	120.	18524.
87	1.50	144.	18336.
96	1.25	168.	16930.
96	1.50	144.	18279.
97	1.50	120.	20571.
97	1.50	144.	20477.
97	1.75	120.	21316.
98	1.50	120.	23562.
98	1.75	100.	24784.
107	1.75	120.	23645.
108	1.50	120.	25458.
108	1.75	100.	26567.
109	1.50	120.	29734.

PUMP DEPTH 11000. PRODUCTION 250.

ROD NO.	PUMP DIA.	STROKE	MPRL
85	1.25	216.	12154.
85	1.50	168.	13632.
85	1.50	192.	13673.
86	1.25	192.	13795.
86	1.50	168.	14970.
96	1.50	168.	17481.
96	1.75	144.	18736.
97	1.50	144.	19651.
97	1.50	168.	19580.
97	1.75	144.	20595.
98	1.50	144.	22489.
98	1.75	120.	23987.
107	1.50	144.	21473.
107	1.75	144.	22932.
108	1.50	144.	24292.
108	1.75	120.	25678.
109	1.50	144.	28665.
109	1.75	120.	29789.

PUMP DEPTH 11000. PRODUCTION 300.

ROD NO.	PUMP DIA.	STROKE	MPRL
85	1.25	240.	11378.
85	1.50	192.	13019.
85	1.50	216.	13140.
86	1.50	168.	14479.
96	1.50	192.	16756.
96	1.75	168.	18086.
96	2.00	168.	19267.
97	1.50	168.	18732.
97	1.50	192.	18832.
97	1.75	144.	20017.
97	1.75	168.	19979.
98	1.50	144.	21885.
107	1.50	168.	20503.
107	1.75	144.	22147.
107	1.75	168.	22292.
107	2.00	144.	23369.
108	1.50	168.	23332.
108	1.75	144.	24682.
108	2.00	144.	25755.
109	1.75	120.	29115.
109	1.75	144.	28712.

PUMP DEPTH 11000. PRODUCTION 400.

ROD NO.	PUMP DIA.	STROKE	MPRL
96	1.50	216.	15221.
96	1.50	240.	15572.
96	1.75	192.	16959.
96	1.75	216.	17080.
97	1.50	216.	17151.
107	1.50	216.	18885.
107	1.75	192.	20693.
107	2.00	168.	22107.
108	1.75	168.	23164.
108	1.75	192.	23172.
108	2.00	144.	24591.
108	2.00	168.	24424.

PUMP DEPTH 11000. PRODUCTION 500.

ROD NO.	PUMP DIA.	STROKE	MPRL
107	1.75	216.	19089.
107	2.00	216.	21261.

PUMP DEPTH 11500. PRODUCTION 100.

ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.06	144.	8999.
64	1.06	168.	8997.
65	1.06	144.	10450.
75	1.06	144.	12398.
75	1.25	120.	13015.
76	1.06	120.	14802.
76	1.25	100.	15348.
85	1.25	120.	15106.
86	1.06	120.	16716.
86	1.25	100.	17475.
96	1.06	120.	18969.
96	1.25	100.	19977.

PUMP DEPTH 11500. PRODUCTION 150.

ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.06	192.	8249.
64	1.06	216.	8334.
75	1.06	168.	11470.
75	1.06	192.	11490.
75	1.25	144.	12323.
75	1.25	168.	12286.
76	1.06	168.	13660.
85	1.25	144.	14320.
85	1.25	168.	14387.
86	1.25	144.	16373.
87	1.25	120.	19579.
87	1.25	144.	19332.
96	1.25	144.	18815.
96	1.50	120.	20057.
97	1.25	120.	21579.
98	1.25	120.	24932.
108	1.25	120.	26787.

PUMP DEPTH 11500. PRODUCTION 200.

ROD NO.	PUMP DIA.	STROKE	MPRL
75	1.06	216.	10572.
75	1.25	192.	11456.
85	1.25	192.	13504.
85	1.50	168.	14963.
86	1.25	168.	15491.
86	1.25	192.	15594.
86	1.50	144.	16615.
86	1.50	168.	16633.
87	1.25	168.	18344.
96	1.25	168.	17771.
96	1.50	144.	19237.
97	1.25	168.	20300.
97	1.50	144.	21518.
98	1.50	120.	24921.
107	1.50	144.	23652.
107	1.75	120.	24872.
108	1.50	120.	26922.
109	1.50	120.	31361.

PUMP DEPTH 11500. PRODUCTION 250.

ROD NO.	PUMP DIA.	STROKE	MPRL
85	1.25	216.	12607.
85	1.50	192.	14366.
86	1.25	192.	14635.
86	1.25	216.	14555.
86	1.50	168.	15911.
86	1.50	192.	15885.
96	1.50	168.	18452.
96	1.75	168.	19726.
97	1.50	168.	20585.
97	1.75	144.	21720.
98	1.50	168.	23705.
107	1.50	168.	22727.
107	1.75	144.	24035.
108	1.50	144.	25783.
108	1.50	168.	25901.
108	1.75	120.	27173.
109	1.50	144.	30146.
109	1.75	120.	31434.

PUMP DEPTH 11500. PRODUCTION 300.

ROD NO.	PUMP DIA.	STROKE	MPRL
85	1.25	240.	11963.
85	1.50	192.	13881.
96	1.50	192.	17613.
96	1.50	216.	17994.
96	1.75	168.	19147.
96	1.75	192.	19111.
97	1.50	168.	19946.
97	1.50	192.	19641.
97	1.75	144.	21195.
107	1.50	192.	21912.
107	1.75	168.	23363.
107	2.00	168.	24618.
108	1.50	168.	24734.
108	1.75	144.	26194.
108	1.75	168.	26181.
108	2.00	144.	27131.
109	1.50	168.	29004.

PUMP DEPTH 11500. PRODUCTION 400.

ROD NO.	PUMP DIA.	STROKE	MPRL
96	1.50	240.	16147.
96	1.75	192.	18035.
107	1.75	192.	21782.
107	1.75	216.	22215.
107	2.00	168.	23472.
107	2.00	192.	23460.
108	1.75	168.	24674.

PUMP DEPTH 11500. PRODUCTION 500.

ROD NO.	PUMP DIA.	STROKE	MPRL
96	1.50	300.	15286.
107	1.75	216.	20425.



Documents

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PUMP DEPTH 12000.		PRODUCTION 100.	
ROD NO.	PUMP DIA.	STROKE	MPRL
64	1.06	168.	9421.
65	1.06	144.	11009.
75	1.06	144.	13001.
76	1.06	120.	15604.
85	1.06	144.	14876.
85	1.25	120.	15881.
36	1.06	120.	17621.

PUMP DEPTH 12000.		PRODUCTION 150.	
ROD NO.	PUMP DIA.	STROKE	MPRL
75	1.06	192.	12001.
75	1.25	168.	12861.
76	1.06	168.	14426.
85	1.06	192.	13897.
85	1.25	168.	15008.
86	1.25	144.	17302.
96	1.25	144.	19791.
97	1.25	144.	22456.
98	1.25	120.	26282.
107	1.25	144.	24497.

PUMP DEPTH 12000.		PRODUCTION 200.	
ROD NO.	PUMP DIA.	STROKE	MPRL
75	1.06	240.	11173.
75	1.25	192.	12162.
75	1.25	216.	12166.
85	1.25	192.	14191.
85	1.25	216.	14415.
85	1.50	168.	15772.
85	1.50	192.	15760.
86	1.25	168.	16421.
86	1.25	192.	16166.
86	1.50	144.	17521.
86	1.50	168.	17399.
96	1.25	192.	18908.
96	1.50	144.	20301.
96	1.50	168.	20225.
97	1.25	168.	21420.
97	1.50	144.	22670.
98	1.50	120.	26307.
107	1.50	144.	24822.
109	1.50	120.	33071.

PUMP DEPTH 12000.		PRODUCTION 250.	
ROD NO.	PUMP DIA.	STROKE	MPRL
85	1.25	240.	13512.
85	1.50	192.	15134.
85	1.50	216.	15169.
86	1.25	216.	15430.
86	1.50	168.	16836.
96	1.25	216.	17784.
96	1.50	168.	19537.
96	1.50	192.	19459.
96	1.75	168.	20705.
97	1.50	168.	21763.
97	1.75	144.	22863.
107	1.50	168.	23790.
107	1.75	144.	25356.
108	1.50	168.	26983.
108	1.75	144.	28285.
109	1.50	144.	31856.
109	1.75	120.	33170.

PUMP DEPTH 12000.		PRODUCTION 300.	
ROD NO.	PUMP DIA.	STROKE	MPRL
85	1.50	240.	14580.
96	1.50	192.	18697.
96	1.50	216.	18706.
96	1.75	168.	20202.
96	1.75	192.	20065.
97	1.50	216.	20973.
97	1.75	192.	22189.
107	1.50	192.	22793.
107	1.75	168.	24525.
107	2.00	168.	25816.
108	1.50	168.	26152.
108	1.50	192.	26035.
108	1.75	144.	27679.
108	1.75	168.	27453.

PUMP DEPTH 12000.		PRODUCTION 400.	
ROD NO.	PUMP DIA.	STROKE	MPRL
96	1.50	240.	17124.
107	1.50	240.	21189.
107	1.75	192.	23129.
107	1.75	216.	23103.

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FOREWORD

a. This bulletin is under the jurisdiction of the API Committee on Standardization of Production Equipment.

b. The purpose of this bulletin is to present tabular material derived from the application of a computer program to portions of the material in API RP 11L: *Design Calculations for Sucker Rod Pumping Systems* (First Edition, March 1967).

c. A list of the limiting parameters that were used and an explanation of the reasons for the limitations selected, precede the tables reproduced from the computer printout. Tables 1 and 2 contain rod and pump combinations covered in the printout portion of the book.

d. American Petroleum Institute (API) Bulletins are published to provide information for which there is a broad industry need but which does not constitute either Specifications or Recommended Practices.

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SUCKER ROD PUMPING SYSTEM DESIGN BOOK

Limiting Parameters

API RP 11L: *Recommended Practice for Design Calculations for Sucker Rod Pumping Systems*, outlines a method of design calculations for sucker rod pumping systems. A given lifting requirement can be fulfilled by many combinations of rod size, stroke length, pump size, and pumping speed. Thus, it is a long and laborious task to hand calculate even a portion of the many possibilities. In order to reduce the need for hand calculations and still allow a wide range of choices to be considered, results for a grid of conditions have been calculated on a computer and the calculated values are printed in this book.

Certain limiting parameters were necessary to keep the book to a practical size. The parameters used are as follows:

1. **Pump Depth.** From 2000 feet to 12,000 feet in increments of 500 feet.

2. **Production Rates.** The production rate increments vary with rate. They are:

Production Rate Barrels per Day	Increment Barrels per Day
100 to 300	50
300 to 600	100
600 to 1000	200
1000 to 1500	250
Over 1500	500

No upper limit was placed on production rate. The rate is limited by other parameters.

3. **Pump Efficiency and Gradient.** A fluid specific gravity of 1.0 and pump efficiency of 100 percent are used. The tubing is assumed to be anchored; however, the production rate for unanchored tubing is printed out.

4. **Peak Torque.** No upper limit was placed on peak torque.

5. **Rod and Pump Sizes.** All rod and pump combinations listed in Table 1 of RP 11L were considered except Rod Nos. 88 and 99. It was assumed that untapered rods of 1 inch or larger would not normally be run. Table 1 of RP 11 L has been included in this Bulletin as Table 1. Rod Nos. 107, 108, and 109 were added. Table 2 contains data for these rods. Some of the larger size rods are not considered for shallow depth, low volume.

6. **Stress Level.** A cutoff stress level somewhat above industry practice is used. A stress level for Grade D rods using RP 11BR and a factor of 1.25 gives a maximum allowed stress of 50,000 psi for a range of stress of 50 percent and 40,000 psi when the range of stress is 80 percent.

7. **Pumping Speed.** Maximum pumping speed is limited by the stress limit or by the minimum load becoming negative. A minimum speed is set by dividing the cube root of the stroke length into 36. This sets a minimum limit of approximately 12 SPM for 24 inches, 8 SPM for 74 inches, or 6 SPM for 144 inches.

8. **Stroke Length.** All API stroke lengths listed in Std 11E, Table 2, are included, plus 240 inches and 300 inches.

With the parameters listed in items 1 through 8, some 2,000,000 cases were examined by the computer run with printout of about 60,000 items.

The output is organized by pumping depth and then by increasing production rate at each depth. The various rod string, pump stroke, pump size, and pumping speed combinations that will do the job within the limiting parameters are listed.

TABLE 1
ROD AND PUMP DATA
(From RP 11L, Table 1)

1	2	3	4	5	6	7	8	9	10	11
Rod* No.	Plunger Diam., inches <i>D</i>	Rod Weight, lb per ft <i>W_r</i>	Elastic Constant, in. per lb ft <i>E_r</i>	Frequency Factor, <i>F_c</i>	Rod String, % of each size					
					1½	1	¾	½	¼	⅛
44	All	0.726	1.990 x 10 ⁻⁶	1.000	.....	.....	.....	.....	.....	100.0
54	1.06	0.892	1.697 x 10 ⁻⁶	1.128	.....	.....	.....	.....	40.5	59.5
54	1.25	0.914	1.659 x 10 ⁻⁶	1.139	.....	.....	.....	.....	45.9	54.1
54	1.50	0.948	1.597 x 10 ⁻⁶	1.142	.....	.....	.....	.....	54.5	45.5
54	1.75	0.990	1.525 x 10 ⁻⁶	1.130	.....	.....	.....	.....	64.6	35.4
54	2.00	1.037	1.442 x 10 ⁻⁶	1.095	.....	.....	.....	.....	76.2	23.8
55	All	1.135	1.270 x 10 ⁻⁶	1.000	.....	.....	.....	.....	100.0	.....
64	1.06	1.116	1.441 x 10 ⁻⁶	1.224	.....	.....	.....	28.1	33.1	38.8
64	1.25	1.168	1.368 x 10 ⁻⁶	1.222	.....	.....	.....	31.8	37.5	30.7
64	1.50	1.250	1.252 x 10 ⁻⁶	1.191	.....	.....	.....	37.7	44.5	17.8
64	1.75	1.347	1.116 x 10 ⁻⁶	1.137	.....	.....	.....	44.7	52.7	2.6
65	1.06	1.291	1.150 x 10 ⁻⁶	1.085	.....	.....	.....	31.3	68.7	.....
65	1.25	1.306	1.138 x 10 ⁻⁶	1.093	.....	.....	.....	34.4	65.6	.....
65	1.50	1.330	1.119 x 10 ⁻⁶	1.103	.....	.....	.....	39.2	60.8	.....
65	1.75	1.359	1.097 x 10 ⁻⁶	1.111	.....	.....	.....	45.0	55.0	.....
65	2.00	1.392	1.071 x 10 ⁻⁶	1.114	.....	.....	.....	51.6	48.4	.....
65	2.25	1.429	1.042 x 10 ⁻⁶	1.110	.....	.....	.....	59.0	41.0	.....
65	2.50	1.471	1.010 x 10 ⁻⁶	1.097	.....	.....	.....	67.4	32.6	.....
65	2.75	1.517	0.974 x 10 ⁻⁶	1.074	.....	.....	.....	76.6	23.4	.....
66	All	1.634	0.883 x 10 ⁻⁶	1.000	.....	.....	.....	100.0	.....	.....
75	1.06	1.511	1.030 x 10 ⁻⁶	1.168	.....	.....	22.6	26.1	51.3	.....
75	1.25	1.548	1.006 x 10 ⁻⁶	1.179	.....	.....	24.8	28.6	46.6	.....
75	1.50	1.606	0.969 x 10 ⁻⁶	1.185	.....	.....	28.3	32.6	39.1	.....
75	1.75	1.674	0.924 x 10 ⁻⁶	1.180	.....	.....	32.4	37.4	30.2	.....
75	2.00	1.754	0.874 x 10 ⁻⁶	1.160	.....	.....	37.2	42.8	20.0	.....
75	2.25	1.843	0.816 x 10 ⁻⁶	1.128	.....	.....	42.5	49.2	8.3	.....
76	1.06	1.787	0.822 x 10 ⁻⁶	1.061	.....	.....	25.9	74.1	.....	.....
76	1.25	1.798	0.818 x 10 ⁻⁶	1.066	.....	.....	27.8	72.2	.....	.....
76	1.50	1.816	0.811 x 10 ⁻⁶	1.073	.....	.....	30.9	69.1	.....	.....
76	1.75	1.836	0.803 x 10 ⁻⁶	1.080	.....	.....	34.3	65.7	.....	.....
76	2.00	1.861	0.793 x 10 ⁻⁶	1.087	.....	.....	38.5	61.5	.....	.....
76	2.25	1.888	0.782 x 10 ⁻⁶	1.094	.....	.....	43.1	56.9	.....	.....
76	2.50	1.919	0.770 x 10 ⁻⁶	1.096	.....	.....	48.3	51.7	.....	.....
76	2.75	1.953	0.756 x 10 ⁻⁶	1.096	.....	.....	54.1	45.9	.....	.....
76	3.75	2.121	0.690 x 10 ⁻⁶	1.043	.....	.....	82.5	17.5	.....	.....
77	All	2.224	0.649 x 10 ⁻⁶	1.000	.....	.....	100.0	.....	.....	.....
85	1.06	1.709	0.957 x 10 ⁻⁶	1.237	.....	15.9	17.7	20.1	46.3	.....
85	1.25	1.780	0.919 x 10 ⁻⁶	1.250	.....	17.9	19.9	22.5	39.7	.....
85	1.50	1.893	0.858 x 10 ⁻⁶	1.242	.....	21.0	23.4	26.5	29.1	.....
85	1.75	2.027	0.786 x 10 ⁻⁶	1.218	.....	24.8	27.5	31.0	16.7	.....
85	2.00	2.181	0.703 x 10 ⁻⁶	1.180	.....	29.0	32.3	36.3	2.4	.....
86	1.06	2.008	0.757 x 10 ⁻⁶	1.127	.....	19.3	21.9	58.8	.....	.....
86	1.25	2.035	0.748 x 10 ⁻⁶	1.136	.....	20.7	23.5	55.8	.....	.....
86	1.50	2.079	0.733 x 10 ⁻⁶	1.148	.....	23.0	26.0	51.0	.....	.....
86	1.75	2.130	0.716 x 10 ⁻⁶	1.157	.....	25.6	29.0	45.4	.....	.....
86	2.00	2.190	0.696 x 10 ⁻⁶	1.162	.....	28.7	32.5	38.8	.....	.....
86	2.25	2.257	0.674 x 10 ⁻⁶	1.158	.....	32.1	36.5	31.4	.....	.....
86	2.50	2.334	0.650 x 10 ⁻⁶	1.146	.....	35.8	41.6	22.6	.....	.....
86	2.75	2.415	0.621 x 10 ⁻⁶	1.125	.....	40.3	45.6	14.1	.....	.....

TABLE 1 (Continued)

1	2	3	4	5	6	7	8	9	10	11
Rod* No.	Plunger Diam., inches <i>D</i>	Rod Weight, lb per ft <i>W_r</i>	Elastic Constant, in. per lb ft <i>E_r</i>	Frequency Factor, <i>F_c</i>	Rod String, % of each size					
					1 1/8	1	7/8	3/4	5/8	1/2
87	1.06	2.375	0.615 x 10 ⁻⁶	1.048	.....	22.3	77.7	.....	.....	.....
87	1.25	2.384	0.613 x 10 ⁻⁶	1.051	.....	23.5	76.5	.....	.....	.....
87	1.50	2.397	0.610 x 10 ⁻⁶	1.055	.....	25.5	74.5	.....	.....	.....
87	1.75	2.414	0.606 x 10 ⁻⁶	1.061	.....	27.9	72.1	.....	.....	.....
87	2.00	2.432	0.602 x 10 ⁻⁶	1.066	.....	30.6	69.4	.....	.....	.....
87	2.25	2.453	0.598 x 10 ⁻⁶	1.072	.....	33.7	66.3	.....	.....	.....
87	2.50	2.477	0.592 x 10 ⁻⁶	1.077	.....	37.2	62.8	.....	.....	.....
87	2.75	2.503	0.586 x 10 ⁻⁶	1.082	.....	41.0	59.0	.....	.....	.....
87	3.75	2.632	0.558 x 10 ⁻⁶	1.082	.....	60.0	40.0	.....	.....	.....
87	4.75	2.800	0.520 x 10 ⁻⁶	1.035	.....	84.7	15.3	.....	.....	.....
88**	All	2.904	0.497 x 10 ⁻⁶	1.000	.....	100.0	.....	.....	.....	.....
96	1.06	2.264	0.698 x 10 ⁻⁶	1.181	14.8	16.7	19.7	48.8	.....	.....
96	1.25	2.311	0.685 x 10 ⁻⁶	1.203	16.0	17.8	21.0	45.2	.....	.....
96	1.50	2.385	0.664 x 10 ⁻⁶	1.215	17.7	19.9	23.3	39.1	.....	.....
96	1.75	2.472	0.639 x 10 ⁻⁶	1.218	19.9	22.0	25.9	32.2	.....	.....
96	2.00	2.572	0.610 x 10 ⁻⁶	1.213	22.1	24.8	29.2	23.9	.....	.....
96	2.25	2.686	0.577 x 10 ⁻⁶	1.197	24.9	27.7	32.6	14.8	.....	.....
96	2.50	2.813	0.540 x 10 ⁻⁶	1.168	27.9	31.0	36.6	4.5	.....	.....
97	1.06	2.601	0.576 x 10 ⁻⁶	1.103	17.0	19.1	63.9	.....	.....	.....
97	1.25	2.622	0.572 x 10 ⁻⁶	1.109	18.0	20.1	61.9	.....	.....	.....
97	1.50	2.653	0.568 x 10 ⁻⁶	1.117	19.3	21.9	58.8	.....	.....	.....
97	1.75	2.696	0.558 x 10 ⁻⁶	1.125	21.4	23.8	54.8	.....	.....	.....
97	2.00	2.742	0.549 x 10 ⁻⁶	1.132	23.4	26.2	50.4	.....	.....	.....
97	2.25	2.795	0.539 x 10 ⁻⁶	1.139	25.8	28.9	45.3	.....	.....	.....
97	2.50	2.853	0.528 x 10 ⁻⁶	1.144	28.5	31.7	39.8	.....	.....	.....
97	2.75	2.918	0.515 x 10 ⁻⁶	1.143	31.4	35.0	33.6	.....	.....	.....
97	3.75	3.239	0.453 x 10 ⁻⁶	1.108	45.9	51.2	2.9	.....	.....	.....
98	1.75	3.086	0.472 x 10 ⁻⁶	1.046	23.6	76.4	.....	.....	.....	.....
98	2.00	3.101	0.470 x 10 ⁻⁶	1.050	25.5	74.5	.....	.....	.....	.....
98	2.25	3.118	0.468 x 10 ⁻⁶	1.054	27.7	72.3	.....	.....	.....	.....
98	2.50	3.136	0.465 x 10 ⁻⁶	1.058	30.1	69.9	.....	.....	.....	.....
98	2.75	3.157	0.463 x 10 ⁻⁶	1.063	32.8	67.2	.....	.....	.....	.....
98	3.75	3.259	0.449 x 10 ⁻⁶	1.076	46.0	54.0	.....	.....	.....	.....
98	4.75	3.393	0.431 x 10 ⁻⁶	1.070	63.3	36.7	.....	.....	.....	.....
99**	All	3.676	0.393 x 10 ⁻⁶	1.000	100.0	.....	.....	.....	.....	.....

*Rod No. shown in the first column refers to the largest and smallest rod size in eighths of an inch. For example, Rod No. 76 is a two-way taper of 7/8 and 6/8 rods. Rod No. 85 is a four-way taper of 8/8, 7/8, 6/8, and 5/8 rods. Rod No. 77 is a straight string of 7/8 rods, etc.

**Rod Nos. 88 and 99 were not considered in Bulletin 11 L3, because it was assumed that untapered rods of 1 inch and larger would not normally be run.

TABLE 2
ROD AND PUMP DATA
 (Not included in Table 1, RP 11 L)

1	2	3	4	5	6	7	8	9
Rod No.	Plunger Diam., inches D	Rod Weight, lb per ft W_r	Elastic Constant, in. per lb ft E_r	Frequency Factor, F_c	Rod String, % of Each Size			
					1¼	1½	1	¾
107	1.06	2.794	.548 x 10 ⁻⁶	1.181	12.4	14.1	16.2	57.3
	1.25	2.836	.541 x 10 ⁻⁶	1.203	13.3	15.0	17.3	54.4
	1.50	2.902	.530 x 10 ⁻⁶	1.215	14.6	16.6	19.1	49.7
	1.75	2.980	.516 x 10 ⁻⁶	1.218	16.3	18.4	21.3	44.0
	2.00	3.070	.501 x 10 ⁻⁶	1.213	18.1	20.6	23.7	37.6
	2.25	3.172	.484 x 10 ⁻⁶	1.197	20.2	23.0	26.5	30.3
	2.50	3.286	.464 x 10 ⁻⁶	1.168	22.6	25.7	29.6	22.1
	2.75	3.412	.442 x 10 ⁻⁶	1.161	25.2	28.7	33.0	13.1
108	1.06	3.220	.456 x 10 ⁻⁶	1.103	14.0	15.9	70.1	-----
	1.25	3.240	.454 x 10 ⁻⁶	1.109	14.8	16.8	68.4	-----
	1.50	3.271	.450 x 10 ⁻⁶	1.117	16.0	18.2	65.8	-----
	1.75	3.307	.446 x 10 ⁻⁶	1.125	17.5	19.9	62.6	-----
	2.00	3.349	.441 x 10 ⁻⁶	1.132	19.2	21.8	59.0	-----
	2.25	3.397	.435 x 10 ⁻⁶	1.139	21.1	24.0	54.9	-----
	2.50	3.450	.428 x 10 ⁻⁶	1.139	23.2	26.4	50.4	-----
	2.75	3.509	.421 x 10 ⁻⁶	1.133	25.6	29.1	45.3	-----
109	3.75	3.800	.387 x 10 ⁻⁶	1.108	37.3	42.4	20.3	-----
	1.06	3.773	.381 x 10 ⁻⁶	1.046	16.1	83.9	-----	-----
	1.25	3.780	.381 x 10 ⁻⁶	1.053	16.8	83.2	-----	-----
	1.50	3.790	.380 x 10 ⁻⁶	1.050	18.0	82.0	-----	-----
	1.75	3.801	.379 x 10 ⁻⁶	1.050	19.3	80.7	-----	-----
	2.00	3.815	.378 x 10 ⁻⁶	1.052	20.9	79.1	-----	-----
	2.25	3.830	.376 x 10 ⁻⁶	1.054	22.7	77.3	-----	-----
	2.50	3.847	.375 x 10 ⁻⁶	1.058	24.7	75.3	-----	-----
109	2.75	3.866	.373 x 10 ⁻⁶	1.063	27.0	73.0	-----	-----
	3.75	3.960	.365 x 10 ⁻⁶	1.076	37.9	62.1	-----	-----
	4.75	4.082	.354 x 10 ⁻⁶	1.070	52.3	47.7	-----	-----

ROD NO. 44				PUMP DEPTH 2000.			PRODUCTION 100.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD	UNANCH.	WRF
1.00	16.	47.2	3219.	229.	16424.	13.	2.4	1747.	95.3	1266.	
1.00	20.	38.8	3170.	260.	16174.	16.	2.3	1747.	96.1	1266.	
1.00	24.	31.8	3102.	408.	15825.	16.	2.2	1747.	96.8	1266.	
1.00	30.	25.8	3018.	519.	15398.	20.	2.2	1747.	97.4	1266.	
1.00	36.	21.7	2946.	620.	15040.	23.	2.2	1747.	97.8	1266.	
1.00	42.	18.8	2904.	709.	14817.	25.	2.3	1747.	98.1	1266.	
1.00	48.	16.2	2869.	721.	14638.	28.	2.2	1747.	98.3	1266.	
1.25	16.	39.5	3237.	172.	16517.	12.	2.0	1905.	95.2	1266.	
1.25	20.	29.7	3149.	577.	16064.	15.	1.8	1905.	96.4	1266.	
1.25	24.	24.9	3114.	577.	15886.	17.	1.8	1905.	97.0	1266.	
1.25	30.	20.0	3044.	738.	15529.	19.	1.8	1905.	97.6	1266.	
1.25	36.	16.5	2987.	819.	15238.	21.	1.8	1905.	98.0	1266.	
1.25	42.	13.9	2943.	815.	15013.	23.	1.8	1905.	98.3	1266.	
1.25	48.	12.1	2922.	808.	14907.	26.	1.8	1905.	98.5	1266.	
1.50	16.	33.0	3469.	611.	17698.	11.	1.7	2153.	91.8	1266.	
1.50	20.	23.8	3425.	691.	17474.	15.	1.6	2153.	94.1	1266.	
1.50	24.	19.4	3380.	792.	17246.	18.	1.6	2153.	95.1	1266.	
1.50	30.	14.9	3347.	864.	17079.	22.	1.6	2153.	96.3	1266.	
1.50	36.	12.1	3306.	908.	16869.	24.	1.6	2153.	97.0	1266.	
1.75	16.	30.6	3950.	704.	20154.	12.	1.6	2446.	89.9	1266.	
1.75	20.	21.2	3870.	772.	19744.	16.	1.5	2446.	93.0	1266.	
1.75	24.	16.5	3836.	862.	19574.	20.	1.5	2446.	94.5	1266.	
1.75	30.	12.3	3804.	905.	19408.	25.	1.5	2446.	95.9	1266.	
2.00	20.	20.0	4478.	811.	22649.	16.	1.4	2784.	88.6	1266.	
2.00	24.	14.9	4425.	887.	22579.	22.	1.5	2784.	91.5	1266.	
2.25	24.	14.6	5141.	894.	26229.	22.	1.4	3167.	86.6	1266.	

ROD NO. 54			PUMP DEPTH 2000.				PRODUCTION 100.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD	UNANCH.	WRF
1.00	16.	48.7	3787.	292.	12336.	15.	2.8	2054.	95.1	1556.	
1.00	20.	38.2	3625.	413.	11809.	17.	2.5	2054.	96.2	1556.	
1.00	24.	31.8	3576.	563.	11649.	19.	2.4	2054.	96.8	1556.	
1.00	30.	25.9	3483.	678.	11346.	22.	2.4	2054.	97.4	1556.	
1.00	36.	21.7	3397.	797.	11064.	25.	2.4	2054.	97.8	1556.	
1.00	42.	18.5	3323.	923.	10825.	28.	2.4	2054.	98.1	1556.	
1.00	48.	16.2	3300.	922.	10750.	31.	2.4	2054.	98.4	1556.	
1.25	16.	37.9	3703.	598.	12062.	14.	2.0	2253.	95.4	1594.	
1.25	20.	29.6	3640.	709.	11855.	16.	1.9	2253.	96.4	1594.	
1.25	24.	24.7	3566.	835.	11623.	18.	1.9	2253.	97.0	1594.	
1.25	30.	19.8	3481.	1021.	11338.	20.	1.9	2253.	97.6	1594.	
1.25	36.	16.2	3408.	1091.	11101.	22.	1.9	2253.	98.0	1594.	
1.25	42.	13.8	3383.	1072.	11021.	25.	1.9	2253.	98.3	1594.	
1.25	48.	12.0	3360.	1071.	10946.	28.	1.9	2253.	98.6	1594.	
1.50	16.	29.4	3952.	972.	12874.	13.	1.7	2563.	92.6	1653.	
1.50	20.	23.0	3934.	980.	12816.	17.	1.7	2563.	94.2	1653.	
1.50	24.	18.6	3870.	1114.	12607.	19.	1.6	2563.	95.3	1653.	
1.50	30.	14.5	3814.	1201.	12424.	22.	1.6	2563.	96.4	1653.	
1.50	36.	11.6	3763.	1223.	12258.	24.	1.6	2563.	97.0	1653.	
1.75	16.	25.5	4465.	1080.	14545.	14.	1.6	2934.	91.5	1727.	
1.75	20.	19.1	4428.	1220.	14422.	18.	1.6	2934.	93.7	1727.	
1.75	24.	15.1	4391.	1275.	14303.	22.	1.6	2934.	95.0	1727.	
2.00	16.	22.8	5149.	1203.	16772.	15.	1.5	3359.	87.0	1809.	
2.00	20.	16.3	5083.	1327.	16556.	21.	1.5	3359.	90.7	1809.	
2.00	24.	12.6	5044.	1380.	16430.	25.	1.5	3359.	92.8	1809.	

ROD NO. 55			PUMP DEPTH 2000.				PRODUCTION 100.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD	UNANCH.	WRF
1.00	16.	46.2	4579.	394.	14916.	17.	3.0	2503.	95.4	1979.	
1.00	20.	36.9	4405.	551.	14358.	20.	2.8	2503.	96.4	1979.	
1.00	24.	30.8	4359.	739.	14199.	23.	2.8	2503.	96.9	1979.	
1.00	30.	25.4	4252.	844.	13849.	27.	2.7	2503.	97.5	1979.	
1.00	36.	21.2	4159.	1009.	13482.	31.	2.7	2503.	97.9	1979.	
1.00	42.	18.4	4067.	1152.	13246.	35.	2.8	2503.	98.1	1979.	
1.00	48.	16.1	4042.	1148.	13165.	40.	2.8	2503.	98.4	1979.	
1.25	16.	35.8	4324.	853.	14085.	16.	2.1	2661.	95.7	1979.	
1.25	20.	28.0	4222.	1041.	13754.	18.	2.0	2661.	96.6	1979.	
1.25	24.	23.9	4149.	1133.	13516.	20.	2.0	2661.	97.1	1979.	
1.25	30.	19.2	4047.	1328.	13184.	23.	2.1	2661.	97.7	1979.	
1.25	36.	15.9	4002.	1343.	13037.	26.	2.1	2661.	98.1	1979.	
1.25	42.	13.5	3973.	1330.	12943.	30.	2.0	2661.	98.4	1979.	
1.25	48.	11.8	3946.	1341.	12853.	35.	2.0	2661.	98.6	1979.	
1.50	16.	27.4	4435.	1164.	14445.	15.	1.7	2909.	93.2	1979.	
1.50	20.	21.6	4361.	1230.	14270.	18.	1.7	2909.	94.6	1979.	
1.50	24.	17.8	4298.	1409.	14001.	20.	1.7	2909.	95.5	1979.	
1.50	30.	14.0	4236.	1454.	13797.	23.	1.7	2909.	96.5	1979.	
1.50	36.	11.5	4177.	1464.	13605.	25.	1.7	2909.	97.1	1979.	
1.75	16.	22.8	4798.	1304.	15605.	15.	1.5	3202.	92.4	1979.	
1.75	20.	17.7	4745.	1448.	15457.	19.	1.6	3202.	94.1	1979.	
1.75	24.	14.2	4719.	1499.	15370.	23.	1.6	3202.	95.3	1979.	
2.00	16.	20.8	5342.	1374.	17402.	16.	1.5	3540.	88.2	1979.	
2.00	20.	15.3	5289.	1490.	17227.	21.	1.5	3540.	91.3	1979.	
2.25	16.	19.9	6037.	1411.	19665.	16.	1.4	3923.	81.7	1979.	
2.25	20.	13.9	5957.	1523.	19404.	23.	1.5	3923.	87.3	1979.	
2.50	20.	13.7	6756.	1531.	22007.	24.	1.5	4351.	86.9	1979.	

ROD NO. 64			PUMP DEPTH 2000.			PRODUCTION 100.					
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD	UNANCH.	WRF
1.00	16.	47.7	4400.	494.	9955.	16.	2.9	2468.	95.2	1946.	
1.00	20.	37.6	4225.	634.	9560.	19.	2.7	2468.	96.3	1946.	
1.00	24.	31.8	4190.	784.	9480.	21.	2.7	2468.	96.8	1946.	
1.00	30.	25.9	4077.	916.	9223.	25.	2.6	2468.	97.4	1946.	
1.00	36.	21.6	3973.	1058.	8989.	29.	2.6	2468.	97.8	1946.	
1.00	42.	18.5	3887.	1207.	8793.	32.	2.6	2468.	98.1	1946.	
1.00	48.	16.1	3861.	1207.	8736.	36.	2.6	2468.	98.4	1946.	
1.25	16.	36.2	4305.	964.	9741.	15.	2.1	2722.	95.7	2037.	
1.25	20.	29.3	4270.	1102.	9662.	18.	2.1	2722.	96.5	2037.	
1.25	24.	24.4	4166.	1197.	9524.	20.	2.0	2722.	97.0	2037.	
1.25	30.	19.4	4047.	1418.	9157.	22.	2.1	2722.	97.7	2037.	
1.25	36.	16.0	3999.	1440.	9048.	25.	2.0	2722.	98.1	2037.	
1.25	42.	13.6	3971.	1425.	8984.	29.	2.0	2722.	98.4	2037.	
1.25	48.	11.9	3945.	1432.	8924.	33.	2.0	2722.	98.6	2037.	
1.50	16.	27.9	4670.	1342.	10565.	15.	1.7	3122.	93.0	2180.	
1.50	20.	21.9	4606.	1408.	10421.	19.	1.7	3122.	94.5	2180.	
1.50	24.	17.9	4513.	1602.	10209.	20.	1.7	3122.	95.5	2180.	
1.50	30.	14.0	4447.	1647.	10051.	23.	1.7	3122.	96.5	2180.	
1.50	36.	11.5	4386.	1656.	9923.	25.	1.7	3122.	97.1	2180.	
1.75	16.	22.3	5262.	1616.	11905.	16.	1.6	3594.	92.5	2349.	
1.75	20.	17.2	5187.	1767.	11736.	20.	1.6	3594.	94.3	2349.	
1.75	24.	13.7	5147.	1845.	11645.	24.	1.6	3594.	95.4	2349.	

ROD NO. 65		PUMP DEPTH 2000.				PRODUCTION 100.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.00	16.	47.7	5148.	432.	11647.	19.	3.4	2792.	95.3	2252.
1.00	20.	36.8	4847.	661.	10966.	22.	2.9	2792.	96.4	2252.
1.00	24.	31.3	4833.	841.	10934.	25.	3.0	2792.	96.9	2252.
1.00	30.	25.4	4601.	997.	10591.	30.	2.9	2792.	97.4	2252.
1.00	36.	21.2	4557.	1180.	10309.	33.	2.9	2792.	97.8	2252.
1.00	42.	18.4	4475.	1339.	10125.	38.	3.0	2792.	98.1	2252.
1.00	48.	15.9	4432.	1346.	10028.	43.	2.9	2792.	98.4	2252.
1.25	16.	34.7	4722.	1094.	10684.	10.	2.1	2977.	95.8	2278.
1.25	20.	28.2	4605.	1243.	10555.	19.	2.1	2977.	96.6	2278.
1.25	24.	23.9	4564.	1368.	10326.	21.	2.1	2977.	97.1	2278.
1.25	30.	19.1	4456.	1557.	10082.	24.	2.2	2977.	97.7	2278.
1.25	36.	15.8	4407.	1575.	9971.	28.	2.2	2977.	98.1	2278.
1.25	42.	13.5	4376.	1564.	9900.	33.	2.1	2977.	98.4	2278.
1.50	16.	11.7	4334.	1569.	9805.	38.	2.1	2977.	98.6	2278.
1.50	20.	27.1	4096.	1401.	11077.	16.	1.6	3270.	93.2	2320.
1.50	24.	21.4	4807.	1533.	10675.	19.	1.8	3270.	94.7	2320.
1.50	30.	17.6	4713.	1716.	10664.	21.	1.8	3270.	95.6	2320.
1.50	36.	13.0	4643.	1739.	10505.	23.	1.8	3270.	96.6	2320.
1.50	40.	11.3	4577.	1760.	10355.	26.	1.7	3270.	97.2	2320.
1.75	16.	42.1	5268.	1635.	11965.	17.	1.6	3616.	92.6	2370.
1.75	20.	17.1	5217.	1763.	11803.	20.	1.6	3616.	94.3	2370.
1.75	24.	13.7	5174.	1862.	11706.	24.	1.6	3616.	95.4	2370.
2.00	16.	19.4	5661.	1804.	13259.	18.	1.5	4015.	89.0	2428.
2.00	20.	14.4	5808.	1900.	13139.	23.	1.6	4015.	91.8	2428.
2.25	16.	17.5	6591.	1912.	14912.	19.	1.5	4466.	84.0	2492.
2.50	16.	16.5	7457.	2003.	16872.	20.	1.5	4972.	83.9	2565.

ROD NO. 66		PUMP DEPTH 2000.				PRODUCTION 100.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.00	16.	45.7	6237.	601.	14111.	23.	3.7	3426.	95.5	2850.
1.00	20.	36.5	5976.	831.	13521.	27.	3.5	3426.	96.4	2850.
1.00	24.	30.4	5902.	1101.	13353.	30.	3.5	3426.	97.0	2850.
1.00	30.	25.2	5743.	1248.	12993.	36.	3.4	3426.	97.5	2850.
1.00	36.	21.2	5521.	1494.	12717.	42.	3.4	3426.	97.9	2850.
1.00	42.	18.2	5493.	1674.	12427.	47.	3.4	3426.	98.2	2850.
1.00	48.	15.9	5459.	1679.	12350.	54.	3.4	3426.	98.6	2850.
1.25	16.	34.3	5670.	1344.	12678.	19.	2.4	3584.	96.0	2850.
1.25	20.	27.4	5543.	1613.	12542.	22.	2.4	3584.	96.7	2850.
1.25	24.	23.2	5426.	1743.	12277.	25.	2.3	3584.	97.2	2850.
1.25	30.	18.6	5301.	1971.	11993.	29.	2.4	3584.	97.7	2850.
1.25	36.	15.5	5256.	1972.	11891.	34.	2.4	3584.	98.1	2850.
1.25	42.	13.3	5219.	1969.	11808.	40.	2.3	3584.	98.4	2850.
1.25	48.	11.6	5183.	1998.	11727.	46.	2.3	3584.	98.6	2850.
1.50	16.	25.6	5602.	1803.	12675.	18.	1.8	3832.	93.6	2850.
1.50	20.	20.5	5432.	2033.	12404.	20.	1.6	3832.	94.9	2850.
1.50	24.	17.0	5351.	2175.	12196.	22.	1.9	3832.	95.7	2850.
1.50	30.	13.4	5326.	2151.	12051.	26.	1.8	3832.	96.6	2850.
1.50	36.	11.1	5284.	2191.	11954.	31.	1.8	3832.	97.2	2850.
1.75	16.	20.7	5884.	2045.	13313.	18.	1.6	4124.	93.1	2850.
1.75	20.	16.1	5867.	2206.	13138.	22.	1.6	4124.	94.6	2850.
1.75	24.	13.2	5744.	2265.	12996.	24.	1.6	4124.	95.6	2850.
2.00	16.	17.6	6358.	2234.	14384.	19.	1.6	4462.	89.9	2850.
2.00	20.	13.4	6314.	2295.	14285.	24.	1.6	4462.	92.4	2850.
2.25	16.	15.8	6962.	2251.	15619.	21.	1.5	4845.	85.6	2850.
2.50	16.	14.7	7753.	2287.	17541.	22.	1.5	5273.	85.7	2850.
2.75	16.	14.6	8640.	2292.	19548.	22.	1.4	5746.	79.2	2850.

ROD NO. 75		PUMP DEPTH 2000.				PRODUCTION 100.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.00	16.	47.1	5745.	633.	9559.	21.	3.6	3198.	95.4	2635.
1.00	20.	36.8	5446.	860.	9061.	24.	3.2	3198.	96.4	2635.
1.00	24.	31.5	5445.	1040.	9059.	27.	3.3	3198.	96.9	2635.
1.00	30.	25.4	5259.	1235.	8750.	32.	3.1	3198.	97.4	2635.
1.00	36.	21.2	5120.	1439.	8519.	37.	3.1	3198.	97.8	2635.
1.00	42.	18.2	5010.	1627.	8336.	41.	3.1	3198.	98.1	2635.
1.00	48.	15.9	4981.	1627.	8288.	47.	3.1	3198.	98.4	2635.
1.25	16.	34.3	5305.	1400.	8827.	17.	2.3	3425.	95.8	2700.
1.25	20.	28.5	5283.	1533.	8791.	21.	2.4	3425.	96.6	2700.
1.25	24.	23.6	5142.	1678.	8555.	23.	2.3	3425.	97.1	2700.
1.25	30.	19.0	5015.	1894.	8345.	27.	2.3	3425.	97.7	2700.
1.25	36.	15.7	4963.	1913.	8259.	31.	2.3	3425.	98.1	2700.
1.25	42.	13.3	4916.	1913.	8179.	36.	2.2	3425.	98.4	2700.
1.25	48.	11.6	4884.	1936.	8126.	41.	2.2	3425.	98.6	2700.
1.50	16.	26.7	5516.	1778.	9177.	18.	1.9	3780.	93.3	2801.
1.50	20.	21.1	5393.	1976.	8974.	20.	1.8	3780.	94.7	2801.
1.50	24.	17.4	5290.	2153.	8802.	22.	1.8	3780.	95.7	2801.
1.50	30.	13.5	5203.	2150.	8657.	24.	1.8	3780.	96.6	2801.
1.50	36.	11.2	5162.	2162.	8589.	29.	1.8	3780.	97.2	2801.
1.75	16.	21.2	5943.	2111.	9889.	18.	1.6	4198.	92.9	2919.
1.75	20.	16.3	5860.	2281.	9750.	22.	1.6	4198.	94.5	2919.
1.75	24.	13.3	5797.	2351.	9645.	24.	1.6	4198.	95.6	2919.
2.00	16.	17.9	6583.	2432.	10953.	20.	1.6	4684.	89.8	3059.
2.00	20.	13.5	6334.	2499.	10871.	24.	1.6	4684.	92.4	3059.
2.25	16.	15.3	7393.	2600.	12301.	22.	1.5	5232.	86.0	3214.

ROD NO. 76		PUMP DEPTH 2000.				PRODUCTION 100.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.00	16.	46.4	6777.	656.	11276.	25.	4.0	3708.	95.4	3117.
1.00	20.	36.5	6413.	954.	10671.	28.	3.7	3708.	96.4	3117.
1.00	24.	30.6	6361.	1220.	10584.	32.	3.7	3708.	97.0	3117.
1.00	30.	25.4	6211.	1362.	10334.	39.	3.7	3708.	97.5	3117.
1.00	36.	21.2	6037.	1617.	10045.	44.	3.6	3708.	97.9	3117.
1.00	42.	18.2	5999.	1853.	9816.	50.	3.6	3708.	98.2	3117.
1.00	48.	15.9	5863.	1862.	9755.	57.	3.5	3708.	98.4	3117.
1.25	16.	33.9	6069.	1596.	10098.	20.	2.5	3887.	96.0	3136.
1.25	20.	27.4	5959.	1800.	9915.	23.	2.5	3887.	96.7	3136.
1.25	24.	23.2	5835.	1939.	9709.	26.	2.4	3887.	97.2	3136.
1.25	30.	18.6	5694.	2190.	9475.	31.	2.5	3887.	97.7	3136.
1.25	36.	15.5	5647.	2193.	9396.	36.	2.5	3887.	98.1	3136.
1.25	42.	13.3	5608.	2193.	9331.	42.	2.4	3887.	98.4	3136.
1.25	48.	11.6	5569.	2285.	9267.	49.	2.4	3887.	98.6	3136.
1.50	16.	25.6	6016.	2064.	10009.	10.	1.9	4168.	93.6	3167.
1.50	20.	20.5	5880.	2314.	9784.	21.	1.9	4168.	94.9	3167.
1.50	24.	16.9	5778.	2456.	9614.	23.	1.9	4168.	95.8	3167.
1.50	30.	13.4	5723.	2420.	9522.	27.	1.9	4168.	96.7	3167.
1.50	36.	11.1	5677.	2465.	9446.	33.	1.9	4168.	97.2	3167.
1.75	16.	20.4	6314.	2338.	10506.	19.	1.7	4498.	93.2	3293.
1.75	20.	15.9	6215.	2529.	10341.	22.	1.7	4498.	94.7	3293.

1.75	24.	13.0	6147.	2571.	10226.	24.	1.6	4498.	95.7	3202.
2.00	16.	17.2	6817.	2583.	11343.	20.	1.6	4882.	90.2	3246.
2.25	16.	15.0	7489.	2671.	12460.	22.	1.5	5315.	86.3	3293.

ROD NO. 77			PUMP DEPTH 2000.			PRODUCTION 100.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.00	16.	44.8	8138.	891.	13540.	30.	4.5	4516.	95.5	3879.
1.00	20.	36.3	7836.	1159.	13038.	34.	4.3	4516.	96.4	3879.
1.00	24.	30.2	7724.	1524.	12853.	39.	4.3	4516.	97.0	3879.
1.00	30.	25.0	7514.	1720.	12502.	47.	4.2	4516.	97.5	3879.
1.00	36.	21.2	7374.	1930.	12269.	55.	4.3	4516.	97.9	3879.
1.00	42.	18.2	7199.	2280.	11979.	62.	4.3	4516.	98.2	3879.
1.00	48.	15.9	7153.	2297.	11902.	71.	4.2	4516.	98.4	3879.
1.25	10.	33.1	7238.	2024.	12044.	23.	2.8	4675.	96.1	3879.
1.25	20.	27.2	7126.	2223.	11857.	27.	2.8	4675.	96.8	3879.
1.25	24.	22.9	6963.	2411.	11586.	31.	2.7	4675.	97.3	3879.
1.25	30.	18.5	6809.	2705.	11329.	37.	2.8	4675.	97.8	3879.
1.25	36.	15.2	6735.	2721.	11206.	44.	2.7	4675.	98.2	3879.
1.25	42.	13.1	6669.	2729.	11129.	51.	2.6	4675.	98.4	3879.
1.25	48.	11.4	6643.	2776.	11053.	60.	2.7	4675.	98.6	3879.
1.50	16.	25.0	6961.	2648.	11583.	20.	2.0	4922.	93.8	3879.
1.50	20.	20.0	6806.	2941.	11328.	22.	2.1	4922.	95.0	3879.
1.50	24.	16.6	6729.	3016.	11196.	26.	2.1	4922.	95.8	3879.
1.50	30.	13.2	6671.	2985.	11100.	32.	2.0	4922.	96.7	3879.
1.75	16.	19.6	7134.	2974.	11870.	20.	1.7	5215.	93.5	3879.
1.75	20.	15.4	7027.	3125.	11693.	23.	1.7	5215.	94.9	3879.
1.75	24.	12.7	6949.	3122.	11563.	25.	1.7	5215.	95.8	3879.
2.00	10.	16.0	7566.	3148.	12588.	22.	1.6	5553.	90.8	3879.

ROD NO. 44			PUMP DEPTH 2000.			PRODUCTION 150.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.00	36.	30.8	3520.	75.	18264.	32.	4.1	1747.	146.9	1266.
1.00	42.	27.3	3534.	126.	18032.	37.	4.1	1747.	147.3	1266.
1.00	48.	23.9	3426.	232.	17482.	40.	3.9	1747.	147.6	1266.
1.00	54.	21.2	3366.	337.	17174.	43.	4.0	1747.	147.8	1266.
1.00	64.	18.1	3295.	473.	16813.	49.	4.1	1747.	148.2	1266.
1.00	74.	15.6	3219.	468.	16678.	57.	4.0	1747.	148.4	1266.
1.25	16.	50.3	3636.	146.	18552.	14.	3.2	1905.	144.0	1266.
1.25	24.	36.5	3564.	149.	18286.	23.	3.2	1905.	145.6	1266.
1.25	30.	28.1	3465.	356.	17680.	25.	2.9	1905.	146.6	1266.
1.25	36.	24.0	3398.	438.	17335.	28.	3.0	1905.	147.1	1266.
1.25	42.	20.6	3326.	585.	16967.	31.	3.1	1905.	147.5	1266.
1.25	48.	18.0	3270.	672.	16685.	33.	3.1	1905.	147.8	1266.
1.25	54.	15.9	3250.	654.	16584.	37.	3.1	1905.	148.1	1266.
1.25	64.	13.4	3219.	639.	16426.	43.	3.0	1905.	148.4	1266.
1.25	74.	11.5	3160.	661.	16276.	50.	3.0	1905.	148.6	1266.
1.50	20.	36.0	3773.	300.	19251.	18.	2.8	2153.	141.0	1266.
1.50	24.	27.7	3688.	440.	18618.	22.	2.5	2153.	143.1	1266.
1.50	30.	21.8	3642.	529.	18583.	26.	2.5	2153.	144.6	1266.
1.50	36.	17.9	3503.	704.	18177.	29.	2.5	2153.	145.5	1266.
1.50	42.	15.2	3522.	744.	17967.	32.	2.5	2153.	146.2	1266.
1.50	48.	13.1	3402.	758.	17766.	34.	2.5	2153.	146.7	1266.
1.50	54.	11.5	3445.	768.	17576.	36.	2.5	2153.	147.1	1266.
1.50	64.	9.5	3335.	842.	17272.	42.	2.5	2153.	147.6	1266.
1.75	16.	38.6	4096.	175.	20899.	13.	2.4	2446.	137.3	1266.
1.75	20.	30.9	4110.	551.	20969.	18.	2.5	2446.	139.7	1266.
1.75	24.	23.2	4060.	600.	20717.	22.	2.3	2446.	142.2	1266.
1.75	30.	18.0	4012.	750.	20468.	28.	2.3	2446.	144.0	1266.
1.75	36.	14.4	3985.	793.	20330.	33.	2.3	2446.	145.2	1266.
1.75	42.	11.8	3956.	860.	20184.	37.	2.3	2446.	146.0	1266.
1.75	48.	10.1	3914.	879.	19970.	40.	2.3	2446.	146.6	1266.
2.00	20.	28.9	4698.	591.	23970.	18.	2.3	2784.	133.5	1266.
2.00	24.	21.4	4617.	666.	23559.	24.	2.2	2784.	137.9	1266.
2.00	30.	15.6	4561.	783.	23270.	31.	2.3	2784.	141.1	1266.
2.00	36.	12.2	4528.	815.	23100.	37.	2.3	2784.	143.0	1266.
2.25	24.	21.0	5329.	680.	27190.	24.	2.2	3167.	130.9	1266.
2.25	30.	14.3	5236.	814.	26715.	34.	2.2	3167.	136.9	1266.
2.50	30.	14.1	6037.	821.	30801.	35.	2.2	3595.	136.3	1266.

ROD NO. 54			PUMP DEPTH 2000.			PRODUCTION 150.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.00	36.	31.4	4178.	108.	13608.	37.	4.6	2054.	146.9	1556.
1.00	42.	27.3	4044.	219.	13301.	41.	4.5	2054.	147.3	1556.
1.00	48.	23.9	3957.	343.	12889.	45.	4.4	2054.	147.6	1556.
1.00	54.	21.4	3910.	443.	12735.	49.	4.5	2054.	147.8	1556.
1.00	64.	18.1	3801.	627.	12380.	55.	4.5	2054.	148.2	1556.
1.00	74.	15.5	3754.	636.	12228.	64.	4.3	2054.	148.4	1556.
1.25	20.	43.5	4254.	184.	13858.	22.	3.7	2253.	144.8	1594.
1.25	24.	34.7	4078.	380.	13284.	24.	3.3	2253.	145.8	1594.
1.25	30.	28.6	4048.	513.	13186.	28.	3.4	2253.	146.6	1594.
1.25	36.	23.9	3917.	659.	12760.	31.	3.3	2253.	147.1	1594.
1.25	42.	20.5	3844.	786.	12521.	34.	3.3	2253.	147.5	1594.
1.25	48.	17.8	3776.	887.	12301.	37.	3.4	2253.	147.9	1594.
1.25	54.	15.8	3754.	872.	12227.	41.	3.3	2253.	148.1	1594.
1.25	64.	13.3	3718.	862.	12110.	49.	3.2	2253.	148.4	1594.
1.25	74.	11.3	3672.	901.	11961.	56.	3.2	2253.	148.6	1594.
1.50	20.	32.7	4306.	660.	14025.	20.	2.7	2563.	141.8	1653.
1.50	24.	27.0	4261.	691.	13944.	25.	2.7	2563.	143.3	1653.
1.50	30.	21.4	4177.	854.	13605.	28.	2.7	2563.	144.7	1653.
1.50	36.	17.5	4079.	1036.	13287.	30.	2.7	2563.	145.6	1653.
1.50	42.	14.8	4030.	1053.	13126.	33.	2.7	2563.	146.3	1653.
1.50	48.	12.9	3983.	1037.	12973.	35.	2.7	2563.	146.8	1653.
1.50	54.	11.2	3945.	1074.	12850.	38.	2.6	2563.	147.2	1653.
1.50	64.	9.4	3906.	1156.	12723.	47.	2.6	2563.	147.6	1653.
1.75	16.	37.2	4824.	576.	15715.	16.	2.9	2934.	137.6	1727.
1.75	20.	26.7	4722.	892.	15381.	21.	2.4	2934.	141.1	1727.
1.75	24.	21.7	4649.	961.	15273.	25.	2.4	2934.	142.7	1727.
1.75	30.	16.6	4611.	1118.	15018.	30.	2.4	2934.	144.4	1727.
1.75	36.	13.5	4561.	1194.	14857.	34.	2.4	2934.	145.5	1727.
1.75	42.	11.3	4507.	1227.	14680.	37.	2.4	2934.	146.2	1727.
2.00	16.	33.7	5446.	866.	17741.	16.	2.6	3359.	130.9	1809.
2.00	20.	23.5	5331.	1024.	17363.	23.	2.3	3359.	136.7	1809.
2.00	24.	18.5	5222.	1197.	17207.	26.	2.3	3359.	139.5	1809.
2.00	30.	13.9	5235.	1263.	17051.	34.	2.3	3359.	142.1	1809.

ROD NO. 50			PUMP DEPTH 2000.			PRODUCTION 150.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.00	36.	30.4	5126.	158.	16698.	45.	5.4	2503.	147.0	1979.
1.00	42.	26.8	5033.	247.	16394.	51.	5.3	2503.	147.4	1979.
1.00	48.	23.9	4931.	359.	16063.	58.	5.3	2503.	147.6	1979.
1.00	54.	21.2	4837.	524.	15755.	62.	5.3	2503.	147.9	1979.

1.00	64.	17.9	4099.	753.	19307.	71.	5.3	2503.	148.2	1979.
1.00	74.	15.5	4660.	763.	15179.	83.	5.2	2503.	148.4	1979.
1.25	10.	49.0	5015.	279.	16335.	20.	3.8	2661.	144.2	1979.
1.25	20.	41.2	4979.	271.	16219.	25.	3.9	2661.	145.0	1979.
1.25	24.	33.9	4849.	488.	15796.	28.	3.7	2661.	146.0	1979.
1.25	30.	27.4	4743.	689.	15450.	32.	3.6	2661.	146.7	1979.
1.25	36.	23.1	4617.	829.	15041.	37.	3.6	2661.	147.2	1979.
1.25	42.	19.9	4531.	966.	14760.	41.	3.7	2661.	147.6	1979.
1.25	46.	17.4	4467.	1076.	14552.	45.	3.7	2661.	147.9	1979.
1.25	54.	15.5	4442.	1067.	14468.	50.	3.6	2661.	148.1	1979.
1.25	64.	13.0	4400.	1066.	14331.	60.	3.5	2661.	148.4	1979.
1.25	74.	11.3	4358.	1110.	14196.	71.	3.5	2661.	148.6	1979.
1.50	10.	40.1	4977.	323.	16212.	19.	3.0	2909.	140.0	1979.
1.50	20.	30.3	4832.	890.	15738.	23.	2.7	2909.	142.4	1979.
1.50	24.	25.5	4772.	910.	15542.	26.	2.7	2909.	143.6	1979.
1.50	30.	20.4	4647.	1149.	15138.	29.	2.8	2909.	144.9	1979.
1.50	30.	16.9	4553.	1287.	14632.	32.	2.8	2909.	145.8	1979.
1.50	42.	14.4	4509.	1288.	14688.	35.	2.8	2909.	146.4	1979.
1.50	46.	12.5	4479.	1250.	14588.	40.	2.7	2909.	146.9	1979.
1.50	54.	11.1	4449.	1300.	14493.	45.	2.8	2909.	147.2	1979.
1.50	64.	9.3	4403.	1389.	14343.	55.	2.8	2909.	147.7	1979.
1.75	10.	33.9	5185.	895.	16890.	16.	2.7	3202.	138.7	1979.
1.75	20.	25.0	5105.	1023.	16629.	23.	2.4	3202.	141.7	1979.
1.75	24.	20.5	5043.	1154.	16428.	27.	2.4	3202.	143.2	1979.
1.75	30.	16.0	4959.	1325.	16154.	31.	2.5	3202.	144.7	1979.
1.75	30.	13.1	4895.	1375.	15994.	35.	2.4	3202.	145.6	1979.
1.75	42.	11.0	4834.	1407.	15746.	38.	2.4	3202.	146.3	1979.
2.00	10.	30.6	5645.	1096.	18388.	18.	2.4	3540.	132.6	1979.
2.00	20.	21.6	5557.	1202.	18099.	24.	2.3	3540.	137.6	1979.
2.00	24.	17.5	5509.	1347.	17945.	29.	2.3	3540.	140.1	1979.
2.00	30.	13.3	5406.	1419.	17805.	35.	2.3	3540.	142.5	1979.
2.25	10.	28.8	6311.	1134.	20558.	18.	2.3	3923.	123.7	1979.
2.25	20.	20.0	6195.	1264.	20179.	25.	2.2	3923.	131.8	1979.
2.25	24.	15.5	6137.	1376.	19991.	32.	2.3	3923.	135.9	1979.
2.50	20.	19.2	6971.	1306.	22706.	26.	2.1	4351.	131.3	1979.
2.50	24.	14.3	6891.	1412.	22447.	34.	2.2	4351.	136.1	1979.
2.75	24.	14.0	7771.	1425.	25312.	35.	2.2	4824.	130.0	1979.

ROD NO. 64			PUMP DEPTH 2000.			PRODUCTION 150.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.00	30.	36.9	4906.	63.	11100.	36.	5.0	2468.	146.3	1946.
1.00	36.	31.8	4930.	202.	11154.	42.	5.3	2468.	146.9	1946.
1.00	42.	27.3	4708.	372.	10832.	46.	5.1	2468.	147.3	1946.
1.00	48.	23.9	4639.	518.	10495.	51.	4.8	2468.	147.6	1946.
1.00	54.	21.2	4555.	663.	10306.	55.	4.9	2468.	147.8	1946.
1.00	64.	17.9	4434.	865.	10032.	63.	4.9	2468.	148.2	1946.
1.00	74.	15.5	4369.	870.	9953.	73.	4.8	2468.	148.4	1946.
1.25	20.	41.2	4898.	448.	11082.	24.	3.7	2722.	145.0	2037.
1.25	24.	34.3	4802.	615.	10863.	27.	3.6	2722.	145.8	2037.
1.25	30.	28.4	4766.	770.	10783.	31.	3.7	2722.	146.6	2037.
1.25	36.	23.8	4615.	917.	10440.	35.	3.6	2722.	147.1	2037.
1.25	42.	20.3	4521.	1076.	10229.	39.	3.6	2722.	147.6	2037.
1.25	48.	17.7	4446.	1167.	10058.	43.	3.6	2722.	147.9	2037.
1.25	54.	15.5	4405.	1163.	9967.	47.	3.5	2722.	148.1	2037.
1.25	64.	13.1	4365.	1179.	9876.	56.	3.4	2722.	148.4	2037.
1.25	74.	11.3	4326.	1220.	9788.	65.	3.4	2722.	148.6	2037.
1.50	10.	41.0	5248.	414.	11874.	19.	3.2	3122.	139.7	2180.
1.50	20.	31.2	5097.	1032.	11532.	24.	2.9	3122.	142.2	2180.
1.50	24.	26.2	5036.	1070.	11393.	27.	2.9	3122.	143.5	2180.
1.50	30.	20.6	4892.	1311.	11068.	30.	2.9	3122.	144.8	2180.
1.50	30.	17.0	4770.	1480.	10792.	32.	2.9	3122.	145.7	2180.
1.50	42.	14.4	4727.	1459.	10694.	35.	2.8	3122.	146.4	2180.
1.50	46.	12.5	4695.	1441.	10622.	40.	2.8	3122.	146.9	2180.
1.50	54.	11.1	4605.	1491.	10555.	45.	2.8	3122.	147.2	2180.
1.50	64.	9.3	4618.	1500.	10449.	55.	2.8	3122.	147.7	2180.
1.75	10.	32.1	5653.	1246.	12789.	19.	2.6	3594.	139.4	2349.
1.75	20.	24.7	5609.	1267.	12649.	24.	2.5	3594.	141.8	2349.
1.75	24.	20.2	5520.	1453.	12449.	28.	2.5	3594.	143.3	2349.
1.75	30.	15.8	5410.	1649.	12240.	32.	2.5	3594.	144.7	2349.
1.75	36.	12.9	5338.	1676.	12076.	35.	2.5	3594.	145.7	2349.
1.75	42.	10.9	5270.	1715.	11923.	38.	2.5	3594.	146.4	2349.

ROD NO. 65			PUMP DEPTH 2000.			PRODUCTION 150.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.00	36.	30.7	5682.	210.	12854.	49.	5.9	2792.	147.0	2252.
1.00	42.	26.9	5572.	316.	12606.	56.	5.8	2792.	147.3	2252.
1.00	48.	23.9	5432.	461.	12289.	62.	5.7	2792.	147.6	2252.
1.00	54.	21.2	5327.	644.	12053.	67.	5.7	2792.	147.9	2252.
1.00	64.	17.9	5175.	898.	11709.	77.	5.7	2792.	148.2	2252.
1.00	74.	15.5	5132.	912.	11611.	89.	5.5	2792.	148.4	2252.
1.25	10.	50.5	5684.	327.	12860.	22.	4.4	2977.	144.0	2278.
1.25	20.	41.2	5502.	374.	12449.	27.	4.1	2977.	145.2	2278.
1.25	24.	33.8	5350.	635.	12104.	30.	3.9	2977.	146.0	2278.
1.25	30.	27.4	5239.	838.	11852.	35.	3.9	2977.	146.7	2278.
1.25	36.	23.2	5102.	990.	11543.	40.	3.8	2977.	147.2	2278.
1.25	42.	19.9	5004.	1167.	11322.	44.	3.9	2977.	147.6	2278.
1.25	48.	17.4	4928.	1273.	11150.	49.	3.9	2977.	147.9	2278.
1.25	54.	15.5	4900.	1266.	11085.	55.	3.8	2977.	148.1	2278.
1.25	64.	13.0	4853.	1270.	10980.	65.	3.7	2977.	148.4	2278.
1.25	74.	11.3	4807.	1319.	10877.	76.	3.7	2977.	148.6	2278.
1.50	10.	40.2	5540.	680.	12534.	21.	3.3	3270.	140.0	2320.
1.50	20.	30.4	5353.	1104.	12111.	24.	2.9	3270.	142.4	2320.
1.50	24.	25.5	5261.	1163.	11902.	27.	2.9	3270.	143.6	2320.
1.50	30.	20.3	5115.	1435.	11568.	30.	2.9	3270.	144.9	2320.
1.50	36.	16.8	5012.	1559.	11300.	33.	3.0	3270.	145.8	2320.
1.50	42.	14.3	4976.	1529.	11258.	38.	2.9	3270.	146.4	2320.
1.50	46.	12.4	4942.	1514.	11182.	43.	2.8	3270.	146.9	2320.
1.50	54.	11.0	4910.	1571.	11109.	49.	2.9	3270.	147.3	2320.
1.50	64.	9.2	4859.	1664.	10993.	60.	2.9	3270.	147.7	2320.
1.75	10.	31.8	5688.	1284.	12869.	14.	2.6	3616.	139.4	2370.
1.75	20.	24.6	5642.	1274.	12764.	25.	2.5	3616.	141.8	2370.
1.75	24.	20.1	5551.	1473.	12558.	28.	2.5	3616.	143.3	2370.
1.75	30.	15.7	5441.	1664.	12310.	32.	2.5	3616.	144.8	2370.
1.75	36.	12.9	5368.	1688.	12145.	35.	2.5	3616.	145.7	2370.
1.75	42.	10.9	5300.	1728.	11990.	38.	2.5	3616.	146.4	2370.
2.00	10.	27.1	6106.	1468.	13951.	20.	2.4	4015.	134.5	2428.
2.00	20.	20.9	6143.	1580.	13899.	26.	2.4	4015.	138.2	2428.
2.00	24.	16.7	6065.	1722.	13721.	30.	2.4	4015.	140.5	2428.
2.00	30.	12.6	6006.	1842.	13589.	36.	2.4	4015.	142.8	2428.
2.25	10.	25.0	6875.	1558.	15555.	21.	2.3	4466.	127.3	2492.
2.25	20.	18.3	6795.	1767.	15374.	28.	2.3	4466.	133.3	2492.
2.25	24.	14.4	6747.	1836.	15265.	34.	2.3	4466.	136.9	2492.
2.50	10.	23.6	7733.	1659.	17495.	21.	2.2	4972.	127.0	2565.
2.50	20.	16.5	7617.	1863.	17234.	30.	2.2	4972.	133.9	2565.
2.50	24.	12.6	7551.	1952.	17084.	37.	2.3	4972.	137.7	2565.
2.75	20.	15.5	8566.	1971.	19379.	32.	2.2	5530.	128.0	2546.



ROD NO. 66			PUMP DEPTH 2000.			PRODUCTION 150.				
PU-P DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.06	36.	30.2	7002.	261.	15842.	60.	6.9	3426.	147.0	2850.
1.06	42.	26.6	6877.	382.	15559.	70.	6.9	3426.	147.4	2850.
1.06	48.	23.5	6703.	576.	15165.	78.	6.8	3426.	147.7	2850.
1.06	54.	21.2	6625.	756.	14988.	86.	6.9	3426.	147.9	2850.
1.06	64.	17.9	6427.	1089.	14540.	98.	6.9	3426.	148.2	2850.
1.06	74.	15.5	6370.	1116.	14412.	115.	6.7	3426.	148.4	2850.
1.25	16.	48.3	6735.	445.	15237.	26.	4.6	3584.	144.3	2850.
1.25	20.	40.0	6655.	451.	15057.	32.	4.8	3584.	145.2	2850.
1.25	24.	33.0	6436.	816.	14561.	35.	4.4	3584.	146.1	2850.
1.25	30.	27.1	6311.	1032.	14279.	42.	4.4	3584.	146.8	2850.
1.25	36.	22.9	6141.	1232.	13895.	48.	4.4	3584.	147.3	2850.
1.25	42.	19.6	6006.	1470.	13587.	53.	4.4	3584.	147.6	2850.
1.25	48.	17.2	5924.	1578.	13402.	60.	4.4	3584.	147.9	2850.
1.25	54.	15.2	5890.	1579.	13326.	67.	4.3	3584.	148.2	2850.
1.25	64.	12.9	5833.	1594.	13197.	81.	4.2	3584.	148.4	2850.
1.25	74.	11.1	5777.	1660.	13069.	96.	4.2	3584.	148.7	2850.
1.50	16.	37.4	6331.	1114.	14324.	23.	3.3	3832.	140.6	2850.
1.50	20.	29.0	6163.	1439.	13943.	26.	3.1	3832.	142.8	2850.
1.50	24.	24.8	6059.	1551.	13707.	30.	3.1	3832.	143.8	2850.
1.50	30.	19.9	5908.	1831.	13366.	34.	3.2	3832.	145.0	2850.
1.50	36.	16.5	5826.	1907.	13180.	39.	3.2	3832.	145.9	2850.
1.50	42.	14.1	5784.	1886.	13086.	45.	3.1	3832.	146.5	2850.
1.50	48.	12.3	5744.	1879.	12996.	51.	3.1	3832.	146.9	2850.
1.50	54.	10.8	5691.	1961.	12875.	59.	3.1	3832.	147.3	2850.
1.75	16.	29.4	6380.	1617.	14433.	22.	2.6	4124.	140.2	2850.
1.75	20.	23.4	6306.	1642.	14268.	27.	2.6	4124.	142.2	2850.
1.75	24.	19.4	6163.	1922.	13988.	29.	2.6	4124.	143.6	2850.
1.75	30.	15.3	6073.	2048.	13740.	33.	2.7	4124.	144.9	2850.
1.75	36.	12.5	5976.	2027.	13521.	36.	2.6	4124.	145.8	2850.
1.75	42.	10.6	5927.	2114.	13410.	43.	2.6	4124.	146.5	2850.
2.00	16.	24.8	6759.	1755.	15291.	22.	2.4	4462.	135.9	2850.
2.00	20.	19.4	6663.	1965.	15074.	27.	2.4	4462.	139.0	2850.
2.00	24.	15.7	6612.	2079.	14959.	32.	2.4	4462.	141.1	2850.
2.00	30.	12.2	6516.	2174.	14743.	37.	2.4	4462.	143.1	2850.
2.25	16.	22.5	7305.	1884.	16527.	23.	2.3	4845.	129.6	2850.
2.25	20.	17.0	7235.	2105.	16368.	30.	2.3	4845.	134.6	2850.
2.25	24.	13.5	7190.	2166.	16266.	35.	2.3	4845.	137.8	2850.
2.50	16.	21.1	8038.	1961.	18185.	24.	2.2	5273.	129.5	2850.
2.50	20.	15.3	7947.	2130.	17979.	32.	2.3	5273.	135.2	2850.
2.75	16.	21.0	8923.	1971.	20187.	24.	2.2	5746.	120.4	2850.
2.75	20.	14.3	8784.	2171.	19874.	34.	2.2	5746.	129.7	2850.

ROD NO. 75			PUMP DEPTH 2000.			PRODUCTION 150.				
PU-P DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.06	30.	36.4	6427.	52.	10699.	47.	6.3	3198.	146.4	2635.
1.06	36.	31.2	6435.	282.	10707.	54.	6.6	3198.	146.9	2635.
1.06	42.	27.3	6305.	433.	10491.	62.	6.5	3198.	147.3	2635.
1.06	48.	23.9	6097.	637.	10145.	68.	6.2	3198.	147.6	2635.
1.06	54.	21.2	5980.	840.	9951.	74.	6.2	3198.	147.9	2635.
1.06	64.	17.9	5811.	1125.	9669.	84.	6.1	3198.	148.2	2635.
1.06	74.	15.5	5762.	1143.	9584.	98.	6.0	3198.	148.4	2635.
1.25	20.	40.5	6153.	605.	10238.	29.	4.3	3425.	145.3	2700.
1.25	24.	34.0	6049.	825.	10065.	33.	4.3	3425.	146.0	2700.
1.25	30.	27.4	5910.	1071.	9833.	38.	4.2	3425.	146.7	2700.
1.25	36.	23.2	5757.	1242.	9579.	43.	4.1	3425.	147.2	2700.
1.25	42.	19.9	5639.	1449.	9383.	48.	4.2	3425.	147.6	2700.
1.25	48.	17.4	5555.	1567.	9243.	54.	4.1	3425.	147.9	2700.
1.25	54.	15.4	5523.	1564.	9190.	60.	4.1	3425.	148.1	2700.
1.25	64.	13.0	5471.	1573.	9104.	72.	4.0	3425.	148.4	2700.
1.25	74.	11.2	5420.	1628.	9018.	84.	4.0	3425.	148.7	2700.
1.50	16.	37.4	6108.	1208.	10163.	22.	3.2	3780.	140.6	2801.
1.50	20.	30.3	6062.	1425.	10087.	26.	3.1	3780.	142.4	2801.
1.50	24.	25.3	5926.	1540.	9859.	29.	3.1	3780.	143.7	2801.
1.50	30.	20.2	5750.	1846.	9568.	32.	3.1	3780.	144.9	2801.
1.50	36.	16.7	5661.	1935.	9420.	37.	3.1	3780.	145.8	2801.
1.50	42.	14.2	5622.	1908.	9354.	42.	3.0	3780.	146.5	2801.
1.50	48.	12.4	5584.	1898.	9291.	47.	3.0	3780.	146.9	2801.
1.50	54.	11.0	5548.	1962.	9231.	54.	3.0	3780.	147.3	2801.
1.75	16.	30.4	6426.	1714.	10692.	22.	2.7	4198.	139.9	2919.
1.75	20.	24.0	6362.	1693.	10586.	27.	2.7	4198.	142.0	2919.
1.75	24.	19.7	6230.	1966.	10369.	29.	2.6	4198.	143.4	2919.
1.75	30.	15.4	6113.	2138.	10171.	33.	2.6	4198.	144.9	2919.
1.75	36.	12.7	6030.	2125.	10033.	36.	2.6	4198.	145.8	2919.
1.75	42.	10.6	5959.	2204.	9915.	41.	2.6	4198.	146.4	2919.
2.00	16.	25.3	7007.	1935.	11659.	22.	2.5	4684.	135.6	3059.
2.00	20.	19.7	6911.	2130.	11499.	28.	2.4	4684.	138.8	3059.
2.00	24.	15.7	6835.	2278.	11372.	33.	2.4	4684.	141.0	3059.
2.00	30.	12.2	6735.	2374.	11207.	37.	2.4	4684.	143.0	3059.
2.25	16.	22.2	7753.	2203.	12900.	24.	2.4	5232.	129.9	3214.
2.25	20.	16.7	7658.	2430.	12742.	31.	2.4	5232.	134.8	3214.
2.25	24.	13.2	7610.	2513.	12662.	36.	2.3	5232.	138.0	3214.

ROD NO. 76			PUMP DEPTH 2000.			PRODUCTION 150.				
PU-P DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.06	36.	30.4	7554.	309.	12570.	64.	7.5	3708.	147.0	3117.
1.06	42.	26.7	7414.	443.	12335.	74.	7.4	3708.	147.4	3117.
1.06	48.	23.6	7213.	660.	12002.	82.	7.2	3708.	147.7	3117.
1.06	54.	21.2	7115.	868.	11838.	91.	7.3	3708.	147.9	3117.
1.06	64.	17.9	6902.	1226.	11485.	104.	7.2	3708.	148.2	3117.
1.06	74.	15.5	6842.	1256.	11384.	121.	7.1	3708.	148.4	3117.
1.25	16.	49.5	7378.	479.	12277.	26.	5.1	3887.	140.2	3136.
1.25	20.	39.8	7073.	636.	11768.	33.	4.8	3887.	145.4	3136.
1.25	24.	33.1	6924.	938.	11522.	37.	4.7	3887.	146.1	3136.
1.25	30.	27.4	6839.	1133.	11380.	45.	4.8	3887.	146.8	3136.
1.25	36.	22.9	6605.	1389.	10989.	51.	4.6	3887.	147.3	3136.
1.25	42.	19.6	6458.	1646.	10745.	56.	4.6	3887.	147.6	3136.
1.25	48.	17.2	6370.	1765.	10599.	63.	4.6	3887.	147.9	3136.
1.25	54.	15.2	6333.	1768.	10538.	71.	4.5	3887.	148.2	3136.
1.25	64.	12.9	6272.	1788.	10436.	86.	4.4	3887.	148.4	3136.
1.25	74.	11.1	6211.	1858.	10334.	101.	4.4	3887.	148.7	3136.
1.50	16.	36.3	6740.	1373.	11214.	24.	3.3	4168.	140.9	3167.
1.50	20.	29.1	6650.	1640.	11065.	28.	3.2	4168.	142.7	3167.
1.50	24.	24.8	6514.	1792.	10838.	31.	3.2	4168.	143.8	3167.
1.50	30.	19.9	6360.	2059.	10582.	36.	3.3	4168.	145.0	3167.
1.50	36.	16.5	6266.	2148.	10426.	41.	3.3	4168.	145.9	3167.
1.50	42.	14.1	6222.	2129.	10352.	48.	3.2	4168.	146.5	3167.
1.50	48.	12.1	6162.	2139.	10253.	54.	3.1	4168.	146.9	3167.
1.50	54.	10.8	6122.	2212.	10187.	62.	3.2	4168.	147.3	3167.
1.75	16.	28.9	6861.	1862.	11417.	23.	2.7	4498.	140.3	3202.
1.75	20.	23.3	6766.	1943.	11257.	28.	2.7	4498.	142.3	3202.
1.75	24.	19.3	6627.	2240.	11027.	30.	2.7	4498.	143.6	3202.
1.75	30.	15.2	6508.	2345.	10829.	34.	2.7	4498.	145.0	3202.
1.75	36.	12.4	6420.	2316.	10682.	38.	2.6	4498.	145.9	3202.

1.75	42.	10.5	6372.	2414.	10603.	45.	2.7	4498.	146.5	3202.
2.00	16.	24.5	7275.	2038.	12104.	23.	2.4	4882.	136.1	3246.
2.00	20.	19.0	7152.	2298.	11901.	29.	2.4	4882.	139.2	3246.
2.00	24.	15.4	7079.	2436.	11779.	33.	2.4	4882.	141.2	3246.
2.00	30.	12.0	6975.	2506.	11605.	37.	2.4	4882.	143.2	3246.
2.25	16.	21.7	7859.	2280.	13077.	24.	2.4	5315.	130.3	3293.
2.25	20.	16.4	7763.	2492.	12916.	31.	2.3	5315.	135.1	3293.
2.25	24.	13.1	7716.	2586.	12839.	36.	2.4	5315.	138.1	3293.
2.50	16.	19.8	8602.	2422.	14313.	26.	2.3	5800.	130.8	3347.
2.50	20.	14.5	8518.	2590.	14173.	34.	2.3	5800.	136.0	3347.
2.75	16.	18.5	9506.	2552.	15818.	27.	2.2	6336.	123.7	3406.

ROD NO. 77			PUMP DEPTH 2000.			PRODUCTION 150.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.06	36.	30.0	9222.	382.	15344.	79.	8.8	4516.	147.0	3879.
1.06	42.	26.2	8979.	604.	14940.	90.	8.6	4516.	147.4	3879.
1.06	48.	23.4	8826.	805.	14685.	102.	8.6	4516.	147.7	3879.
1.06	54.	21.0	8680.	1090.	14442.	112.	8.6	4516.	147.9	3879.
1.06	64.	17.9	8470.	1485.	14093.	130.	8.7	4516.	148.2	3879.
1.06	74.	15.5	8393.	1532.	13965.	152.	8.5	4516.	148.5	3879.
1.25	16.	47.8	8775.	645.	14600.	33.	5.6	4675.	144.4	3879.
1.25	20.	39.8	8561.	724.	14278.	40.	5.6	4675.	145.3	3879.
1.25	24.	32.8	8344.	1151.	13883.	44.	5.4	4675.	146.2	3879.
1.25	30.	26.9	8171.	134.	13595.	53.	5.4	4675.	146.8	3879.
1.25	36.	22.9	7974.	1678.	13268.	62.	5.3	4675.	147.3	3879.
1.25	42.	19.6	7789.	2001.	12960.	69.	5.4	4675.	147.7	3879.
1.25	48.	17.2	7678.	2156.	12776.	78.	5.3	4675.	147.9	3879.
1.25	54.	15.2	7632.	2169.	12699.	88.	5.2	4675.	148.2	3879.
1.25	64.	12.9	7555.	2205.	12571.	106.	5.1	4675.	148.5	3879.
1.25	74.	11.1	7478.	2291.	12442.	126.	5.1	4675.	148.7	3879.
1.50	16.	35.7	7916.	1732.	13171.	27.	3.6	4922.	141.3	3879.
1.50	20.	28.6	7772.	2081.	12931.	31.	3.6	4922.	143.0	3879.
1.50	24.	24.1	7585.	2258.	12620.	36.	3.4	4922.	144.0	3879.
1.50	30.	19.4	7414.	2566.	12337.	41.	3.6	4922.	145.1	3879.
1.50	36.	16.2	7326.	2637.	12190.	48.	3.5	4922.	146.0	3879.
1.50	42.	13.8	7276.	2628.	12107.	56.	3.5	4922.	146.5	3879.
1.50	48.	12.1	7227.	2641.	12025.	65.	3.4	4922.	147.0	3879.
1.50	54.	10.7	7179.	2722.	11945.	75.	3.5	4922.	147.3	3879.
1.75	16.	27.8	7810.	2341.	12996.	25.	2.8	5215.	140.8	3879.
1.75	20.	22.4	7654.	2558.	12736.	29.	2.8	5215.	142.5	3879.
1.75	24.	18.7	7498.	2872.	12475.	32.	2.9	5215.	143.8	3879.
1.75	30.	14.8	7401.	2873.	12315.	37.	2.9	5215.	145.1	3879.
1.75	36.	12.2	7342.	2844.	12217.	44.	2.8	5215.	145.9	3879.
2.00	16.	23.2	8065.	2532.	13470.	26.	2.5	5553.	136.8	3879.
2.00	20.	18.3	7940.	2880.	13211.	30.	2.5	5553.	139.6	3879.
2.00	24.	15.0	7855.	2980.	13071.	34.	2.5	5553.	141.5	3879.
2.00	30.	11.7	7737.	3009.	12875.	38.	2.5	5553.	143.3	3879.
2.25	16.	19.4	8557.	2858.	14237.	26.	2.3	5936.	131.8	3879.
2.25	20.	15.3	8474.	3016.	14100.	33.	2.3	5936.	136.0	3879.
2.50	16.	18.0	9218.	2977.	15338.	28.	2.3	6364.	132.6	3879.
2.50	20.	13.5	9148.	3074.	15222.	36.	2.3	6364.	136.9	3879.
2.75	16.	16.6	10025.	2998.	16681.	30.	2.2	6837.	126.4	3879.

ROD NO. 44			PUMP DEPTH 2000.			PRODUCTION 200.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.06	74.	20.6	3791.	63.	19344.	73.	6.4	1747.	197.9	1266.
1.06	80.	17.8	3693.	222.	18841.	81.	6.4	1747.	198.2	1266.
1.06	100.	15.3	3658.	226.	18661.	95.	6.2	1747.	198.5	1266.
1.25	36.	30.5	3857.	82.	19678.	36.	4.5	1905.	196.4	1266.
1.25	42.	26.4	3762.	182.	19192.	39.	4.4	1905.	196.8	1266.
1.25	48.	23.3	3682.	275.	18783.	43.	4.4	1905.	197.2	1266.
1.25	54.	20.8	3625.	377.	18495.	46.	4.5	1905.	197.5	1266.
1.25	64.	17.7	3562.	486.	18174.	52.	4.6	1905.	197.9	1266.
1.25	74.	15.1	3520.	478.	17958.	60.	4.5	1905.	198.2	1266.
1.25	86.	13.0	3487.	473.	17790.	69.	4.4	1905.	198.4	1266.
1.25	100.	11.1	3449.	516.	17599.	82.	4.4	1905.	198.7	1266.
1.50	16.	50.1	4048.	153.	20652.	15.	3.8	2153.	187.6	1266.
1.50	30.	27.3	3932.	283.	20059.	31.	3.5	2153.	193.1	1266.
1.50	36.	23.3	3875.	345.	19772.	35.	3.6	2153.	194.2	1266.
1.50	42.	19.9	3796.	524.	19365.	38.	3.6	2153.	195.0	1266.
1.50	48.	17.3	3732.	630.	19041.	40.	3.6	2153.	195.7	1266.
1.50	54.	15.3	3694.	639.	18846.	42.	3.6	2153.	196.2	1266.
1.50	64.	12.6	3631.	620.	18526.	47.	3.5	2153.	196.8	1266.
1.50	74.	10.9	3599.	675.	18361.	55.	3.5	2153.	197.3	1266.
1.50	86.	9.3	3562.	749.	18175.	65.	3.6	2153.	197.7	1266.
1.50	100.	7.9	3522.	821.	17968.	78.	3.6	2153.	198.0	1266.
1.75	24.	30.8	4292.	412.	21900.	25.	3.3	2446.	189.7	1266.
1.75	30.	22.8	4246.	465.	21663.	32.	3.2	2446.	192.4	1266.
1.75	36.	18.6	4177.	616.	21309.	37.	3.2	2446.	193.8	1266.
1.75	42.	15.5	4149.	677.	21171.	41.	3.2	2446.	194.8	1266.
1.75	48.	13.4	4106.	729.	20950.	44.	3.2	2446.	195.5	1266.
1.75	54.	11.7	4065.	752.	20742.	47.	3.2	2446.	196.1	1266.
1.75	64.	9.7	4001.	802.	20414.	53.	3.2	2446.	196.8	1266.
2.00	20.	34.8	4842.	358.	24704.	19.	3.2	2784.	180.2	1266.
2.00	24.	28.0	4813.	473.	24559.	25.	3.1	2784.	184.1	1266.
2.00	30.	20.2	4739.	596.	24180.	34.	3.0	2784.	188.6	1266.
2.00	36.	16.0	4693.	704.	23946.	41.	3.1	2784.	190.9	1266.
2.00	42.	13.1	4663.	747.	23793.	46.	3.1	2784.	192.6	1266.
2.00	48.	11.1	4640.	806.	23672.	51.	3.1	2784.	193.7	1266.
2.25	24.	27.1	5508.	492.	28104.	25.	3.0	3167.	175.3	1266.
2.25	30.	18.5	5393.	635.	27515.	36.	2.9	3167.	183.1	1266.
2.25	36.	14.1	5335.	735.	27221.	45.	3.0	3167.	187.1	1266.
2.25	42.	11.4	5299.	762.	27034.	52.	3.0	3167.	189.6	1266.
2.50	30.	18.0	6181.	676.	31538.	36.	2.8	3595.	182.6	1266.
2.50	36.	13.2	6103.	770.	31136.	49.	2.9	3595.	187.1	1266.
2.75	36.	13.3	7000.	765.	35714.	50.	2.9	4068.	181.2	1266.

ROD NO. 54			PUMP DEPTH 2000.			PRODUCTION 200.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.06	74.	20.6	4385.	144.	14283.	81.	7.1	2054.	197.9	1556.
1.06	86.	17.8	4269.	333.	13907.	92.	7.1	2054.	198.2	1556.
1.06	100.	15.3	4228.	343.	13772.	108.	6.9	2054.	198.5	1556.
1.25	36.	30.5	4489.	193.	14623.	39.	5.1	2253.	196.3	1594.
1.25	42.	26.6	4389.	284.	14297.	44.	5.0	2253.	196.8	1594.
1.25	48.	23.3	4260.	404.	13942.	48.	4.9	2253.	197.2	1594.
1.25	54.	20.7	4211.	528.	13716.	52.	5.0	2253.	197.5	1594.
1.25	64.	17.5	4114.	671.	13399.	59.	5.0	2253.	197.9	1594.
1.25	74.	15.1	4080.	662.	13291.	68.	4.9	2253.	198.2	1594.
1.25	86.	13.0	4042.	663.	13165.	79.	4.8	2253.	198.4	1594.
1.25	100.	11.1	3997.	714.	13020.	93.	4.8	2253.	198.7	1594.
1.50	24.	34.1	4628.	387.	15076.	29.	3.9	2563.	191.5	1653.
1.50	30.	27.5	4568.	506.	14880.	34.	3.8	2563.	193.1	1653.
1.50	36.	22.8	4453.	652.	14506.	37.	3.8	2563.	194.3	1653.
1.50	42.	19.6	4366.	839.	14222.	40.	3.9	2563.	195.1	1653.
1.50	48.	16.9	4279.	934.	13939.	42.	3.9	2563.	195.8	1653.

1.50	54.	14.9	4250.	912.	13844.	46.	3.8	2563.	196.3	1653.
1.50	64.	12.5	4209.	889.	13711.	53.	3.7	2563.	196.9	1653.
1.50	74.	10.7	4171.	957.	13587.	62.	3.7	2563.	197.3	1653.
1.50	86.	9.2	4128.	1037.	13445.	74.	3.8	2563.	197.7	1653.
1.50	100.	7.9	4079.	1117.	13285.	89.	3.9	2563.	198.0	1653.
1.75	20.	35.5	5054.	498.	16461.	24.	3.7	2934.	188.2	1727.
1.75	24.	27.8	4974.	697.	16203.	29.	3.4	2934.	190.7	1727.
1.75	30.	21.8	4915.	769.	16009.	35.	3.4	2934.	192.7	1727.
1.75	36.	17.8	4809.	985.	15666.	39.	3.3	2934.	194.1	1727.
1.75	42.	15.0	4754.	1051.	15484.	42.	3.3	2934.	195.0	1727.
1.75	48.	13.0	4701.	1067.	15312.	45.	3.3	2934.	195.7	1727.
1.75	54.	11.4	4651.	1089.	15149.	48.	3.3	2934.	196.2	1727.
1.75	64.	9.5	4573.	1174.	14895.	54.	3.4	2934.	196.9	1727.
2.00	20.	30.3	5564.	844.	18124.	24.	3.3	3359.	182.7	1809.
2.00	24.	23.5	5537.	875.	18034.	30.	3.1	3359.	186.6	1809.
2.00	30.	18.1	5452.	1091.	17759.	38.	3.2	3359.	189.7	1809.
2.00	36.	14.5	5415.	1158.	17638.	44.	3.2	3359.	191.8	1809.
2.00	42.	12.0	5362.	1241.	17467.	49.	3.2	3359.	193.2	1809.
2.00	48.	10.3	5305.	1270.	17279.	53.	3.1	3359.	194.1	1809.

ROD NO. 55			PUMP DEPTH 2000.			PRODUCTION 200.				
PU-P DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.06	74.	20.6	5503.	94.	17926.	107.	8.7	2503.	198.0	1979.
1.06	86.	17.8	5349.	348.	17422.	120.	8.6	2503.	198.2	1979.
1.06	100.	15.3	5294.	372.	17243.	141.	8.4	2503.	198.5	1979.
1.25	36.	29.8	5358.	211.	17454.	47.	5.7	2661.	196.5	1979.
1.25	42.	26.1	5247.	314.	17092.	53.	5.6	2661.	196.9	1979.
1.25	48.	22.9	5109.	480.	16640.	58.	5.5	2661.	197.3	1979.
1.25	54.	20.3	5014.	645.	16332.	63.	5.6	2661.	197.5	1979.
1.25	64.	17.2	4907.	799.	15933.	63.	5.6	2661.	197.9	1979.
1.25	74.	14.8	4867.	798.	15855.	84.	5.5	2661.	198.2	1979.
1.25	86.	12.8	4820.	809.	15701.	99.	5.3	2661.	198.5	1979.
1.25	100.	11.0	4765.	878.	15522.	118.	5.4	2661.	198.7	1979.
1.50	16.	47.6	5387.	209.	17546.	21.	4.2	2909.	188.1	1979.
1.50	20.	40.8	5423.	277.	17663.	29.	4.5	2909.	189.8	1979.
1.50	24.	32.3	5222.	560.	17009.	31.	4.0	2909.	191.9	1979.
1.50	30.	26.1	5110.	704.	16646.	36.	3.9	2909.	193.4	1979.
1.50	36.	22.2	5008.	888.	16313.	40.	4.1	2909.	194.5	1979.
1.50	42.	19.1	4905.	1080.	15978.	43.	4.2	2909.	195.2	1979.
1.50	48.	16.6	4856.	1100.	15819.	48.	4.1	2909.	195.9	1979.
1.50	54.	14.7	4827.	1080.	15722.	53.	4.1	2909.	196.3	1979.
1.50	64.	12.3	4779.	1066.	15568.	63.	4.0	2909.	196.9	1979.
1.50	74.	10.5	4719.	1160.	15372.	74.	4.0	2909.	197.4	1979.
1.50	86.	9.0	4669.	1247.	15207.	88.	4.1	2909.	197.7	1979.
1.75	20.	33.0	5473.	703.	17828.	26.	3.6	3202.	189.0	1979.
1.75	24.	26.4	5401.	787.	17592.	31.	3.4	3202.	191.2	1979.
1.75	30.	20.9	5295.	973.	17247.	37.	3.4	3202.	193.0	1979.
1.75	36.	17.3	5185.	1187.	16891.	40.	3.5	3202.	194.3	1979.
1.75	42.	14.6	5124.	1221.	16690.	43.	3.5	3202.	195.1	1979.
1.75	48.	12.7	5065.	1208.	16497.	46.	3.4	3202.	195.8	1979.
1.75	54.	11.1	5001.	1257.	16288.	50.	3.4	3202.	196.3	1979.
1.75	64.	9.2	4951.	1365.	16126.	61.	3.4	3202.	196.9	1979.
2.00	16.	37.5	5902.	536.	19225.	19.	3.6	3540.	178.9	1979.
2.00	20.	28.3	5832.	938.	18998.	26.	3.2	3540.	183.9	1979.
2.00	24.	22.2	5787.	1021.	18852.	32.	3.1	3540.	187.4	1979.
2.00	30.	17.2	5694.	1214.	18548.	39.	3.1	3540.	190.2	1979.
2.00	36.	13.9	5652.	1305.	18412.	45.	3.2	3540.	192.1	1979.
2.00	42.	11.7	5586.	1355.	18196.	49.	3.2	3540.	193.3	1979.
2.00	48.	10.1	5524.	1397.	17995.	53.	3.2	3540.	194.3	1979.
2.25	16.	34.7	6491.	849.	21144.	19.	3.1	3923.	168.5	1979.
2.25	20.	25.7	6413.	1004.	20890.	27.	3.0	3923.	176.5	1979.
2.25	24.	20.0	6358.	1145.	20712.	34.	3.0	3923.	181.8	1979.
2.25	30.	15.0	6291.	1287.	20493.	43.	3.1	3923.	186.3	1979.
2.25	36.	11.9	6247.	1372.	20350.	50.	3.1	3923.	189.2	1979.
2.50	20.	25.0	7195.	1021.	23437.	27.	3.0	4351.	175.7	1979.
2.50	24.	18.6	7089.	1212.	23091.	36.	2.9	4351.	182.0	1979.
2.50	30.	13.4	7006.	1330.	22819.	47.	3.0	4351.	187.0	1979.
2.75	24.	18.0	7954.	1242.	25908.	36.	2.8	4824.	174.5	1979.
2.75	30.	12.4	7842.	1378.	25544.	51.	2.9	4824.	182.3	1979.

ROD NO. 64			PUMP DEPTH 2000.			PRODUCTION 200.				
PU-P DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.06	64.	23.9	5281.	42.	11949.	84.	7.9	2468.	197.6	1946.
1.06	74.	20.6	5143.	284.	11635.	93.	7.9	2468.	197.9	1946.
1.06	86.	17.8	5006.	507.	11327.	105.	7.9	2468.	198.2	1946.
1.06	100.	15.3	4958.	525.	11217.	124.	7.7	2468.	198.5	1946.
1.25	30.	36.2	5360.	117.	12126.	40.	5.6	2722.	195.7	2037.
1.25	36.	30.5	5322.	338.	12041.	45.	5.7	2722.	196.3	2037.
1.25	42.	26.5	5191.	456.	11743.	50.	5.5	2722.	196.8	2037.
1.25	48.	23.3	5062.	601.	11453.	55.	5.4	2722.	197.2	2037.
1.25	54.	20.7	4973.	756.	11250.	60.	5.5	2722.	197.5	2037.
1.25	64.	17.4	4859.	925.	10993.	68.	5.5	2722.	197.9	2037.
1.25	74.	15.0	4820.	922.	10905.	79.	5.4	2722.	198.2	2037.
1.25	86.	12.9	4774.	931.	10801.	91.	5.2	2722.	198.4	2037.
1.25	100.	11.1	4721.	992.	10681.	108.	5.3	2722.	198.7	2037.
1.50	20.	40.9	5659.	447.	12804.	29.	4.5	3122.	189.8	2180.
1.50	24.	33.3	5508.	666.	12461.	32.	4.2	3122.	191.7	2180.
1.50	30.	27.0	5407.	837.	12234.	37.	4.2	3122.	193.3	2180.
1.50	36.	22.5	5253.	1053.	11885.	40.	4.1	3122.	194.4	2180.
1.50	42.	19.1	5134.	1259.	11615.	44.	4.2	3122.	195.2	2180.
1.50	48.	16.6	5080.	1287.	11494.	48.	4.2	3122.	195.8	2180.
1.50	54.	14.7	5050.	1268.	11424.	53.	4.1	3122.	196.3	2180.
1.50	64.	12.4	5001.	1254.	11315.	62.	4.0	3122.	196.9	2180.
1.50	74.	10.6	4955.	1336.	11210.	73.	4.1	3122.	197.3	2180.
1.50	86.	9.0	4887.	1437.	11077.	88.	4.1	3122.	197.7	2180.
1.75	20.	31.8	5992.	1007.	13556.	28.	3.6	3594.	189.5	2349.
1.75	24.	26.3	5949.	1013.	13460.	34.	3.6	3594.	191.3	2349.
1.75	30.	20.8	5794.	1287.	13109.	38.	3.6	3594.	193.1	2349.
1.75	36.	17.1	5668.	1502.	12823.	41.	3.6	3594.	194.3	2349.
1.75	42.	14.5	5598.	1513.	12666.	44.	3.6	3594.	195.2	2349.
1.75	48.	12.4	5526.	1469.	12502.	47.	3.5	3594.	195.8	2349.
1.75	54.	11.0	5491.	1559.	12422.	54.	3.5	3594.	196.3	2349.
1.75	64.	9.2	5435.	1671.	12297.	65.	3.5	3594.	196.9	2349.

ROD NO. 65			PUMP DEPTH 2000.			PRODUCTION 200.				
PU-P DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.06	74.	20.6	6063.	169.	13718.	115.	9.4	2792.	197.9	2252.
1.06	86.	17.8	5893.	450.	13332.	130.	9.3	2792.	198.2	2252.
1.06	100.	15.3	5832.	480.	13194.	153.	9.1	2792.	198.5	2252.
1.25	30.	35.3	5934.	60.	13539.	45.	6.1	2977.	195.8	2278.
1.25	36.	30.1	5962.	275.	13488.	51.	6.3	2977.	196.5	2278.
1.25	42.	26.1	5801.	420.	13125.	58.	6.1	2977.	196.9	2278.
1.25	48.	22.9	5646.	604.	12775.	63.	5.9	2977.	197.3	2278.
1.25	54.	20.3	5541.	789.	12536.	68.	6.0	2977.	197.5	2278.
1.25	64.	17.2	5421.	963.	12266.	79.	6.0	2977.	197.9	2278.

1.25	74.	14.8	5377.	966.	12166.	91.	5.8	2977.	198.2	2278.
1.25	86.	12.8	5325.	983.	12047.	107.	5.7	2977.	198.5	2278.
1.25	100.	11.0	5263.	1058.	11908.	128.	5.8	2977.	198.7	2278.
1.50	16.	49.5	6105.	367.	13811.	24.	4.9	3270.	187.7	2320.
1.50	20.	39.9	5955.	451.	13473.	30.	4.6	3270.	190.0	2320.
1.50	24.	32.3	5788.	735.	13095.	33.	4.2	3270.	192.0	2320.
1.50	30.	26.5	5694.	890.	12883.	38.	4.3	3270.	193.4	2320.
1.50	36.	22.2	5536.	1116.	12525.	42.	4.3	3270.	194.5	2320.
1.50	42.	19.0	5422.	1310.	12268.	47.	4.4	3270.	195.3	2320.
1.50	48.	16.5	5370.	1331.	12149.	52.	4.3	3270.	195.9	2320.
1.50	54.	14.6	5337.	1315.	12074.	58.	4.3	3270.	196.4	2320.
1.50	64.	12.2	5267.	1319.	11917.	67.	4.1	3270.	196.9	2320.
1.50	74.	10.5	5219.	1407.	11807.	80.	4.2	3270.	197.4	2320.
1.50	86.	9.0	5162.	1501.	11678.	96.	4.3	3270.	197.7	2320.
1.75	20.	31.5	6030.	1023.	13643.	29.	3.6	3616.	189.5	2370.
1.75	24.	26.1	5985.	1024.	13540.	34.	3.6	3616.	191.3	2370.
1.75	30.	20.7	5829.	1304.	13189.	38.	3.6	3616.	193.1	2370.
1.75	36.	17.0	5703.	1516.	12903.	41.	3.6	3616.	194.3	2370.
1.75	42.	14.4	5633.	1524.	12744.	45.	3.6	3616.	195.2	2370.
1.75	48.	12.4	5564.	1500.	12587.	48.	3.5	3616.	195.8	2370.
1.75	54.	11.0	5528.	1571.	12507.	54.	3.5	3616.	196.3	2370.
1.75	64.	9.2	5472.	1684.	12381.	66.	3.6	3616.	196.9	2370.
2.00	16.	36.3	6571.	968.	14866.	22.	3.8	4015.	179.4	2428.
2.00	20.	26.4	6452.	1249.	14597.	29.	3.3	4015.	185.0	2428.
2.00	24.	21.6	6391.	1349.	14460.	34.	3.3	4015.	187.7	2428.
2.00	30.	16.6	6282.	1577.	14212.	41.	3.2	4015.	190.5	2428.
2.00	36.	13.6	6200.	1674.	14028.	45.	3.2	4015.	192.3	2428.
2.00	42.	11.4	6125.	1712.	13858.	49.	3.2	4015.	193.5	2428.
2.25	16.	33.1	7195.	1231.	16279.	22.	3.5	4466.	169.9	2492.
2.25	20.	23.6	7077.	1404.	16012.	30.	3.1	4466.	178.6	2492.
2.25	24.	18.8	7001.	1649.	15839.	37.	3.2	4466.	183.0	2492.
2.25	30.	14.2	6933.	1743.	15685.	45.	3.1	4466.	187.1	2492.
2.25	36.	11.3	6891.	1854.	15589.	52.	3.2	4466.	189.7	2492.
2.50	16.	30.7	8008.	1448.	18117.	23.	3.2	4972.	170.2	2565.
2.50	20.	21.5	7857.	1573.	17776.	32.	3.0	4972.	179.2	2565.
2.50	24.	16.6	7780.	1755.	17602.	40.	3.0	4972.	183.9	2565.
2.50	30.	12.3	7709.	1842.	17441.	50.	3.1	4972.	188.1	2565.
2.75	20.	19.9	8791.	1720.	19888.	34.	3.0	5530.	171.7	2646.
2.75	24.	15.0	8693.	1864.	19668.	44.	3.0	5530.	178.7	2646.

ROD NO. 66			PUMP DEPTH 2000.				PRODUCTION 200.			
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.06	74.	20.6	7583.	138.	17156.	148.	11.5	3426.	198.0	2850.
1.06	86.	17.8	7361.	506.	16653.	167.	11.4	3426.	198.2	2850.
1.06	100.	15.3	7281.	555.	16474.	197.	11.1	3426.	198.5	2850.
1.25	30.	34.9	7280.	42.	16470.	55.	7.1	3584.	195.9	2850.
1.25	36.	29.3	7151.	381.	16179.	62.	7.1	3584.	196.6	2850.
1.25	42.	25.8	7011.	513.	15862.	71.	7.0	3584.	197.0	2850.
1.25	48.	22.9	6885.	693.	15576.	79.	7.0	3584.	197.3	2850.
1.25	54.	20.3	6749.	931.	15268.	86.	7.1	3584.	197.6	2850.
1.25	64.	17.2	6594.	1161.	14920.	99.	7.0	3584.	197.9	2850.
1.25	74.	14.8	6538.	1178.	14791.	115.	6.8	3584.	198.2	2850.
1.25	86.	12.8	6470.	1210.	14638.	136.	6.6	3584.	198.5	2850.
1.25	100.	11.0	6391.	1302.	14458.	163.	6.8	3584.	198.7	2850.
1.50	16.	46.8	7046.	532.	15940.	28.	5.0	3832.	188.5	2850.
1.50	20.	38.1	6884.	654.	15575.	34.	4.8	3832.	190.5	2850.
1.50	24.	31.8	6791.	940.	15364.	36.	4.8	3832.	192.3	2850.
1.50	30.	25.7	6581.	1191.	14888.	43.	4.6	3832.	193.6	2850.
1.50	36.	21.5	6431.	1410.	14580.	49.	4.7	3832.	194.6	2850.
1.50	42.	18.5	6304.	1639.	14262.	54.	4.8	3832.	195.4	2850.
1.50	48.	16.2	6260.	1631.	14164.	61.	4.7	3832.	195.9	2850.
1.50	54.	14.4	6223.	1622.	14080.	69.	4.6	3832.	196.4	2850.
1.50	64.	12.1	6163.	1633.	13943.	82.	4.5	3832.	197.0	2850.
1.50	74.	10.4	6103.	1733.	13808.	98.	4.6	3832.	197.4	2850.
1.50	86.	9.0	6033.	1839.	13649.	117.	4.7	3832.	197.8	2850.
1.75	16.	39.1	6978.	761.	15788.	26.	4.1	4124.	186.9	2850.
1.75	20.	29.6	6777.	1327.	15333.	31.	3.7	4124.	190.2	2850.
1.75	24.	25.0	6680.	1380.	15114.	36.	3.7	4124.	191.7	2850.
1.75	30.	19.9	6504.	1739.	14715.	40.	3.8	4124.	193.3	2850.
1.75	36.	16.5	6382.	1886.	14438.	43.	3.8	4124.	194.5	2850.
1.75	42.	14.0	6331.	1849.	14323.	49.	3.8	4124.	195.3	2850.
1.75	48.	12.2	6287.	1829.	14225.	55.	3.7	4124.	195.9	2850.
1.75	54.	10.8	6246.	1916.	14132.	64.	3.7	4124.	196.4	2850.
2.00	16.	33.3	7176.	1346.	16236.	25.	3.6	4462.	181.0	2850.
2.00	20.	24.9	7070.	1475.	15995.	31.	3.3	4462.	185.9	2850.
2.00	24.	20.5	6981.	1663.	15794.	37.	3.3	4462.	188.4	2850.
2.00	30.	16.1	6841.	1936.	15477.	42.	3.3	4462.	190.8	2850.
2.00	36.	13.2	6751.	1982.	15273.	46.	3.3	4462.	192.5	2850.
2.00	42.	11.2	6665.	2020.	15080.	51.	3.3	4462.	193.7	2850.
2.25	16.	29.4	7617.	1616.	17233.	25.	3.2	4845.	173.0	2850.
2.25	20.	21.6	7547.	1758.	17074.	32.	3.1	4845.	180.3	2850.
2.25	24.	17.6	7465.	1940.	16889.	39.	3.1	4845.	184.0	2850.
2.25	30.	13.3	7402.	2076.	16747.	47.	3.1	4845.	187.8	2850.
2.50	16.	27.7	8529.	1667.	18645.	25.	3.1	5273.	173.3	2850.
2.50	20.	19.8	8206.	1858.	18566.	35.	3.0	5273.	180.9	2850.
2.50	24.	15.6	8138.	2012.	18411.	42.	3.1	5273.	184.9	2850.
2.75	16.	27.0	9192.	1688.	20795.	25.	3.0	5746.	161.7	2850.
2.75	20.	18.5	9020.	1932.	20408.	36.	2.9	5746.	173.7	2850.
2.75	24.	14.2	8935.	2052.	20214.	46.	3.0	5746.	179.9	2850.

ROD NO. 75			PUMP DEPTH 2000.				PRODUCTION 200.			
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.06	74.	20.6	6802.	310.	11318.	126.	10.2	3198.	197.9	2635.
1.06	86.	17.8	6611.	625.	11001.	142.	10.1	3198.	198.2	2635.
1.06	100.	15.3	6543.	662.	10888.	168.	9.8	3198.	198.5	2635.
1.25	30.	35.3	6755.	188.	11240.	49.	6.6	3425.	195.8	2700.
1.25	36.	30.5	6785.	389.	11289.	57.	7.0	3425.	196.4	2700.
1.25	42.	26.1	6546.	598.	10892.	63.	6.6	3425.	196.9	2700.
1.25	48.	22.9	6371.	807.	10601.	69.	6.4	3425.	197.2	2700.
1.25	54.	20.3	6252.	1015.	10402.	75.	6.5	3425.	197.5	2700.
1.25	64.	17.2	6117.	1215.	10177.	87.	6.4	3425.	197.9	2700.
1.25	74.	14.8	6067.	1225.	10095.	101.	6.3	3425.	198.2	2700.
1.25	86.	12.8	6007.	1248.	9995.	118.	6.1	3425.	198.5	2700.
1.25	100.	11.0	5938.	1331.	9879.	141.	6.2	3425.	198.7	2700.
1.50	16.	50.2	7015.	613.	11672.	28.	5.5	3780.	187.5	2801.
1.50	20.	38.5	6647.	759.	11060.	32.	4.7	3780.	190.4	2801.
1.50	24.	32.3	6574.	990.	10938.	36.	4.6	3780.	191.9	2801.
1.50	30.	26.5	6435.	1210.	10708.	41.	4.6	3780.	193.4	2801.
1.50	36.	22.1	6267.	1422.	10428.	47.	4.6	3780.	194.5	2801.
1.50	42.	18.8	6130.	1652.	10200.	51.	4.7	3780.	195.3	2801.
1.50	48.	16.4	6075.	1672.	10109.	57.	4.6	3780.	195.9	2801.
1.50	54.	14.4	6019.	1669.	10015.	64.	4.4	3780.	196.4	2801.
1.50	64.	12.1	5963.	1673.	9921.	75.	4.3	3780.	197.0	2801.
1.50	74.	10.5	5907.	1769.	9829.	89.	4.4	3780.	197.4	2801.
1.50	86.	9.0	5842.	1869.	9721.	107.	4.5	3780.	197.8	2801.
1.75	16.	40.1	7025.	659.	11689.	26.	4.2	4198.	186.6	2919.
1.75	20.	30.6	6841.	1413.	11383.	32.	3.8	4198.	189.8	2919.
1.75	24.	25.7	6753.	1443.	11236.	36.	3.8	4198.	191.5	2919.
1.75	30.	20.4	6562.	1786.	10918.	40.	3.8	4198.	193.2	2919.

1.75	36.	16.8	6423.	1976.	10688.	43.	3.8	4198.	194.4	2919.
1.75	42.	14.1	6347.	1954.	10562.	47.	3.7	4198.	195.3	2919.
1.75	48.	12.3	6305.	1930.	10491.	53.	3.7	4198.	195.9	2919.
1.75	54.	10.9	6265.	2014.	10424.	61.	3.7	4198.	196.4	2919.
2.00	16.	33.0	7388.	1566.	12293.	25.	3.5	4684.	181.3	3059.
2.00	20.	25.4	7325.	1654.	12187.	32.	3.4	4684.	185.6	3059.
2.00	24.	20.7	7219.	1845.	12012.	37.	3.4	4684.	188.2	3059.
2.00	30.	16.2	7066.	2135.	11757.	42.	3.4	4684.	190.8	3059.
2.00	36.	13.2	6973.	2182.	11602.	46.	3.4	4684.	192.5	3059.
2.00	42.	11.2	6885.	2219.	11456.	50.	3.4	4684.	193.7	3059.
2.25	16.	27.9	8046.	1928.	13388.	26.	3.2	5232.	174.4	3214.
2.25	20.	21.5	8006.	2048.	13322.	34.	3.2	5232.	180.3	3214.
2.25	24.	17.4	7908.	2248.	13159.	40.	3.2	5232.	184.2	3214.
2.25	30.	13.2	7822.	2400.	13015.	47.	3.2	5232.	187.9	3214.

ROD NO. 76			PUMP DEPTH 2000.			PRODUCTION 200.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.06	74.	20.6	8144.	203.	13551.	156.	12.2	3708.	198.0	3117.
1.06	86.	17.8	7906.	600.	13154.	177.	12.1	3708.	198.2	3117.
1.06	100.	15.3	7820.	654.	13012.	209.	11.7	3708.	198.5	3117.
1.25	30.	35.0	7835.	102.	13037.	58.	7.5	3887.	195.9	3136.
1.25	36.	29.8	7789.	395.	12961.	66.	7.7	3887.	196.5	3136.
1.25	42.	26.1	7622.	551.	12682.	76.	7.6	3887.	197.0	3136.
1.25	48.	22.9	7407.	807.	12324.	83.	7.4	3887.	197.3	3136.
1.25	54.	20.3	7260.	1064.	12080.	91.	7.4	3887.	197.6	3136.
1.25	64.	17.2	7094.	1315.	11803.	105.	7.4	3887.	197.9	3136.
1.25	74.	14.8	7032.	1336.	11701.	122.	7.2	3887.	198.2	3136.
1.25	86.	12.8	6959.	1373.	11579.	145.	7.0	3887.	198.5	3136.
1.25	100.	11.0	6874.	1472.	11437.	173.	7.1	3887.	198.7	3136.
1.50	16.	47.6	7681.	591.	12780.	30.	5.4	4168.	188.2	3167.
1.50	20.	38.1	7424.	787.	12353.	35.	5.1	4168.	190.7	3167.
1.50	24.	31.8	7323.	1101.	12184.	39.	5.0	4168.	192.3	3167.
1.50	30.	25.8	7107.	1350.	11826.	46.	4.8	4168.	193.6	3167.
1.50	36.	21.6	6934.	1596.	11537.	52.	4.9	4168.	194.6	3167.
1.50	42.	18.5	6787.	1854.	11293.	58.	5.0	4168.	195.4	3167.
1.50	48.	16.1	6742.	1847.	11217.	65.	4.9	4168.	196.0	3167.
1.50	54.	14.3	6702.	1841.	11151.	73.	4.8	4168.	196.4	3167.
1.50	64.	12.1	6636.	1857.	11042.	87.	4.7	4168.	197.0	3167.
1.50	74.	10.4	6572.	1962.	10935.	104.	4.8	4168.	197.4	3167.
1.50	86.	9.0	6495.	2074.	10808.	125.	4.9	4168.	197.8	3167.
1.75	16.	39.1	7555.	1082.	12571.	29.	4.3	4498.	187.0	3202.
1.75	20.	29.7	7318.	1551.	12176.	33.	3.9	4498.	190.1	3202.
1.75	24.	24.9	7182.	1649.	11951.	37.	3.8	4498.	191.7	3202.
1.75	30.	19.9	6985.	2035.	11623.	41.	3.9	4498.	193.3	3202.
1.75	36.	16.4	6864.	2157.	11421.	45.	4.0	4498.	194.5	3202.
1.75	42.	14.0	6814.	2120.	11338.	52.	3.9	4498.	195.3	3202.
1.75	48.	12.2	6768.	2107.	11261.	59.	3.8	4498.	195.9	3202.
1.75	54.	10.8	6724.	2196.	11187.	67.	3.8	4498.	196.4	3202.
2.00	16.	31.5	7671.	1748.	12763.	26.	3.5	4882.	182.0	3246.
2.00	20.	24.7	7619.	1725.	12678.	33.	3.4	4882.	186.0	3246.
2.00	24.	20.3	7488.	2018.	12459.	38.	3.4	4882.	188.5	3246.
2.00	30.	15.9	7334.	2276.	12203.	42.	3.4	4882.	191.0	3246.
2.00	36.	13.1	7235.	2296.	12039.	47.	3.4	4882.	192.6	3246.
2.00	42.	11.1	7142.	2340.	11883.	51.	3.4	4882.	193.7	3246.
2.25	16.	27.3	8169.	1971.	13593.	26.	3.2	5315.	175.0	3293.
2.25	20.	21.1	8115.	2111.	13502.	34.	3.2	5315.	180.7	3293.
2.25	24.	17.0	8011.	2315.	13330.	40.	3.2	5315.	184.4	3293.
2.25	30.	13.1	7926.	2457.	13188.	47.	3.2	5315.	188.0	3293.
2.50	16.	25.3	8805.	2075.	14783.	28.	3.1	5800.	175.6	3347.
2.50	20.	18.9	8605.	2351.	14652.	37.	3.1	5800.	181.8	3347.
2.50	24.	14.9	8737.	2454.	14538.	44.	3.1	5800.	185.6	3347.
2.75	16.	23.9	9785.	2181.	16281.	28.	3.0	6336.	166.2	3406.
2.75	20.	17.1	9657.	2441.	16069.	40.	3.0	6336.	175.7	3406.
2.75	24.	13.3	9583.	2551.	15945.	48.	3.1	6336.	181.1	3406.

ROD NO. 77			PUMP DEPTH 2000.			PRODUCTION 200.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.06	74.	20.4	9960.	272.	16572.	195.	14.6	4516.	198.0	3879.
1.06	86.	17.8	9741.	693.	16207.	223.	14.6	4516.	198.2	3879.
1.06	100.	15.3	9633.	770.	16028.	264.	14.2	4516.	198.5	3879.
1.25	30.	34.8	9496.	91.	15801.	70.	8.9	4675.	195.9	3879.
1.25	36.	29.1	9304.	555.	15481.	79.	8.8	4675.	196.6	3879.
1.25	42.	25.6	9122.	728.	15178.	91.	8.7	4675.	197.0	3879.
1.25	48.	22.6	8927.	1002.	14854.	102.	8.6	4675.	197.3	3879.
1.25	54.	20.3	8800.	1268.	14643.	112.	8.8	4675.	197.6	3879.
1.25	64.	17.2	8590.	1589.	14294.	129.	8.7	4675.	198.0	3879.
1.25	74.	14.8	8513.	1626.	14165.	152.	8.4	4675.	198.2	3879.
1.25	86.	12.8	8421.	1682.	14012.	180.	8.2	4675.	198.5	3879.
1.25	100.	11.0	8313.	1803.	13822.	216.	8.3	4675.	198.7	3879.
1.50	16.	46.2	8999.	776.	14794.	38.	5.9	4922.	188.7	3879.
1.50	20.	36.9	8663.	1087.	14414.	40.	5.5	4922.	191.0	3879.
1.50	24.	30.8	8569.	1454.	14258.	45.	5.5	4922.	192.5	3879.
1.50	30.	25.4	8354.	1661.	13900.	54.	5.4	4922.	193.8	3879.
1.50	36.	21.2	8135.	1985.	13535.	61.	5.4	4922.	194.7	3879.
1.50	42.	18.4	7995.	2262.	13304.	69.	5.5	4922.	195.4	3879.
1.50	48.	16.1	7947.	2252.	13223.	78.	5.4	4922.	196.0	3879.
1.50	54.	14.3	7899.	2255.	13143.	88.	5.3	4922.	196.5	3879.
1.50	64.	11.9	7792.	2309.	12965.	106.	5.2	4922.	197.0	3879.
1.50	74.	10.3	7715.	2427.	12837.	126.	5.3	4922.	197.4	3879.
1.50	86.	8.9	7623.	2555.	12683.	152.	5.5	4922.	197.8	3879.
1.75	16.	36.6	8536.	1592.	14203.	31.	4.3	5215.	187.8	3879.
1.75	20.	28.5	8328.	2000.	13858.	35.	4.0	5215.	190.5	3879.
1.75	24.	24.3	8182.	2166.	13615.	40.	4.1	5215.	191.9	3879.
1.75	30.	19.5	7984.	2549.	13284.	45.	4.3	5215.	193.5	3879.
1.75	36.	16.2	7884.	2615.	13118.	52.	4.2	5215.	194.6	3879.
1.75	42.	13.8	7827.	2588.	13024.	60.	4.1	5215.	195.4	3879.
1.75	48.	12.0	7773.	2593.	12934.	69.	4.0	5215.	196.0	3879.
1.75	54.	10.6	7700.	2706.	12813.	79.	4.0	5215.	196.5	3879.
2.00	16.	29.4	8574.	2203.	14265.	29.	3.5	5553.	183.2	3879.
2.00	20.	23.7	8488.	2231.	14123.	36.	3.5	5553.	186.6	3879.
2.00	24.	19.7	8323.	2604.	13848.	39.	3.6	5553.	188.9	3879.
2.00	30.	15.5	8167.	2786.	13589.	44.	3.6	5553.	191.2	3879.
2.00	36.	12.7	8042.	2755.	13382.	49.	3.5	5553.	192.8	3879.
2.00	42.	10.8	7925.	2857.	13282.	58.	3.5	5553.	193.9	3879.
2.25	16.	25.5	8985.	2361.	14951.	29.	3.2	5936.	176.8	3879.
2.25	20.	20.0	8868.	2600.	14756.	37.	3.2	5936.	181.8	3879.
2.25	24.	16.3	8768.	2810.	14589.	42.	3.2	5936.	185.2	3879.
2.25	30.	12.7	8640.	2921.	14376.	48.	3.2	5936.	188.4	3879.
2.50	16.	22.8	9556.	2554.	15899.	30.	3.1	6364.	177.8	3879.
2.50	20.	17.6	9459.	2842.	15738.	39.	3.1	6364.	183.0	3879.
2.50	24.	14.1	9404.	2935.	15647.	46.	3.1	6364.	186.4	3879.
2.75	16.	21.5	10317.	2644.	17167.	32.	3.0	6837.	169.7	3879.
2.75	20.	15.9	10218.	2896.	17002.	42.	3.0	6837.	177.5	3879.

ROD NO. 44			PUMP DEPTH 2000.				PRODUCTION 250.			
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.25	64.	21.7	3963.	114.	20221.	64.	6.2	1905.	247.4	1266.
1.25	74.	18.8	3872.	281.	19755.	71.	6.3	1905.	247.7	1266.
1.25	86.	16.2	3826.	302.	19519.	81.	6.3	1905.	248.0	1266.
1.25	100.	13.9	3768.	299.	19328.	94.	6.1	1905.	248.3	1266.
1.25	120.	11.6	3736.	334.	19060.	115.	6.0	1905.	248.6	1266.
1.50	36.	26.0	4165.	130.	21251.	40.	4.6	2153.	243.0	1266.
1.50	42.	24.2	4089.	197.	20867.	44.	4.6	2153.	243.9	1266.
1.50	48.	21.2	4013.	363.	20477.	47.	4.7	2153.	244.7	1266.
1.50	54.	18.6	3937.	514.	20087.	49.	4.8	2153.	245.3	1266.
1.50	64.	15.7	3875.	535.	19770.	54.	4.8	2153.	246.1	1266.
1.50	74.	13.5	3842.	510.	19600.	61.	4.7	2153.	246.6	1266.
1.50	86.	11.6	3804.	530.	19409.	71.	4.7	2153.	247.1	1266.
1.50	100.	9.9	3763.	611.	19198.	85.	4.7	2153.	247.5	1266.
1.50	120.	8.2	3706.	708.	18910.	105.	4.8	2153.	248.0	1266.
1.75	16.	50.7	4544.	137.	23182.	16.	4.4	2446.	233.5	1266.
1.75	30.	27.8	4459.	281.	22749.	35.	4.1	2446.	240.7	1266.
1.75	36.	22.7	4419.	313.	22544.	41.	4.1	2446.	242.4	1266.
1.75	42.	19.2	4352.	463.	22203.	46.	4.1	2446.	243.6	1266.
1.75	48.	16.6	4295.	575.	21913.	49.	4.1	2446.	244.5	1266.
1.75	54.	14.6	4254.	617.	21702.	53.	4.1	2446.	245.1	1266.
1.75	64.	12.1	4188.	634.	21367.	57.	4.1	2446.	246.0	1266.
1.75	74.	10.3	4126.	690.	21049.	63.	4.1	2446.	246.6	1266.
1.75	86.	8.8	4062.	772.	20725.	72.	4.2	2446.	247.1	1266.
2.00	24.	33.4	4967.	256.	25446.	26.	4.2	2784.	230.9	1266.
2.00	30.	24.0	4901.	386.	25006.	36.	3.8	2784.	236.3	1266.
2.00	36.	19.3	4854.	565.	24765.	44.	3.9	2784.	239.0	1266.
2.00	42.	16.1	4820.	621.	24593.	50.	3.9	2784.	240.9	1266.
2.00	48.	13.7	4795.	675.	24465.	55.	3.9	2784.	242.2	1266.
2.00	54.	11.8	4767.	745.	24324.	61.	3.9	2784.	243.3	1266.
2.00	64.	9.7	4698.	779.	23972.	67.	3.9	2784.	244.5	1266.
2.25	24.	31.9	5652.	344.	28637.	26.	3.9	3167.	221.1	1266.
2.25	30.	22.5	5501.	458.	28268.	36.	3.7	3167.	229.5	1266.
2.25	36.	17.4	5479.	601.	27956.	48.	3.8	3167.	234.1	1266.
2.25	42.	14.1	5438.	666.	27744.	56.	3.8	3167.	237.1	1266.
2.25	48.	11.8	5407.	705.	27586.	63.	3.8	3167.	239.2	1266.
2.25	54.	10.1	5380.	771.	27450.	69.	3.8	3167.	240.8	1266.
2.50	30.	22.3	6340.	469.	32346.	38.	3.7	3595.	228.5	1266.
2.50	36.	16.2	6234.	638.	31808.	51.	3.7	3595.	234.3	1266.
2.50	42.	12.7	6175.	713.	31505.	62.	3.7	3595.	237.6	1266.
2.50	48.	10.5	6136.	767.	31307.	70.	3.7	3595.	239.8	1266.
2.75	36.	16.0	7118.	647.	36315.	51.	3.6	4068.	227.3	1266.
2.75	42.	12.3	7045.	736.	35942.	68.	3.7	4068.	232.6	1266.

ROD NO. 54			PUMP DEPTH 2000.				PRODUCTION 250.			
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.00	120.	15.9	4720.	42.	15374.	154.	10.1	2054.	248.4	1556.
1.25	54.	25.4	4731.	32.	15409.	64.	6.8	2253.	246.9	1594.
1.25	64.	21.7	4623.	206.	15060.	72.	6.9	2253.	247.4	1594.
1.25	74.	18.6	4502.	418.	14664.	80.	7.0	2253.	247.7	1594.
1.25	86.	16.2	4448.	448.	14488.	92.	6.9	2253.	248.1	1594.
1.25	100.	13.9	4404.	452.	14344.	106.	6.7	2253.	248.3	1594.
1.25	120.	11.6	4347.	497.	14141.	131.	6.6	2253.	248.6	1594.
1.50	30.	33.1	4933.	182.	16068.	39.	5.2	2563.	241.8	1653.
1.50	36.	28.0	4876.	306.	15883.	44.	5.2	2563.	243.0	1653.
1.50	42.	24.0	4743.	447.	15448.	47.	5.1	2563.	244.0	1653.
1.50	48.	21.0	4647.	636.	15138.	50.	5.2	2563.	244.7	1653.
1.50	54.	18.6	4558.	786.	14847.	53.	5.3	2563.	245.3	1653.
1.50	64.	15.6	4510.	765.	14692.	61.	5.1	2563.	246.1	1653.
1.50	74.	13.4	4471.	747.	14565.	70.	5.0	2563.	246.7	1653.
1.50	86.	11.5	4427.	780.	14420.	81.	5.0	2563.	247.1	1653.
1.50	100.	9.7	4362.	882.	14209.	97.	5.0	2563.	247.6	1653.
1.50	120.	8.1	4296.	968.	13992.	121.	5.1	2563.	248.0	1653.
1.75	16.	51.0	5472.	241.	17623.	20.	5.4	2934.	233.1	1727.
1.75	24.	34.0	5270.	379.	17167.	32.	4.5	2934.	238.6	1727.
1.75	30.	26.6	5221.	478.	17007.	40.	4.4	2934.	241.1	1727.
1.75	36.	22.0	5121.	626.	16680.	45.	4.4	2934.	242.7	1727.
1.75	42.	18.6	5002.	874.	16293.	48.	4.4	2934.	243.8	1727.
1.75	48.	16.1	4943.	934.	16102.	51.	4.4	2934.	244.6	1727.
1.75	54.	14.2	4892.	943.	15935.	54.	4.4	2934.	245.3	1727.
1.75	64.	11.8	4812.	935.	15675.	59.	4.4	2934.	246.1	1727.
1.75	74.	10.0	4757.	1043.	15496.	69.	4.3	2934.	246.6	1727.
1.75	86.	8.6	4709.	1137.	15340.	82.	4.4	2934.	247.1	1727.
2.00	20.	37.4	5883.	237.	19162.	26.	4.8	3359.	228.8	1809.
2.00	24.	28.7	5759.	696.	18757.	33.	4.1	3359.	233.7	1809.
2.00	30.	22.0	5708.	776.	18593.	41.	4.0	3359.	237.5	1809.
2.00	36.	17.7	5612.	972.	18281.	48.	4.0	3359.	239.9	1809.
2.00	42.	14.8	5567.	1058.	18133.	53.	4.0	3359.	241.5	1809.
2.00	48.	12.8	5508.	1111.	17940.	57.	4.0	3359.	242.7	1809.
2.00	54.	11.2	5492.	1143.	17758.	61.	4.0	3359.	243.6	1809.
2.00	64.	9.3	5364.	1221.	17472.	68.	4.0	3359.	244.7	1809.

ROD NO. 55			PUMP DEPTH 2000.				PRODUCTION 250.			
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.25	64.	21.4	5562.	215.	18118.	90.	8.0	2661.	247.5	1979.
1.25	74.	18.5	5405.	491.	17605.	99.	8.1	2661.	247.8	1979.
1.25	86.	16.0	5349.	512.	17425.	116.	7.9	2661.	248.1	1979.
1.25	100.	13.7	5294.	528.	17245.	136.	7.7	2661.	248.3	1979.
1.25	120.	11.4	5216.	596.	16989.	168.	7.7	2661.	248.6	1979.
1.50	30.	31.8	5605.	299.	18258.	43.	5.5	2909.	242.2	1979.
1.50	36.	26.8	5483.	466.	17861.	47.	5.4	2909.	243.3	1979.
1.50	42.	23.2	5351.	634.	17431.	52.	5.4	2909.	244.2	1979.
1.50	48.	20.5	5287.	769.	17222.	57.	5.6	2909.	244.9	1979.
1.50	54.	18.3	5200.	921.	16938.	62.	5.7	2909.	245.4	1979.
1.50	64.	15.2	5134.	901.	16722.	72.	5.5	2909.	246.2	1979.
1.50	74.	13.1	5090.	891.	16580.	83.	5.4	2909.	246.7	1979.
1.50	86.	11.3	5039.	944.	16415.	98.	5.4	2909.	247.2	1979.
1.50	100.	9.7	4961.	1041.	16225.	118.	5.5	2909.	247.6	1979.
1.50	120.	8.0	4899.	1162.	15958.	147.	5.7	2909.	248.0	1979.
1.75	24.	32.1	5738.	541.	18689.	35.	4.5	3202.	239.3	1979.
1.75	30.	25.3	5636.	607.	18359.	42.	4.5	3202.	241.5	1979.
1.75	36.	21.3	5529.	839.	18011.	46.	4.5	3202.	242.9	1979.
1.75	42.	18.2	5410.	1076.	17621.	50.	4.6	3202.	244.0	1979.
1.75	48.	15.6	5335.	1099.	17379.	53.	4.6	3202.	244.8	1979.
1.75	54.	13.6	5263.	1080.	17209.	56.	4.5	3202.	245.4	1979.
1.75	64.	11.5	5232.	1100.	17041.	66.	4.5	3202.	246.2	1979.
1.75	74.	9.9	5184.	1200.	16885.	79.	4.5	3202.	246.7	1979.
1.75	86.	8.5	5129.	1301.	16706.	94.	4.6	3202.	247.2	1979.
2.00	20.	35.2	6159.	524.	20062.	29.	4.6	3540.	230.0	1979.
2.00	24.	27.0	6046.	770.	19695.	35.	4.1	3540.	234.6	1979.
2.00	30.	21.1	5971.	892.	19449.	43.	4.0	3540.	238.0	1979.
2.00	36.	17.2	5881.	1089.	19156.	49.	4.1	3540.	240.2	1979.
2.00	42.	14.5	5814.	1180.	18938.	54.	4.1	3540.	241.8	1979.
2.00	48.	12.5	5750.	1209.	18731.	58.	4.1	3540.	243.0	1979.

2.00	54.	11.0	5690.	1249.	18534.	62.	4.1	3540.	243.8	1979.
2.00	64.	9.1	5594.	1347.	18221.	70.	4.1	3540.	244.8	1979.
2.25	16.	39.3	6609.	80.	21528.	20.	4.0	3923.	214.5	1979.
2.25	20.	32.0	6668.	769.	21720.	28.	4.2	3923.	221.0	1979.
2.25	24.	23.9	6558.	886.	21362.	36.	3.8	3923.	228.1	1979.
2.25	30.	18.4	6488.	1149.	21134.	46.	3.9	3923.	233.3	1979.
2.25	36.	14.7	6442.	1206.	20983.	54.	3.9	3923.	236.7	1979.
2.25	42.	12.2	6407.	1309.	20871.	61.	3.9	3923.	239.0	1979.
2.25	48.	10.3	6342.	1354.	20659.	66.	3.9	3923.	240.6	1979.
2.50	20.	30.6	7408.	879.	24130.	28.	3.9	4351.	220.4	1979.
2.50	24.	22.6	7274.	965.	23692.	38.	3.7	4351.	228.2	1979.
2.50	30.	16.5	7184.	1176.	23401.	50.	3.8	4351.	234.0	1979.
2.50	36.	13.0	7131.	1237.	23227.	60.	3.9	4351.	237.4	1979.
2.50	42.	10.6	7085.	1341.	23077.	67.	3.8	4351.	239.8	1979.
2.75	24.	22.0	8139.	1001.	26512.	38.	3.6	4824.	218.7	1979.
2.75	30.	15.3	8008.	1212.	26083.	54.	3.7	4824.	228.2	1979.
2.75	36.	11.7	7933.	1310.	25840.	65.	3.7	4824.	233.4	1979.

ROD NO. 64			PUMP DEPTH 2000.			PRODUCTION 250.				
PU: P DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.06	100.	19.1	5646.	51.	12775.	147.	11.7	2468.	248.1	1946.
1.06	120.	15.9	5537.	170.	12527.	177.	11.4	2468.	248.4	1946.
1.25	54.	25.4	5615.	143.	12703.	74.	7.7	2722.	246.9	2037.
1.25	64.	21.7	5476.	362.	12390.	84.	7.8	2722.	247.4	2037.
1.25	74.	18.7	5327.	620.	12053.	93.	7.8	2722.	247.8	2037.
1.25	86.	16.0	5242.	672.	11859.	106.	7.5	2722.	248.1	2037.
1.25	100.	13.7	5191.	684.	11743.	124.	7.4	2722.	248.3	2037.
1.25	120.	11.4	5117.	746.	11578.	152.	7.3	2722.	248.6	2037.
1.50	24.	40.5	6013.	142.	13604.	36.	5.9	3122.	239.8	2180.
1.50	30.	32.4	5867.	142.	13318.	43.	5.7	3122.	241.9	2180.
1.50	36.	27.6	5804.	144.	13132.	49.	5.8	3122.	243.1	2180.
1.50	42.	23.7	5636.	157.	12752.	53.	5.6	3122.	244.1	2180.
1.50	48.	20.7	5535.	930.	12523.	58.	5.7	3122.	244.8	2180.
1.50	54.	18.3	5431.	1104.	12287.	62.	5.8	3122.	245.4	2180.
1.50	64.	15.4	5361.	1076.	12175.	73.	5.6	3122.	246.2	2180.
1.50	74.	13.1	5316.	1077.	12028.	82.	5.4	3122.	246.7	2180.
1.50	86.	11.3	5264.	1130.	11910.	97.	5.4	3122.	247.2	2180.
1.50	100.	9.7	5205.	1228.	11776.	116.	5.5	3122.	247.6	2180.
1.50	120.	8.1	5121.	1351.	11587.	146.	5.7	3122.	248.0	2180.
1.75	16.	48.7	6630.	353.	15000.	25.	5.5	3594.	233.7	2349.
1.75	20.	39.9	6517.	130.	14744.	33.	5.3	3594.	236.7	2349.
1.75	24.	31.5	6322.	772.	14304.	38.	4.7	3594.	239.5	2349.
1.75	30.	25.5	6219.	852.	14070.	44.	4.8	3594.	241.5	2349.
1.75	36.	21.2	6067.	1129.	13727.	48.	4.8	3594.	243.0	2349.
1.75	42.	18.0	5923.	1382.	13400.	51.	4.9	3594.	244.0	2349.
1.75	48.	15.5	5847.	1379.	13229.	55.	4.8	3594.	244.8	2349.
1.75	54.	13.7	5811.	1351.	13146.	61.	4.7	3594.	245.4	2349.
1.75	64.	11.5	5754.	1382.	13018.	71.	4.6	3594.	246.2	2349.
1.75	74.	9.9	5701.	1487.	12897.	84.	4.7	3594.	246.7	2349.
1.75	86.	8.4	5639.	1594.	12758.	101.	4.7	3594.	247.2	2349.

ROD NO. 65			PUMP DEPTH 2000.			PRODUCTION 250.				
PU: P DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.06	120.	15.9	6557.	33.	14836.	221.	13.5	2792.	248.4	2252.
1.25	54.	25.4	6364.	1.	14398.	87.	8.7	2977.	247.0	2278.
1.25	64.	21.4	6153.	309.	13920.	97.	8.6	2977.	247.4	2278.
1.25	74.	18.5	5977.	616.	13523.	108.	8.6	2977.	247.8	2278.
1.25	86.	16.0	5915.	645.	13383.	126.	8.5	2977.	248.1	2278.
1.25	100.	13.7	5854.	668.	13244.	148.	8.3	2977.	248.4	2278.
1.25	120.	11.4	5766.	744.	13045.	182.	8.2	2977.	248.6	2278.
1.50	24.	39.7	6360.	107.	14390.	40.	6.1	3270.	240.0	2320.
1.50	30.	31.8	6228.	433.	14091.	46.	5.9	3270.	242.1	2320.
1.50	36.	27.0	6106.	610.	13815.	51.	5.9	3270.	243.2	2320.
1.50	42.	23.2	5940.	792.	13440.	57.	5.8	3270.	244.2	2320.
1.50	48.	20.5	5809.	944.	13278.	63.	6.0	3270.	244.9	2320.
1.50	54.	18.0	5738.	1132.	12983.	67.	5.9	3270.	245.5	2320.
1.50	64.	15.2	5668.	1109.	12869.	79.	5.8	3270.	246.2	2320.
1.50	74.	13.1	5640.	1105.	12759.	91.	5.7	3270.	246.7	2320.
1.50	86.	11.2	5582.	1164.	12630.	107.	5.7	3270.	247.2	2320.
1.50	100.	9.7	5517.	1269.	12482.	128.	5.8	3270.	247.6	2320.
1.50	120.	8.0	5424.	1401.	12272.	161.	6.0	3270.	248.0	2320.
1.75	16.	48.1	6649.	247.	15043.	26.	5.4	3616.	233.9	2370.
1.75	20.	39.9	6576.	156.	14878.	34.	5.3	3616.	236.7	2370.
1.75	24.	31.3	6362.	787.	14393.	38.	4.7	3616.	239.6	2370.
1.75	30.	25.2	6233.	880.	14101.	44.	4.7	3616.	241.6	2370.
1.75	36.	21.1	6106.	1145.	13814.	48.	4.8	3616.	243.0	2370.
1.75	42.	17.8	5946.	1401.	13452.	51.	4.8	3616.	244.0	2370.
1.75	48.	15.5	5890.	1386.	13326.	55.	4.8	3616.	244.8	2370.
1.75	54.	13.7	5853.	1358.	13242.	61.	4.7	3616.	245.4	2370.
1.75	64.	11.4	5796.	1391.	13113.	72.	4.6	3616.	246.2	2370.
1.75	74.	9.8	5742.	1497.	12990.	85.	4.7	3616.	246.7	2370.
1.75	86.	8.4	5680.	1604.	12850.	102.	4.8	3616.	247.2	2370.
2.00	20.	32.7	6777.	932.	15333.	32.	4.4	4015.	231.5	2428.
2.00	24.	26.3	6719.	1019.	15201.	38.	4.2	4015.	235.1	2428.
2.00	30.	20.6	6601.	1215.	14935.	46.	4.2	4015.	238.3	2428.
2.00	36.	16.8	6469.	1474.	14636.	50.	4.2	4015.	240.4	2428.
2.00	42.	14.2	6392.	1532.	14462.	54.	4.2	4015.	241.9	2428.
2.00	48.	12.3	6319.	1530.	14297.	58.	4.2	4015.	243.0	2428.
2.00	54.	10.8	6250.	1593.	14140.	63.	4.2	4015.	243.9	2428.
2.25	16.	38.8	7436.	325.	16824.	24.	4.7	4466.	214.7	2492.
2.25	20.	28.5	7313.	1216.	16546.	32.	4.0	4466.	224.1	2492.
2.25	24.	22.6	7289.	1289.	16491.	40.	4.0	4466.	229.3	2492.
2.25	30.	17.5	7166.	1540.	16213.	48.	4.0	4466.	234.2	2492.
2.25	36.	13.9	7108.	1664.	16081.	56.	4.0	4466.	237.3	2492.
2.25	42.	11.6	7025.	1732.	15893.	61.	4.0	4466.	239.4	2492.
2.50	16.	36.2	8222.	1020.	18601.	24.	4.3	4972.	215.2	2565.
2.50	20.	26.0	8075.	1329.	18270.	34.	3.9	4972.	225.0	2565.
2.50	24.	20.4	8016.	1496.	18136.	43.	3.9	4972.	230.3	2565.
2.50	30.	15.2	7921.	1690.	17922.	53.	3.9	4972.	235.3	2565.
2.50	36.	12.0	7863.	1801.	17790.	62.	3.9	4972.	238.4	2565.
2.75	20.	24.3	9012.	1425.	20389.	35.	3.8	5530.	215.5	2646.
2.75	24.	18.4	8901.	1655.	20137.	46.	3.8	5530.	223.8	2646.
2.75	30.	13.5	8803.	1804.	19917.	58.	3.8	5530.	230.9	2646.

ROD NO. 66			PUMP DEPTH 2000.			PRODUCTION 250.				
PU: P DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.25	64.	21.4	7537.	312.	17052.	123.	10.3	3584.	247.5	2850.
1.25	74.	18.5	7310.	708.	16540.	136.	10.3	3584.	247.8	2850.
1.25	86.	16.0	7231.	758.	16360.	159.	10.1	3584.	248.1	2850.
1.25	100.	13.7	7152.	798.	16180.	188.	9.8	3584.	248.4	2850.
1.25	120.	11.4	7038.	900.	15924.	233.	9.7	3584.	248.6	2850.
1.50	24.	39.7	7561.	67.	17107.	47.	7.0	3832.	240.4	2850.
1.50	30.	31.2	7326.	568.	16575.	52.	6.6	3832.	242.5	2850.
1.50	36.	26.5	7154.	753.	16185.	60.	6.5	3832.	243.5	2850.
1.50	42.	22.7	6952.	991.	15729.	67.	6.4	3832.	244.5	2850.

1.50	48.	20.1	6857.	1188.	15513.	74.	6.6	3832.	245.0	2850.
1.50	54.	17.9	6752.	1358.	15277.	81.	6.6.	3832.	245.5	2850.
1.50	64.	15.1	6692.	1346.	15141.	95.	6.5	3832.	246.2	2850.
1.50	74.	13.0	6633.	1353.	15007.	111.	6.3	3832.	246.8	2850.
1.50	86.	11.2	6563.	1430.	14848.	132.	6.3	3832.	247.2	2850.
1.50	100.	9.5	6456.	1569.	14607.	157.	6.4	3832.	247.6	2850.
1.50	120.	7.9	6343.	1722.	14351.	198.	6.7	3832.	248.0	2850.
1.75	16.	45.4	7458.	282.	16873.	29.	5.4	4124.	235.0	2850.
1.75	20.	37.7	7399.	642.	16740.	36.	5.5	4124.	237.5	2850.
1.75	24.	29.7	7154.	1068.	16187.	41.	4.9	4124.	240.1	2850.
1.75	30.	24.5	7007.	1208.	15852.	47.	4.9	4124.	241.9	2850.
1.75	36.	20.4	6843.	1544.	15483.	51.	5.1	4124.	243.2	2850.
1.75	42.	17.5	6731.	1700.	15228.	57.	5.2	4124.	244.2	2850.
1.75	48.	15.2	6686.	1664.	15128.	64.	5.1	4124.	244.9	2850.
1.75	54.	13.5	6644.	1644.	15033.	71.	5.0	4124.	245.5	2850.
1.75	64.	11.3	6578.	1697.	14882.	85.	4.9	4124.	246.2	2850.
1.75	74.	9.7	6495.	1828.	14694.	101.	5.0	4124.	246.8	2850.
1.75	86.	8.3	6422.	1945.	14530.	121.	5.1	4124.	247.2	2850.
2.00	20.	30.3	7427.	1277.	16802.	35.	4.3	4462.	232.8	2850.
2.00	24.	25.0	7383.	1195.	16705.	42.	4.4	4462.	235.8	2850.
2.00	30.	19.9	7197.	1605.	16283.	47.	4.4	4462.	238.7	2850.
2.00	36.	16.4	7069.	1805.	15993.	52.	4.4	4462.	240.7	2850.
2.00	42.	13.9	6982.	1817.	15797.	56.	4.4	4462.	242.1	2850.
2.00	48.	11.9	6883.	1808.	15573.	60.	4.3	4462.	243.2	2850.
2.00	54.	10.5	6839.	1910.	15473.	69.	4.3	4462.	244.0	2850.
2.25	16.	36.0	7989.	1103.	18074.	27.	4.6	4845.	217.4	2850.
2.25	20.	26.3	7862.	1423.	17787.	35.	4.0	4845.	226.1	2850.
2.25	24.	21.3	7775.	1574.	17590.	42.	4.0	4845.	230.6	2850.
2.25	30.	16.5	7665.	1815.	17341.	51.	4.0	4845.	234.9	2850.
2.25	36.	13.4	7571.	1940.	17129.	57.	4.0	4845.	237.7	2850.
2.25	42.	11.3	7480.	1990.	16923.	62.	4.0	4845.	239.7	2850.
2.50	16.	33.1	8579.	1363.	19410.	26.	4.1	5273.	217.9	2850.
2.50	20.	23.6	8435.	1558.	19084.	36.	3.8	5273.	227.0	2850.
2.50	24.	19.1	8383.	1806.	18965.	45.	3.9	5273.	231.6	2850.
2.50	30.	14.4	8301.	1934.	18780.	55.	3.9	5273.	236.1	2850.
2.50	36.	11.5	8251.	2067.	18667.	64.	3.9	5273.	238.9	2850.
2.75	16.	31.9	9409.	1466.	21287.	26.	3.9	5746.	205.1	2850.
2.75	20.	22.5	9242.	1636.	20910.	37.	3.7	5746.	218.1	2850.
2.75	24.	17.4	9151.	1851.	20704.	48.	3.8	5746.	225.3	2850.
2.75	30.	12.9	9068.	1962.	20515.	60.	3.9	5746.	231.7	2850.

ROD NO. 75			PUMP DEPTH 2000.				PRODUCTION 250.			
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.06	120.	15.9	7354.	162.	12236.	243.	14.7	3198.	248.4	2635.
1.25	54.	25.4	7183.	124.	11951.	95.	9.5	3425.	247.0	2700.
1.25	64.	21.4	6944.	472.	11554.	107.	9.4	3425.	247.4	2700.
1.25	74.	18.5	6745.	820.	11223.	119.	9.4	3425.	247.8	2700.
1.25	86.	16.0	6675.	858.	11107.	139.	9.2	3425.	248.1	2700.
1.25	100.	13.7	6606.	889.	10991.	164.	9.0	3425.	248.4	2700.
1.25	120.	11.4	6506.	977.	10826.	201.	8.9	3425.	248.6	2700.
1.50	24.	39.7	7230.	258.	12030.	44.	6.6	3780.	240.3	2801.
1.50	30.	31.8	7078.	645.	11776.	50.	6.5	3780.	242.1	2801.
1.50	36.	26.9	6928.	834.	11528.	57.	6.4	3780.	243.3	2801.
1.50	42.	23.2	6741.	1041.	11216.	63.	6.2	3780.	244.2	2801.
1.50	48.	20.2	6615.	1260.	11007.	68.	6.3	3780.	244.9	2801.
1.50	54.	18.0	6504.	1435.	10823.	74.	6.3	3780.	245.5	2801.
1.50	64.	15.1	6448.	1419.	10728.	87.	6.2	3780.	246.2	2801.
1.50	74.	13.1	6392.	1421.	10636.	101.	6.0	3780.	246.7	2801.
1.50	86.	11.2	6327.	1490.	10528.	119.	6.1	3780.	247.2	2801.
1.50	100.	9.6	6252.	1604.	10403.	143.	6.2	3780.	247.6	2801.
1.50	120.	8.0	6146.	1749.	10227.	181.	6.5	3780.	248.0	2801.
1.75	16.	48.6	7654.	555.	12736.	30.	6.0	4198.	233.9	2919.
1.75	20.	36.9	7284.	864.	12120.	36.	5.2	4198.	237.7	2919.
1.75	24.	31.0	7245.	1108.	12055.	41.	5.1	4198.	239.7	2919.
1.75	30.	24.9	7048.	1283.	11727.	47.	5.0	4198.	241.7	2919.
1.75	36.	20.7	6867.	1620.	11426.	51.	5.1	4198.	243.1	2919.
1.75	42.	17.6	6733.	1815.	11203.	55.	5.1	4198.	244.1	2919.
1.75	48.	15.3	6669.	1777.	11130.	62.	5.0	4198.	244.9	2919.
1.75	54.	13.5	6648.	1755.	11061.	68.	4.9	4198.	245.5	2919.
1.75	64.	11.4	6582.	1803.	10953.	81.	4.9	4198.	246.2	2919.
1.75	74.	9.8	6520.	1916.	10849.	96.	5.0	4198.	246.7	2919.
1.75	86.	8.3	6430.	2049.	10699.	115.	5.0	4198.	247.2	2919.
2.00	20.	30.8	7693.	1440.	12801.	36.	4.5	4684.	232.5	3059.
2.00	24.	25.4	7642.	1378.	12715.	42.	4.5	4684.	235.6	3059.
2.00	30.	20.0	7437.	1788.	12375.	48.	4.4	4684.	238.6	3059.
2.00	36.	16.4	7296.	2005.	12140.	52.	4.4	4684.	240.7	3059.
2.00	42.	13.9	7207.	2016.	11992.	56.	4.4	4684.	242.1	3059.
2.00	48.	12.0	7125.	1990.	11855.	60.	4.4	4684.	243.2	3059.
2.00	54.	10.5	7063.	2110.	11752.	68.	4.3	4684.	244.0	3059.
2.25	16.	35.2	8470.	1399.	14093.	28.	4.6	5232.	217.9	3214.
2.25	20.	26.0	8344.	1685.	13883.	37.	4.1	5232.	226.3	3214.
2.25	24.	21.2	8250.	1847.	13727.	44.	4.1	5232.	230.6	3214.
2.25	30.	16.4	8106.	2140.	13486.	52.	4.1	5232.	235.1	3214.
2.25	36.	13.3	8001.	2249.	13313.	57.	4.1	5232.	237.8	3214.
2.25	42.	11.2	7903.	2297.	13151.	62.	4.1	5232.	239.8	3214.

ROD NO. 76			PUMP DEPTH 2000.				PRODUCTION 250.			
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.06	120.	15.9	8836.	25.	14702.	304.	17.7	3708.	248.4	3117.
1.25	54.	25.1	8325.	32.	13852.	114.	10.8	3887.	247.0	3136.
1.25	64.	21.4	8111.	396.	13496.	130.	10.9	3887.	247.5	3136.
1.25	74.	18.5	7867.	824.	13089.	144.	10.9	3887.	247.8	3136.
1.25	86.	16.0	7781.	881.	12946.	169.	10.6	3887.	248.1	3136.
1.25	100.	13.7	7695.	927.	12804.	200.	10.3	3887.	248.4	3136.
1.25	120.	11.4	7573.	1038.	12601.	247.	10.3	3887.	248.6	3136.
1.50	24.	38.5	8013.	292.	13333.	48.	6.9	4168.	240.6	3167.
1.50	30.	31.3	7921.	663.	13179.	56.	7.0	4168.	242.4	3167.
1.50	36.	26.5	7717.	884.	12841.	64.	6.8	4168.	243.4	3167.
1.50	42.	22.7	7498.	1143.	12476.	71.	6.7	4168.	244.3	3167.
1.50	48.	20.1	7401.	1351.	12314.	78.	6.9	4168.	245.0	3167.
1.50	54.	17.9	7278.	1545.	12110.	86.	6.9	4168.	245.5	3167.
1.50	64.	15.1	7213.	1539.	12001.	101.	6.8	4168.	246.2	3167.
1.50	74.	13.0	7149.	1551.	11895.	118.	6.6	4168.	246.8	3167.
1.50	86.	11.1	7044.	1655.	11721.	139.	6.5	4168.	247.2	3167.
1.50	100.	9.5	6958.	1780.	11578.	167.	6.7	4168.	247.6	3167.
1.50	120.	7.9	6835.	1943.	11372.	211.	7.0	4168.	248.0	3167.
1.75	16.	46.7	8181.	591.	13613.	32.	5.4	4498.	234.6	3202.
1.75	20.	36.2	7858.	929.	13075.	38.	5.4	4498.	237.9	3202.
1.75	24.	29.9	7741.	1259.	12880.	43.	5.2	4498.	240.0	3202.
1.75	30.	24.5	7544.	1460.	12553.	49.	5.1	4498.	241.9	3202.
1.75	36.	20.4	7378.	1781.	12277.	54.	5.3	4498.	243.2	3202.
1.75	42.	17.4	7253.	1944.	12068.	60.	5.3	4498.	244.2	3202.
1.75	48.	15.2	7206.	1912.	11989.	68.	5.2	4498.	245.0	3202.
1.75	54.	13.4	7160.	1895.	11914.	76.	5.1	4498.	245.5	3202.
1.75	64.	11.2	7066.	1975.	11757.	90.	5.0	4498.	246.3	3202.
1.75	74.	9.6	6999.	2093.	11646.	107.	5.1	4498.	246.8	3202.
1.75	86.	8.3	6920.	2217.	11515.	129.	5.3	4498.	247.2	3202.
2.00	16.	40.5	8320.	161.	13844.	31.	5.2	4882.	227.1	3246.
2.00	20.	29.9	8034.	1509.	13368.	38.	4.5	4882.	231.1	3246.

2.00	24.	24.9	7942.	1499.	13214.	43.	4.5	4882.	235.9	3246.
2.00	30.	19.7	7730.	1947.	12862.	49.	4.5	4882.	238.8	3246.
2.00	36.	16.2	7588.	2132.	12626.	53.	4.6	4882.	240.8	3246.
2.00	42.	13.6	7475.	2124.	12438.	57.	4.5	4882.	242.2	3246.
2.00	48.	11.8	7417.	2125.	12341.	63.	4.4	4882.	243.2	3246.
2.00	54.	10.5	7369.	2231.	12261.	73.	4.4	4882.	244.0	3246.
2.25	16.	34.5	8590.	1477.	14293.	29.	4.5	5315.	218.6	3293.
2.25	20.	25.6	8472.	1713.	14097.	37.	4.1	5315.	226.7	3293.
2.25	24.	20.9	8371.	1900.	13928.	44.	4.1	5315.	230.9	3293.
2.25	30.	16.2	8220.	2203.	13678.	52.	4.1	5315.	235.2	3293.
2.25	36.	13.2	8113.	2297.	13499.	57.	4.1	5315.	237.9	3293.
2.25	42.	11.2	8013.	2346.	13332.	62.	4.1	5315.	239.8	3293.
2.50	16.	31.5	9212.	1806.	15327.	29.	4.2	5800.	219.6	3347.
2.50	20.	22.7	9108.	1968.	15154.	39.	3.9	5800.	227.9	3347.
2.50	24.	18.4	8999.	2256.	14973.	47.	3.9	5800.	232.3	3347.
2.50	30.	13.9	8928.	2380.	14854.	57.	4.0	5800.	236.6	3347.
2.50	36.	11.1	8829.	2505.	14690.	65.	3.9	5800.	239.2	3347.
2.75	16.	29.5	10076.	1964.	16766.	30.	4.0	6336.	208.4	3406.
2.75	20.	21.0	9916.	2129.	16499.	42.	3.9	6336.	220.3	3406.
2.75	24.	16.4	9824.	2371.	16345.	51.	3.9	6336.	226.8	3406.
2.75	30.	12.2	9737.	2497.	16202.	62.	3.9	6336.	232.7	3406.
3.75	24.	13.1	14374.	2761.	23916.	64.	3.7	8989.	196.2	3699.

ROD NO. 77			PUMP DEPTH 2000.				PRODUCTION 250.			
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.25	54.	24.9	10071.	25.	16757.	140.	12.7	4675.	247.1	3879.
1.25	64.	21.4	9873.	426.	16427.	161.	13.0	4675.	247.5	3879.
1.25	74.	18.5	9565.	965.	15915.	179.	12.9	4675.	247.8	3879.
1.25	86.	16.0	9457.	1047.	15735.	210.	12.6	4675.	248.1	3879.
1.25	100.	13.7	9349.	1116.	15555.	250.	12.3	4675.	248.4	3879.
1.25	120.	11.4	9195.	1259.	15299.	310.	12.2	4675.	248.6	3879.
1.50	20.	45.9	9868.	34.	16420.	50.	8.4	4922.	238.9	3879.
1.50	24.	38.4	9555.	296.	15898.	57.	8.0	4922.	240.7	3879.
1.50	30.	30.5	9320.	888.	15507.	65.	7.8	4922.	242.6	3879.
1.50	36.	26.2	9115.	1080.	15167.	76.	7.7	4922.	243.6	3879.
1.50	42.	22.7	8909.	1349.	14823.	85.	7.7	4922.	244.4	3879.
1.50	48.	19.9	8724.	1673.	14516.	93.	7.7	4922.	245.1	3879.
1.50	54.	17.6	8588.	1879.	14290.	102.	7.7	4922.	245.6	3879.
1.50	64.	14.9	8511.	1887.	14162.	122.	7.5	4922.	246.3	3879.
1.50	74.	12.9	8434.	1914.	14034.	143.	7.4	4922.	246.8	3879.
1.50	86.	11.1	8342.	2020.	13880.	171.	7.4	4922.	247.2	3879.
1.50	100.	9.5	8234.	2167.	13701.	206.	7.7	4922.	247.6	3879.
1.50	120.	7.9	8080.	2361.	13444.	260.	8.1	4922.	248.0	3879.
1.75	16.	44.4	9333.	918.	15529.	36.	6.2	5215.	235.3	3879.
1.75	20.	35.0	9021.	1270.	15011.	42.	5.7	5215.	238.4	3879.
1.75	24.	29.2	8891.	1616.	14793.	47.	5.6	5215.	240.4	3879.
1.75	30.	23.8	8625.	1908.	14351.	55.	5.5	5215.	242.1	3879.
1.75	36.	19.9	8451.	2221.	14062.	62.	5.7	5215.	243.3	3879.
1.75	42.	17.0	8335.	2358.	13869.	70.	5.7	5215.	244.3	3879.
1.75	48.	14.9	8284.	2334.	13783.	79.	5.6	5215.	245.0	3879.
1.75	54.	13.2	8233.	2326.	13699.	89.	5.5	5215.	245.6	3879.
1.75	64.	11.1	8151.	2414.	13562.	107.	5.5	5215.	246.3	3879.
1.75	74.	9.6	8070.	2545.	13428.	128.	5.6	5215.	246.8	3879.
2.00	16.	37.8	9264.	1345.	15414.	35.	5.2	5553.	228.6	3879.
2.00	20.	28.4	8981.	1896.	14944.	41.	4.6	5553.	233.9	3879.
2.00	24.	23.9	8830.	2036.	14693.	46.	4.6	5553.	236.4	3879.
2.00	30.	19.1	8596.	2529.	14303.	51.	4.8	5553.	239.1	3879.
2.00	36.	15.8	8464.	2612.	14083.	56.	4.8	5553.	241.0	3879.
2.00	42.	13.4	8402.	2564.	13980.	64.	4.7	5553.	242.4	3879.
2.00	48.	11.7	8344.	2592.	13884.	73.	4.6	5553.	243.4	3879.
2.00	54.	10.3	8289.	2703.	13792.	84.	4.7	5553.	244.1	3879.
2.25	16.	31.8	9410.	2021.	15657.	33.	4.4	5936.	221.1	3879.
2.25	20.	24.3	9307.	2051.	15485.	41.	4.2	5936.	227.9	3879.
2.25	24.	20.0	9161.	2390.	15243.	47.	4.2	5936.	231.8	3879.
2.25	30.	15.8	8986.	2693.	14952.	53.	4.2	5936.	235.7	3879.
2.25	36.	12.9	8866.	2724.	14752.	59.	4.2	5936.	238.3	3879.
2.25	42.	10.9	8752.	2767.	14563.	65.	4.2	5936.	240.1	3879.
2.50	16.	28.2	9902.	2249.	16475.	32.	4.0	6364.	222.7	3879.
2.50	20.	21.2	9803.	2441.	16311.	42.	3.9	6364.	229.4	3879.
2.50	24.	17.2	9685.	2681.	16115.	49.	3.9	6364.	233.3	3879.
2.50	30.	13.3	9593.	2852.	15961.	58.	4.0	6364.	237.1	3879.
2.75	16.	26.0	10594.	2337.	17627.	33.	3.9	6837.	213.0	3879.
2.75	20.	19.4	10502.	2628.	17474.	44.	3.8	6837.	222.7	3879.
2.75	24.	15.4	10416.	2783.	17331.	53.	3.9	6837.	228.2	3879.

ROD NO. 44			PUMP DEPTH 2000.				PRODUCTION 300.			
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.25	86.	19.1	4166.	77.	21256.	93.	8.2	1905.	297.7	1266.
1.25	100.	16.6	4126.	122.	21050.	107.	8.3	1905.	298.0	1266.
1.25	120.	13.7	4054.	136.	20682.	128.	7.9	1905.	298.3	1266.
1.25	144.	11.4	3993.	185.	20374.	158.	7.9	1905.	298.6	1266.
1.50	48.	25.0	4322.	50.	22051.	54.	5.9	2153.	293.8	1266.
1.50	54.	22.3	4243.	198.	21650.	57.	6.0	2153.	294.4	1266.
1.50	64.	18.8	4128.	417.	21061.	62.	6.2	2153.	295.3	1266.
1.50	74.	16.2	4083.	415.	20831.	69.	6.1	2153.	296.0	1266.
1.50	86.	13.8	4045.	392.	20637.	79.	6.0	2153.	296.5	1266.
1.50	100.	11.8	4003.	402.	20423.	92.	5.9	2153.	297.0	1266.
1.50	120.	9.7	3931.	520.	20058.	114.	5.9	2153.	297.6	1266.
1.50	144.	8.1	3867.	624.	19731.	142.	6.1	2153.	298.0	1266.
1.75	36.	26.6	4640.	119.	23671.	45.	5.1	2446.	291.2	1266.
1.75	42.	22.6	4590.	167.	23417.	51.	5.1	2446.	292.5	1266.
1.75	48.	19.7	4505.	365.	22983.	55.	5.1	2446.	293.4	1266.
1.75	54.	17.4	4439.	489.	22649.	58.	5.1	2446.	294.2	1266.
1.75	64.	14.4	4373.	531.	22311.	63.	5.1	2446.	295.2	1266.
1.75	74.	12.4	4310.	519.	21989.	68.	5.1	2446.	295.9	1266.
1.75	86.	10.4	4234.	602.	21603.	76.	5.1	2446.	296.5	1266.
1.75	100.	8.9	4190.	695.	21378.	90.	5.1	2446.	297.0	1266.
2.00	30.	28.9	5084.	253.	25938.	38.	4.8	2784.	283.5	1266.
2.00	36.	22.5	5043.	329.	25729.	47.	4.7	2784.	287.2	1266.
2.00	42.	18.9	4971.	483.	25363.	53.	4.7	2784.	289.2	1266.
2.00	48.	16.1	4937.	545.	25190.	59.	4.7	2784.	290.8	1266.
2.00	54.	14.0	4917.	607.	25085.	65.	4.8	2784.	292.0	1266.
2.00	64.	11.5	4846.	665.	24725.	72.	4.7	2784.	293.4	1266.
2.00	74.	9.8	4780.	710.	24387.	78.	4.7	2784.	294.4	1266.
2.00	86.	8.3	4705.	783.	24005.	87.	4.8	2784.	295.3	1266.
2.25	24.	35.3	5750.	149.	29336.	27.	4.7	3167.	268.1	1266.
2.25	30.	26.5	5688.	312.	29022.	39.	4.6	3167.	275.7	1266.
2.25	36.	20.4	5620.	432.	28674.	51.	4.6	3167.	281.5	1266.
2.25	42.	16.7	5571.	566.	28424.	59.	4.6	3167.	284.8	1266.
2.25	48.	14.0	5539.	605.	28258.	66.	4.6	3167.	287.2	1266.
2.25	54.	12.1	5510.	661.	28113.	73.	4.6	3167.	289.0	1266.
2.25	64.	9.7	5475.	742.	27936.	83.	4.6	3167.	291.2	1266.
2.50	30.	26.1	6481.	322.	33065.	39.	4.5	3595.	274.7	1266.
2.50	36.	19.1	6361.	501.	32455.	53.	4.4	3595.	281.5	1266.
2.50	42.	15.1	6298.	590.	32132.	65.	4.5	3595.	285.3	1266.
2.50	48.	12.5	6255.	650.	31914.	74.	4.5	3595.	287.9	1266.
2.50	54.	10.6	6223.	695.	31748.	82.	4.6	3595.	289.7	1266.
2.75	42.	14.4	7152.	628.	36489.	69.	4.4	4068.	271.5	1266.
2.75	48.	11.7	7098.	698.	36214.	82.	4.5	4068.	276.5	1266.

ROD NO. 54			PUMP DEPTH 2000.			PRODUCTION 300.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.25	86.	19.1	4861.	167.	15833.	106.	9.2	2253.	297.7	1594.
1.25	100.	16.5	4786.	242.	15589.	121.	9.0	2253.	298.0	1594.
1.25	120.	13.7	4726.	254.	15393.	147.	8.8	2253.	298.3	1594.
1.25	144.	11.4	4653.	315.	15157.	180.	8.7	2253.	298.6	1594.
1.50	42.	28.4	5186.	99.	16894.	55.	6.7	2563.	292.9	1653.
1.50	48.	24.9	5039.	253.	16414.	59.	6.5	2563.	293.8	1653.
1.50	54.	22.2	4954.	390.	16138.	63.	6.6	2563.	294.5	1653.
1.50	64.	18.6	4817.	620.	15692.	70.	6.7	2563.	295.4	1653.
1.50	74.	16.0	4770.	614.	15538.	79.	6.6	2563.	296.0	1653.
1.50	86.	13.7	4725.	599.	15391.	91.	6.5	2563.	296.6	1653.
1.50	100.	11.7	4658.	636.	15173.	105.	6.3	2563.	297.1	1653.
1.50	120.	9.7	4591.	751.	14955.	131.	6.5	2563.	297.6	1653.
1.50	144.	8.1	4512.	869.	14698.	165.	6.7	2563.	298.0	1653.
1.75	30.	30.8	5483.	332.	17860.	44.	5.5	2934.	289.7	1727.
1.75	36.	25.9	5432.	326.	17693.	50.	5.5	2934.	291.4	1727.
1.75	42.	22.1	5318.	517.	17322.	54.	5.5	2934.	292.7	1727.
1.75	48.	19.2	5204.	746.	16951.	57.	5.5	2934.	293.6	1727.
1.75	54.	16.9	5131.	835.	16714.	60.	5.6	2934.	294.4	1727.
1.75	64.	14.0	5036.	829.	16404.	66.	5.5	2934.	295.3	1727.
1.75	74.	12.0	4992.	819.	16261.	74.	5.4	2934.	296.0	1727.
1.75	86.	10.3	4943.	924.	16102.	88.	5.4	2934.	296.6	1727.
1.75	100.	8.8	4889.	1026.	15925.	105.	5.5	2934.	297.1	1727.
2.00	16.	49.8	6173.	281.	20106.	22.	5.8	3359.	272.1	1809.
2.00	24.	34.4	6042.	337.	19681.	36.	5.4	3359.	280.4	1809.
2.00	30.	25.7	5949.	520.	19378.	45.	5.0	3359.	285.4	1809.
2.00	36.	21.0	5868.	665.	19113.	52.	5.0	3359.	288.0	1809.
2.00	42.	17.7	5768.	875.	18789.	58.	4.9	3359.	289.9	1809.
2.00	48.	15.2	5708.	960.	18593.	62.	5.0	3359.	291.3	1809.
2.00	54.	13.4	5651.	995.	18408.	66.	4.9	3359.	292.4	1809.
2.00	64.	11.1	5561.	1038.	18116.	72.	4.9	3359.	293.7	1809.
2.00	74.	9.5	5477.	1125.	17839.	80.	5.0	3359.	294.6	1809.

ROD NO. 55			PUMP DEPTH 2000.			PRODUCTION 300.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.25	86.	19.1	5921.	116.	19288.	134.	10.9	2661.	297.7	1979.
1.25	100.	16.5	5824.	223.	18969.	155.	10.7	2661.	298.0	1979.
1.25	120.	13.7	5745.	254.	18713.	189.	10.4	2661.	298.4	1979.
1.25	144.	11.4	5650.	337.	18405.	235.	10.3	2661.	298.6	1979.
1.50	36.	31.4	5989.	38.	19507.	56.	7.2	2909.	292.4	1979.
1.50	42.	27.2	5862.	197.	19094.	61.	7.1	2909.	293.3	1979.
1.50	48.	24.1	5731.	325.	18666.	67.	7.0	2909.	294.0	1979.
1.50	54.	21.5	5644.	482.	18385.	73.	7.1	2909.	294.6	1979.
1.50	64.	18.2	5503.	730.	17925.	82.	7.3	2909.	295.4	1979.
1.50	74.	15.7	5460.	710.	17784.	94.	7.1	2909.	296.1	1979.
1.50	86.	13.5	5409.	704.	17618.	109.	7.0	2909.	296.6	1979.
1.50	100.	11.6	5351.	747.	17429.	129.	6.9	2909.	297.1	1979.
1.50	120.	9.6	5269.	876.	17162.	161.	7.1	2909.	297.6	1979.
1.50	144.	8.0	5172.	1013.	16846.	202.	7.4	2909.	298.0	1979.
1.75	30.	29.4	5972.	411.	19453.	47.	5.6	3202.	290.2	1979.
1.75	36.	24.9	5866.	479.	19109.	52.	5.6	3202.	291.7	1979.
1.75	42.	21.3	5744.	730.	18710.	56.	5.7	3202.	292.9	1979.
1.75	48.	18.6	5624.	964.	18319.	60.	5.8	3202.	293.8	1979.
1.75	54.	16.5	5564.	984.	18123.	64.	5.8	3202.	294.5	1979.
1.75	64.	13.8	5511.	941.	17951.	74.	5.7	3202.	295.4	1979.
1.75	74.	11.9	5462.	948.	17791.	85.	5.6	3202.	296.1	1979.
1.75	86.	10.1	5406.	1059.	17610.	101.	5.7	3202.	296.6	1979.
1.75	100.	8.7	5344.	1169.	17406.	121.	5.8	3202.	297.1	1979.
2.00	24.	32.6	6347.	475.	20673.	39.	5.3	3540.	281.4	1979.
2.00	30.	24.7	6251.	553.	20361.	47.	5.0	3540.	286.0	1979.
2.00	36.	20.4	6148.	784.	20025.	54.	5.0	3540.	288.4	1979.
2.00	42.	17.3	6038.	1009.	19668.	59.	5.0	3540.	290.2	1979.
2.00	48.	14.9	5974.	1069.	19460.	63.	5.1	3540.	291.5	1979.
2.00	54.	13.1	5913.	1082.	19260.	67.	5.0	3540.	292.6	1979.
2.00	64.	10.9	5815.	1131.	18942.	74.	5.1	3540.	293.8	1979.
2.00	74.	9.3	5729.	1251.	18660.	85.	5.0	3540.	294.7	1979.
2.25	20.	36.2	6865.	443.	22363.	29.	5.3	3923.	267.1	1979.
2.25	24.	28.7	6785.	715.	22101.	38.	4.8	3923.	273.8	1979.
2.25	30.	21.3	6712.	868.	21864.	49.	4.7	3923.	280.5	1979.
2.25	36.	17.4	6631.	1045.	21598.	57.	4.7	3923.	284.2	1979.
2.25	42.	14.3	6583.	1140.	21444.	65.	4.7	3923.	286.9	1979.
2.25	48.	12.3	6526.	1220.	21258.	71.	4.7	3923.	288.8	1979.
2.25	54.	10.8	6462.	1252.	21048.	76.	4.7	3923.	290.2	1979.
2.50	20.	34.2	7547.	605.	24582.	29.	4.8	4351.	267.3	1979.
2.50	24.	26.6	7459.	782.	24295.	39.	4.6	4351.	274.2	1979.
2.50	30.	19.5	7363.	990.	23985.	53.	4.6	4351.	281.2	1979.
2.50	36.	15.4	7296.	1127.	23766.	63.	4.7	4351.	285.2	1979.
2.50	42.	12.6	7249.	1201.	23614.	71.	4.6	4351.	287.8	1979.
2.50	48.	10.6	7213.	1289.	23495.	79.	4.6	4351.	289.7	1979.
2.75	24.	26.0	8325.	800.	27117.	39.	4.5	4824.	263.0	1979.
2.75	30.	18.1	8168.	1052.	26606.	56.	4.4	4824.	274.3	1979.
2.75	36.	13.9	8086.	1171.	26338.	69.	4.5	4824.	280.3	1979.
2.75	42.	11.2	8033.	1234.	26165.	79.	4.6	4824.	284.0	1979.

ROD NO. 64			PUMP DEPTH 2000.			PRODUCTION 300.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.25	86.	19.1	5773.	307.	13060.	123.	10.4	2722.	297.7	2037.
1.25	100.	16.5	5682.	404.	12855.	142.	10.2	2722.	298.0	2037.
1.25	120.	13.7	5609.	430.	12689.	172.	9.9	2722.	298.3	2037.
1.25	144.	11.4	5521.	506.	12491.	212.	9.8	2722.	298.6	2037.
1.50	36.	32.1	6293.	128.	14237.	57.	7.5	3122.	292.0	2180.
1.50	42.	27.8	6173.	310.	13965.	62.	7.4	3122.	293.0	2180.
1.50	48.	24.4	5993.	472.	13559.	68.	7.1	3122.	293.9	2180.
1.50	54.	21.9	5934.	603.	13424.	74.	7.4	3122.	294.5	2180.
1.50	64.	18.2	5737.	910.	12980.	82.	7.4	3122.	295.4	2180.
1.50	74.	15.7	5692.	891.	12879.	94.	7.2	3122.	296.1	2180.
1.50	86.	13.5	5640.	886.	12760.	108.	7.0	3122.	296.6	2180.
1.50	100.	11.6	5581.	929.	12626.	127.	7.0	3122.	297.1	2180.
1.50	120.	9.7	5497.	1060.	12437.	159.	7.2	3122.	297.6	2180.
1.50	144.	8.0	5398.	1199.	12213.	200.	7.5	3122.	298.0	2180.
1.75	24.	37.4	6746.	267.	15262.	43.	6.3	3594.	287.5	2349.
1.75	30.	29.7	6628.	586.	14996.	50.	6.0	3594.	290.1	2349.
1.75	36.	24.9	6458.	725.	14611.	55.	5.9	3594.	291.7	2349.
1.75	42.	21.3	6315.	1000.	14288.	59.	6.0	3594.	292.9	2349.
1.75	48.	18.5	6171.	1255.	13962.	62.	6.2	3594.	293.8	2349.
1.75	54.	16.4	6129.	1230.	13866.	68.	6.1	3594.	294.5	2349.
1.75	64.	13.7	6071.	1193.	13735.	79.	5.9	3594.	295.4	2349.
1.75	74.	11.8	6016.	1210.	13612.	91.	5.8	3594.	296.1	2349.
1.75	86.	10.1	5954.	1327.	13471.	108.	5.9	3594.	296.6	2349.
1.75	100.	8.6	5865.	1459.	13270.	130.	5.9	3594.	297.1	2349.

		ROD NO. 65		PUMP DEPTH 2000.			PRODUCTION 300.			
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.25	86.	19.1	6554.	198.	14627.	146.	11.8	2977.	297.7	2278.
1.25	100.	16.5	6444.	322.	14580.	169.	11.6	2977.	298.0	2278.
1.25	120.	13.7	6357.	362.	14381.	207.	11.2	2977.	298.4	2278.
1.25	144.	11.4	6251.	456.	14143.	255.	11.1	2977.	298.6	2278.
1.50	36.	31.8	6704.	79.	15167.	60.	7.9	3270.	292.3	2320.
1.50	42.	27.2	6519.	296.	14749.	66.	7.6	3270.	293.2	2320.
1.50	48.	24.2	6375.	438.	14422.	73.	7.5	3270.	294.0	2320.
1.50	54.	21.5	6277.	616.	14202.	80.	7.6	3270.	294.6	2320.
1.50	64.	18.2	6107.	904.	13817.	89.	7.7	3270.	295.5	2320.
1.50	74.	15.7	6059.	890.	13707.	103.	7.6	3270.	296.1	2320.
1.50	86.	13.5	6001.	891.	13578.	120.	7.4	3270.	296.6	2320.
1.50	100.	11.6	5936.	941.	13430.	141.	7.4	3270.	297.1	2320.
1.50	120.	9.6	5844.	1081.	13221.	176.	7.6	3270.	297.6	2320.
1.50	144.	7.9	5709.	1249.	12916.	221.	7.8	3270.	298.0	2320.
1.75	24.	37.4	6808.	254.	15404.	44.	6.4	3616.	287.5	2370.
1.75	30.	29.5	6669.	592.	15089.	50.	6.0	3616.	290.2	2370.
1.75	36.	24.8	6500.	736.	14706.	55.	5.9	3616.	291.7	2370.
1.75	42.	21.2	6359.	1014.	14386.	59.	6.1	3616.	292.9	2370.
1.75	48.	18.5	6218.	1261.	14068.	63.	6.2	3616.	293.8	2370.
1.75	54.	16.3	6176.	1234.	13973.	69.	6.1	3616.	294.5	2370.
1.75	64.	13.7	6118.	1198.	13841.	81.	5.9	3616.	295.4	2370.
1.75	74.	11.8	6063.	1217.	13717.	92.	5.9	3616.	296.1	2370.
1.75	86.	10.1	6000.	1334.	13574.	110.	5.9	3616.	296.6	2370.
1.75	100.	8.6	5910.	1467.	13371.	132.	6.0	3616.	297.1	2370.
2.00	16.	47.9	7326.	183.	16576.	27.	6.3	4015.	273.1	2428.
2.00	24.	30.8	7016.	844.	15872.	42.	5.3	4015.	282.5	2428.
2.00	30.	24.3	6943.	793.	15707.	51.	5.3	4015.	286.2	2428.
2.00	36.	20.0	6779.	1168.	15338.	56.	5.3	4015.	288.6	2428.
2.00	42.	17.0	6656.	1376.	15059.	60.	5.3	4015.	290.4	2428.
2.00	48.	14.7	6582.	1405.	14892.	64.	5.3	4015.	291.7	2428.
2.00	54.	12.9	6512.	1387.	14732.	68.	5.2	4015.	292.7	2428.
2.00	64.	10.7	6411.	1483.	14506.	78.	5.2	4015.	293.9	2428.
2.00	74.	9.2	6353.	1604.	14374.	92.	5.2	4015.	294.8	2428.
2.25	20.	34.2	7639.	811.	17283.	35.	5.4	4466.	268.7	2492.
2.25	24.	26.3	7534.	1042.	17045.	43.	4.9	4466.	276.1	2492.
2.25	30.	20.5	7429.	1237.	16807.	52.	4.8	4466.	281.2	2492.
2.25	36.	16.5	7332.	1441.	16587.	60.	4.8	4466.	284.9	2492.
2.25	42.	13.9	7247.	1556.	16396.	66.	4.8	4466.	287.3	2492.
2.25	48.	12.0	7168.	1598.	16217.	71.	4.8	4466.	289.1	2492.
2.25	54.	10.5	7093.	1654.	16047.	76.	4.8	4466.	290.4	2492.
2.50	20.	31.2	8333.	1127.	18852.	35.	5.0	4972.	269.9	2565.
2.50	24.	23.8	8242.	1203.	18647.	45.	4.7	4972.	277.1	2565.
2.50	30.	18.0	8124.	1546.	18300.	57.	4.7	4972.	282.7	2565.
2.50	36.	14.3	8064.	1628.	18244.	66.	4.7	4972.	286.2	2565.
2.50	42.	11.8	8020.	1754.	18145.	75.	4.7	4972.	288.6	2565.
2.75	20.	29.1	9250.	1261.	20927.	36.	4.8	5530.	259.0	2646.
2.75	24.	21.7	9098.	1393.	20583.	48.	4.6	5530.	269.3	2646.
2.75	30.	16.0	8992.	1658.	20343.	62.	4.6	5530.	277.4	2646.
2.75	36.	12.5	8923.	1742.	20188.	73.	4.6	5530.	282.2	2646.

		ROD NO. 66		PUMP DEPTH 2000.			PRODUCTION 300.			
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.25	86.	19.1	8054.	169.	18221.	185.	14.1	3584.	297.7	2850.
1.25	100.	16.5	7913.	358.	17902.	214.	13.9	3584.	298.0	2850.
1.25	120.	13.7	7800.	404.	17646.	263.	13.4	3584.	298.4	2850.
1.25	144.	11.4	7664.	528.	17339.	327.	13.3	3584.	298.6	2850.
1.50	36.	30.7	7849.	194.	17759.	70.	8.7	3832.	292.5	2850.
1.50	42.	26.9	7706.	331.	17434.	79.	8.6	3832.	293.4	2850.
1.50	48.	23.8	7521.	524.	17016.	88.	8.5	3832.	294.1	2850.
1.50	54.	21.2	7365.	761.	16709.	95.	8.6	3832.	294.7	2850.
1.50	64.	17.9	7189.	1085.	16264.	108.	8.6	3832.	295.5	2850.
1.50	74.	15.5	7132.	1081.	16136.	125.	8.4	3832.	296.1	2850.
1.50	86.	13.3	7064.	1095.	15982.	146.	8.2	3832.	296.7	2850.
1.50	100.	11.4	6985.	1169.	15803.	174.	8.2	3832.	297.1	2850.
1.50	120.	9.5	6872.	1330.	15547.	218.	8.6	3832.	297.6	2850.
1.50	144.	7.9	6736.	1505.	15239.	275.	9.0	3832.	298.0	2850.
1.75	16.	50.4	7891.	318.	17853.	32.	6.8	4124.	283.5	2850.
1.75	20.	43.4	7924.	208.	17927.	42.	7.0	4124.	285.5	2850.
1.75	24.	35.6	7682.	461.	17381.	47.	6.5	4124.	288.1	2850.
1.75	30.	28.3	7512.	832.	16996.	54.	6.3	4124.	290.6	2850.
1.75	36.	24.2	7339.	1046.	16604.	60.	6.3	4124.	292.0	2850.
1.75	42.	20.8	7207.	1288.	16305.	66.	6.5	4124.	293.1	2850.
1.75	48.	18.2	7062.	1501.	16023.	73.	6.6	4124.	293.9	2850.
1.75	54.	16.1	7040.	1470.	15927.	80.	6.5	4124.	294.6	2850.
1.75	64.	13.4	6949.	1457.	15721.	94.	6.3	4124.	295.5	2850.
1.75	74.	11.6	6887.	1501.	15581.	110.	6.2	4124.	296.1	2850.
1.75	86.	9.9	6814.	1628.	15417.	131.	6.4	4124.	296.7	2850.
1.75	100.	8.5	6731.	1757.	15229.	158.	6.5	4124.	297.2	2850.
2.00	20.	37.4	7966.	499.	18023.	40.	6.1	4462.	278.9	2850.
2.00	24.	28.9	7724.	1025.	17475.	46.	5.3	4462.	283.6	2850.
2.00	30.	23.2	7567.	1179.	17120.	53.	5.3	4462.	286.7	2850.
2.00	36.	19.5	7416.	1534.	16779.	56.	5.6	4462.	289.0	2850.
2.00	42.	16.6	7296.	1682.	16507.	63.	5.6	4462.	290.6	2850.
2.00	48.	14.2	7195.	1674.	16277.	67.	5.5	4462.	291.9	2850.
2.00	54.	12.6	7149.	1642.	16174.	74.	5.4	4462.	292.8	2850.
2.00	64.	10.5	7078.	1769.	16013.	89.	5.4	4462.	294.0	2850.
2.00	74.	9.1	7011.	1898.	15862.	106.	5.5	4462.	294.8	2850.
2.25	20.	31.6	8170.	1159.	18484.	38.	5.2	4845.	271.2	2850.
2.25	24.	24.9	8090.	1201.	18303.	46.	4.9	4845.	277.3	2850.
2.25	30.	19.6	7954.	1495.	17995.	56.	4.9	4845.	282.2	2850.
2.25	36.	16.0	7828.	1736.	17711.	62.	4.9	4845.	285.4	2850.
2.25	42.	13.5	7736.	1805.	17502.	67.	4.9	4845.	287.7	2850.
2.25	48.	11.7	7649.	1831.	17304.	72.	4.9	4845.	289.4	2850.
2.25	54.	10.3	7565.	1909.	17115.	78.	5.0	4845.	290.7	2850.
2.50	16.	37.3	8781.	829.	19867.	28.	5.1	5273.	264.3	2850.
2.50	20.	28.4	8702.	1347.	19688.	38.	4.8	5273.	272.4	2850.
2.50	24.	22.0	8636.	1487.	19539.	48.	4.6	5273.	278.6	2850.
2.50	30.	17.1	8523.	1749.	19282.	58.	4.7	5273.	283.5	2850.
2.50	36.	13.6	8457.	1887.	19133.	68.	4.7	5273.	286.8	2850.
2.50	42.	11.4	8374.	1974.	18946.	75.	4.7	5273.	289.0	2850.
2.75	16.	35.3	9557.	1170.	21621.	27.	4.7	5746.	250.4	2850.
2.75	20.	26.5	9464.	1416.	21411.	39.	4.6	5746.	262.2	2850.
2.75	24.	20.5	9364.	1597.	21185.	51.	4.6	5746.	271.1	2850.
2.75	30.	15.3	9265.	1829.	20962.	63.	4.7	5746.	278.4	2850.
2.75	36.	12.1	9199.	1942.	20812.	74.	4.6	5746.	282.9	2850.
3.75	30.	12.8	13480.	1951.	30499.	78.	4.4	8089.	247.2	2850.

		ROD NO. 75		PUMP DEPTH 2000.			PRODUCTION 300.			
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.25	86.	19.1	7397.	347.	12308.	161.	12.8	3425.	297.7	2700.
1.25	100.	16.5	7274.	491.	12103.	187.	12.6	3425.	298.0	2700.
1.25	120.	13.7	7174.	543.	11937.	226.	12.2	3425.	298.4	2700.
1.25	144.	11.4	7055.	651.	11739.	282.	12.1	3425.	298.6	2700.

1.50	36.	31.8	7627.	213.	12690.	67.	8.7	3780.	292.2	2801.
1.50	42.	27.2	7414.	465.	12336.	74.	8.3	3780.	293.2	2801.
1.50	48.	24.1	7245.	630.	12055.	81.	8.2	3780.	294.0	2801.
1.50	54.	21.5	7130.	838.	11863.	88.	8.3	3780.	294.6	2801.
1.50	64.	18.1	6931.	1171.	11532.	99.	8.4	3780.	295.5	2801.
1.50	74.	15.6	6876.	1163.	11441.	115.	8.2	3780.	296.1	2801.
1.50	86.	13.5	6811.	1173.	11332.	133.	8.0	3780.	296.6	2801.
1.50	100.	11.6	6736.	1234.	11208.	157.	7.9	3780.	297.1	2801.
1.50	120.	9.5	6602.	1408.	10985.	196.	8.1	3780.	297.6	2801.
1.50	144.	7.9	6478.	1572.	10778.	248.	8.5	3780.	298.0	2801.
1.75	20.	45.2	8029.	263.	13359.	42.	7.4	4198.	284.8	2919.
1.75	24.	35.7	7642.	612.	12716.	46.	6.4	4198.	288.1	2919.
1.75	30.	29.4	7612.	872.	12665.	54.	6.6	4198.	290.2	2919.
1.75	36.	24.6	7366.	1116.	12255.	59.	6.3	4198.	291.8	2919.
1.75	42.	21.0	7214.	1389.	12004.	65.	6.5	4198.	293.0	2919.
1.75	48.	18.3	7071.	1624.	11765.	70.	6.6	4198.	293.9	2919.
1.75	54.	16.2	7028.	1592.	11695.	77.	6.5	4198.	294.6	2919.
1.75	64.	13.6	6962.	1566.	11584.	90.	6.3	4198.	295.5	2919.
1.75	74.	11.7	6899.	1598.	11480.	104.	6.2	4198.	296.1	2919.
1.75	86.	10.0	6806.	1742.	11324.	124.	6.3	4198.	296.7	2919.
1.75	100.	8.5	6726.	1869.	11191.	149.	6.4	4198.	297.1	2919.
2.00	16.	47.2	8454.	142.	14067.	32.	6.6	4684.	273.4	3059.
2.00	20.	36.1	8090.	908.	13460.	40.	5.8	4684.	279.5	3059.
2.00	24.	29.8	8041.	1176.	13380.	47.	5.6	4684.	283.1	3059.
2.00	30.	23.8	7855.	1309.	13070.	54.	5.5	4684.	286.5	3059.
2.00	36.	19.6	7658.	1719.	12742.	58.	5.6	4684.	288.9	3059.
2.00	42.	16.6	7526.	1881.	12523.	63.	5.6	4684.	290.6	3059.
2.00	48.	14.3	7424.	1872.	12352.	67.	5.5	4684.	291.8	3059.
2.00	54.	12.6	7377.	1840.	12275.	73.	5.4	4684.	292.8	3059.
2.00	64.	10.6	7305.	1967.	12155.	88.	5.4	4684.	294.0	3059.
2.00	74.	9.1	7237.	2097.	12042.	105.	5.5	4684.	294.8	3059.
2.25	20.	30.5	8630.	1505.	14359.	40.	5.1	5232.	272.1	3214.
2.25	24.	24.9	8605.	1429.	14318.	48.	5.1	5232.	277.3	3214.
2.25	30.	19.5	8419.	1815.	14008.	56.	5.0	5232.	282.2	3214.
2.25	36.	15.9	8279.	2052.	13776.	62.	5.0	5232.	285.5	3214.
2.25	42.	13.4	8180.	2101.	13610.	67.	5.0	5232.	287.8	3214.
2.25	48.	11.6	8086.	2124.	13454.	72.	5.0	5232.	289.4	3214.
2.25	54.	10.2	7996.	2215.	13304.	78.	5.1	5232.	290.7	3214.

ROD NO. 76			PUMP DEPTH 2000.			PRODUCTION 300.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.25	86.	19.1	8669.	242.	14424.	196.	15.0	3887.	297.7	3136.
1.25	100.	16.5	8517.	427.	14171.	228.	14.7	3887.	298.0	3136.
1.25	120.	13.7	8395.	502.	13968.	280.	14.2	3887.	298.4	3136.
1.25	144.	11.4	8248.	637.	13724.	347.	14.1	3887.	298.6	3136.
1.50	36.	31.1	8543.	190.	14215.	75.	9.4	4168.	292.4	3167.
1.50	42.	27.2	8381.	376.	13945.	85.	9.3	4168.	293.4	3167.
1.50	48.	23.8	8117.	635.	13507.	93.	9.0	4168.	294.1	3167.
1.50	54.	21.2	7969.	893.	13260.	101.	9.0	4168.	294.7	3167.
1.50	64.	17.9	7756.	1247.	12904.	115.	9.1	4168.	295.5	3167.
1.50	74.	15.5	7694.	1248.	12802.	133.	8.9	4168.	296.1	3167.
1.50	86.	13.3	7620.	1268.	12679.	156.	8.7	4168.	296.7	3167.
1.50	100.	11.4	7534.	1349.	12535.	185.	8.7	4168.	297.1	3167.
1.50	120.	9.5	7410.	1520.	12330.	232.	9.0	4168.	297.6	3167.
1.50	144.	7.9	7262.	1707.	12084.	293.	9.4	4168.	298.0	3167.
1.75	20.	43.7	8612.	270.	14330.	45.	7.5	4498.	285.5	3202.
1.75	24.	35.0	8252.	666.	13731.	49.	6.7	4498.	288.4	3202.
1.75	30.	28.5	8142.	998.	13547.	57.	6.7	4498.	290.5	3202.
1.75	36.	24.2	7927.	1232.	13189.	64.	6.6	4498.	292.0	3202.
1.75	42.	20.8	7787.	1484.	12957.	71.	6.8	4498.	293.1	3202.
1.75	48.	18.1	7640.	1723.	12712.	77.	6.9	4498.	294.0	3202.
1.75	54.	16.1	7594.	1696.	12636.	86.	6.8	4498.	294.7	3202.
1.75	64.	13.4	7498.	1690.	12475.	100.	6.5	4498.	295.5	3202.
1.75	74.	11.5	7430.	1741.	12363.	117.	6.5	4498.	296.1	3202.
1.75	86.	9.9	7351.	1874.	12232.	140.	6.6	4498.	296.7	3202.
1.75	100.	8.5	7260.	2011.	12080.	168.	6.8	4498.	297.2	3202.
2.00	20.	35.2	8465.	997.	14084.	42.	5.8	4882.	279.9	3246.
2.00	24.	28.9	8358.	1261.	13907.	48.	5.6	4882.	283.6	3246.
2.00	30.	23.1	8149.	1483.	13559.	55.	5.6	4882.	286.8	3246.
2.00	36.	19.4	7974.	1865.	13269.	60.	5.8	4882.	289.0	3246.
2.00	42.	16.3	7822.	2002.	13014.	64.	5.7	4882.	290.7	3246.
2.00	48.	14.2	7762.	1962.	12915.	71.	5.6	4882.	291.9	3246.
2.00	54.	12.5	7713.	1934.	12833.	78.	5.5	4882.	292.9	3246.
2.00	64.	10.5	7636.	2073.	12705.	95.	5.6	4882.	294.0	3246.
2.00	74.	9.0	7563.	2208.	12583.	113.	5.6	4882.	294.9	3246.
2.25	20.	30.0	8780.	1527.	14609.	41.	5.1	5315.	272.6	3293.
2.25	24.	24.6	8741.	1446.	14544.	49.	5.1	5315.	277.6	3293.
2.25	30.	19.3	8539.	1888.	14208.	57.	5.1	5315.	282.4	3293.
2.25	36.	15.8	8401.	2106.	13979.	62.	5.1	5315.	285.6	3293.
2.25	42.	13.4	8300.	2142.	13810.	68.	5.1	5315.	287.9	3293.
2.25	48.	11.6	8203.	2165.	13648.	73.	5.1	5315.	289.5	3293.
2.25	54.	10.2	8111.	2263.	13495.	79.	5.1	5315.	290.8	3293.
2.50	16.	36.9	9569.	1218.	15922.	31.	5.7	5800.	264.6	3347.
2.50	20.	26.4	9373.	1706.	15595.	41.	4.8	5800.	274.4	3347.
2.50	24.	21.4	9310.	1867.	15492.	50.	4.8	5800.	279.2	3347.
2.50	30.	16.4	9163.	2159.	15246.	61.	4.8	5800.	284.0	3347.
2.50	36.	13.3	9075.	2308.	15099.	69.	4.8	5800.	287.1	3347.
2.50	42.	11.2	8967.	2375.	14920.	75.	4.8	5800.	289.2	3347.
2.75	16.	34.8	10361.	1495.	17639.	32.	5.3	6336.	251.1	3406.
2.75	20.	24.5	10151.	1819.	16900.	43.	4.7	6336.	265.5	3406.
2.75	24.	19.4	10075.	2133.	16763.	54.	4.7	6336.	272.6	3406.
2.75	30.	14.6	9964.	2314.	16580.	66.	4.7	6336.	279.4	3406.
2.75	36.	11.6	9899.	2472.	16471.	76.	4.7	6336.	283.7	3406.
3.75	24.	15.2	14554.	2581.	24216.	65.	4.3	8989.	237.0	3699.

ROD NO. 77			PUMP DEPTH 2000.			PRODUCTION 300.				
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.25	86.	19.1	10576.	232.	17597.	245.	18.0	4675.	297.7	3879.
1.25	100.	16.5	10384.	474.	17278.	285.	17.6	4675.	298.1	3879.
1.25	120.	13.7	10230.	580.	17022.	351.	16.9	4675.	298.4	3879.
1.25	144.	11.4	10045.	754.	16714.	437.	16.8	4675.	298.6	3879.
1.50	36.	30.4	10067.	318.	16750.	88.	10.5	4922.	292.6	3879.
1.50	42.	26.7	9884.	493.	16446.	101.	10.5	4922.	293.5	3879.
1.50	48.	23.8	9683.	714.	16111.	113.	10.4	4922.	294.2	3879.
1.50	54.	21.2	9498.	1037.	15803.	123.	10.5	4922.	294.8	3879.
1.50	64.	17.9	9231.	1482.	15359.	139.	10.4	4922.	295.6	3879.
1.50	74.	15.5	9154.	1499.	15231.	162.	10.2	4922.	296.2	3879.
1.50	86.	13.3	9061.	1538.	15077.	191.	9.9	4922.	296.7	3879.
1.50	100.	11.4	8953.	1640.	14897.	228.	9.9	4922.	297.2	3879.
1.50	120.	9.5	8799.	1841.	14611.	286.	10.4	4922.	297.6	3879.
1.50	144.	7.9	8614.	2066.	14333.	362.	10.9	4922.	298.0	3879.
1.75	16.	49.6	9907.	511.	16484.	40.	7.7	5215.	283.9	3879.
1.75	20.	42.0	9858.	436.	16403.	50.	7.9	5215.	286.0	3879.
1.75	24.	34.6	9579.	858.	15939.	55.	7.4	5215.	288.8	3879.
1.75	30.	28.0	9396.	1270.	15634.	64.	7.4	5215.	290.9	3879.
1.75	36.	23.6	9125.	1547.	15182.	73.	7.2	5215.	292.2	3879.
1.75	42.	20.3	8957.	1854.	14903.	81.	7.4	5215.	293.2	3879.
1.75	48.	17.8	8814.	2080.	14666.	90.	7.4	5215.	294.1	3879.
1.75	54.	15.8	8764.	2061.	14582.	100.	7.3	5215.	294.7	3879.

1.75	64.	13.3	8682.	2057.	14445.	119.	7.1	5215.	295.6	3879.
1.75	74.	11.5	8601.	2126.	14311.	140.	7.1	5215.	296.2	3879.
1.75	86.	9.9	8505.	2276.	14151.	168.	7.3	5215.	296.7	3879.
1.75	100.	8.5	8394.	2433.	13967.	202.	7.5	5215.	297.2	3879.
2.00	16.	43.2	9811.	511.	16324.	38.	6.5	5553.	275.6	3879.
2.00	20.	33.6	9515.	1386.	15833.	46.	6.0	5553.	280.8	3879.
2.00	24.	27.6	9326.	1669.	15517.	51.	5.7	5553.	284.2	3879.
2.00	30.	22.6	9124.	1977.	15182.	59.	5.9	5553.	287.2	3879.
2.00	36.	18.8	8903.	2407.	14813.	64.	6.2	5553.	289.3	3879.
2.00	42.	16.0	8819.	2403.	14673.	72.	6.1	5553.	290.9	3879.
2.00	48.	14.0	8760.	2366.	14575.	81.	5.9	5553.	292.1	3879.
2.00	54.	12.4	8704.	2347.	14482.	91.	5.8	5553.	293.0	3879.
2.00	64.	10.4	8615.	2510.	14334.	110.	5.9	5553.	294.1	3879.
2.25	74.	8.9	8505.	2676.	14151.	131.	5.9	5553.	294.9	3879.
2.25	16.	38.2	9661.	847.	16574.	37.	5.9	5936.	265.4	3879.
2.25	20.	28.4	9697.	1831.	16136.	45.	5.2	5936.	274.2	3879.
2.25	24.	23.6	9595.	1864.	15964.	52.	5.2	5936.	278.6	3879.
2.25	30.	18.8	9342.	2431.	15544.	59.	5.3	5936.	283.0	3879.
2.25	36.	15.4	9207.	2556.	15320.	65.	5.3	5936.	286.0	3879.
2.25	42.	13.1	9092.	2535.	15128.	70.	5.3	5936.	288.1	3879.
2.25	48.	11.2	8987.	2603.	14954.	78.	5.2	5936.	289.7	3879.
2.25	54.	9.9	8929.	2731.	14857.	89.	5.2	5936.	290.9	3879.
2.50	16.	33.8	10304.	1766.	17144.	35.	5.3	6364.	267.3	3879.
2.50	20.	24.8	10152.	2017.	16893.	45.	4.8	6364.	276.1	3879.
2.50	24.	20.3	10027.	2291.	16684.	53.	4.8	6364.	280.3	3879.
2.50	30.	15.8	9879.	2596.	16438.	63.	4.9	6364.	284.7	3879.
2.50	36.	12.9	9751.	2709.	16225.	70.	4.8	6364.	287.5	3879.
2.50	42.	10.9	9631.	2778.	16025.	77.	4.9	6364.	289.5	3879.
2.75	16.	31.4	10928.	2062.	18183.	35.	5.0	6837.	255.6	3879.
2.75	20.	22.4	10777.	2278.	17931.	46.	4.6	6837.	268.2	3879.
2.75	24.	18.2	10670.	2596.	17753.	56.	4.7	6837.	274.3	3879.
2.75	30.	13.8	10589.	2735.	17618.	68.	4.7	6837.	280.5	3879.
2.75	36.	11.1	10482.	2886.	17441.	78.	4.7	6837.	284.3	3879.
3.75	24.	14.3	14735.	2770.	24518.	69.	4.4	9180.	240.6	3879.

ROD NO. 44			PUMP DEPTH 2000.				PRODUCTION 400.			
PU-P DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.50	74.	21.1	4610.	10.	23519.	87.	8.9	2153.	394.7	1266.
1.50	86.	18.3	4522.	187.	23070.	97.	9.2	2153.	395.4	1266.
1.50	100.	15.6	4460.	170.	22756.	111.	8.9	2153.	396.1	1266.
1.50	120.	12.9	4405.	158.	22474.	133.	8.6	2153.	396.8	1266.
1.50	144.	10.8	4340.	242.	22145.	163.	8.7	2153.	397.3	1266.
1.50	168.	9.2	4277.	343.	21822.	197.	8.9	2153.	397.7	1266.
1.50	192.	8.0	4215.	433.	21504.	232.	9.1	2153.	398.0	1266.
1.75	54.	22.4	4865.	36.	24823.	70.	7.2	2446.	392.5	1266.
1.75	64.	19.1	4755.	290.	24259.	76.	7.4	2446.	393.7	1266.
1.75	74.	16.4	4674.	368.	23848.	81.	7.5	2446.	394.6	1266.
1.75	86.	13.8	4595.	352.	23443.	88.	7.3	2446.	395.4	1266.
1.75	100.	11.8	4549.	357.	23208.	101.	7.2	2446.	396.1	1266.
1.75	120.	9.8	4488.	484.	22897.	125.	7.2	2446.	396.7	1266.
1.75	144.	8.1	4419.	607.	22543.	155.	7.4	2446.	397.3	1266.
1.75	168.	6.9	4352.	712.	22204.	187.	7.5	2446.	397.7	1266.
2.00	36.	29.4	5381.	35.	27452.	53.	6.7	2784.	383.3	1266.
2.00	42.	24.2	5340.	23.	27243.	61.	6.5	2784.	386.2	1266.
2.00	48.	21.0	5277.	165.	26923.	68.	6.5	2784.	388.1	1266.
2.00	54.	18.4	5209.	314.	26577.	74.	6.5	2784.	389.5	1266.
2.00	64.	15.2	5137.	436.	26209.	81.	6.5	2784.	391.3	1266.
2.00	74.	13.0	5069.	479.	25862.	88.	6.5	2784.	392.6	1266.
2.00	86.	11.0	4992.	521.	25467.	96.	6.5	2784.	393.7	1266.
2.00	100.	9.3	4906.	609.	25030.	106.	6.6	2784.	394.7	1266.
2.00	120.	7.6	4808.	753.	24531.	126.	6.6	2784.	395.6	1266.
2.25	36.	26.2	5885.	132.	30025.	55.	6.2	3167.	376.2	1266.
2.25	42.	21.2	5842.	267.	29808.	65.	6.1	3167.	380.6	1266.
2.25	48.	18.3	5789.	426.	29535.	73.	6.2	3167.	383.4	1266.
2.25	54.	15.8	5759.	456.	29384.	80.	6.2	3167.	385.7	1266.
2.25	64.	12.8	5720.	556.	29184.	92.	6.3	3167.	388.4	1266.
2.25	74.	10.7	5657.	622.	28862.	101.	6.2	3167.	390.2	1266.
2.25	86.	9.0	5576.	675.	28450.	110.	6.2	3167.	391.8	1266.
2.50	30.	32.4	6714.	77.	34253.	41.	6.2	3595.	368.9	1266.
2.50	36.	24.5	6603.	180.	33690.	56.	6.0	3595.	376.3	1266.
2.50	42.	19.7	6533.	332.	33333.	71.	6.1	3595.	381.0	1266.
2.50	48.	16.4	6482.	459.	33072.	80.	6.0	3595.	384.2	1266.
2.50	54.	14.0	6446.	505.	32890.	89.	6.1	3595.	386.5	1266.
2.50	64.	11.2	6396.	594.	32635.	102.	6.1	3595.	389.2	1266.
2.50	74.	9.3	6361.	676.	32453.	115.	6.1	3595.	391.0	1266.
2.75	64.	10.0	6195.	641.	36703.	115.	6.0	4068.	385.8	1266.

ROD NO. 54			PUMP DEPTH 2000.				PRODUCTION 400.			
PU-P DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.50	74.	21.0	5439.	93.	17716.	101.	9.9	2563.	394.7	1653.
1.50	86.	18.1	5296.	327.	17249.	111.	10.0	2563.	395.5	1653.
1.50	100.	15.5	5247.	310.	17092.	129.	9.8	2563.	396.1	1653.
1.50	120.	12.9	5180.	310.	16873.	154.	9.5	2563.	396.8	1653.
1.50	144.	10.7	5101.	410.	16616.	190.	9.6	2563.	397.3	1653.
1.50	168.	9.2	5023.	526.	16362.	230.	9.9	2563.	397.7	1653.
1.50	192.	8.0	4946.	631.	16111.	273.	10.2	2563.	398.0	1653.
1.75	42.	28.4	5929.	12.	19314.	67.	8.0	2934.	390.5	1727.
1.75	48.	24.9	5796.	124.	18878.	71.	7.8	2934.	391.7	1727.
1.75	54.	22.1	5690.	326.	18534.	75.	7.9	2934.	392.6	1727.
1.75	64.	18.5	5511.	655.	17950.	80.	8.2	2934.	393.8	1727.
1.75	74.	15.9	5459.	624.	17781.	90.	8.0	2934.	394.7	1727.
1.75	86.	13.6	5408.	593.	17615.	103.	7.8	2934.	395.5	1727.
1.75	100.	11.7	5352.	619.	17434.	118.	7.7	2934.	396.1	1727.
1.75	120.	9.7	5277.	759.	17187.	146.	7.9	2934.	396.8	1727.
1.75	144.	7.9	5172.	914.	16846.	183.	7.9	2934.	397.3	1727.
1.75	168.	6.8	5089.	1034.	16576.	223.	8.2	2934.	397.7	1727.
2.00	30.	33.2	6407.	108.	20869.	52.	7.2	3359.	381.1	1809.
2.00	36.	27.2	6358.	202.	20711.	62.	7.0	3359.	384.6	1809.
2.00	42.	23.1	6268.	282.	20418.	69.	7.0	3359.	386.9	1809.
2.00	48.	20.1	6148.	554.	20026.	73.	7.0	3359.	388.6	1809.
2.00	54.	17.7	6045.	745.	19690.	77.	7.0	3359.	390.0	1809.
2.00	64.	14.7	5953.	793.	19391.	84.	7.0	3359.	391.7	1809.
2.00	74.	12.6	5866.	768.	19107.	89.	6.9	3359.	392.9	1809.
2.00	86.	10.6	5778.	877.	18820.	102.	6.9	3359.	393.9	1809.
2.00	100.	9.0	5717.	1002.	18623.	121.	6.9	3359.	394.8	1809.
2.00	120.	7.5	5636.	1149.	18359.	150.	7.0	3359.	395.7	1809.

ROD NO. 55			PUMP DEPTH 2000.				PRODUCTION 400.			
PU-P DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.50	74.	20.6	6264.	99.	20405.	119.	10.9	2909.	394.8	1979.
1.50	86.	17.9	6144.	325.	20012.	134.	11.2	2909.	395.5	1979.
1.50	100.	15.4	6086.	319.	19824.	156.	11.0	2909.	396.2	1979.
1.50	120.	12.7	5977.	350.	19469.	189.	10.5	2909.	396.8	1979.
1.50	144.	10.6	5883.	475.	19162.	234.	10.7	2909.	397.3	1979.
1.50	168.	9.1	5788.	607.	18854.	283.	11.1	2909.	397.7	1979.

1.50	192.	7.9	5694.	730.	18546.	337.	11.4	2909.	398.0	1979.
1.75	36.	31.1	6517.	14.	21227.	64.	8.0	3202.	389.6	1979.
1.75	42.	27.2	6434.	109.	20957.	70.	8.1	3202.	390.9	1979.
1.75	48.	24.3	6323.	247.	20597.	76.	8.2	3202.	391.9	1979.
1.75	54.	21.6	6216.	463.	20248.	81.	8.4	3202.	392.8	1979.
1.75	64.	18.3	6065.	725.	19755.	90.	8.6	3202.	393.9	1979.
1.75	74.	15.7	6014.	685.	19591.	102.	8.5	3202.	394.8	1979.
1.75	86.	13.5	5958.	662.	19406.	117.	8.3	3202.	395.5	1979.
1.75	100.	11.4	5873.	723.	19129.	137.	8.1	3202.	396.2	1979.
1.75	120.	9.5	5788.	871.	18854.	170.	8.3	3202.	396.8	1979.
1.75	144.	7.9	5689.	1023.	18531.	213.	8.5	3202.	397.4	1979.
1.75	168.	6.8	5591.	1159.	18212.	260.	8.8	3202.	397.7	1979.
2.00	30.	31.8	6761.	207.	22023.	56.	7.1	3540.	381.9	1979.
2.00	36.	26.0	6674.	237.	21740.	65.	7.0	3540.	385.1	1979.
2.00	42.	22.5	6575.	421.	21418.	70.	7.1	3540.	387.3	1979.
2.00	48.	19.6	6450.	696.	21009.	75.	7.2	3540.	388.9	1979.
2.00	54.	17.3	6353.	853.	20693.	79.	7.3	3540.	390.2	1979.
2.00	64.	14.5	6254.	866.	20371.	86.	7.2	3540.	391.8	1979.
2.00	74.	12.3	6162.	831.	20071.	94.	7.0	3540.	393.0	1979.
2.00	86.	10.5	6102.	963.	19876.	112.	7.1	3540.	394.0	1979.
2.00	100.	9.0	6036.	1093.	19660.	133.	7.1	3540.	394.9	1979.
2.00	120.	7.4	5946.	1248.	19368.	165.	7.3	3540.	395.8	1979.
2.25	16.	50.3	7243.	226.	23593.	25.	6.9	3923.	354.9	1979.
2.25	30.	27.6	7144.	441.	23271.	56.	6.6	3923.	374.9	1979.
2.25	36.	22.3	7062.	531.	23004.	65.	6.5	3923.	379.7	1979.
2.25	42.	18.8	6958.	763.	22663.	74.	6.5	3923.	382.8	1979.
2.25	48.	16.2	6888.	901.	22436.	80.	6.5	3923.	385.2	1979.
2.25	54.	14.2	6822.	976.	22220.	85.	6.5	3923.	387.0	1979.
2.25	64.	11.8	6717.	1021.	21881.	93.	6.5	3923.	389.3	1979.
2.25	74.	10.1	6619.	1108.	21560.	103.	6.5	3923.	390.9	1979.
2.25	86.	8.5	6506.	1236.	21193.	115.	6.6	3923.	392.2	1979.
2.50	24.	34.0	7829.	345.	25500.	42.	6.7	4351.	367.1	1979.
2.50	30.	24.5	7694.	563.	25061.	57.	6.1	4351.	376.2	1979.
2.50	36.	19.7	7625.	838.	24836.	69.	6.2	4351.	380.9	1979.
2.50	42.	16.5	7564.	946.	24639.	79.	6.2	4351.	384.1	1979.
2.50	48.	14.0	7525.	1028.	24511.	87.	6.3	4351.	386.5	1979.
2.50	54.	12.0	7481.	1145.	24368.	96.	6.3	4351.	388.3	1979.
2.50	64.	9.9	7372.	1196.	24012.	106.	6.2	4351.	390.4	1979.
2.75	24.	32.6	8530.	476.	28109.	41.	6.3	4824.	354.2	1979.
2.75	30.	23.2	8465.	661.	27573.	59.	6.0	4824.	367.2	1979.
2.75	36.	18.1	8379.	914.	27294.	75.	6.0	4824.	374.4	1979.
2.75	42.	14.8	8318.	1009.	27094.	86.	6.2	4824.	379.1	1979.
2.75	48.	12.4	8270.	1076.	26940.	96.	6.2	4824.	382.4	1979.
2.75	54.	10.6	8230.	1175.	26808.	105.	6.1	4824.	385.0	1979.

ROD NO. 64		PUMP DEPTH 2000.				PRODUCTION 400.				
PU/P DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.25	192.	11.4	6328.	26.	14317.	360.	15.9	2722.	398.6	2037.
1.50	74.	20.9	6562.	214.	14847.	120.	11.3	3122.	394.8	2180.
1.50	86.	18.0	6388.	499.	14453.	133.	11.3	3122.	395.5	2180.
1.50	100.	15.4	6329.	494.	14319.	155.	11.1	3122.	396.2	2180.
1.50	120.	12.8	6246.	511.	14130.	187.	10.7	3122.	396.8	2180.
1.50	144.	10.6	6117.	655.	13840.	230.	10.8	3122.	397.3	2180.
1.50	168.	9.1	6021.	789.	13623.	279.	11.1	3122.	397.7	2180.
1.50	192.	7.9	5926.	913.	13406.	333.	11.5	3122.	398.0	2180.
1.75	36.	31.7	7282.	70.	16474.	68.	8.9	3594.	389.5	2349.
1.75	42.	27.8	7199.	217.	16288.	75.	9.0	3594.	390.8	2349.
1.75	48.	24.3	6991.	435.	15816.	81.	8.7	3594.	391.9	2349.
1.75	54.	21.7	6887.	619.	15583.	87.	9.0	3594.	392.8	2349.
1.75	64.	18.2	6700.	926.	15158.	97.	9.1	3594.	393.9	2349.
1.75	74.	15.7	6644.	893.	15032.	110.	8.9	3594.	394.8	2349.
1.75	86.	13.3	6556.	889.	14832.	126.	8.5	3594.	395.5	2349.
1.75	100.	11.4	6487.	948.	14677.	148.	8.5	3594.	396.2	2349.
1.75	120.	9.5	6392.	1107.	14462.	184.	8.7	3594.	396.8	2349.
1.75	144.	7.9	6280.	1272.	14208.	232.	9.0	3594.	397.4	2349.
1.75	168.	6.8	6169.	1421.	13956.	285.	9.3	3594.	397.8	2349.

ROD NO. 65		PUMP DEPTH 2000.				PRODUCTION 400.				
PU/P DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.50	74.	20.6	6976.	185.	15783.	130.	11.8	3270.	394.8	2320.
1.50	86.	17.7	6802.	463.	15389.	146.	11.8	3270.	395.5	2320.
1.50	100.	15.2	6740.	464.	15248.	170.	11.6	3270.	396.2	2320.
1.50	120.	12.7	6650.	490.	15046.	207.	11.2	3270.	396.8	2320.
1.50	144.	10.6	6543.	627.	14803.	256.	11.5	3270.	397.3	2320.
1.50	168.	9.1	6436.	772.	14560.	311.	11.9	3270.	397.7	2320.
1.50	192.	7.9	6328.	908.	14318.	371.	12.3	3270.	398.0	2320.
1.75	36.	31.5	7337.	75.	16599.	69.	8.9	3616.	389.6	2370.
1.75	42.	27.7	7251.	220.	16405.	76.	9.1	3616.	390.8	2370.
1.75	48.	24.3	7045.	434.	15939.	82.	8.8	3616.	391.9	2370.
1.75	54.	21.6	6942.	619.	15705.	88.	9.0	3616.	392.8	2370.
1.75	64.	18.2	6756.	924.	15286.	98.	9.1	3616.	394.0	2370.
1.75	74.	15.6	6700.	891.	15159.	112.	8.9	3616.	394.8	2370.
1.75	86.	13.3	6612.	888.	14958.	126.	8.6	3616.	395.5	2370.
1.75	100.	11.4	6542.	949.	14802.	150.	8.6	3616.	396.2	2370.
1.75	120.	9.5	6446.	1109.	14583.	187.	8.8	3616.	396.8	2370.
1.75	144.	7.9	6332.	1276.	14325.	236.	9.1	3616.	397.4	2370.
1.75	168.	6.8	6219.	1426.	14070.	289.	9.4	3616.	397.8	2370.
2.00	30.	30.9	7554.	444.	17089.	61.	7.5	4015.	382.4	2428.
2.00	36.	26.1	7459.	483.	16876.	68.	7.6	4015.	385.2	2428.
2.00	42.	22.3	7296.	743.	16506.	74.	7.5	4015.	387.4	2428.
2.00	48.	19.4	7140.	1052.	16154.	78.	7.7	4015.	389.0	2428.
2.00	54.	17.0	7009.	1195.	15858.	81.	7.6	4015.	390.3	2428.
2.00	64.	14.2	6924.	1157.	15664.	91.	7.5	4015.	391.9	2428.
2.00	74.	12.2	6863.	1130.	15527.	103.	7.3	4015.	393.1	2428.
2.00	86.	10.4	6795.	1273.	15372.	122.	7.4	4015.	394.1	2428.
2.00	100.	8.9	6719.	1412.	15201.	146.	7.5	4015.	394.9	2428.
2.25	16.	50.9	8308.	325.	18796.	30.	8.1	4466.	354.5	2492.
2.25	24.	34.8	8094.	407.	18313.	50.	7.3	4466.	368.3	2492.
2.25	30.	26.4	7969.	675.	18028.	61.	6.8	4466.	376.0	2492.
2.25	36.	21.7	7860.	821.	17784.	71.	6.8	4466.	380.3	2492.
2.25	42.	18.3	7684.	1204.	17384.	75.	6.8	4466.	383.3	2492.
2.25	48.	15.8	7603.	1304.	17200.	81.	6.8	4466.	385.6	2492.
2.25	54.	13.9	7525.	1340.	17026.	86.	6.8	4466.	387.4	2492.
2.25	64.	11.6	7403.	1364.	16750.	94.	6.7	4466.	389.5	2492.
2.25	74.	9.9	7298.	1490.	16512.	105.	6.8	4466.	391.0	2492.
2.25	86.	8.3	7209.	1555.	16310.	125.	6.8	4466.	392.4	2492.
2.50	24.	30.7	8654.	894.	19578.	49.	6.6	4972.	370.2	2565.
2.50	30.	23.0	8597.	969.	19451.	63.	6.4	4972.	377.7	2565.
2.50	36.	18.7	8461.	1266.	19142.	73.	6.4	4972.	382.0	2565.
2.50	42.	15.4	8387.	1405.	18975.	83.	6.4	4972.	385.0	2565.
2.50	48.	13.2	8307.	1516.	18793.	90.	6.4	4972.	387.1	2565.
2.50	54.	11.6	8224.	1565.	18606.	95.	6.4	4972.	388.8	2565.
2.50	64.	9.6	8095.	1664.	18315.	106.	6.4	4972.	390.7	2565.
2.75	20.	36.3	9612.	640.	21747.	39.	6.9	5530.	349.0	2646.
2.75	24.	27.8	9465.	1035.	21414.	51.	6.3	5530.	360.5	2646.
2.75	30.	20.7	9390.	1241.	21243.	67.	6.2	5530.	370.8	2646.
2.75	36.	16.4	9276.	1481.	20987.	80.	6.3	5530.	376.8	2646.
2.75	42.	13.5	9218.	1582.	20854.	90.	6.2	5530.	381.9	2646.
2.75	48.	11.5	9173.	1704.	20752.	101.	6.3	5530.	387.4	2646.

2.75	54.	9.9	9090.	1767.	20565.	109.	6.2	5530.	385.9	2646.	
ROD NO. 66			PUMP DEPTH 2000.			PRODUCTION 400.					
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF	
1.50	74.	20.6	8342.	145.	18873.	160.	13.8	3832.	394.9	2850.	
1.50	86.	17.7	8121.	501.	18374.	180.	13.7	3832.	395.6	2850.	
1.50	100.	15.2	8042.	519.	18195.	211.	13.4	3832.	396.2	2850.	
1.50	120.	12.7	7929.	568.	17939.	259.	13.0	3832.	396.8	2850.	
1.50	144.	10.6	7793.	735.	17631.	322.	13.3	3832.	397.4	2850.	
1.50	168.	9.1	7657.	908.	17324.	391.	13.8	3832.	397.7	2850.	
1.50	192.	7.9	7521.	1072.	17016.	465.	14.4	3832.	398.0	2850.	
1.75	36.	30.7	8404.	187.	19014.	76.	9.8	4124.	390.1	2850.	
1.75	42.	26.7	8208.	372.	18569.	85.	9.6	4124.	391.2	2850.	
1.75	48.	23.6	8036.	562.	18180.	93.	9.5	4124.	392.2	2850.	
1.75	54.	21.0	7912.	787.	17901.	101.	9.7	4124.	393.0	2850.	
1.75	64.	17.8	7730.	1086.	17488.	115.	9.8	4124.	394.1	2850.	
1.75	74.	15.4	7668.	1063.	17348.	132.	9.6	4124.	394.9	2850.	
1.75	86.	13.2	7595.	1061.	17184.	153.	9.4	4124.	395.6	2850.	
1.75	100.	11.3	7512.	1141.	16996.	182.	9.4	4124.	396.2	2850.	
1.75	120.	9.4	7395.	1322.	16731.	227.	9.7	4124.	396.9	2850.	
1.75	144.	7.9	7256.	1513.	16416.	286.	10.1	4124.	397.4	2850.	
1.75	168.	6.7	7088.	1711.	16035.	349.	10.4	4124.	397.8	2850.	
2.00	24.	38.6	8654.	82.	19578.	58.	8.7	4462.	377.8	2850.	
2.00	30.	29.3	8300.	640.	18778.	64.	7.6	4462.	383.3	2850.	
2.00	36.	25.1	8176.	745.	18498.	72.	7.7	4462.	385.8	2850.	
2.00	42.	21.6	8000.	1081.	18100.	77.	7.9	4462.	387.7	2850.	
2.00	48.	18.9	7833.	1402.	17721.	82.	8.2	4462.	389.3	2850.	
2.00	54.	16.7	7764.	1414.	17565.	89.	8.1	4462.	390.5	2850.	
2.00	64.	14.0	7690.	1362.	17399.	104.	7.9	4462.	392.1	2850.	
2.00	74.	12.0	7622.	1359.	17243.	120.	7.7	4462.	393.2	2850.	
2.00	86.	10.3	7543.	1510.	17065.	142.	7.8	4462.	394.2	2850.	
2.00	100.	8.8	7431.	1681.	16811.	170.	7.9	4462.	395.0	2850.	
2.25	24.	32.8	8719.	685.	19727.	54.	7.2	4845.	370.2	2850.	
2.25	30.	25.3	8591.	766.	19436.	66.	7.0	4845.	377.1	2850.	
2.25	36.	21.0	8410.	1143.	19027.	73.	7.0	4845.	381.0	2850.	
2.25	42.	17.9	8240.	1486.	18643.	78.	7.0	4845.	383.8	2850.	
2.25	48.	15.5	8152.	1544.	18442.	84.	7.0	4845.	386.0	2850.	
2.25	54.	13.6	8066.	1561.	18249.	89.	7.0	4845.	387.6	2850.	
2.25	64.	11.3	7928.	1592.	17937.	100.	6.9	4845.	389.7	2850.	
2.25	74.	9.7	7856.	1748.	17775.	118.	6.9	4845.	391.2	2850.	
2.50	20.	37.0	9298.	483.	21035.	42.	7.6	5273.	364.5	2850.	
2.50	24.	28.8	9133.	1030.	20662.	53.	6.6	5273.	372.2	2850.	
2.50	30.	21.9	9021.	1170.	20410.	66.	6.4	5273.	378.8	2850.	
2.50	36.	17.8	8882.	1474.	20095.	76.	6.4	5273.	382.7	2850.	
2.50	42.	15.0	8797.	1623.	19902.	84.	6.5	5273.	385.5	2850.	
2.50	48.	12.9	8703.	1698.	19690.	90.	6.4	5273.	387.5	2850.	
2.50	54.	11.4	8614.	1743.	19488.	97.	6.4	5273.	389.0	2850.	
2.50	64.	9.4	8473.	1873.	19169.	109.	6.5	5273.	390.9	2850.	
2.75	20.	33.9	9902.	898.	22403.	41.	6.7	5746.	351.9	2850.	
2.75	24.	26.2	9764.	1145.	22090.	54.	6.2	5746.	362.9	2850.	
2.75	30.	19.6	9655.	1489.	21843.	70.	6.2	5746.	372.1	2850.	
2.75	36.	15.8	9574.	1631.	21661.	81.	6.2	5746.	377.6	2850.	
2.75	42.	13.1	9521.	1764.	21540.	92.	6.3	5746.	381.5	2850.	
2.75	48.	11.1	9439.	1871.	21356.	101.	6.2	5746.	384.2	2850.	
2.75	54.	9.7	9347.	1922.	21146.	109.	6.2	5746.	386.2	2850.	
3.75	30.	16.3	13768.	1664.	31149.	80.	5.7	8089.	332.5	2850.	
3.75	36.	12.0	13608.	1858.	30788.	109.	5.9	8089.	350.7	2850.	

ROD NO. 75			PUMP DEPTH 2000.			PRODUCTION 400.					
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF	
1.50	74.	20.6	7941.	336.	13214.	145.	12.9	3780.	394.8	2801.	
1.50	86.	17.7	7740.	660.	12879.	163.	12.9	3780.	395.6	2801.	
1.50	100.	15.2	7668.	670.	12759.	191.	12.6	3780.	396.2	2801.	
1.50	120.	12.7	7565.	710.	12587.	231.	12.2	3780.	396.8	2801.	
1.50	144.	10.6	7441.	864.	12381.	288.	12.5	3780.	397.4	2801.	
1.50	168.	9.1	7317.	1025.	12175.	350.	13.0	3780.	397.7	2801.	
1.50	192.	7.9	7194.	1177.	11969.	418.	13.5	3780.	398.0	2801.	
1.75	36.	31.5	8426.	233.	14020.	75.	9.9	4198.	389.6	2919.	
1.75	42.	27.2	8238.	467.	13708.	83.	9.7	4198.	390.9	2919.	
1.75	48.	23.9	8014.	686.	13335.	90.	9.4	4198.	392.0	2919.	
1.75	54.	21.5	7932.	867.	13197.	99.	9.7	4198.	392.9	2919.	
1.75	64.	17.9	7686.	1228.	12789.	109.	9.7	4198.	394.0	2919.	
1.75	74.	15.4	7626.	1203.	12688.	126.	9.5	4198.	394.8	2919.	
1.75	86.	13.2	7555.	1198.	12571.	145.	9.3	4198.	395.6	2919.	
1.75	100.	11.4	7474.	1273.	12436.	171.	9.2	4198.	396.2	2919.	
1.75	120.	9.5	7361.	1450.	12248.	213.	9.5	4198.	396.9	2919.	
1.75	144.	7.9	7227.	1636.	12025.	269.	9.9	4198.	397.4	2919.	
1.75	168.	6.7	7093.	1807.	11803.	334.	10.2	4198.	397.8	2919.	
2.00	24.	38.4	8845.	306.	14717.	57.	8.5	4684.	378.1	3059.	
2.00	30.	30.4	8669.	745.	14425.	65.	8.1	4684.	382.8	3059.	
2.00	36.	25.4	8461.	904.	14078.	72.	7.9	4684.	385.5	3059.	
2.00	42.	21.8	8260.	1244.	13753.	78.	8.0	4684.	387.6	3059.	
2.00	48.	18.9	8075.	1567.	13436.	82.	8.2	4684.	389.2	3059.	
2.00	54.	16.7	8001.	1607.	13313.	89.	8.1	4684.	390.5	3059.	
2.00	64.	14.0	7926.	1556.	13188.	104.	7.9	4684.	392.0	3059.	
2.00	74.	12.1	7856.	1552.	13072.	118.	7.8	4684.	393.2	3059.	
2.00	86.	10.3	7776.	1705.	12938.	140.	7.9	4684.	394.1	3059.	
2.00	100.	8.8	7686.	1857.	12789.	168.	8.0	4684.	395.0	3059.	
2.25	16.	49.0	9644.	561.	16046.	36.	8.5	5232.	355.4	3214.	
2.25	24.	32.0	9238.	980.	15371.	56.	7.2	5232.	371.0	3214.	
2.25	30.	25.4	9131.	1019.	15193.	68.	7.2	5232.	377.0	3214.	
2.25	36.	21.0	8921.	1436.	14843.	74.	7.2	5232.	380.9	3214.	
2.25	42.	17.8	8726.	1796.	14519.	79.	7.2	5232.	383.8	3214.	
2.25	48.	15.4	8630.	1836.	14359.	85.	7.2	5232.	386.0	3214.	
2.25	54.	13.6	8537.	1814.	14205.	89.	7.2	5232.	387.7	3214.	
2.25	64.	11.2	8419.	1884.	14008.	103.	7.0	5232.	389.7	3214.	
2.25	74.	9.6	8343.	2044.	13881.	121.	7.1	5232.	391.2	3214.	

ROD NO. 76			PUMP DEPTH 2000.			PRODUCTION 400.					
PUMP DIA.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF	
1.50	74.	20.6	9011.	222.	14993.	170.	14.6	4168.	394.9	3167.	
1.50	86.	17.7	8771.	612.	14594.	192.	14.5	4168.	395.6	3167.	
1.50	100.	15.2	8685.	636.	14450.	225.	14.2	4168.	396.2	3167.	
1.50	120.	12.7	8561.	696.	14245.	276.	13.7	4168.	396.8	3167.	
1.50	144.	10.6	8413.	874.	13999.	343.	14.1	4168.	397.4	3167.	
1.50	168.	9.1	8265.	1060.	13753.	417.	14.6	4168.	397.7	3167.	
1.50	192.	7.9	8117.	1236.	13507.	497.	15.2	4168.	398.0	3167.	
1.75	36.	31.1	9167.	198.	15253.	82.	10.6	4498.	389.9	3202.	
1.75	42.	26.7	8886.	478.	14786.	90.	10.1	4498.	391.1	3202.	
1.75	48.	23.6	8703.	680.	14481.	100.	10.0	4498.	392.1	3202.	
1.75	54.	21.1	8568.	927.	14256.	108.	10.2	4498.	393.0	3202.	
1.75	64.	17.8	8356.	1267.	13904.	122.	10.3	4498.	394.1	3202.	
1.75	74.	15.4	8289.	1250.	13792.	141.	10.1	4498.	394.9	3202.	
1.75	86.	13.2	8210.	1254.	13660.	164.	9.9	4498.	395.6	3202.	
1.75	100.	11.3	8119.	1343.	13509.	194.	9.9	4498.	396.2	3202.	

1.75	120.	9.4	7990.	1535.	13295.	242.	10.2	4498.	396.9	3202.
1.75	144.	7.8	7804.	1765.	12985.	305.	10.5	4498.	397.4	3202.
1.75	168.	6.7	7655.	1952.	12737.	374.	10.9	4498.	397.8	3202.
2.00	24.	37.9	9289.	278.	15457.	60.	8.8	4882.	378.5	3246.
2.00	30.	29.8	9059.	787.	15073.	67.	8.2	4882.	383.2	3246.
2.00	36.	25.1	8838.	990.	14706.	75.	8.1	4882.	385.7	3246.
2.00	42.	21.5	8638.	1357.	14372.	81.	8.3	4882.	387.8	3246.
2.00	48.	18.8	8466.	1653.	14086.	87.	8.5	4882.	389.3	3246.
2.00	54.	16.6	8395.	1661.	13968.	95.	8.4	4882.	390.6	3246.
2.00	64.	13.9	8316.	1616.	13836.	111.	8.1	4882.	392.1	3246.
2.00	74.	12.0	8241.	1624.	13712.	127.	8.0	4882.	393.2	3246.
2.00	86.	10.2	8127.	1805.	13523.	151.	8.0	4882.	394.2	3246.
2.00	100.	8.7	8033.	1962.	13366.	182.	8.2	4882.	395.0	3246.
2.25	16.	48.0	9765.	251.	16247.	37.	8.3	5315.	356.4	3293.
2.25	24.	31.6	9399.	1023.	15640.	57.	7.3	5315.	371.4	3293.
2.25	30.	25.1	9275.	1060.	15432.	68.	7.2	5315.	377.2	3293.
2.25	36.	20.8	9061.	1498.	15076.	75.	7.2	5315.	381.1	3293.
2.25	42.	17.7	8867.	1847.	14753.	80.	7.3	5315.	383.9	3293.
2.25	48.	15.3	8768.	1874.	14589.	85.	7.3	5315.	386.1	3293.
2.25	54.	13.4	8651.	1849.	14395.	90.	7.2	5315.	387.8	3293.
2.25	64.	11.2	8567.	1924.	14255.	106.	7.1	5315.	389.8	3293.
2.25	74.	9.6	8488.	2086.	14124.	125.	7.1	5315.	391.2	3293.
2.50	20.	35.3	10032.	940.	16691.	47.	7.3	5800.	365.8	3347.
2.50	24.	27.4	9863.	1330.	16410.	57.	6.6	5800.	373.5	3347.
2.50	30.	21.5	9746.	1488.	16216.	70.	6.6	5800.	379.2	3347.
2.50	36.	17.5	9558.	1883.	15904.	78.	6.6	5800.	383.0	3347.
2.50	42.	14.8	9447.	2020.	15719.	85.	6.6	5800.	385.7	3347.
2.50	48.	12.5	9343.	2057.	15565.	91.	6.6	5800.	387.7	3347.
2.50	54.	11.2	9243.	2113.	15379.	97.	6.6	5800.	389.2	3347.
2.50	64.	9.3	9085.	2279.	15116.	110.	6.7	5800.	391.0	3347.
2.75	20.	32.0	10664.	1380.	17743.	47.	6.8	6336.	354.5	3406.
2.75	24.	24.5	10577.	1499.	17599.	59.	6.3	6336.	365.1	3406.
2.75	30.	19.0	10420.	1910.	17338.	73.	6.4	6336.	373.2	3406.
2.75	36.	15.1	10310.	2101.	17154.	84.	6.3	6336.	378.5	3406.
2.75	42.	12.6	10223.	2251.	17009.	94.	6.3	6336.	382.1	3406.
2.75	48.	10.8	10112.	2311.	16826.	101.	6.3	6336.	384.6	3406.
3.75	24.	19.4	14914.	2191.	24816.	68.	5.7	8989.	319.6	3699.
3.75	30.	13.5	14694.	2484.	24449.	96.	5.9	8989.	344.1	3699.

ROD NO. 77			PUMP DEPTH 2000.				PRODUCTION 400.			
PU-P U/A.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.50	74.	20.6	10799.	198.	17969.	209.	17.1	4922.	395.0	3879.
1.50	86.	17.7	10499.	690.	17470.	235.	17.0	4922.	395.6	3879.
1.50	100.	15.2	10392.	735.	17290.	277.	16.5	4922.	396.2	3879.
1.50	120.	12.7	10237.	826.	17034.	341.	16.0	4922.	396.9	3879.
1.50	144.	10.6	10053.	1041.	16726.	426.	16.4	4922.	397.4	3879.
1.50	168.	9.1	9868.	1264.	16419.	518.	17.1	4922.	397.8	3879.
1.50	192.	7.9	9683.	1477.	16111.	617.	17.8	4922.	398.0	3879.
1.75	36.	30.1	10554.	371.	17560.	93.	11.4	5215.	390.2	3879.
1.75	42.	26.7	10417.	508.	17334.	107.	11.5	5215.	391.4	3879.
1.75	48.	23.3	10118.	831.	16835.	117.	11.2	5215.	392.3	3879.
1.75	54.	20.7	9933.	1155.	16527.	127.	11.3	5215.	393.1	3879.
1.75	64.	17.5	9695.	1524.	16131.	144.	11.3	5215.	394.1	3879.
1.75	74.	15.1	9618.	1521.	16003.	167.	11.1	5215.	394.9	3879.
1.75	86.	13.0	9526.	1541.	15849.	196.	10.8	5215.	395.6	3879.
1.75	100.	11.2	9418.	1659.	15670.	234.	10.9	5215.	396.3	3879.
1.75	120.	9.3	9264.	1876.	15414.	293.	11.3	5215.	396.9	3879.
1.75	144.	7.8	9079.	2114.	15106.	370.	11.9	5215.	397.4	3879.
1.75	168.	6.7	8894.	2337.	14798.	456.	12.4	5215.	397.8	3879.
2.00	16.	50.9	10693.	394.	17793.	43.	9.3	5553.	371.7	3879.
2.00	20.	44.0	10758.	218.	17900.	57.	9.6	5553.	375.2	3879.
2.00	24.	36.2	10412.	550.	17324.	64.	9.0	5553.	379.5	3879.
2.00	30.	28.6	10157.	1113.	16900.	72.	8.6	5553.	383.8	3879.
2.00	36.	24.3	9897.	1412.	16468.	81.	8.5	5553.	386.1	3879.
2.00	42.	21.1	9766.	1682.	16250.	90.	8.9	5553.	388.1	3879.
2.00	48.	18.5	9592.	1994.	15961.	99.	9.1	5553.	389.5	3879.
2.00	54.	16.4	9527.	1978.	15851.	110.	8.9	5553.	390.7	3879.
2.00	64.	13.7	9405.	1963.	15650.	128.	8.6	5553.	392.2	3879.
2.00	74.	11.8	9322.	2002.	15510.	149.	8.5	5553.	393.3	3879.
2.00	86.	10.1	9224.	2172.	15347.	178.	8.7	5553.	394.2	3879.
2.00	100.	8.7	9111.	2346.	15159.	215.	8.9	5553.	395.1	3879.
2.25	20.	38.2	10708.	590.	17817.	55.	8.3	5936.	365.3	3879.
2.25	24.	29.8	10365.	1370.	17247.	62.	7.3	5936.	372.9	3879.
2.25	30.	24.2	10157.	1517.	16899.	71.	7.4	5936.	377.9	3879.
2.25	36.	20.1	9923.	2023.	16511.	78.	7.5	5936.	381.6	3879.
2.25	42.	17.2	9738.	2292.	16203.	83.	7.7	5936.	384.3	3879.
2.25	48.	14.9	9653.	2253.	16062.	91.	7.6	5936.	386.4	3879.
2.25	54.	13.2	9592.	2212.	15960.	101.	7.4	5936.	388.0	3879.
2.25	64.	11.1	9497.	2315.	15802.	121.	7.4	5936.	389.9	3879.
2.25	74.	9.5	9407.	2488.	15653.	143.	7.5	5936.	391.4	3879.
2.50	20.	32.9	10857.	1396.	18065.	52.	7.1	6364.	368.2	3879.
2.50	24.	26.1	10715.	1561.	17829.	62.	6.8	6364.	374.8	3879.
2.50	30.	20.7	10519.	1915.	17503.	73.	6.8	6364.	380.0	3879.
2.50	36.	17.0	10311.	2323.	17157.	80.	6.8	6364.	383.5	3879.
2.50	42.	14.4	10189.	2399.	16954.	87.	6.8	6364.	386.1	3879.
2.50	48.	12.5	10073.	2382.	16760.	93.	6.8	6364.	388.0	3879.
2.50	54.	11.0	9960.	2470.	16573.	101.	6.8	6364.	389.4	3879.
2.75	16.	38.5	11468.	587.	19081.	38.	7.3	6837.	346.1	3879.
2.75	20.	29.4	11342.	1783.	18872.	51.	6.6	6837.	358.3	3879.
2.75	24.	23.1	11256.	1872.	18728.	63.	6.3	6837.	367.3	3879.
2.75	30.	18.0	11056.	2303.	18396.	76.	6.3	6837.	374.4	3879.
2.75	36.	14.6	10961.	2484.	18237.	87.	6.4	6837.	379.3	3879.
2.75	42.	12.3	10832.	2582.	18024.	94.	6.4	6837.	382.6	3879.
2.75	48.	10.6	10711.	2663.	17823.	103.	6.4	6837.	385.0	3879.
3.75	24.	18.4	15106.	2399.	25134.	72.	5.7	9180.	323.9	3879.
3.75	30.	12.9	14901.	2650.	24794.	99.	5.9	9180.	346.4	3879.

ROD NO. 44			PUMP DEPTH 2000.				PRODUCTION 500.			
PU-P U/A.	STROKE	SPM	PPRL	MPRL	STRESS	PT	PRHP	CBE	PROD UNANCH.	WRF
1.50	192.	10.0	4686.	69.	23908.	260.	12.2	2153.	497.5	1266.
1.50	216.	8.9	4624.	159.	23592.	301.	12.5	2153.	497.8	1266.
1.50	240.	7.9	4539.	260.	23156.	343.	12.6	2153.	498.0	1266.
1.75	74.	20.1	5063.	81.	25833.	95.	9.8	2446.	493.3	1266.
1.75	86.	17.2	4952.	229.	25267.	103.	10.0	2446.	494.3	1266.
1.75	100.	14.7	4905.	187.	25025.	117.	9.7	2446.	495.1	1266.
1.75	120.	12.2	4842.	166.	24706.	138.	9.5	2446.	496.0	1266.
1.75	144.	10.1	4772.	304.	24346.	170.	9.6	2446.	496.7	1266.
1.75	168.	8.6	4704.	419.	24002.	205.	9.8	2446.	497.1	1266.
1.75	192.	7.4	4622.	533.	23584.	241.	9.9	2446.	497.5	1266.
1.75	216.	6.6	4559.	624.	23262.	280.	10.1	2446.	497.8	1266.
1.75	240.	5.9	4516.	682.	23041.	325.	10.2	2446.	498.0	1266.
2.00	64.	18.9	5434.	180.	27727.	92.	8.5	2784.	489.3	1266.
2.00	74.	16.1	5354.	297.	27315.	99.	8.5	2784.	490.8	1266.
2.00	86.	13.7	5275.	325.	26914.	106.	8.5	2784.	492.2	1266.
2.00	100.	11.6	5188.	334.	26468.	115.	8.5	2784.	493.4	1266.
2.00	120.	9.5	5086.	404.	25947.	136.	8.5	2784.	494.6	1266.
2.00	144.	7.8	5013.	626.	25575.	168.	8.6	2784.	495.7	1266.
2.00	168.	6.7	4944.	744.	25222.	202.	8.7	2784.	496.2	1266.
2.25	48.	21.9	6075.	70.	30996.	80.	7.9	3167.	486.0	1266.