

FLOAT EQUIPMENT

Halliburton's floating and guiding equipment helps provide a quality cement job under any condition.

SUPER SEAL™ II FLOAT EQUIPMENT

- Short, compact size makes handling and storage easier.
- 400°F temperature and 5,000 psi pressure rating under static conditions.
- Minimum amount of aluminum allows easy drilling even with PDC bits.
- Float shoe available in either rounded or wedge nose configuration.
- Contains exclusive Super Seal II Float Valve, which provides extra large flow area.



HN00471

SUPER SEAL II
FLOAT COLLAR



HN00472

SUPER SEAL II
FLOAT SHOE



HN00478

NON-ROTATING SSR™ PLUG SET

An integral part of the cementing process, cementing plugs are pumped ahead of cement slurry to minimize contamination of the cement as it is pumped down the casing.

NON-ROTATING (NR™) PLUG

- PDC drillable; rig time is greatly reduced since conventional bits are eliminated.
- Reduces drilling time of shoe joints up to 10 times with PDC bits.



HN00477

NON-ROTATING 5-WIPER PLUGS

- Conventional two plug cementing techniques can be used to ensure best possible job.
- Proven five wiper design.
- Design allows use of multiple bottom plugs or no bottom plug.

FLOAT EQUIPMENT

PDF™ FLOAT SHOE

- Helps protect formations from destructive high "ram-effect" surge pressure.
- Provides surface indication that the back pressure valve has closed.
- Minimizes casing sticking. Saves up to one-third running-in time.
- Allows hole to be circulated at any time without affecting the fillup unit.



HN00474

PDF FLOAT SHOE

GUIDE SHOE

- Protects casing string from impact when landing on bottom.
- Directs casing away from ledges, reducing change of sidewall cave-in.
- Helps casing pass through narrow, deviated holes and areas with hard shoulders.



HN00476

GUIDE SHOE

INSERT FLOAT COLLAR

- More economical than conventional types of floating equipment.
- Large flow area through valve.
- Dependable, easy to drill.
- Simple installation.
- No length added to casing string.
- Eliminates two threaded connections in casing string—no welding required.



HN00475

INSERT FLOAT VALVE

AVAILABLE FOR TUBINGLESS COMPLETIONS

SECTION No. 122

VOLUME and HEIGHT Between TUBING and HOLE and CASING and HOLE and DRILL PIPE and HOLE

NOTE:

No allowance made for couplings. For displacement of couplings see Table 130.

NOTE:

There are some differences in the values in these tables and those previously published. The differences are slight and the former values are sufficiently accurate for dependable results.

The values in these tables have been calculated on the IBM 1620 Computer.

HALLIBURTON

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Tubing Size
O.D. 1.050"

TABLE

ONE STRING

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
1 ¹ / ₂	.0468	21.3594	.0011
1 ⁵ / ₈	.0628	15.9349	.0015
1 ³ / ₄	.0800	12.5050	.0019
1 ⁷ / ₈	.0985	10.1569	.0023
2	.1182	8.4590	.0028
2 ¹ / ₈	.1393	7.1811	.0033
2 ¹ / ₄	.1616	6.1894	.0038
2 ³ / ₈	.1852	5.4009	.0044
2 ¹ / ₂	.2100	4.7615	.0050
2 ⁵ / ₈	.2362	4.2345	.0056
2 ³ / ₄	.2636	3.7941	.0063
2 ⁷ / ₈	.2923	3.4217	.0070
3	.3222	3.1035	.0077
3 ¹ / ₈	.3535	2.8292	.0084
3 ¹ / ₄	.3860	2.5909	.0092
3 ³ / ₈	.4198	2.3823	.0100
3 ¹ / ₂	.4548	2.1987	.0108
3 ⁵ / ₈	.4912	2.0360	.0117
3 ³ / ₄	.5288	1.8912	.0126
3 ⁷ / ₈	.5677	1.7616	.0135
4	.6078	1.6452	.0145
4 ¹ / ₈	.6493	1.5402	.0155
4 ¹ / ₄	.6920	1.4452	.0165
4 ³ / ₈	.7360	1.3588	.0175
4 ¹ / ₂	.7812	1.2801	.0186
4 ⁵ / ₈	.8278	1.2081	.0197
4 ³ / ₄	.8756	1.1421	.0208
4 ⁷ / ₈	.9247	1.0815	.0220
5	.9750	1.0256	.0232
5 ¹ / ₈	1.0267	.9740	.0244
5 ¹ / ₄	1.0796	.9263	.0257
5 ³ / ₈	1.1338	.8820	.0270
5 ¹ / ₂	1.1892	.8409	.0283
5 ⁵ / ₈	1.2460	.8026	.0297
5 ³ / ₄	1.3040	.7669	.0310
5 ⁷ / ₈	1.3633	.7335	.0325
6	1.4238	.7023	.0339
6 ¹ / ₈	1.4857	.6731	.0354
6 ¹ / ₄	1.5488	.6457	.0369
6 ³ / ₈	1.6132	.6199	.0384
6 ¹ / ₂	1.6788	.5957	.0400
6 ⁵ / ₈	1.7458	.5728	.0416
6 ³ / ₄	1.8140	.5513	.0432
6 ⁷ / ₈	1.8835	.5309	.0448
7	1.9542	.5117	.0465
7 ¹ / ₈	2.0263	.4935	.0482
7 ¹ / ₄	2.0996	.4763	.0500
7 ³ / ₈	2.1742	.4599	.0518
7 ¹ / ₂	2.2500	.4444	.0536
7 ⁵ / ₈	2.3272	.4297	.0554

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 1.050"

ONE STRING

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
897.0929	.0063	159.7791	1 ¹ / ₂
669.2656	.0084	119.2013	1 ⁵ / ₈
525.2114	.0107	93.5441	1 ³ / ₄
426.5897	.0132	75.9789	1 ⁷ / ₈
355.2767	.0158	63.2775	2
301.6046	.0186	53.7181	2 ¹ / ₈
259.9531	.0216	46.2996	2 ¹ / ₄
226.8369	.0248	40.4014	2 ³ / ₈
199.9833	.0281	35.6186	2 ¹ / ₂
177.8493	.0316	31.6763	2 ⁵ / ₈
159.3520	.0352	28.3818	2 ³ / ₄
143.7102	.0391	25.5959	2 ⁷ / ₈
130.3468	.0431	23.2158	3
118.8271	.0473	21.1640	3 ¹ / ₈
108.8176	.0516	19.3812	3 ¹ / ₄
100.0585	.0561	17.8212	3 ³ / ₈
92.3449	.0608	16.4473	3 ¹ / ₂
85.5128	.0657	15.2305	3 ⁵ / ₈
79.4301	.0707	14.1471	3 ³ / ₄
73.9887	.0759	13.1780	3 ⁷ / ₈
69.0998	.0813	12.3072	4
64.6896	.0868	11.5217	4 ¹ / ₈
60.6966	.0925	10.8105	4 ¹ / ₄
57.0688	.0984	10.1644	4 ³ / ₈
53.7623	.1044	9.5755	4 ¹ / ₂
50.7397	.1107	9.0371	4 ⁵ / ₈
47.9690	.1170	8.5436	4 ³ / ₄
45.4224	.1236	8.0901	4 ⁷ / ₈
43.0762	.1303	7.6722	5
40.9096	.1372	7.2863	5 ¹ / ₈
38.9045	.1443	6.9292	5 ¹ / ₄
37.0451	.1516	6.5980	5 ³ / ₈
35.3174	.1590	6.2903	5 ¹ / ₂
33.7091	.1666	6.0039	5 ⁵ / ₈
32.2095	.1743	5.7367	5 ³ / ₄
30.8087	.1822	5.4873	5 ⁷ / ₈
29.4982	.1903	5.2539	6
28.2704	.1986	5.0352	6 ¹ / ₈
27.1184	.2070	4.8300	6 ¹ / ₄
26.0360	.2156	4.6372	6 ³ / ₈
25.0177	.2244	4.4558	6 ¹ / ₂
24.0584	.2334	4.2850	6 ⁵ / ₈
23.1537	.2425	4.1239	6 ³ / ₄
22.2995	.2518	3.9717	6 ⁷ / ₈
21.4920	.2612	3.8279	7
20.7279	.2709	3.6918	7 ¹ / ₈
20.0042	.2807	3.5629	7 ¹ / ₄
19.3179	.2906	3.4407	7 ³ / ₈
18.6666	.3008	3.3247	7 ¹ / ₂
18.0478	.3111	3.2145	7 ⁵ / ₈

**Note: No allowance made for couplings.

Tubing Size
O.D. 1.050"
TWO STRINGS

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
2 ³ / ₄	.2186	4.5749	.0052
2 ⁷ / ₈	.2473	4.0441	.0059
3	.2772	3.6070	.0066
3 ¹ / ₈	.3085	3.2418	.0073
3 ¹ / ₄	.3410	2.9327	.0081
3 ³ / ₈	.3748	2.6683	.0089
3 ¹ / ₂	.4098	2.4400	.0098
3 ⁵ / ₈	.4462	2.2413	.0106
3 ³ / ₄	.4838	2.0670	.0115
3 ⁷ / ₈	.5227	1.9132	.0124
4	.5628	1.7767	.0134
4 ¹ / ₈	.6043	1.6549	.0144
4 ¹ / ₄	.6470	1.5456	.0154
4 ³ / ₈	.6910	1.4472	.0165
4 ¹ / ₂	.7362	1.3583	.0175
4 ⁵ / ₈	.7828	1.2775	.0186
4 ³ / ₄	.8306	1.2040	.0198
4 ⁷ / ₈	.8797	1.1368	.0209
5	.9300	1.0752	.0221
5 ¹ / ₈	.9817	1.0187	.0234
5 ¹ / ₄	1.0346	.9666	.0246
5 ³ / ₈	1.0888	.9185	.0259
5 ¹ / ₂	1.1442	.8739	.0272
5 ⁵ / ₈	1.2010	.8327	.0286
5 ³ / ₄	1.2590	.7943	.0300
5 ⁷ / ₈	1.3183	.7586	.0314
6	1.3788	.7253	.0328
6 ¹ / ₈	1.4407	.6941	.0343
6 ¹ / ₄	1.5038	.6650	.0358
6 ³ / ₈	1.5682	.6377	.0373
6 ¹ / ₂	1.6338	.6121	.0389
6 ⁵ / ₈	1.7008	.5880	.0405
6 ³ / ₄	1.7690	.5653	.0421
6 ⁷ / ₈	1.8385	.5439	.0438
7	1.9092	.5238	.0455
7 ¹ / ₈	1.9813	.5047	.0472
7 ¹ / ₄	2.0546	.4867	.0489
7 ³ / ₈	2.1292	.4697	.0507
7 ¹ / ₂	2.2050	.4535	.0525
7 ⁵ / ₈	2.2822	.4382	.0543
7 ³ / ₄	2.3606	.4236	.0562
7 ⁷ / ₈	2.4403	.4098	.0581
8	2.5212	.3966	.0600
8 ¹ / ₈	2.6035	.3841	.0620
8 ¹ / ₄	2.6870	.3722	.0640
8 ³ / ₈	2.7718	.3608	.0660
8 ¹ / ₂	2.8578	.3499	.0680
8 ⁵ / ₈	2.9452	.3395	.0701
8 ³ / ₄	3.0338	.3296	.0722
8 ⁷ / ₈	3.1237	.3201	.0744

NO.122-A

BETWEEN TUBING & HOLE**
Tubing Size
O.D. 1.050"
TWO STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
192.1445	.0292	34.2224	2 ³ / ₄
169.8528	.0331	30.2521	2 ⁷ / ₈
151.4958	.0371	26.9826	3
136.1546	.0412	24.2502	3 ¹ / ₈
123.1725	.0456	21.9380	3 ¹ / ₄
112.0680	.0501	19.9602	3 ³ / ₈
102.4803	.0548	18.2525	3 ¹ / ₂
94.1340	.0596	16.7660	3 ⁵ / ₈
86.8155	.0647	15.4625	3 ³ / ₄
80.3563	.0699	14.3121	3 ⁷ / ₈
74.6223	.0752	13.2908	4
69.5051	.0808	12.3794	4 ¹ / ₈
64.9166	.0865	11.5621	4 ¹ / ₄
60.7840	.0924	10.8261	4 ³ / ₈
57.0471	.0984	10.1605	4 ¹ / ₂
53.6555	.1046	9.5565	4 ⁵ / ₈
50.5668	.1110	9.0063	4 ³ / ₄
47.7451	.1176	8.5038	4 ⁷ / ₈
45.1596	.1243	8.0433	5
42.7842	.1312	7.6202	5 ¹ / ₈
40.5960	.1383	7.2305	5 ¹ / ₄
38.5756	.1455	6.8706	5 ³ / ₈
36.7058	.1530	6.5376	5 ¹ / ₂
34.9717	.1605	6.2287	5 ⁵ / ₈
33.3603	.1683	5.9417	5 ³ / ₄
31.8599	.1762	5.6745	5 ⁷ / ₈
30.4605	.1843	5.4253	6
29.1531	.1926	5.1924	6 ¹ / ₈
27.9296	.2010	4.9745	6 ¹ / ₄
26.7828	.2096	4.7702	6 ³ / ₈
25.7064	.2184	4.5785	6 ¹ / ₂
24.6947	.2274	4.3983	6 ⁵ / ₈
23.7425	.2365	4.2287	6 ³ / ₄
22.8451	.2458	4.0689	6 ⁷ / ₈
21.9984	.2552	3.9181	7
21.1985	.2649	3.7756	7 ¹ / ₈
20.4421	.2747	3.6409	7 ¹ / ₄
19.7260	.2846	3.5134	7 ³ / ₈
19.0474	.2948	3.3925	7 ¹ / ₂
18.4036	.3051	3.2778	7 ⁵ / ₈
17.7922	.3156	3.1689	7 ³ / ₄
17.2112	.3262	3.0655	7 ⁷ / ₈
16.6585	.3370	2.9670	8
16.1323	.3480	2.8733	8 ¹ / ₈
15.6309	.3592	2.7840	8 ¹ / ₄
15.1528	.3705	2.6988	8 ³ / ₈
14.6965	.3820	2.6176	8 ¹ / ₂
14.2607	.3937	2.5399	8 ⁵ / ₈
13.8441	.4056	2.4657	8 ³ / ₄
13.4457	.4176	2.3948	8 ⁷ / ₈

**Note: No allowance made for couplings.

Tubing Size
O.D. 1.050"

TABLE

THREE STRINGS

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
3	.2323	4.3056	.0055
3 ¹ / ₈	.2635	3.7952	.0063
3 ¹ / ₄	.2960	3.3783	.0070
3 ³ / ₈	.3298	3.0322	.0079
3 ¹ / ₂	.3649	2.7408	.0087
3 ⁵ / ₈	.4012	2.4926	.0096
3 ³ / ₄	.4388	2.2789	.0104
3 ⁷ / ₈	.4777	2.0934	.0114
4	.5179	1.9311	.0123
4 ¹ / ₈	.5593	1.7880	.0133
4 ¹ / ₄	.6020	1.6611	.0143
4 ³ / ₈	.6460	1.5480	.0154
4 ¹ / ₂	.6913	1.4466	.0165
4 ⁵ / ₈	.7378	1.3554	.0176
4 ³ / ₄	.7856	1.2729	.0187
4 ⁷ / ₈	.8347	1.1981	.0199
5	.8851	1.1299	.0211
5 ¹ / ₈	.9367	1.0676	.0223
5 ¹ / ₄	.9896	1.0105	.0236
5 ³ / ₈	1.0438	.9580	.0249
5 ¹ / ₂	1.0993	.9097	.0262
5 ⁵ / ₈	1.1560	.8651	.0275
5 ³ / ₄	1.2140	.8237	.0289
5 ⁷ / ₈	1.2733	.7854	.0303
6	1.3339	.7497	.0318
6 ¹ / ₈	1.3957	.7165	.0332
6 ¹ / ₄	1.4588	.6855	.0347
6 ³ / ₈	1.5232	.6565	.0363
6 ¹ / ₂	1.5889	.6294	.0378
6 ⁵ / ₈	1.6558	.6039	.0394
6 ³ / ₄	1.7240	.5800	.0410
6 ⁷ / ₈	1.7935	.5576	.0427
7	1.8642	.5364	.0444
7 ¹ / ₈	1.9363	.5165	.0461
7 ¹ / ₄	2.0096	.4976	.0478
7 ³ / ₈	2.0842	.4798	.0496
7 ¹ / ₂	2.1600	.4630	.0514
7 ⁵ / ₈	2.2372	.4470	.0533
7 ³ / ₄	2.3156	.4319	.0551
7 ⁷ / ₈	2.3953	.4175	.0570
8	2.4762	.4038	.0590
8 ¹ / ₈	2.5585	.3909	.0609
8 ¹ / ₄	2.6420	.3785	.0629
8 ³ / ₈	2.7268	.3667	.0649
8 ¹ / ₂	2.8128	.3555	.0670
8 ⁵ / ₈	2.9002	.3448	.0691
8 ³ / ₄	2.9888	.3346	.0712
8 ⁷ / ₈	3.0787	.3248	.0733
9	3.1698	.3155	.0755
9 ¹ / ₈	3.2623	.3065	.0777

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 1.050"

THREE STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
180.8369	.0310	32.2084	3
159.3983	.0352	28.3901	3 ¹ / ₈
141.8903	.0396	25.2717	3 ¹ / ₄
127.3535	.0441	22.6826	3 ³ / ₈
115.1148	.0488	20.5028	3 ¹ / ₂
104.6884	.0536	18.6458	3 ⁵ / ₈
95.7149	.0587	17.0476	3 ³ / ₄
87.9231	.0639	15.6598	3 ⁷ / ₈
81.1041	.0692	14.4453	4
75.0952	.0748	13.3750	4 ¹ / ₈
69.7671	.0805	12.4261	4 ¹ / ₄
65.0165	.0864	11.5799	4 ³ / ₈
60.7593	.0924	10.8217	4 ¹ / ₂
56.9268	.0986	10.1391	4 ⁵ / ₈
53.4622	.1050	9.5220	4 ³ / ₄
50.3181	.1116	8.9620	4 ⁷ / ₈
47.4548	.1183	8.4521	5
44.8388	.1252	7.9861	5 ¹ / ₈
42.4413	.1323	7.5591	5 ¹ / ₄
40.2380	.1395	7.1667	5 ³ / ₈
38.2078	.1469	6.8051	5 ¹ / ₂
36.3325	.1545	6.4711	5 ⁵ / ₈
34.5963	.1623	6.1619	5 ³ / ₄
32.9855	.1702	5.8750	5 ⁷ / ₈
31.4878	.1783	5.6082	6
30.0927	.1866	5.3597	6 ¹ / ₈
28.7908	.1950	5.1279	6 ¹ / ₄
27.5737	.2036	4.9111	6 ³ / ₈
26.4342	.2124	4.7081	6 ¹ / ₂
25.3656	.2213	4.5178	6 ⁵ / ₈
24.3619	.2305	4.3390	6 ³ / ₄
23.4181	.2398	4.1709	6 ⁷ / ₈
22.5292	.2492	4.0126	7
21.6910	.2588	3.8633	7 ¹ / ₈
20.8997	.2686	3.7224	7 ¹ / ₄
20.1517	.2786	3.5892	7 ³ / ₈
19.4440	.2888	3.4631	7 ¹ / ₂
18.7736	.2991	3.3437	7 ⁵ / ₈
18.1379	.3096	3.2305	7 ³ / ₄
17.5344	.3202	3.1230	7 ⁷ / ₈
16.9611	.3310	3.0209	8
16.4160	.3420	2.9238	8 ¹ / ₈
15.8971	.3532	2.8314	8 ¹ / ₄
15.4028	.3645	2.7433	8 ³ / ₈
14.9315	.3760	2.6594	8 ¹ / ₂
14.4818	.3877	2.5793	8 ⁵ / ₈
14.0525	.3995	2.5029	8 ³ / ₄
13.6422	.4116	2.4298	8 ⁷ / ₈
13.2499	.4237	2.3599	9
12.8744	.4361	2.2930	9 ¹ / ₈

**Note: No allowance made for couplings.

Tubing Size
O.D. 1.050"

TABLE

FOUR STRINGS

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
3 ³ / ₈	.2848	3.5111	.0068
3 ¹ / ₂	.3199	3.1263	.0076
3 ⁵ / ₈	.3562	2.8073	.0085
3 ³ / ₄	.3938	2.5392	.0094
3 ⁷ / ₈	.4327	2.3110	.0103
4	.4729	2.1147	.0113
4 ¹ / ₈	.5143	1.9444	.0122
4 ¹ / ₄	.5570	1.7953	.0133
4 ³ / ₈	.6010	1.6639	.0143
4 ¹ / ₂	.6463	1.5473	.0154
4 ⁵ / ₈	.6928	1.4434	.0165
4 ³ / ₄	.7406	1.3502	.0176
4 ⁷ / ₈	.7897	1.2663	.0188
5	.8401	1.1904	.0200
5 ¹ / ₈	.8917	1.1214	.0212
5 ¹ / ₄	.9446	1.0586	.0225
5 ³ / ₈	.9988	1.0012	.0238
5 ¹ / ₂	1.0543	.9485	.0251
5 ⁵ / ₈	1.1110	.9001	.0265
5 ³ / ₄	1.1690	.8554	.0278
5 ⁷ / ₈	1.2283	.8141	.0292
6	1.2889	.7759	.0307
6 ¹ / ₈	1.3507	.7404	.0322
6 ¹ / ₄	1.4138	.7073	.0337
6 ³ / ₈	1.4782	.6765	.0352
6 ¹ / ₂	1.5439	.6477	.0368
6 ⁵ / ₈	1.6108	.6208	.0384
6 ³ / ₄	1.6790	.5956	.0400
6 ⁷ / ₈	1.7485	.5719	.0416
7	1.8193	.5497	.0433
7 ¹ / ₈	1.8913	.5287	.0450
7 ¹ / ₄	1.9646	.5090	.0468
7 ³ / ₈	2.0392	.4904	.0486
7 ¹ / ₂	2.1151	.4728	.0504
7 ⁵ / ₈	2.1922	.4562	.0522
7 ³ / ₄	2.2706	.4404	.0541
7 ⁷ / ₈	2.3503	.4255	.0560
8	2.4313	.4113	.0579
8 ¹ / ₈	2.5135	.3979	.0598
8 ¹ / ₄	2.5970	.3851	.0618
8 ³ / ₈	2.6818	.3729	.0639
8 ¹ / ₂	2.7679	.3613	.0659
8 ⁵ / ₈	2.8552	.3502	.0680
8 ³ / ₄	2.9438	.3397	.0701
8 ⁷ / ₈	3.0337	.3296	.0722
9	3.1249	.3200	.0744
9 ¹ / ₈	3.2173	.3108	.0766
9 ¹ / ₄	3.3110	.3020	.0788
9 ³ / ₈	3.4060	.2936	.0811
9 ¹ / ₂	3.5023	.2855	.0834

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 1.050"

FOUR STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
147.4673	.0381	26.2651	3 ³ / ₈
131.3028	.0428	23.3860	3 ¹ / ₂
117.9084	.0476	21.0004	3 ⁵ / ₈
106.6474	.0526	18.9947	3 ³ / ₄
97.0630	.0578	17.2877	3 ⁷ / ₈
88.8192	.0632	15.8194	4
81.6631	.0688	14.5448	4 ¹ / ₈
75.4012	.0745	13.4295	4 ¹ / ₄
69.8826	.0803	12.4466	4 ³ / ₈
64.9883	.0864	11.5749	4 ¹ / ₂
60.6229	.0926	10.7974	4 ⁵ / ₈
56.7092	.0990	10.1003	4 ³ / ₄
53.1842	.1056	9.4725	4 ⁷ / ₈
49.9958	.1123	8.9046	5
47.1007	.1192	8.3890	5 ¹ / ₈
44.4623	.1263	7.9191	5 ¹ / ₄
42.0502	.1335	7.4895	5 ³ / ₈
39.8380	.1409	7.0955	5 ¹ / ₂
37.8035	.1485	6.7331	5 ⁵ / ₈
35.9276	.1563	6.3990	5 ³ / ₄
34.1934	.1642	6.0901	5 ⁷ / ₈
32.5867	.1723	5.8039	6
31.0948	.1806	5.5382	6 ¹ / ₈
29.7068	.1890	5.2910	6 ¹ / ₄
28.4128	.1976	5.0605	6 ³ / ₈
27.2044	.2064	4.8453	6 ¹ / ₂
26.0739	.2153	4.6440	6 ⁵ / ₈
25.0146	.2245	4.4553	6 ³ / ₄
24.0205	.2337	4.2782	6 ⁷ / ₈
23.0862	.2432	4.1118	7
22.2069	.2528	3.9552	7 ¹ / ₈
21.3782	.2626	3.8076	7 ¹ / ₄
20.5963	.2726	3.6684	7 ³ / ₈
19.8575	.2827	3.5368	7 ¹ / ₂
19.1588	.2931	3.4123	7 ⁵ / ₈
18.4972	.3035	3.2945	7 ³ / ₄
17.8700	.3142	3.1828	7 ⁷ / ₈
17.2749	.3250	3.0768	8
16.7097	.3360	2.9761	8 ¹ / ₈
16.1724	.3472	2.8804	8 ¹ / ₄
15.6611	.3585	2.7894	8 ³ / ₈
15.1741	.3700	2.7026	8 ¹ / ₂
14.7100	.3817	2.6200	8 ⁵ / ₈
14.2672	.3935	2.5411	8 ³ / ₄
13.8445	.4055	2.4658	8 ⁷ / ₈
13.4406	.4177	2.3939	9
13.0544	.4301	2.3251	9 ¹ / ₈
12.6849	.4426	2.2593	9 ¹ / ₄
12.3312	.4553	2.1963	9 ³ / ₈
11.9922	.4682	2.1359	9 ¹ / ₂

**Note: No allowance made for couplings.

Tubing Size
O.D. 1.315"

TABLE

ONE STRING

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
1 ³ / ₄	.0544	18.3829	.0013
1 ⁷ / ₈	.0729	13.7201	.0017
2	.0926	10.7935	.0022
2 ¹ / ₈	.1137	8.7962	.0027
2 ¹ / ₄	.1360	7.3530	.0032
2 ³ / ₈	.1596	6.2662	.0038
2 ¹ / ₂	.1844	5.4216	.0044
2 ⁵ / ₈	.2106	4.7487	.0050
2 ³ / ₄	.2380	4.2017	.0057
2 ⁷ / ₈	.2667	3.7497	.0063
3	.2966	3.3710	.0071
3 ¹ / ₈	.3279	3.0498	.0078
3 ¹ / ₄	.3604	2.7747	.0086
3 ³ / ₈	.3942	2.5369	.0094
3 ¹ / ₂	.4292	2.3297	.0102
3 ⁵ / ₈	.4656	2.1478	.0111
3 ³ / ₄	.5032	1.9873	.0120
3 ⁷ / ₈	.5421	1.8447	.0129
4	.5822	1.7175	.0139
4 ¹ / ₈	.6237	1.6034	.0148
4 ¹ / ₄	.6664	1.5006	.0159
4 ³ / ₈	.7104	1.4077	.0169
4 ¹ / ₂	.7556	1.3234	.0180
4 ⁵ / ₈	.8022	1.2466	.0191
4 ³ / ₄	.8500	1.1765	.0202
4 ⁷ / ₈	.8991	1.1122	.0214
5	.9494	1.0532	.0226
5 ¹ / ₈	1.0011	.9989	.0238
5 ¹ / ₄	1.0540	.9488	.0251
5 ³ / ₈	1.1082	.9024	.0264
5 ¹ / ₂	1.1636	.8594	.0277
5 ⁵ / ₈	1.2204	.8194	.0291
5 ³ / ₄	1.2784	.7822	.0304
5 ⁷ / ₈	1.3377	.7476	.0318
6	1.3982	.7152	.0333
6 ¹ / ₈	1.4601	.6849	.0348
6 ¹ / ₄	1.5232	.6565	.0363
6 ³ / ₈	1.5876	.6299	.0378
6 ¹ / ₂	1.6532	.6049	.0394
6 ⁵ / ₈	1.7202	.5813	.0410
6 ³ / ₄	1.7884	.5592	.0426
6 ⁷ / ₈	1.8579	.5382	.0442
7	1.9286	.5185	.0459
7 ¹ / ₈	2.0007	.4998	.0476
7 ¹ / ₄	2.0740	.4822	.0494
7 ³ / ₈	2.1486	.4654	.0512
7 ¹ / ₂	2.2244	.4496	.0530
7 ⁵ / ₈	2.3016	.4345	.0548
7 ³ / ₄	2.3800	.4202	.0567
7 ⁷ / ₈	2.4597	.4066	.0586

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 1.314"

ONE STRING

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
772.0800	.0073	137.5133	1 ³ / ₄
576.2426	.0097	102.6332	1 ⁷ / ₈
453.3267	.0124	80.7409	2
369.4391	.0152	65.7999	2 ¹ / ₈
308.8273	.0182	55.0045	2 ¹ / ₄
263.1814	.0213	46.8746	2 ³ / ₈
227.7062	.0247	40.5562	2 ¹ / ₂
199.4438	.0282	35.5225	2 ⁵ / ₈
176.4720	.0318	31.4310	2 ³ / ₄
157.4889	.0357	28.0500	2 ⁷ / ₈
141.5820	.0397	25.2168	3
128.0935	.0438	22.8144	3 ¹ / ₈
116.5379	.0482	20.7563	3 ¹ / ₄
106.5489	.0527	18.9772	3 ³ / ₈
97.8456	.0574	17.4270	3 ¹ / ₂
90.2091	.0622	16.0669	3 ⁵ / ₈
83.4662	.0673	14.8660	3 ³ / ₄
77.4786	.0725	13.7995	3 ⁷ / ₈
72.1343	.0778	12.8477	4
67.3417	.0834	11.9941	4 ¹ / ₈
63.0255	.0891	11.2253	4 ¹ / ₄
59.1229	.0950	10.5302	4 ³ / ₈
55.5815	.1010	9.8995	4 ¹ / ₂
52.3571	.1072	9.3252	4 ⁵ / ₈
49.4120	.1136	8.8006	4 ³ / ₄
46.7142	.1202	8.3202	4 ⁷ / ₈
44.2363	.1269	7.8788	5
41.9545	.1338	7.4724	5 ¹ / ₈
39.8483	.1409	7.0973	5 ¹ / ₄
37.8999	.1481	6.7503	5 ³ / ₈
36.0935	.1556	6.4285	5 ¹ / ₂
34.4154	.1631	6.1296	5 ⁵ / ₈
32.8537	.1709	5.8515	5 ³ / ₄
31.3976	.1788	5.5921	5 ⁷ / ₈
30.0376	.1869	5.3499	6
28.7655	.1952	5.1234	6 ¹ / ₈
27.5736	.2036	4.9111	6 ¹ / ₄
26.4553	.2122	4.7119	6 ³ / ₈
25.4046	.2210	4.5248	6 ¹ / ₂
24.4160	.2300	4.3487	6 ⁵ / ₈
23.4848	.2391	4.1828	6 ³ / ₄
22.6064	.2484	4.0264	6 ⁷ / ₈
21.7770	.2578	3.8786	7
20.9928	.2675	3.7390	7 ¹ / ₈
20.2508	.2773	3.6068	7 ¹ / ₄
19.5478	.2872	3.4816	7 ³ / ₈
18.8811	.2974	3.3629	7 ¹ / ₂
18.2483	.3077	3.2502	7 ⁵ / ₈
17.6471	.3182	3.1431	7 ³ / ₄
17.0754	.3288	3.0413	7 ⁷ / ₈

**Note: No allowance made for couplings.

Tubing Size
O.D. 1.315"
TWO STRINGS
TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
3 ³ / ₈	.3236	3.0899	.0077
3 ¹ / ₂	.3587	2.7879	.0085
3 ⁵ / ₈	.3950	2.5314	.0094
3 ³ / ₄	.4326	2.3114	.0103
3 ⁷ / ₈	.4715	2.1207	.0112
4	.5117	1.9543	.0122
4 ¹ / ₈	.5531	1.8079	.0132
4 ¹ / ₄	.5958	1.6783	.0142
4 ³ / ₈	.6398	1.5629	.0152
4 ¹ / ₂	.6851	1.4597	.0163
4 ⁵ / ₈	.7316	1.3668	.0174
4 ³ / ₄	.7794	1.2830	.0186
4 ⁷ / ₈	.8285	1.2070	.0197
5	.8789	1.1378	.0209
5 ¹ / ₈	.9305	1.0747	.0222
5 ¹ / ₄	.9834	1.0168	.0234
5 ³ / ₈	1.0376	.9637	.0247
5 ¹ / ₂	1.0931	.9148	.0260
5 ⁵ / ₈	1.1498	.8697	.0274
5 ³ / ₄	1.2078	.8279	.0288
5 ⁷ / ₈	1.2671	.7892	.0302
6	1.3277	.7532	.0316
6 ¹ / ₈	1.3895	.7197	.0331
6 ¹ / ₄	1.4526	.6884	.0346
6 ³ / ₈	1.5170	.6592	.0361
6 ¹ / ₂	1.5827	.6318	.0377
6 ⁵ / ₈	1.6496	.6062	.0393
6 ³ / ₄	1.7178	.5821	.0409
6 ⁷ / ₈	1.7873	.5595	.0426
7	1.8581	.5382	.0442
7 ¹ / ₈	1.9301	.5181	.0460
7 ¹ / ₄	2.0034	.4991	.0477
7 ³ / ₈	2.0780	.4812	.0495
7 ¹ / ₂	2.1539	.4643	.0513
7 ⁵ / ₈	2.2310	.4482	.0531
7 ³ / ₄	2.3094	.4330	.0550
7 ⁷ / ₈	2.3891	.4186	.0569
8	2.4701	.4048	.0588
8 ¹ / ₈	2.5523	.3918	.0608
8 ¹ / ₄	2.6358	.3794	.0628
8 ³ / ₈	2.7206	.3676	.0648
8 ¹ / ₂	2.8067	.3563	.0668
8 ⁵ / ₈	2.8940	.3455	.0689
8 ³ / ₄	2.9826	.3353	.0710
8 ⁷ / ₈	3.0725	.3255	.0732
9	3.1637	.3161	.0753
9 ¹ / ₈	3.2561	.3071	.0775
9 ¹ / ₄	3.3498	.2985	.0798
9 ³ / ₈	3.4448	.2903	.0820
9 ¹ / ₂	3.5411	.2824	.0843

NO.122-A

BETWEEN TUBING & HOLE**
Tubing Size
O.D. 1.315"
TWO STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
129.7770	.0433	23.1143	3 ³ / ₈
117.0913	.0480	20.8549	3 ¹ / ₂
106.3206	.0528	18.9365	3 ⁵ / ₈
97.0775	.0578	17.2902	3 ³ / ₄
89.0714	.0630	15.8643	3 ⁷ / ₈
82.0803	.0684	14.6191	4
75.9313	.0739	13.5239	4 ¹ / ₈
70.4883	.0797	12.5545	4 ¹ / ₄
65.6423	.0855	11.6914	4 ³ / ₈
61.3055	.0916	10.9190	4 ¹ / ₂
57.4060	.0978	10.2244	4 ⁵ / ₈
53.8846	.1042	9.5973	4 ³ / ₄
50.6921	.1108	9.0287	4 ⁷ / ₈
47.7874	.1175	8.5113	5
45.1355	.1244	8.0390	5 ¹ / ₈
42.7071	.1315	7.6065	5 ¹ / ₄
40.4768	.1387	7.2092	5 ³ / ₈
38.4231	.1461	6.8434	5 ¹ / ₂
36.5271	.1537	6.5058	5 ⁵ / ₈
34.7728	.1615	6.1933	5 ³ / ₄
33.1458	.1694	5.9035	5 ⁷ / ₈
31.6338	.1775	5.6342	6
30.2261	.1858	5.3835	6 ¹ / ₈
28.9128	.1942	5.1496	6 ¹ / ₄
27.6857	.2028	4.9310	6 ³ / ₈
26.5371	.2116	4.7265	6 ¹ / ₂
25.4603	.2205	4.5347	6 ⁵ / ₈
24.4493	.2296	4.3546	6 ³ / ₄
23.4988	.2389	4.1853	6 ⁷ / ₈
22.6038	.2484	4.0259	7
21.7602	.2580	3.8757	7 ¹ / ₈
20.9639	.2678	3.7338	7 ¹ / ₄
20.2115	.2778	3.5998	7 ³ / ₈
19.4996	.2879	3.4730	7 ¹ / ₂
18.8254	.2982	3.3529	7 ⁵ / ₈
18.1862	.3087	3.2391	7 ³ / ₄
17.5796	.3194	3.1311	7 ⁷ / ₈
17.0034	.3302	3.0284	8
16.4556	.3412	2.9309	8 ¹ / ₈
15.9342	.3524	2.8380	8 ¹ / ₄
15.4376	.3637	2.7496	8 ³ / ₈
14.9643	.3752	2.6652	8 ¹ / ₂
14.5127	.3869	2.5848	8 ⁵ / ₈
14.0815	.3987	2.5080	8 ³ / ₄
13.6695	.4107	2.4346	8 ⁷ / ₈
13.2756	.4229	2.3645	9
12.8988	.4353	2.2974	9 ¹ / ₈
12.5379	.4478	2.2331	9 ¹ / ₄
12.1922	.4605	2.1715	9 ³ / ₈
11.8608	.4734	2.1125	9 ¹ / ₂

**Note: No allowance made for couplings.

Tubing Size
O.D. 1.315"

TABLE

THREE STRINGS

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
3 ⁵ / ₈	.3245	3.0819	.0077
3 ³ / ₄	.3621	2.7617	.0086
3 ⁷ / ₈	.4010	2.4939	.0095
4	.4411	2.2668	.0105
4 ¹ / ₈	.4826	2.0722	.0115
4 ¹ / ₄	.5253	1.9037	.0125
4 ³ / ₈	.5693	1.7566	.0136
4 ¹ / ₂	.6145	1.6272	.0146
4 ⁵ / ₈	.6611	1.5127	.0157
4 ³ / ₄	.7089	1.4107	.0169
4 ⁷ / ₈	.7580	1.3193	.0180
5	.8083	1.2371	.0192
5 ¹ / ₈	.8600	1.1628	.0205
5 ¹ / ₄	.9129	1.0954	.0217
5 ³ / ₈	.9671	1.0340	.0230
5 ¹ / ₂	1.0225	.9780	.0243
5 ⁵ / ₈	1.0793	.9265	.0257
5 ³ / ₄	1.1373	.8793	.0271
5 ⁷ / ₈	1.1966	.8357	.0285
6	1.2571	.7955	.0299
6 ¹ / ₈	1.3190	.7582	.0314
6 ¹ / ₄	1.3821	.7235	.0329
6 ³ / ₈	1.4465	.6913	.0344
6 ¹ / ₂	1.5121	.6613	.0360
6 ⁵ / ₈	1.5791	.6333	.0376
6 ³ / ₄	1.6473	.6071	.0392
6 ⁷ / ₈	1.7168	.5825	.0409
7	1.7875	.5594	.0426
7 ¹ / ₈	1.8596	.5378	.0443
7 ¹ / ₄	1.9329	.5174	.0460
7 ³ / ₈	2.0075	.4981	.0478
7 ¹ / ₂	2.0833	.4800	.0496
7 ⁵ / ₈	2.1605	.4629	.0514
7 ³ / ₄	2.2389	.4467	.0533
7 ⁷ / ₈	2.3186	.4313	.0552
8	2.3995	.4167	.0571
8 ¹ / ₈	2.4818	.4029	.0591
8 ¹ / ₄	2.5653	.3898	.0611
8 ³ / ₈	2.6501	.3773	.0631
8 ¹ / ₂	2.7361	.3655	.0651
8 ⁵ / ₈	2.8235	.3542	.0672
8 ³ / ₄	2.9121	.3434	.0693
8 ⁷ / ₈	3.0020	.3331	.0715
9	3.0931	.3233	.0736
9 ¹ / ₈	3.1856	.3139	.0758
9 ¹ / ₄	3.2793	.3049	.0781
9 ³ / ₈	3.3743	.2964	.0803
9 ¹ / ₂	3.4705	.2881	.0826
9 ⁵ / ₈	3.5681	.2803	.0850
9 ³ / ₄	3.6669	.2727	.0873

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 1.315"

THREE STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
129.4380	.0434	23.0539	3 ⁵ / ₈
115.9926	.0484	20.6592	3 ³ / ₄
104.7435	.0536	18.6556	3 ⁷ / ₈
95.2075	.0590	16.9572	4
87.0323	.0645	15.5011	4 ¹ / ₈
79.9556	.0702	14.2407	4 ¹ / ₄
73.7775	.0761	13.1403	4 ³ / ₈
68.3436	.0822	12.1725	4 ¹ / ₂
63.5325	.0884	11.3156	4 ⁵ / ₈
59.2475	.0948	10.5524	4 ³ / ₄
55.4105	.1013	9.8690	4 ⁷ / ₈
51.9583	.1081	9.2542	5
48.8384	.1150	8.6985	5 ¹ / ₈
46.0077	.1220	8.1943	5 ¹ / ₄
43.4298	.1293	7.7352	5 ³ / ₈
41.0742	.1367	7.3156	5 ¹ / ₂
38.9149	.1443	6.9310	5 ⁵ / ₈
36.9299	.1520	6.5775	5 ³ / ₄
35.1001	.1600	6.2516	5 ⁷ / ₈
33.4092	.1681	5.9504	6
31.8429	.1763	5.6715	6 ¹ / ₈
30.3888	.1848	5.4125	6 ¹ / ₄
29.0361	.1934	5.1715	6 ³ / ₈
27.7752	.2021	4.9470	6 ¹ / ₂
26.5978	.2111	4.7373	6 ⁵ / ₈
25.4964	.2202	4.5411	6 ³ / ₄
24.4645	.2295	4.3573	6 ⁷ / ₈
23.4960	.2390	4.1848	7
22.5858	.2486	4.0227	7 ¹ / ₈
21.7291	.2584	3.8701	7 ¹ / ₄
20.9218	.2684	3.7263	7 ³ / ₈
20.1600	.2785	3.5906	7 ¹ / ₂
19.4402	.2888	3.4624	7 ⁵ / ₈
18.7593	.2993	3.3412	7 ³ / ₄
18.1146	.3099	3.2263	7 ⁷ / ₈
17.5034	.3208	3.1175	8
16.9234	.3318	3.0142	8 ¹ / ₈
16.3724	.3429	2.9161	8 ¹ / ₄
15.8486	.3543	2.8228	8 ³ / ₈
15.3501	.3658	2.7340	8 ¹ / ₂
14.8753	.3774	2.6494	8 ⁵ / ₈
14.4227	.3893	2.5688	8 ³ / ₄
13.9908	.4013	2.4919	8 ⁷ / ₈
13.5785	.4135	2.4184	9
13.1844	.4258	2.3482	9 ¹ / ₈
12.8077	.4384	2.2811	9 ¹ / ₄
12.4471	.4511	2.2169	9 ³ / ₈
12.1019	.4639	2.1554	9 ¹ / ₂
11.7711	.4770	2.0965	9 ⁵ / ₈
11.4539	.4902	2.0400	9 ³ / ₄

**Note: No allowance made for couplings.

Tubing Size
O.D. 1.315"
FOUR STRINGS
TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
4	.3706	2.6984	.0088
4 ¹ / ₈	.4120	2.4270	.0098
4 ¹ / ₄	.4547	2.1991	.0108
4 ³ / ₈	.4987	2.0051	.0119
4 ¹ / ₂	.5440	1.8383	.0130
4 ⁵ / ₈	.5905	1.6934	.0141
4 ³ / ₄	.6383	1.5666	.0152
4 ⁷ / ₈	.6874	1.4547	.0164
5	.7378	1.3554	.0176
5 ¹ / ₈	.7894	1.2667	.0188
5 ¹ / ₄	.8423	1.1872	.0201
5 ³ / ₈	.8965	1.1154	.0213
5 ¹ / ₂	.9520	1.0504	.0227
5 ⁵ / ₈	1.0087	.9913	.0240
5 ³ / ₄	1.0667	.9374	.0254
5 ⁷ / ₈	1.1260	.8881	.0268
6	1.1866	.8428	.0283
6 ¹ / ₈	1.2484	.8010	.0297
6 ¹ / ₄	1.3115	.7625	.0312
6 ³ / ₈	1.3759	.7268	.0328
6 ¹ / ₂	1.4416	.6937	.0343
6 ⁵ / ₈	1.5085	.6629	.0359
6 ³ / ₄	1.5767	.6342	.0375
6 ⁷ / ₈	1.6462	.6075	.0392
7	1.7170	.5824	.0409
7 ¹ / ₈	1.7890	.5590	.0426
7 ¹ / ₄	1.8623	.5370	.0443
7 ³ / ₈	1.9369	.5163	.0461
7 ¹ / ₂	2.0128	.4968	.0479
7 ⁵ / ₈	2.0899	.4785	.0498
7 ³ / ₄	2.1683	.4612	.0516
7 ⁷ / ₈	2.2480	.4448	.0535
8	2.3290	.4294	.0555
8 ¹ / ₈	2.4112	.4147	.0574
8 ¹ / ₄	2.4947	.4008	.0594
8 ³ / ₈	2.5795	.3877	.0614
8 ¹ / ₂	2.6656	.3752	.0635
8 ⁵ / ₈	2.7529	.3633	.0655
8 ³ / ₄	2.8415	.3519	.0677
8 ⁷ / ₈	2.9314	.3411	.0698
9	3.0226	.3308	.0720
9 ¹ / ₈	3.1150	.3210	.0742
9 ¹ / ₄	3.2087	.3116	.0764
9 ³ / ₈	3.3037	.3027	.0787
9 ¹ / ₂	3.4000	.2941	.0810
9 ⁵ / ₈	3.4975	.2859	.0833
9 ³ / ₄	3.5963	.2781	.0856
9 ⁷ / ₈	3.6964	.2705	.0880
10	3.7978	.2633	.0904
10 ¹ / ₈	3.9004	.2564	.0929

NO.122-A

BETWEEN TUBING & HOLE**
Tubing Size
O.D. 1.315"
FOUR STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
113.3329	.0495	20.1855	4
101.9351	.0551	18.1554	4 ¹ / ₈
92.3606	.0608	16.4501	4 ¹ / ₄
84.2144	.0667	14.9992	4 ³ / ₈
77.2074	.0727	13.7512	4 ¹ / ₂
71.1230	.0789	12.6675	4 ⁵ / ₈
65.7958	.0853	11.7187	4 ³ / ₄
61.0975	.0919	10.8819	4 ⁷ / ₈
56.9269	.0986	10.1391	5
53.2032	.1055	9.4759	5 ¹ / ₈
49.8612	.1126	8.8807	5 ¹ / ₄
46.8475	.1198	8.3439	5 ³ / ₈
44.1182	.1273	7.8578	5 ¹ / ₂
41.6367	.1348	7.4158	5 ⁵ / ₈
39.3724	.1426	7.0125	5 ³ / ₄
37.2993	.1505	6.6433	5 ⁷ / ₈
35.3956	.1586	6.3042	6
33.6424	.1669	5.9920	6 ¹ / ₈
32.0235	.1753	5.7036	6 ¹ / ₄
30.5249	.1839	5.4367	6 ³ / ₈
29.1346	.1927	5.1891	6 ¹ / ₂
27.8418	.2017	4.9588	6 ⁵ / ₈
26.6373	.2108	4.7443	6 ³ / ₄
25.5129	.2201	4.5440	6 ⁷ / ₈
24.4615	.2295	4.3568	7
23.4765	.2392	4.1813	7 ¹ / ₈
22.5523	.2490	4.0167	7 ¹ / ₄
21.6839	.2589	3.8621	7 ³ / ₈
20.8666	.2691	3.7165	7 ¹ / ₂
20.0964	.2794	3.5793	7 ⁵ / ₈
19.3697	.2899	3.4499	7 ³ / ₄
18.6831	.3005	3.3276	7 ⁷ / ₈
18.0336	.3113	3.2119	8
17.4186	.3223	3.1024	8 ¹ / ₈
16.8355	.3335	2.9985	8 ¹ / ₄
16.2821	.3448	2.9000	8 ³ / ₈
15.7564	.3563	2.8063	8 ¹ / ₂
15.2565	.3680	2.7173	8 ⁵ / ₈
14.7808	.3799	2.6326	8 ³ / ₄
14.3275	.3919	2.5518	8 ⁷ / ₈
13.8954	.4041	2.4749	9
13.4831	.4164	2.4014	9 ¹ / ₈
13.0893	.4289	2.3313	9 ¹ / ₄
12.7129	.4416	2.2643	9 ³ / ₈
12.3530	.4545	2.2002	9 ¹ / ₂
12.0085	.4676	2.1388	9 ⁵ / ₈
11.6786	.4808	2.0800	9 ³ / ₄
11.3623	.4941	2.0237	9 ⁷ / ₈
11.0591	.5077	1.9697	10
10.7681	.5214	1.9179	10 ¹ / ₈

**Note: No allowance made for couplings.

Tubing Size
O.D. 1.660"

TABLE

ONE STRING

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
2 ¹ / ₈	.0718	13.9259	.0017
2 ¹ / ₄	.0941	10.6246	.0022
2 ³ / ₈	.1177	8.4955	.0028
2 ¹ / ₂	.1426	7.0140	.0034
2 ⁵ / ₈	.1687	5.9274	.0040
2 ³ / ₄	.1961	5.0989	.0047
2 ⁷ / ₈	.2248	4.4482	.0054
3	.2548	3.9251	.0061
3 ¹ / ₈	.2860	3.4964	.0068
3 ¹ / ₄	.3185	3.1395	.0076
3 ³ / ₈	.3523	2.8384	.0084
3 ¹ / ₂	.3874	2.5815	.0092
3 ⁵ / ₈	.4237	2.3601	.0101
3 ³ / ₄	.4613	2.1677	.0110
3 ⁷ / ₈	.5002	1.9992	.0119
4	.5404	1.8506	.0129
4 ¹ / ₈	.5818	1.7188	.0139
4 ¹ / ₄	.6245	1.6012	.0149
4 ³ / ₈	.6685	1.4959	.0159
4 ¹ / ₂	.7138	1.4010	.0170
4 ⁵ / ₈	.7603	1.3153	.0181
4 ³ / ₄	.8081	1.2374	.0192
4 ⁷ / ₈	.8572	1.1666	.0204
5	.9076	1.1018	.0216
5 ¹ / ₈	.9592	1.0425	.0228
5 ¹ / ₄	1.0121	.9880	.0241
5 ³ / ₈	1.0663	.9378	.0254
5 ¹ / ₂	1.1218	.8914	.0267
5 ⁵ / ₈	1.1785	.8485	.0281
5 ³ / ₄	1.2365	.8087	.0294
5 ⁷ / ₈	1.2958	.7717	.0309
6	1.3564	.7373	.0323
6 ¹ / ₈	1.4182	.7051	.0338
6 ¹ / ₄	1.4813	.6751	.0353
6 ³ / ₈	1.5457	.6470	.0368
6 ¹ / ₂	1.6114	.6206	.0384
6 ⁵ / ₈	1.6783	.5958	.0400
6 ³ / ₄	1.7465	.5726	.0416
6 ⁷ / ₈	1.8160	.5507	.0432
7	1.8868	.5300	.0449
7 ¹ / ₈	1.9588	.5105	.0466
7 ¹ / ₄	2.0321	.4921	.0484
7 ³ / ₈	2.1067	.4747	.0502
7 ¹ / ₂	2.1826	.4582	.0520
7 ⁵ / ₈	2.2597	.4425	.0538
7 ³ / ₄	2.3381	.4277	.0557
7 ⁷ / ₈	2.4178	.4136	.0576
8	2.4988	.4002	.0595
8 ¹ / ₈	2.5810	.3874	.0615
8 ¹ / ₄	2.6645	.3753	.0634

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 1.660"

ONE STRING

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
584.8861	.0096	104.1727	2 ¹ / ₈
446.2327	.0126	79.4774	2 ¹ / ₄
356.8129	.0157	63.5511	2 ³ / ₈
294.5897	.0191	52.4687	2 ¹ / ₂
248.9499	.0226	44.3399	2 ⁵ / ₈
214.1534	.0262	38.1424	2 ³ / ₄
186.8257	.0301	33.2751	2 ⁷ / ₈
164.8540	.0341	29.3617	3
146.8489	.0382	26.1549	3 ¹ / ₈
131.8595	.0426	23.4852	3 ¹ / ₄
119.2138	.0471	21.2329	3 ³ / ₈
108.4233	.0518	19.3110	3 ¹ / ₂
99.1249	.0566	17.6549	3 ⁵ / ₈
91.0430	.0617	16.2155	3 ³ / ₄
83.9651	.0669	14.9548	3 ⁷ / ₈
77.7245	.0722	13.8433	4
72.1888	.0778	12.8574	4 ¹ / ₈
67.2516	.0835	11.9780	4 ¹ / ₄
62.8265	.0894	11.1899	4 ³ / ₈
58.8425	.0954	10.4803	4 ¹ / ₂
55.2408	.1016	9.8388	4 ⁵ / ₈
51.9725	.1080	9.2567	4 ³ / ₄
48.9963	.1146	8.7266	4 ⁷ / ₈
46.2775	.1213	8.2424	5
43.7862	.1282	7.7987	5 ¹ / ₈
41.4971	.1353	7.3909	5 ¹ / ₄
39.3883	.1425	7.0154	5 ³ / ₈
37.4409	.1500	6.6685	5 ¹ / ₂
35.6383	.1575	6.3475	5 ⁵ / ₈
33.9663	.1653	6.0497	5 ³ / ₄
32.4123	.1732	5.7729	5 ⁷ / ₈
30.9650	.1813	5.5151	6
29.6149	.1896	5.2746	6 ¹ / ₈
28.3531	.1980	5.0499	6 ¹ / ₄
27.1721	.2066	4.8396	6 ³ / ₈
26.0648	.2154	4.6423	6 ¹ / ₂
25.0252	.2244	4.4572	6 ⁵ / ₈
24.0479	.2335	4.2831	6 ³ / ₄
23.1277	.2428	4.1192	6 ⁷ / ₈
22.2603	.2522	3.9647	7
21.4417	.2619	3.8189	7 ¹ / ₈
20.6681	.2717	3.6811	7 ¹ / ₄
19.9364	.2816	3.5508	7 ³ / ₈
19.2434	.2918	3.4274	7 ¹ / ₂
18.5865	.3021	3.3104	7 ⁵ / ₈
17.9632	.3126	3.1994	7 ³ / ₄
17.3711	.3232	3.0939	7 ⁷ / ₈
16.8083	.3340	2.9937	8
16.2727	.3450	2.8983	8 ¹ / ₈
15.7627	.3562	2.8075	8 ¹ / ₄

**Note: No allowance made for couplings.

Tubing Size
O.D. 1.660"
TWO STRINGS

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
4	.4279	2.3368	.0102
4 ¹ / ₈	.4694	2.1305	.0112
4 ¹ / ₄	.5121	1.9528	.0122
4 ³ / ₈	.5561	1.7983	.0132
4 ¹ / ₂	.6013	1.6629	.0143
4 ⁵ / ₈	.6479	1.5435	.0154
4 ³ / ₄	.6957	1.4374	.0166
4 ⁷ / ₈	.7448	1.3427	.0177
5	.7951	1.2576	.0189
5 ¹ / ₈	.8468	1.1809	.0202
5 ¹ / ₄	.8997	1.1115	.0214
5 ³ / ₈	.9539	1.0484	.0227
5 ¹ / ₂	1.0093	.9907	.0240
5 ⁵ / ₈	1.0661	.9380	.0254
5 ³ / ₄	1.1241	.8896	.0268
5 ⁷ / ₈	1.1834	.8450	.0282
6	1.2439	.8039	.0296
6 ¹ / ₈	1.3058	.7658	.0311
6 ¹ / ₄	1.3689	.7305	.0326
6 ³ / ₈	1.4333	.6977	.0341
6 ¹ / ₂	1.4989	.6671	.0357
6 ⁵ / ₈	1.5659	.6386	.0373
6 ³ / ₄	1.6341	.6120	.0389
6 ⁷ / ₈	1.7036	.5870	.0406
7	1.7743	.5636	.0422
7 ¹ / ₈	1.8464	.5416	.0440
7 ¹ / ₄	1.9197	.5209	.0457
7 ³ / ₈	1.9943	.5014	.0475
7 ¹ / ₂	2.0701	.4831	.0493
7 ⁵ / ₈	2.1473	.4657	.0511
7 ³ / ₄	2.2257	.4493	.0530
7 ⁷ / ₈	2.3054	.4338	.0549
8	2.3863	.4191	.0568
8 ¹ / ₈	2.4686	.4051	.0588
8 ¹ / ₄	2.5521	.3918	.0608
8 ³ / ₈	2.6369	.3792	.0628
8 ¹ / ₂	2.7229	.3673	.0648
8 ⁵ / ₈	2.8103	.3558	.0669
8 ³ / ₄	2.8989	.3450	.0690
8 ⁷ / ₈	2.9888	.3346	.0712
9	3.0799	.3247	.0733
9 ¹ / ₈	3.1724	.3152	.0755
9 ¹ / ₄	3.2661	.3062	.0778
9 ³ / ₈	3.3611	.2975	.0800
9 ¹ / ₂	3.4573	.2892	.0823
9 ⁵ / ₈	3.5549	.2813	.0846
9 ³ / ₄	3.6537	.2737	.0870
9 ⁷ / ₈	3.7538	.2664	.0894
10	3.8551	.2594	.0918
10 ¹ / ₈	3.9578	.2527	.0942

NO.122-A

BETWEEN TUBING & HOLE**
Tubing Size
O.D. 1.660"
TWO STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
98.1441	.0572	17.4802	4
89.4799	.0627	15.9370	4 ¹ / ₈
82.0165	.0685	14.6078	4 ¹ / ₄
75.5288	.0743	13.4523	4 ³ / ₈
69.8438	.0804	12.4397	4 ¹ / ₂
64.8269	.0866	11.5462	4 ⁵ / ₈
60.3716	.0930	10.7526	4 ³ / ₄
56.3926	.0996	10.0439	4 ⁷ / ₈
52.8208	.1063	9.4078	5
49.5997	.1132	8.8341	5 ¹ / ₈
46.6827	.1203	8.3145	5 ¹ / ₄
44.0308	.1275	7.8422	5 ³ / ₈
41.6113	.1349	7.4113	5 ¹ / ₂
39.3967	.1425	7.0169	5 ⁵ / ₈
37.3635	.1503	6.6547	5 ³ / ₄
35.4916	.1582	6.3213	5 ⁷ / ₈
33.7637	.1663	6.0136	6
32.1647	.1746	5.7288	6 ¹ / ₈
30.6818	.1830	5.4647	6 ¹ / ₄
29.3035	.1916	5.2192	6 ³ / ₈
28.0198	.2004	4.9905	6 ¹ / ₂
26.8220	.2093	4.7772	6 ⁵ / ₈
25.7024	.2184	4.5778	6 ³ / ₄
24.6540	.2277	4.3911	6 ⁷ / ₈
23.6708	.2372	4.2159	7
22.7473	.2468	4.0515	7 ¹ / ₈
21.8785	.2566	3.8967	7 ¹ / ₄
21.0603	.2666	3.7510	7 ³ / ₈
20.2885	.2767	3.6135	7 ¹ / ₂
19.5597	.2870	3.4837	7 ⁵ / ₈
18.8706	.2975	3.3610	7 ³ / ₄
18.2183	.3082	3.2448	7 ⁷ / ₈
17.6002	.3190	3.1347	8
17.0139	.3300	3.0303	8 ¹ / ₈
16.4571	.3412	2.9311	8 ¹ / ₄
15.9279	.3525	2.8369	8 ³ / ₈
15.4245	.3640	2.7472	8 ¹ / ₂
14.9452	.3757	2.6618	8 ⁵ / ₈
14.4883	.3875	2.5805	8 ³ / ₄
14.0526	.3995	2.5029	8 ⁷ / ₈
13.6366	.4117	2.4288	9
13.2393	.4241	2.3580	9 ¹ / ₈
12.8594	.4366	2.2904	9 ¹ / ₄
12.4960	.4493	2.2256	9 ³ / ₈
12.1481	.4622	2.1637	9 ¹ / ₂
11.8148	.4752	2.1043	9 ⁵ / ₈
11.4952	.4884	2.0474	9 ³ / ₄
11.1887	.5018	1.9928	9 ⁷ / ₈
10.8946	.5154	1.9404	10
10.6120	.5291	1.8901	10 ¹ / ₈

**Note: No allowance made for couplings.

Tubing Size
O.D. 1.660"

TABLE

THREE STRINGS

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
4 ³ / ₈	.4437	2.2540	.0106
4 ¹ / ₂	.4889	2.0454	.0116
4 ⁵ / ₈	.5355	1.8676	.0127
4 ³ / ₄	.5833	1.7145	.0139
4 ⁷ / ₈	.6324	1.5814	.0151
5	.6827	1.4647	.0163
5 ¹ / ₈	.7344	1.3617	.0175
5 ¹ / ₄	.7873	1.2702	.0187
5 ³ / ₈	.8415	1.1884	.0200
5 ¹ / ₂	.8969	1.1149	.0214
5 ⁵ / ₈	.9536	1.0486	.0227
5 ³ / ₄	1.0117	.9885	.0241
5 ⁷ / ₈	1.0709	.9338	.0255
6	1.1315	.8838	.0269
6 ¹ / ₈	1.1933	.8380	.0284
6 ¹ / ₄	1.2565	.7959	.0299
6 ³ / ₈	1.3208	.7571	.0314
6 ¹ / ₂	1.3865	.7212	.0330
6 ⁵ / ₈	1.4534	.6880	.0346
6 ³ / ₄	1.5217	.6572	.0362
6 ⁷ / ₈	1.5911	.6285	.0379
7	1.6619	.6017	.0396
7 ¹ / ₈	1.7339	.5767	.0413
7 ¹ / ₄	1.8073	.5533	.0430
7 ³ / ₈	1.8818	.5314	.0448
7 ¹ / ₂	1.9577	.5108	.0466
7 ⁵ / ₈	2.0348	.4914	.0484
7 ³ / ₄	2.1133	.4732	.0503
7 ⁷ / ₈	2.1929	.4560	.0522
8	2.2739	.4398	.0541
8 ¹ / ₈	2.3561	.4244	.0561
8 ¹ / ₄	2.4397	.4099	.0581
8 ³ / ₈	2.5244	.3961	.0601
8 ¹ / ₂	2.6105	.3831	.0622
8 ⁵ / ₈	2.6978	.3707	.0642
8 ³ / ₄	2.7865	.3589	.0663
8 ⁷ / ₈	2.8763	.3477	.0685
9	2.9675	.3370	.0707
9 ¹ / ₈	3.0599	.3268	.0729
9 ¹ / ₄	3.1537	.3171	.0751
9 ³ / ₈	3.2486	.3078	.0773
9 ¹ / ₂	3.3449	.2990	.0796
9 ⁵ / ₈	3.4424	.2905	.0820
9 ³ / ₄	3.5413	.2824	.0843
9 ⁷ / ₈	3.6413	.2746	.0867
10	3.7427	.2672	.0891
10 ¹ / ₈	3.8453	.2601	.0916
10 ¹ / ₄	3.9493	.2532	.0940
10 ³ / ₈	4.0544	.2466	.0965
10 ¹ / ₂	4.1609	.2403	.0991

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 1.660"

THREE STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
94.6690	.0593	16.8613	4 ³ / ₈
85.9048	.0654	15.3003	4 ¹ / ₂
78.4386	.0716	13.9705	4 ⁵ / ₈
72.0087	.0780	12.8253	4 ³ / ₄
66.4189	.0845	11.8297	4 ⁷ / ₈
61.5193	.0913	10.9570	5
57.1934	.0982	10.1866	5 ¹ / ₈
53.3494	.1052	9.5019	5 ¹ / ₄
49.9138	.1125	8.8900	5 ³ / ₈
46.8273	.1199	8.3403	5 ¹ / ₂
44.0413	.1275	7.8441	5 ⁵ / ₈
41.5158	.1352	7.3943	5 ³ / ₄
39.2175	.1432	6.9849	5 ⁷ / ₈
37.1185	.1513	6.6111	6
35.1951	.1595	6.2685	6 ¹ / ₈
33.4272	.1680	5.9536	6 ¹ / ₄
31.7977	.1766	5.6634	6 ³ / ₈
30.2919	.1853	5.3952	6 ¹ / ₂
28.8968	.1943	5.1467	6 ⁵ / ₈
27.6014	.2034	4.9160	6 ³ / ₄
26.3960	.2127	4.7013	6 ⁷ / ₈
25.2721	.2222	4.5012	7
24.2222	.2318	4.3142	7 ¹ / ₈
23.2396	.2416	4.1391	7 ¹ / ₄
22.3185	.2516	3.9751	7 ³ / ₈
21.4536	.2617	3.8211	7 ¹ / ₂
20.6404	.2720	3.6762	7 ⁵ / ₈
19.8745	.2825	3.5398	7 ³ / ₄
19.1523	.2932	3.4112	7 ⁷ / ₈
18.4704	.3040	3.2897	8
17.8257	.3150	3.1749	8 ¹ / ₈
17.2155	.3261	3.0662	8 ¹ / ₄
16.6373	.3375	2.9632	8 ³ / ₈
16.0888	.3490	2.8655	8 ¹ / ₂
15.5680	.3606	2.7728	8 ⁵ / ₈
15.0729	.3725	2.6846	8 ³ / ₄
14.6019	.3845	2.6007	8 ⁷ / ₈
14.1533	.3967	2.5208	9
13.7257	.4091	2.4447	9 ¹ / ₈
13.3179	.4216	2.3720	9 ¹ / ₄
12.9285	.4343	2.3027	9 ³ / ₈
12.5564	.4471	2.2364	9 ¹ / ₂
12.2006	.4602	2.1730	9 ⁵ / ₈
11.8602	.4734	2.1124	9 ³ / ₄
11.5342	.4868	2.0543	9 ⁷ / ₈
11.2218	.5003	1.9987	10
10.9223	.5140	1.9453	10 ¹ / ₈
10.6349	.5279	1.8942	10 ¹ / ₄
10.3590	.5420	1.8450	10 ³ / ₈
10.0940	.5562	1.7978	10 ¹ / ₂

**Note: No allowance made for couplings.

Tubing Size
O.D. 1.660"
FOUR STRINGS
TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
4 ⁷ / ₈	.5199	1.9234	.0124
5	.5703	1.7535	.0136
5 ¹ / ₈	.6219	1.6079	.0148
5 ¹ / ₄	.6748	1.4818	.0161
5 ³ / ₈	.7290	1.3717	.0174
5 ¹ / ₂	.7845	1.2747	.0187
5 ⁵ / ₈	.8412	1.1887	.0200
5 ³ / ₄	.8992	1.1121	.0214
5 ⁷ / ₈	.9585	1.0433	.0228
6	1.0191	.9813	.0243
6 ¹ / ₈	1.0809	.9251	.0257
6 ¹ / ₄	1.1440	.8741	.0272
6 ³ / ₈	1.2084	.8275	.0288
6 ¹ / ₂	1.2741	.7849	.0303
6 ⁵ / ₈	1.3410	.7457	.0319
6 ³ / ₄	1.4092	.7096	.0336
6 ⁷ / ₈	1.4878	.6763	.0352
7	1.5495	.6454	.0369
7 ¹ / ₈	1.6215	.6167	.0386
7 ¹ / ₄	1.6948	.5900	.0404
7 ³ / ₈	1.7694	.5652	.0421
7 ¹ / ₂	1.8453	.5419	.0439
7 ⁵ / ₈	1.9224	.5202	.0458
7 ³ / ₄	2.0008	.4998	.0476
7 ⁷ / ₈	2.0805	.4806	.0495
8	2.1615	.4626	.0515
8 ¹ / ₈	2.2437	.4457	.0534
8 ¹ / ₄	2.3272	.4297	.0554
8 ³ / ₈	2.4120	.4146	.0574
8 ¹ / ₂	2.4981	.4003	.0595
8 ⁵ / ₈	2.5854	.3868	.0616
8 ³ / ₄	2.6740	.3740	.0637
8 ⁷ / ₈	2.7639	.3618	.0658
9	2.8551	.3503	.0680
9 ¹ / ₈	2.9475	.3393	.0702
9 ¹ / ₄	3.0412	.3288	.0724
9 ³ / ₈	3.1362	.3189	.0747
9 ¹ / ₂	3.2325	.3094	.0770
9 ⁵ / ₈	3.3300	.3003	.0793
9 ³ / ₄	3.4288	.2916	.0816
9 ⁷ / ₈	3.5289	.2834	.0840
10	3.6303	.2755	.0864
10 ¹ / ₈	3.7329	.2679	.0889
10 ¹ / ₄	3.8368	.2606	.0914
10 ³ / ₈	3.9420	.2537	.0939
10 ¹ / ₂	4.0485	.2470	.0964
10 ⁵ / ₈	4.1562	.2406	.0990
10 ³ / ₄	4.2652	.2345	.1016
10 ⁷ / ₈	4.3755	.2285	.1042
11	4.4871	.2229	.1068

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 1.660"

FOUR STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
80.7813	.0695	14.3878	4 ⁷ / ₈
73.6474	.0762	13.1172	5
67.5326	.0831	12.0281	5 ¹ / ₈
62.2375	.0902	11.0850	5 ¹ / ₄
57.6114	.0975	10.2610	5 ³ / ₈
53.5384	.1049	9.5356	5 ¹ / ₂
49.9274	.1125	8.8924	5 ⁵ / ₈
46.7064	.1202	8.3188	5 ³ / ₄
43.8175	.1281	7.8042	5 ⁷ / ₈
41.2135	.1362	7.3404	6
38.8558	.1445	6.9205	6 ¹ / ₈
36.7122	.1529	6.5387	6 ¹ / ₄
34.7561	.1615	6.1903	6 ³ / ₈
32.9649	.1703	5.8713	6 ¹ / ₂
31.3194	.1793	5.5782	6 ⁵ / ₈
29.8035	.1884	5.3082	6 ³ / ₄
28.4029	.1977	5.0588	6 ⁷ / ₈
27.1058	.2071	4.8278	7
25.9016	.2168	4.6133	7 ¹ / ₈
24.7812	.2266	4.4137	7 ¹ / ₄
23.7366	.2365	4.2277	7 ³ / ₈
22.7608	.2467	4.0539	7 ¹ / ₂
21.8475	.2570	3.8912	7 ⁵ / ₈
20.9913	.2675	3.7387	7 ³ / ₄
20.1873	.2781	3.5955	7 ⁷ / ₈
19.4311	.2889	3.4608	8
18.7189	.2999	3.3340	8 ¹ / ₈
18.0472	.3111	3.2143	8 ¹ / ₄
17.4128	.3224	3.1014	8 ³ / ₈
16.8129	.3339	2.9945	8 ¹ / ₂
16.2450	.3456	2.8934	8 ⁵ / ₈
15.7066	.3575	2.7975	8 ³ / ₄
15.1958	.3695	2.7065	8 ⁷ / ₈
14.7106	.3817	2.6201	9
14.2493	.3940	2.5379	9 ¹ / ₈
13.8102	.4066	2.4597	9 ¹ / ₄
13.3919	.4193	2.3852	9 ³ / ₈
12.9931	.4321	2.3142	9 ¹ / ₂
12.6126	.4452	2.2464	9 ⁵ / ₈
12.2491	.4584	2.1817	9 ³ / ₄
11.9017	.4717	2.1198	9 ⁷ / ₈
11.5694	.4853	2.0606	10
11.2513	.4990	2.0039	10 ¹ / ₈
10.9465	.5129	1.9497	10 ¹ / ₄
10.6545	.5270	1.8976	10 ³ / ₈
10.3743	.5412	1.8477	10 ¹ / ₂
10.1054	.5556	1.7998	10 ⁵ / ₈
9.8471	.5702	1.7538	10 ³ / ₄
9.5989	.5849	1.7096	10 ⁷ / ₈
9.3602	.5998	1.6671	11

**Note: No allowance made for couplings.

Tubing Size
O.D. 1.900"

TABLE

ONE STRING

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
2 ³ / ₈	.0828	12.0701	.0020
2 ¹ / ₂	.1077	9.2840	.0026
2 ⁵ / ₈	.1338	7.4711	.0032
2 ³ / ₄	.1613	6.2011	.0038
2 ⁷ / ₈	.1899	5.2646	.0045
3	.2199	4.5473	.0052
3 ¹ / ₈	.2511	3.9817	.0060
3 ¹ / ₄	.2837	3.5253	.0068
3 ³ / ₈	.3174	3.1501	.0076
3 ¹ / ₂	.3525	2.8368	.0084
3 ⁵ / ₈	.3888	2.5717	.0093
3 ³ / ₄	.4265	2.3449	.0102
3 ⁷ / ₈	.4653	2.1489	.0111
4	.5055	1.9782	.0120
4 ¹ / ₈	.5469	1.8283	.0130
4 ¹ / ₄	.5897	1.6959	.0140
4 ³ / ₈	.6336	1.5782	.0151
4 ¹ / ₂	.6789	1.4729	.0162
4 ⁵ / ₈	.7254	1.3785	.0173
4 ³ / ₄	.7733	1.2932	.0184
4 ⁷ / ₈	.8223	1.2160	.0196
5	.8727	1.1459	.0208
5 ¹ / ₈	.9243	1.0818	.0220
5 ¹ / ₄	.9773	1.0233	.0233
5 ³ / ₈	1.0314	.9695	.0246
5 ¹ / ₂	1.0869	.9200	.0259
5 ⁵ / ₈	1.1436	.8744	.0272
5 ³ / ₄	1.2017	.8322	.0286
5 ⁷ / ₈	1.2609	.7931	.0300
6	1.3215	.7567	.0315
6 ¹ / ₈	1.3833	.7229	.0329
6 ¹ / ₄	1.4465	.6913	.0344
6 ³ / ₈	1.5108	.6619	.0360
6 ¹ / ₂	1.5765	.6343	.0375
6 ⁵ / ₈	1.6434	.6085	.0391
6 ³ / ₄	1.7117	.5842	.0408
6 ⁷ / ₈	1.7811	.5614	.0424
7	1.8519	.5400	.0441
7 ¹ / ₈	1.9239	.5198	.0458
7 ¹ / ₄	1.9973	.5007	.0476
7 ³ / ₈	2.0718	.4827	.0493
7 ¹ / ₂	2.1477	.4656	.0511
7 ⁵ / ₈	2.2248	.4495	.0530
7 ³ / ₄	2.3033	.4342	.0548
7 ⁷ / ₈	2.3829	.4196	.0567
8	2.4639	.4059	.0587
8 ¹ / ₈	2.5461	.3928	.0606
8 ¹ / ₄	2.6297	.3803	.0626
8 ³ / ₈	2.7144	.3684	.0646
8 ¹ / ₂	2.8005	.3571	.0667

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 1.900"

ONE STRING

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
506.9445	.0111	90.2907	2 ³ / ₈
389.9296	.0144	69.4494	2 ¹ / ₂
313.7860	.0179	55.8877	2 ⁵ / ₈
260.4464	.0216	46.3875	2 ³ / ₄
221.1119	.0254	39.3817	2 ⁷ / ₈
190.9859	.0294	34.0160	3
167.2315	.0336	29.7852	3 ¹ / ₈
148.0639	.0379	26.3713	3 ¹ / ₄
132.3048	.0424	23.5645	3 ³ / ₈
119.1452	.0471	21.2207	3 ¹ / ₂
108.0112	.0520	19.2376	3 ⁵ / ₈
98.4850	.0570	17.5409	3 ³ / ₄
90.2550	.0622	16.0751	3 ⁷ / ₈
83.0843	.0676	14.7979	4
76.7897	.0731	13.6768	4 ¹ / ₈
71.2274	.0788	12.6861	4 ¹ / ₄
66.2829	.0847	11.8055	4 ³ / ₈
61.8638	.0908	11.0184	4 ¹ / ₂
57.8953	.0970	10.3116	4 ⁵ / ₈
54.3155	.1034	9.6740	4 ³ / ₄
51.0733	.1099	9.0965	4 ⁷ / ₈
48.1260	.1167	8.5716	5
45.4375	.1236	8.0928	5 ¹ / ₈
42.9773	.1306	7.6546	5 ¹ / ₄
40.7195	.1379	7.2525	5 ³ / ₈
38.6417	.1453	6.8824	5 ¹ / ₂
36.7246	.1529	6.5409	5 ⁵ / ₈
34.9517	.1606	6.2252	5 ³ / ₄
33.3083	.1686	5.9325	5 ⁷ / ₈
31.7819	.1767	5.6606	6
30.3612	.1849	5.4076	6 ¹ / ₈
29.0364	.1934	5.1716	6 ¹ / ₄
27.7990	.2020	4.9512	6 ³ / ₈
26.6412	.2107	4.7450	6 ¹ / ₂
25.5561	.2197	4.5517	6 ⁵ / ₈
24.5376	.2288	4.3703	6 ³ / ₄
23.5803	.2381	4.1998	6 ⁷ / ₈
22.6793	.2476	4.0394	7
21.8301	.2572	3.8881	7 ¹ / ₈
21.0288	.2670	3.7454	7 ¹ / ₄
20.2718	.2770	3.6106	7 ³ / ₈
19.5557	.2871	3.4830	7 ¹ / ₂
18.8777	.2974	3.3623	7 ⁵ / ₈
18.2351	.3079	3.2478	7 ³ / ₄
17.6253	.3186	3.1392	7 ⁷ / ₈
17.0461	.3294	3.0360	8
16.4955	.3404	2.9380	8 ¹ / ₈
15.9717	.3515	2.8447	8 ¹ / ₄
15.4728	.3629	2.7558	8 ³ / ₈
14.9973	.3744	2.6711	8 ¹ / ₂

**Note: No allowance made for couplings.

Tubing Size
O.D. 1.900"
TWO STRINGS

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
4 ¹ / ₂	.5316	1.8810	.0127
4 ⁵ / ₈	.5782	1.7296	.0138
4 ³ / ₄	.6260	1.5975	.0149
4 ⁷ / ₈	.6751	1.4814	.0161
5	.7254	1.3785	.0173
5 ¹ / ₈	.7771	1.2869	.0185
5 ¹ / ₄	.8300	1.2049	.0198
5 ³ / ₈	.8842	1.1310	.0211
5 ¹ / ₂	.9396	1.0643	.0224
5 ⁵ / ₈	.9964	1.0037	.0237
5 ³ / ₄	1.0544	.9484	.0251
5 ⁷ / ₈	1.1137	.8979	.0265
6	1.1742	.8516	.0280
6 ¹ / ₈	1.2361	.8090	.0294
6 ¹ / ₄	1.2992	.7697	.0309
6 ³ / ₈	1.3636	.7334	.0325
6 ¹ / ₂	1.4292	.6997	.0340
6 ⁵ / ₈	1.4962	.6684	.0356
6 ³ / ₄	1.5644	.6392	.0372
6 ⁷ / ₈	1.6339	.6120	.0389
7	1.7046	.5866	.0406
7 ¹ / ₈	1.7767	.5629	.0423
7 ¹ / ₄	1.8500	.5405	.0440
7 ³ / ₈	1.9246	.5196	.0458
7 ¹ / ₂	2.0004	.4999	.0476
7 ⁵ / ₈	2.0776	.4813	.0495
7 ³ / ₄	2.1560	.4638	.0513
7 ⁷ / ₈	2.2357	.4473	.0532
8	2.3166	.4317	.0552
8 ¹ / ₈	2.3989	.4169	.0571
8 ¹ / ₄	2.4824	.4028	.0591
8 ³ / ₈	2.5672	.3895	.0611
8 ¹ / ₂	2.6532	.3769	.0632
8 ⁵ / ₈	2.7406	.3649	.0653
8 ³ / ₄	2.8292	.3535	.0674
8 ⁷ / ₈	2.9191	.3426	.0695
9	3.0102	.3322	.0717
9 ¹ / ₈	3.1027	.3223	.0739
9 ¹ / ₄	3.1964	.3129	.0761
9 ³ / ₈	3.2914	.3038	.0784
9 ¹ / ₂	3.3876	.2952	.0807
9 ⁵ / ₈	3.4852	.2869	.0830
9 ³ / ₄	3.5840	.2790	.0853
9 ⁷ / ₈	3.6841	.2714	.0877
10	3.7854	.2642	.0901
10 ¹ / ₈	3.8881	.2572	.0926
10 ¹ / ₄	3.9920	.2505	.0950
10 ³ / ₈	4.0972	.2441	.0976
10 ¹ / ₂	4.2036	.2379	.1001
10 ⁵ / ₈	4.3114	.2319	.1027

NO.122-A

BETWEEN TUBING & HOLE**
Tubing Size
O.D. 1.900"
TWO STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
79.0034	.0711	14.0711	4 ¹ / ₂
72.6442	.0773	12.9385	4 ⁵ / ₈
67.0956	.0837	11.9502	4 ³ / ₄
62.2167	.0902	11.0813	4 ⁷ / ₈
57.8973	.0970	10.3120	5
54.0499	.1039	9.6267	5 ¹ / ₈
50.6041	.1110	9.0130	5 ¹ / ₄
47.5027	.1182	8.4606	5 ³ / ₈
44.6988	.1256	7.9612	5 ¹ / ₂
42.1535	.1332	7.5079	5 ⁵ / ₈
39.8342	.1409	7.0948	5 ³ / ₄
37.7135	.1489	6.7171	5 ⁷ / ₈
35.7684	.1570	6.3706	6
33.9790	.1652	6.0519	6 ¹ / ₈
32.3283	.1737	5.7579	6 ¹ / ₄
30.8018	.1823	5.4860	6 ³ / ₈
29.3866	.1911	5.2340	6 ¹ / ₂
28.0719	.2000	4.9998	6 ⁵ / ₈
26.8479	.2091	4.7818	6 ³ / ₄
25.7060	.2184	4.5784	6 ⁷ / ₈
24.6389	.2279	4.3884	7
23.6399	.2375	4.2104	7 ¹ / ₈
22.7031	.2473	4.0436	7 ¹ / ₄
21.8232	.2573	3.8869	7 ³ / ₈
20.9956	.2674	3.7395	7 ¹ / ₂
20.2161	.2777	3.6006	7 ⁵ / ₈
19.4808	.2882	3.4697	7 ³ / ₄
18.7864	.2989	3.346	7 ⁷ / ₈
18.1299	.3097	3.2291	8
17.5083	.3207	3.1184	8 ¹ / ₈
16.9193	.3318	3.0135	8 ¹ / ₄
16.3605	.3432	2.9139	8 ³ / ₈
15.8298	.3547	2.8194	8 ¹ / ₂
15.3254	.3664	2.7296	8 ⁵ / ₈
14.8454	.3782	2.6441	8 ³ / ₄
14.3882	.3902	2.5627	8 ⁷ / ₈
13.9525	.4024	2.4850	9
13.5368	.4148	2.4110	9 ¹ / ₈
13.1399	.4273	2.3403	9 ¹ / ₄
12.7607	.4400	2.2728	9 ³ / ₈
12.3981	.4529	2.2082	9 ¹ / ₂
12.0511	.4659	2.1464	9 ⁵ / ₈
11.7189	.4791	2.0872	9 ³ / ₄
11.4005	.4925	2.0305	9 ⁷ / ₈
11.0952	.5060	1.9761	10
10.8023	.5198	1.9240	10 ¹ / ₈
10.5211	.5336	1.8739	10 ¹ / ₄
10.2510	.5477	1.8258	10 ³ / ₈
9.9914	.5619	1.7795	10 ¹ / ₂
9.7417	.5763	1.7351	10 ⁵ / ₈

**Note: No allowance made for couplings.

Tubing Size
O.D. 1.900"

TABLE

THREE STRINGS

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
4 ⁷ / ₈	.5270	1.8977	.0125
5	.5773	1.7321	.0137
5 ¹ / ₈	.6290	1.5899	.0150
5 ¹ / ₄	.6819	1.4666	.0162
5 ³ / ₈	.7361	1.3586	.0175
5 ¹ / ₂	.7915	1.2634	.0188
5 ⁵ / ₈	.8483	1.1789	.0202
5 ³ / ₄	.9063	1.1034	.0216
5 ⁷ / ₈	.9656	1.0357	.0230
6	1.0261	.9745	.0244
6 ¹ / ₈	1.0880	.9192	.0259
6 ¹ / ₄	1.1511	.8688	.0274
6 ³ / ₈	1.2155	.8227	.0289
6 ¹ / ₂	1.2811	.7806	.0305
6 ⁵ / ₈	1.3481	.7418	.0321
6 ³ / ₄	1.4163	.7061	.0337
6 ⁷ / ₈	1.4858	.6731	.0354
7	1.5565	.6425	.0371
7 ¹ / ₈	1.6286	.6140	.0388
7 ¹ / ₄	1.7019	.5876	.0405
7 ³ / ₈	1.7765	.5629	.0423
7 ¹ / ₂	1.8523	.5399	.0441
7 ⁵ / ₈	1.9295	.5183	.0459
7 ³ / ₄	2.0079	.4980	.0478
7 ⁷ / ₈	2.0876	.4790	.0497
8	2.1685	.4611	.0516
8 ¹ / ₈	2.2508	.4443	.0536
8 ¹ / ₄	2.3343	.4284	.0556
8 ³ / ₈	2.4191	.4134	.0576
8 ¹ / ₂	2.5051	.3992	.0596
8 ⁵ / ₈	2.5925	.3857	.0617
8 ³ / ₄	2.6811	.3730	.0638
8 ⁷ / ₈	2.7710	.3609	.0660
9	2.8621	.3494	.0681
9 ¹ / ₈	2.9546	.3385	.0703
9 ¹ / ₄	3.0483	.3281	.0726
9 ³ / ₈	3.1433	.3181	.0748
9 ¹ / ₂	3.2395	.3087	.0771
9 ⁵ / ₈	3.3370	.2997	.0795
9 ³ / ₄	3.4359	.2910	.0818
9 ⁷ / ₈	3.5359	.2828	.0842
10	3.6373	.2749	.0866
10 ¹ / ₈	3.7399	.2674	.0890
10 ¹ / ₄	3.8439	.2602	.0915
10 ³ / ₈	3.9490	.2532	.0940
10 ¹ / ₂	4.0555	.2466	.0966
10 ⁵ / ₈	4.1632	.2402	.0991
10 ³ / ₄	4.2723	.2341	.1017
10 ⁷ / ₈	4.3825	.2282	.1043
11	4.4941	.2225	.1070

NO.122-A

BETWEEN TUBING & HOLE**Tubing Size
O.D. 1.900"

THREE STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
79.7030	.0704	14.1957	4 ⁷ / ₈
72.7501	.0772	12.9573	5
66.7773	.0841	11.8935	5 ¹ / ₈
61.5955	.0912	10.9706	5 ¹ / ₄
57.0609	.0984	10.1630	5 ³ / ₈
53.0626	.1058	9.4509	5 ¹ / ₂
49.5134	.1134	8.8187	5 ⁵ / ₈
46.3439	.1212	8.2542	5 ³ / ₄
43.4983	.1291	7.7474	5 ⁷ / ₈
40.9310	.1372	7.2901	6
38.6045	.1454	6.8758	6 ¹ / ₈
36.4879	.1539	6.4988	6 ¹ / ₄
34.5550	.1625	6.1545	6 ³ / ₈
32.7839	.1713	5.8391	6 ¹ / ₂
31.1560	.1802	5.5491	6 ⁵ / ₈
29.6554	.1893	5.2819	6 ³ / ₄
28.2685	.1986	5.0348	6 ⁷ / ₈
26.9833	.2081	4.8059	7
25.7898	.2177	4.5934	7 ¹ / ₈
24.6788	.2275	4.3955	7 ¹ / ₄
23.6426	.2375	4.2109	7 ³ / ₈
22.6743	.2476	4.0385	7 ¹ / ₂
21.7678	.2579	3.8770	7 ⁵ / ₈
20.9177	.2684	3.7256	7 ³ / ₄
20.1193	.2791	3.5834	7 ⁷ / ₈
19.3681	.2899	3.4496	8
18.6604	.3009	3.3236	8 ¹ / ₈
17.9928	.3120	3.2047	8 ¹ / ₄
17.3622	.3234	3.0923	8 ³ / ₈
16.7657	.3349	2.9861	8 ¹ / ₂
16.2009	.3466	2.8855	8 ⁵ / ₈
15.6654	.3584	2.7901	8 ³ / ₄
15.1573	.3704	2.6996	8 ⁷ / ₈
14.6745	.3826	2.6136	9
14.2154	.3950	2.5319	9 ¹ / ₈
13.7783	.4075	2.4540	9 ¹ / ₄
13.3620	.4202	2.3799	9 ³ / ₈
12.9649	.4331	2.3091	9 ¹ / ₂
12.5860	.4461	2.2417	9 ⁵ / ₈
12.2240	.4593	2.1772	9 ³ / ₄
11.8780	.4727	2.1156	9 ⁷ / ₈
11.5470	.4862	2.0566	10
11.2301	.5000	2.0002	10 ¹ / ₈
10.9265	.5138	1.9461	10 ¹ / ₄
10.6355	.5279	1.8943	10 ³ / ₈
10.3563	.5421	1.8445	10 ¹ / ₂
10.0883	.5565	1.7968	10 ⁵ / ₈
9.8309	.5711	1.7510	10 ³ / ₄
9.5835	.5859	1.7069	10 ⁷ / ₈
9.3456	.6008	1.6645	11

**Note: No allowance made for couplings.

Tubing Size
O.D. 1.900"

TABLE

FOUR STRINGS

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
5 ¹ / ₂	.6450	1.5503	.0154
5 ⁵ / ₈	.7018	1.4249	.0167
5 ³ / ₄	.7598	1.3161	.0181
5 ⁷ / ₈	.8191	1.2209	.0195
6	.8796	1.1368	.0209
6 ¹ / ₈	.9415	1.0622	.0224
6 ¹ / ₄	1.0046	.9954	.0239
6 ³ / ₈	1.0690	.9355	.0255
6 ¹ / ₂	1.1346	.8813	.0270
6 ⁵ / ₈	1.2016	.8322	.0286
6 ³ / ₄	1.2698	.7875	.0302
6 ⁷ / ₈	1.3393	.7467	.0319
7	1.4100	.7092	.0336
7 ¹ / ₈	1.4821	.6747	.0353
7 ¹ / ₄	1.5554	.6429	.0370
7 ³ / ₈	1.6300	.6135	.0388
7 ¹ / ₂	1.7058	.5862	.0406
7 ⁵ / ₈	1.7830	.5609	.0425
7 ³ / ₄	1.8614	.5372	.0443
7 ⁷ / ₈	1.9411	.5152	.0462
8	2.0220	.4945	.0481
8 ¹ / ₈	2.1043	.4752	.0501
8 ¹ / ₄	2.1878	.4571	.0521
8 ³ / ₈	2.2726	.4400	.0541
8 ¹ / ₂	2.3586	.4240	.0562
8 ⁵ / ₈	2.4460	.4088	.0582
8 ³ / ₄	2.5346	.3945	.0603
8 ⁷ / ₈	2.6245	.3810	.0625
9	2.7156	.3682	.0647
9 ¹ / ₈	2.8081	.3561	.0669
9 ¹ / ₄	2.9018	.3446	.0691
9 ³ / ₈	2.9968	.3337	.0714
9 ¹ / ₂	3.0930	.3233	.0736
9 ⁵ / ₈	3.1906	.3134	.0760
9 ³ / ₄	3.2894	.3040	.0783
9 ⁷ / ₈	3.3895	.2950	.0807
10	3.4908	.2865	.0831
10 ¹ / ₈	3.5935	.2783	.0856
10 ¹ / ₄	3.6974	.2705	.0880
10 ³ / ₈	3.8026	.2630	.0905
10 ¹ / ₂	3.9090	.2558	.0931
10 ⁵ / ₈	4.0168	.2490	.0956
10 ³ / ₄	4.1258	.2424	.0982
10 ⁷ / ₈	4.2361	.2361	.1009
11	4.3476	.2300	.1035
11 ¹ / ₈	4.4605	.2242	.1062
11 ¹ / ₄	4.5746	.2186	.1089
11 ³ / ₈	4.6900	.2132	.1117
11 ¹ / ₂	4.8066	.2080	.1144
11 ⁵ / ₈	4.9246	.2031	.1173

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 1.900"

FOUR STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
65.1116	.0862	11.5969	5 ¹ / ₂
59.8475	.0938	10.6593	5 ⁵ / ₈
55.2780	.1016	9.8454	5 ³ / ₄
51.2768	.1095	9.1328	5 ¹ / ₈
47.7465	.1176	8.5040	6
44.6105	.1259	7.9455	6 ¹ / ₈
41.8079	.1343	7.4463	6 ¹ / ₄
39.2897	.1429	6.9978	6 ³ / ₈
37.0160	.1517	6.5928	6 ¹ / ₂
34.9539	.1606	6.2256	6 ⁵ / ₈
33.0762	.1697	5.8911	6 ³ / ₄
31.3601	.1790	5.5855	6 ⁷ / ₈
29.7863	.1885	5.3052	7
28.3385	.1981	5.0473	7 ¹ / ₈
27.0028	.2079	4.8094	7 ¹ / ₄
25.7672	.2179	4.5893	7 ³ / ₈
24.6212	.2280	4.3852	7 ¹ / ₂
23.5561	.2383	4.1955	7 ⁵ / ₈
22.5637	.2488	4.0188	7 ³ / ₄
21.6374	.2595	3.8538	7 ⁷ / ₈
20.7711	.2703	3.6995	8
19.9593	.2813	3.5549	8 ¹ / ₈
19.1974	.2925	3.4192	8 ¹ / ₄
18.4812	.3038	3.2916	8 ³ / ₈
17.8069	.3153	3.1715	8 ¹ / ₂
17.1710	.3270	3.0583	8 ⁵ / ₈
16.5707	.3388	2.9514	8 ³ / ₄
16.0032	.3508	2.8503	8 ⁷ / ₈
15.4660	.3630	2.7546	9
14.9568	.3754	2.6639	9 ¹ / ₈
14.4738	.3879	2.5779	9 ¹ / ₄
14.0151	.4006	2.4962	9 ³ / ₈
13.5789	.4135	2.4185	9 ¹ / ₂
13.1638	.4265	2.3446	9 ⁵ / ₈
12.7683	.4397	2.2741	9 ³ / ₄
12.3913	.4531	2.2070	9 ⁷ / ₈
12.0315	.4667	2.1429	10
11.6878	.4804	2.0817	10 ¹ / ₈
11.3594	.4943	2.0232	10 ¹ / ₄
11.0451	.5083	1.9672	10 ³ / ₈
10.7443	.5226	1.9136	10 ¹ / ₂
10.4561	.5370	1.8623	10 ⁵ / ₈
10.1799	.5515	1.8131	10 ³ / ₄
9.9148	.5663	1.7659	10 ⁷ / ₈
9.6604	.5812	1.7206	11
9.4160	.5963	1.6771	11 ¹ / ₈
9.1812	.6115	1.6352	11 ¹ / ₄
8.9553	.6270	1.5950	11 ³ / ₈
8.7379	.6426	1.5563	11 ¹ / ₂
8.5287	.6583	1.5190	11 ⁵ / ₈

**Note: No allowance made for couplings.

Tubing Size
O.D. 2.063"

TABLE

ONE STRING

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
2 ¹ / ₂	.0814	12.2912	.0019
2 ⁵ / ₈	.1075	9.3026	.0026
2 ³ / ₄	.1349	7.4124	.0032
2 ⁷ / ₈	.1636	6.1126	.0039
3	.1936	5.1664	.0046
3 ¹ / ₈	.2248	4.4485	.0054
3 ¹ / ₄	.2573	3.8864	.0061
3 ³ / ₈	.2911	3.4353	.0069
3 ¹ / ₂	.3262	3.0660	.0078
3 ⁵ / ₈	.3625	2.7587	.0086
3 ³ / ₄	.4001	2.4993	.0095
3 ⁷ / ₈	.4390	2.2779	.0105
4	.4792	2.0870	.0114
4 ¹ / ₈	.5206	1.9209	.0124
4 ¹ / ₄	.5633	1.7752	.0134
4 ³ / ₈	.6073	1.6466	.0145
4 ¹ / ₂	.6526	1.5324	.0155
4 ⁵ / ₈	.6991	1.4304	.0166
4 ³ / ₄	.7469	1.3389	.0178
4 ⁷ / ₈	.7960	1.2563	.0190
5	.8464	1.1815	.0202
5 ¹ / ₈	.8980	1.1136	.0214
5 ¹ / ₄	.9509	1.0516	.0226
5 ³ / ₈	1.0051	.9949	.0239
5 ¹ / ₂	1.0606	.9429	.0253
5 ⁵ / ₈	1.1173	.8950	.0266
5 ³ / ₄	1.1753	.8508	.0280
5 ⁷ / ₈	1.2346	.8100	.0294
6	1.2952	.7721	.0308
6 ¹ / ₈	1.3570	.7369	.0323
6 ¹ / ₄	1.4201	.7042	.0338
6 ³ / ₈	1.4845	.6736	.0353
6 ¹ / ₂	1.5502	.6451	.0369
6 ⁵ / ₈	1.6171	.6184	.0385
6 ³ / ₄	1.6853	.5934	.0401
6 ⁷ / ₈	1.7548	.5699	.0418
7	1.8256	.5478	.0435
7 ¹ / ₈	1.8976	.5270	.0452
7 ¹ / ₄	1.9709	.5074	.0469
7 ³ / ₈	2.0455	.4889	.0487
7 ¹ / ₂	2.1214	.4714	.0505
7 ⁵ / ₈	2.1985	.4549	.0523
7 ³ / ₄	2.2769	.4392	.0542
7 ⁷ / ₈	2.3566	.4243	.0561
8	2.4376	.4102	.0580
8 ¹ / ₈	2.5198	.3969	.0600
8 ¹ / ₄	2.6033	.3841	.0620
8 ³ / ₈	2.6881	.3720	.0640
8 ¹ / ₂	2.7742	.3605	.0661
8 ⁵ / ₈	2.8615	.3495	.0681

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 2.063"

ONE STRING

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
516.2300	.0109	91.9445	2 ¹ / ₂
390.7103	.0144	69.5885	2 ⁵ / ₈
311.3211	.0180	55.4487	2 ³ / ₄
256.7294	.0219	45.7255	2 ⁷ / ₈
216.9883	.0259	38.6473	3
186.8359	.0301	33.2769	3 ¹ / ₈
163.2281	.0344	29.0722	3 ¹ / ₄
144.2823	.0389	25.6978	3 ³ / ₈
128.7717	.0436	22.9352	3 ¹ / ₂
115.8634	.0485	20.6361	3 ⁵ / ₈
104.9716	.0535	18.6962	3 ³ / ₄
95.6729	.0587	17.0401	3 ⁷ / ₈
87.6537	.0641	15.6118	4
80.6768	.0696	14.3692	4 ¹ / ₈
74.5596	.0753	13.2796	4 ¹ / ₄
69.1591	.0812	12.3178	4 ³ / ₈
64.3621	.0872	11.4634	4 ¹ / ₂
60.0777	.0935	10.7003	4 ⁵ / ₈
56.2319	.0998	10.0153	4 ³ / ₄
52.7642	.1064	9.3977	4 ⁷ / ₈
49.6244	.1131	8.8385	5
46.7709	.1200	8.3302	5 ¹ / ₈
44.1684	.1271	7.8667	5 ¹ / ₄
41.7871	.1344	7.4426	5 ³ / ₈
39.6018	.1418	7.0534	5 ¹ / ₂
37.5908	.1494	6.6952	5 ⁵ / ₈
35.7354	.1571	6.3647	5 ³ / ₄
34.0193	.1650	6.0591	5 ⁷ / ₈
32.4285	.1731	5.7758	6
30.9508	.1814	5.5126	6 ¹ / ₈
29.5753	.1898	5.2676	6 ¹ / ₄
28.2925	.1984	5.0391	6 ³ / ₈
27.0941	.2072	4.8257	6 ¹ / ₂
25.9725	.2162	4.6259	6 ⁵ / ₈
24.9213	.2253	4.4387	6 ³ / ₄
23.9345	.2346	4.2629	6 ⁷ / ₈
23.0067	.2440	4.0977	7
22.1333	.2537	3.9421	7 ¹ / ₈
21.3100	.2635	3.7955	7 ¹ / ₄
20.5330	.2734	3.6571	7 ³ / ₈
19.7987	.2836	3.5263	7 ¹ / ₂
19.1040	.2939	3.4026	7 ⁵ / ₈
18.4461	.3044	3.2854	7 ³ / ₄
17.8224	.3150	3.1743	7 ⁷ / ₈
17.2304	.3259	3.0689	8
16.6681	.3368	2.9687	8 ¹ / ₈
16.1333	.3480	2.8735	8 ¹ / ₄
15.6245	.3593	2.7828	8 ³ / ₈
15.1398	.3709	2.6965	8 ¹ / ₂
14.6777	.3825	2.6142	8 ⁵ / ₈

**Note: No allowance made for couplings.

Tubing Size
O.D. 2.063"
TABLE
TWO STRINGS
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
4 ⁷ / ₈	.6224	1.6068	.0148
5	.6727	1.4865	.0160
5 ¹ / ₈	.7244	1.3805	.0172
5 ¹ / ₄	.7773	1.2866	.0185
5 ³ / ₈	.8315	1.2027	.0198
5 ¹ / ₂	.8869	1.1275	.0211
5 ⁵ / ₈	.9436	1.0597	.0225
5 ³ / ₄	1.0017	.9983	.0238
5 ⁷ / ₈	1.0609	.9426	.0253
6	1.1215	.8917	.0267
6 ¹ / ₈	1.1833	.8451	.0282
6 ¹ / ₄	1.2465	.8023	.0297
6 ³ / ₈	1.3108	.7629	.0312
6 ¹ / ₂	1.3765	.7265	.0328
6 ⁵ / ₈	1.4434	.6928	.0344
6 ³ / ₄	1.5117	.6615	.0360
6 ⁷ / ₈	1.5811	.6325	.0376
7	1.6519	.6054	.0393
7 ¹ / ₈	1.7239	.5801	.0410
7 ¹ / ₄	1.7973	.5564	.0428
7 ³ / ₈	1.8718	.5342	.0446
7 ¹ / ₂	1.9477	.5134	.0464
7 ⁵ / ₈	2.0248	.4939	.0482
7 ³ / ₄	2.1033	.4755	.0501
7 ⁷ / ₈	2.1829	.4581	.0520
8	2.2639	.4417	.0539
8 ¹ / ₈	2.3461	.4262	.0559
8 ¹ / ₄	2.4297	.4116	.0578
8 ³ / ₈	2.5144	.3977	.0599
8 ¹ / ₂	2.6005	.3845	.0619
8 ⁵ / ₈	2.6878	.3720	.0640
8 ³ / ₄	2.7765	.3602	.0661
8 ⁷ / ₈	2.8663	.3489	.0682
9	2.9575	.3381	.0704
9 ¹ / ₈	3.0499	.3279	.0726
9 ¹ / ₄	3.1437	.3181	.0748
9 ³ / ₈	3.2386	.3088	.0771
9 ¹ / ₂	3.3349	.2999	.0794
9 ⁵ / ₈	3.4324	.2913	.0817
9 ³ / ₄	3.5313	.2832	.0841
9 ⁷ / ₈	3.6313	.2754	.0865
10	3.7327	.2679	.0889
10 ¹ / ₈	3.8353	.2607	.0913
10 ¹ / ₄	3.9393	.2539	.0938
10 ³ / ₈	4.0444	.2473	.0963
10 ¹ / ₂	4.1509	.2409	.0988
10 ⁵ / ₈	4.2586	.2348	.1014
10 ³ / ₄	4.3677	.2290	.1040
10 ⁷ / ₈	4.4779	.2233	.1066
11	4.5895	.2179	.1093

NO.122-A

BETWEEN TUBING & HOLE**
Tubing Size
O.D. 2.063"
TWO STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
67.4861	.0832	12.0198	4 ⁷ / ₈
62.4338	.0899	11.1199	5
57.9830	.0968	10.3272	5 ¹ / ₈
54.0358	.1039	9.6242	5 ¹ / ₄
50.5142	.1111	8.9970	5 ³ / ₈
47.3553	.1186	8.4343	5 ¹ / ₂
44.5080	.1261	7.9272	5 ⁵ / ₈
41.9303	.1339	7.4681	5 ³ / ₄
39.5872	.1418	7.0508	5 ⁷ / ₈
37.4494	.1499	6.6700	6
35.4925	.1582	6.3215	6 ¹ / ₈
33.6954	.1666	6.0014	6 ¹ / ₄
32.0403	.1752	5.7066	6 ³ / ₈
30.5119	.1840	5.4344	6 ¹ / ₂
29.0970	.1930	5.1824	6 ⁵ / ₈
27.7840	.2021	4.9485	6 ³ / ₄
26.5630	.2114	4.7311	6 ⁷ / ₈
25.4251	.2208	4.5284	7
24.3627	.2305	4.3392	7 ¹ / ₈
23.3689	.2403	4.1622	7 ¹ / ₄
22.4377	.2502	3.9963	7 ³ / ₈
21.5638	.2604	3.8407	7 ¹ / ₂
20.7423	.2707	3.6944	7 ⁵ / ₈
19.9690	.2812	3.5566	7 ³ / ₄
19.2400	.2918	3.4268	7 ⁷ / ₈
18.5520	.3026	3.3042	8
17.9017	.3136	3.1884	8 ¹ / ₈
17.2864	.3248	3.0788	8 ¹ / ₄
16.7035	.3361	2.9750	8 ³ / ₈
16.1507	.3476	2.8766	8 ¹ / ₂
15.6259	.3593	2.7831	8 ⁵ / ₈
15.1272	.3712	2.6943	8 ³ / ₄
14.6528	.3832	2.6098	8 ⁷ / ₈
14.2011	.3954	2.5293	9
13.7707	.4077	2.4527	9 ¹ / ₈
13.3602	.4202	2.3796	9 ¹ / ₄
12.9684	.4329	2.3098	9 ³ / ₈
12.5941	.4458	2.2431	9 ¹ / ₂
12.2362	.4589	2.1794	9 ⁵ / ₈
11.8938	.4721	2.1184	9 ³ / ₄
11.5660	.4854	2.0600	9 ⁷ / ₈
11.2519	.4990	2.0040	10
10.9508	.5127	1.9504	10 ¹ / ₈
10.6619	.5266	1.8990	10 ¹ / ₄
10.3846	.5407	1.8496	10 ³ / ₈
10.1183	.5549	1.8021	10 ¹ / ₂
9.8623	.5693	1.7566	10 ⁵ / ₈
9.6161	.5839	1.7127	10 ³ / ₄
9.3793	.5986	1.6705	10 ⁷ / ₈
9.1513	.6135	1.6299	11

**Note: No allowance made for couplings.

Tubing Size
O.D. 2.063"

TABLE

THREE STRINGS

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
5 ¹ / ₄	.6036	1.6567	.0144
5 ³ / ₈	.6578	1.5202	.0157
5 ¹ / ₂	.7133	1.4020	.0170
5 ⁵ / ₈	.7700	1.2987	.0183
5 ³ / ₄	.8280	1.2077	.0197
5 ⁷ / ₈	.8873	1.1270	.0211
6	.9479	1.0550	.0226
6 ¹ / ₈	1.0097	.9904	.0240
6 ¹ / ₄	1.0728	.9321	.0255
6 ³ / ₈	1.1372	.8793	.0271
6 ¹ / ₂	1.2029	.8313	.0286
6 ⁵ / ₈	1.2698	.7875	.0302
6 ³ / ₄	1.3380	.7474	.0319
6 ⁷ / ₈	1.4075	.7105	.0335
7	1.4783	.6765	.0352
7 ¹ / ₈	1.5503	.6450	.0369
7 ¹ / ₄	1.6236	.6159	.0387
7 ³ / ₈	1.6982	.5889	.0404
7 ¹ / ₂	1.7741	.5637	.0422
7 ⁵ / ₈	1.8512	.5402	.0441
7 ³ / ₄	1.9296	.5182	.0459
7 ⁷ / ₈	2.0093	.4977	.0478
8	2.0903	.4784	.0498
8 ¹ / ₈	2.1725	.4603	.0517
8 ¹ / ₄	2.2560	.4433	.0537
8 ³ / ₈	2.3408	.4272	.0557
8 ¹ / ₂	2.4269	.4121	.0578
8 ⁵ / ₈	2.5142	.3977	.0599
8 ³ / ₄	2.6028	.3842	.0620
8 ⁷ / ₈	2.6927	.3714	.0641
9	2.7839	.3592	.0663
9 ¹ / ₈	2.8763	.3477	.0685
9 ¹ / ₄	2.9700	.3367	.0707
9 ³ / ₈	3.0650	.3263	.0730
9 ¹ / ₂	3.1613	.3163	.0753
9 ⁵ / ₈	3.2588	.3069	.0776
9 ³ / ₄	3.3576	.2978	.0799
9 ⁷ / ₈	3.4577	.2892	.0823
10	3.5591	.2810	.0847
10 ¹ / ₈	3.6617	.2731	.0872
10 ¹ / ₄	3.7656	.2656	.0897
10 ³ / ₈	3.8708	.2583	.0922
10 ¹ / ₂	3.9773	.2514	.0947
10 ⁵ / ₈	4.0850	.2448	.0973
10 ³ / ₄	4.1940	.2384	.0999
10 ⁷ / ₈	4.3043	.2323	.1025
11	4.4159	.2265	.1051
11 ¹ / ₈	4.5287	.2208	.1078
11 ¹ / ₄	4.6428	.2154	.1105
11 ³ / ₈	4.7582	.2102	.1133

NO.122-A

BETWEEN TUBING & HOLE**Tubing Size
O.D. 2.063"

THREE STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
69.5804	.0807	12.3928	5 ¹ / ₄
63.8487	.0879	11.3719	5 ³ / ₈
58.8839	.0954	10.4877	5 ¹ / ₂
54.5451	.1029	9.7149	5 ⁵ / ₈
50.7236	.1107	9.0343	5 ³ / ₄
47.3344	.1186	8.4306	5 ⁷ / ₈
44.3100	.1267	7.8919	6
41.5963	.1350	7.4086	6 ¹ / ₈
39.1493	.1434	6.9728	6 ¹ / ₄
36.9327	.1520	6.5780	6 ³ / ₈
34.9166	.1608	6.2189	6 ¹ / ₂
33.0760	.1697	5.8911	6 ⁵ / ₈
31.3898	.1789	5.5908	6 ³ / ₄
29.8401	.1882	5.3147	6 ⁷ / ₈
28.4117	.1976	5.0603	7
27.0915	.2072	4.8252	7 ¹ / ₈
25.8682	.2170	4.6073	7 ¹ / ₄
24.7320	.2270	4.4050	7 ³ / ₈
23.6744	.2372	4.2166	7 ¹ / ₂
22.6880	.2475	4.0409	7 ⁵ / ₈
21.7660	.2580	3.8767	7 ³ / ₄
20.9028	.2686	3.7229	7 ⁷ / ₈
20.0932	.2794	3.5787	8
19.3326	.2904	3.4433	8 ¹ / ₈
18.6169	.3016	3.3158	8 ¹ / ₄
17.9426	.3129	3.1957	8 ³ / ₈
17.3063	.3244	3.0824	8 ¹ / ₂
16.7051	.3361	2.9753	8 ⁵ / ₈
16.1364	.3479	2.8740	8 ³ / ₄
15.5977	.3600	2.7781	8 ⁷ / ₈
15.0870	.3721	2.6871	9
14.6021	.3845	2.6007	9 ¹ / ₈
14.1414	.3970	2.5187	9 ¹ / ₄
13.7031	.4097	2.4406	9 ³ / ₈
13.2858	.4226	2.3663	9 ¹ / ₂
12.8882	.4356	2.2955	9 ⁵ / ₈
12.5089	.4488	2.2279	9 ³ / ₄
12.1468	.4622	2.1634	9 ⁷ / ₈
11.8009	.4758	2.1018	10
11.4701	.4895	2.0429	10 ¹ / ₈
11.1536	.5034	1.9865	10 ¹ / ₄
10.8505	.5175	1.9326	10 ³ / ₈
10.5600	.5317	1.8808	10 ¹ / ₂
10.2815	.5461	1.8312	10 ⁵ / ₈
10.0143	.5607	1.7836	10 ³ / ₄
9.7577	.5754	1.7379	10 ⁷ / ₈
9.5112	.5903	1.6940	11
9.2742	.6054	1.6518	11 ¹ / ₈
9.0462	.6207	1.6112	11 ¹ / ₄
8.8269	.6361	1.5721	11 ³ / ₈

**Note: No allowance made for couplings.

Tubing Size
O.D. 2.063"

FOUR STRINGS

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
5 ³ / ₄	.6544	1.5282	.0156
5 ⁷ / ₈	.7137	1.4012	.0170
6	.7742	1.2916	.0184
6 ¹ / ₈	.8361	1.1961	.0199
6 ¹ / ₄	.8992	1.1121	.0214
6 ³ / ₈	.9636	1.0378	.0229
6 ¹ / ₂	1.0292	.9716	.0245
6 ⁵ / ₈	1.0962	.9123	.0261
6 ³ / ₄	1.1644	.8588	.0277
6 ⁷ / ₈	1.2339	.8105	.0294
7	1.3046	.7665	.0311
7 ¹ / ₈	1.3767	.7264	.0328
7 ¹ / ₄	1.4500	.6897	.0345
7 ³ / ₈	1.5246	.6559	.0363
7 ¹ / ₂	1.6004	.6248	.0381
7 ⁵ / ₈	1.6776	.5961	.0399
7 ³ / ₄	1.7560	.5695	.0418
7 ⁷ / ₈	1.8357	.5448	.0437
8	1.9166	.5218	.0456
8 ¹ / ₈	1.9989	.5003	.0476
8 ¹ / ₄	2.0824	.4802	.0496
8 ³ / ₈	2.1672	.4614	.0516
8 ¹ / ₂	2.2532	.4438	.0536
8 ⁵ / ₈	2.3406	.4272	.0557
8 ³ / ₄	2.4292	.4117	.0578
8 ⁷ / ₈	2.5191	.3970	.0600
9	2.6102	.3831	.0621
9 ¹ / ₈	2.7027	.3700	.0643
9 ¹ / ₄	2.7964	.3576	.0666
9 ³ / ₈	2.8914	.3459	.0688
9 ¹ / ₂	2.9876	.3347	.0711
9 ⁵ / ₈	3.0852	.3241	.0735
9 ³ / ₄	3.1840	.3141	.0758
9 ⁷ / ₈	3.2841	.3045	.0782
10	3.3854	.2954	.0806
10 ¹ / ₈	3.4881	.2867	.0830
10 ¹ / ₄	3.5920	.2784	.0855
10 ³ / ₈	3.6972	.2705	.0880
10 ¹ / ₂	3.8036	.2629	.0906
10 ⁵ / ₈	3.9114	.2557	.0931
10 ³ / ₄	4.0204	.2487	.0957
10 ⁷ / ₈	4.1307	.2421	.0983
11	4.2422	.2357	.1010
11 ¹ / ₈	4.3551	.2296	.1037
11 ¹ / ₄	4.4692	.2238	.1064
11 ³ / ₈	4.5846	.2181	.1092
11 ¹ / ₂	4.7012	.2127	.1119
11 ⁵ / ₈	4.8192	.2075	.1147
11 ³ / ₄	4.9384	.2025	.1176
11 ⁷ / ₈	5.0589	.1977	.1204

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 2.063"

FOUR STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
64.1834	.0875	11.4316	5 ³ / ₄
58.8514	.0954	10.4819	5 ⁷ / ₈
54.2479	.1035	9.6620	6
50.2355	.1118	8.9473	6 ¹ / ₈
46.7096	.1202	8.3193	6 ¹ / ₄
43.5883	.1288	7.7634	6 ³ / ₈
40.8075	.1376	7.2681	6 ¹ / ₂
38.3155	.1465	6.8243	6 ⁵ / ₈
36.0709	.1557	6.4245	6 ³ / ₄
34.0395	.1649	6.0627	6 ⁷ / ₈
32.1932	.1744	5.7339	7
30.5086	.1840	5.4338	7 ¹ / ₈
28.9661	.1938	5.1591	7 ¹ / ₄
27.5489	.2038	4.9067	7 ³ / ₈
26.2431	.2139	4.6741	7 ¹ / ₂
25.0364	.2243	4.4592	7 ⁵ / ₈
23.9184	.2347	4.2600	7 ³ / ₄
22.8801	.2454	4.0751	7 ⁷ / ₈
21.9136	.2562	3.9030	8
21.0120	.2672	3.7424	8 ¹ / ₈
20.1693	.2784	3.5923	8 ¹ / ₄
19.3802	.2897	3.4518	8 ³ / ₈
18.6400	.3012	3.3199	8 ¹ / ₂
17.9444	.3129	3.1960	8 ⁵ / ₈
17.2899	.3247	3.0795	8 ³ / ₄
16.6729	.3367	2.9696	8 ⁷ / ₈
16.0906	.3489	2.8659	9
15.5403	.3613	2.7678	9 ¹ / ₈
15.0195	.3738	2.6751	9 ¹ / ₄
14.5261	.3865	2.5872	9 ³ / ₈
14.0580	.3994	2.5038	9 ¹ / ₂
13.6136	.4124	2.4247	9 ⁵ / ₈
13.1911	.4256	2.3494	9 ³ / ₄
12.7891	.4390	2.2778	9 ⁷ / ₈
12.4061	.4526	2.2096	10
12.0411	.4663	2.1446	10 ¹ / ₈
11.6928	.4802	2.0826	10 ¹ / ₄
11.3601	.4942	2.0233	10 ³ / ₈
11.0421	.5085	1.9667	10 ¹ / ₂
10.7380	.5229	1.9125	10 ⁵ / ₈
10.4468	.5374	1.8607	10 ³ / ₄
10.1679	.5522	1.8110	10 ⁷ / ₈
9.9005	.5671	1.7634	11
9.6440	.5822	1.7177	11 ¹ / ₈
9.3977	.5974	1.6738	11 ¹ / ₄
9.1612	.6129	1.6317	11 ³ / ₈
8.9339	.6285	1.5912	11 ¹ / ₂
8.7152	.6442	1.5522	11 ⁵ / ₈
8.5048	.6602	1.5148	11 ³ / ₄
8.3023	.6763	1.4787	11 ⁷ / ₈

**Note: No allowance made for couplings.

Tubing Size
O.D. 2.375"

TABLE

ONE STRING

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
3 ¹ / ₂	.2697	3.7083	.0064
3 ⁵ / ₈	.3060	3.2680	.0073
3 ³ / ₄	.3436	2.9103	.0082
3 ⁷ / ₈	.3825	2.6144	.0091
4	.4227	2.3660	.0101
4 ¹ / ₈	.4641	2.1547	.0110
4 ¹ / ₄	.5068	1.9731	.0121
4 ³ / ₈	.5508	1.8155	.0131
4 ¹ / ₂	.5961	1.6777	.0142
4 ⁵ / ₈	.6426	1.5562	.0153
4 ³ / ₄	.6904	1.4484	.0164
4 ⁷ / ₈	.7395	1.3523	.0176
5	.7899	1.2660	.0188
5 ¹ / ₈	.8415	1.1884	.0200
5 ¹ / ₄	.8944	1.1181	.0213
5 ³ / ₈	.9486	1.0542	.0226
5 ¹ / ₂	1.0041	.9960	.0239
5 ⁵ / ₈	1.0608	.9427	.0253
5 ³ / ₄	1.1188	.8938	.0266
5 ⁷ / ₈	1.1781	.8488	.0280
6	1.2387	.8073	.0295
6 ¹ / ₈	1.3005	.7689	.0310
6 ¹ / ₄	1.3636	.7333	.0325
6 ³ / ₈	1.4280	.7003	.0340
6 ¹ / ₂	1.4937	.6695	.0356
6 ⁵ / ₈	1.5606	.6408	.0372
6 ³ / ₄	1.6288	.6139	.0388
6 ⁷ / ₈	1.6983	.5888	.0404
7	1.7691	.5653	.0421
7 ¹ / ₈	1.8411	.5432	.0438
7 ¹ / ₄	1.9144	.5224	.0456
7 ³ / ₈	1.9890	.5028	.0474
7 ¹ / ₂	2.0649	.4843	.0492
7 ⁵ / ₈	2.1420	.4669	.0510
7 ³ / ₄	2.2204	.4504	.0529
7 ⁷ / ₈	2.3001	.4348	.0548
8	2.3811	.4200	.0567
8 ¹ / ₈	2.4633	.4060	.0586
8 ¹ / ₄	2.5468	.3926	.0606
8 ³ / ₈	2.6316	.3800	.0627
8 ¹ / ₂	2.7177	.3680	.0647
8 ⁵ / ₈	2.8050	.3565	.0668
8 ³ / ₄	2.8936	.3456	.0689
8 ⁷ / ₈	2.9835	.3352	.0710
9	3.0747	.3252	.0732
9 ¹ / ₈	3.1671	.3157	.0754
9 ¹ / ₄	3.2608	.3067	.0776
9 ³ / ₈	3.3558	.2980	.0799
9 ¹ / ₂	3.4521	.2897	.0822

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 2.375"

ONE STRING

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
155.7506	.0360	27.7404	3 ¹ / ₂
137.2552	.0409	24.4462	3 ⁵ / ₈
122.2310	.0459	21.7703	3 ³ / ₄
109.8042	.0511	19.5570	3 ⁷ / ₈
99.3703	.0565	17.6986	4
90.4979	.0620	16.1184	4 ¹ / ₈
82.8711	.0678	14.7600	4 ¹ / ₄
76.2529	.0736	13.5812	4 ³ / ₈
70.4626	.0797	12.5499	4 ¹ / ₂
65.3596	.0859	11.6410	4 ⁵ / ₈
60.8333	.0923	10.8349	4 ³ / ₄
56.7953	.0989	10.1157	4 ⁷ / ₈
53.1739	.1056	9.4707	5
49.9110	.1125	8.8895	5 ¹ / ₈
46.9583	.1196	8.3636	5 ¹ / ₄
44.2759	.1268	7.8859	5 ³ / ₈
41.8302	.1342	7.4503	5 ¹ / ₂
39.5929	.1418	7.0518	5 ⁵ / ₈
37.5399	.1496	6.6861	5 ³ / ₄
35.6507	.1575	6.3497	5 ⁷ / ₈
33.9076	.1656	6.0392	6
32.2953	.1739	5.7520	6 ¹ / ₈
30.8006	.1823	5.4858	6 ¹ / ₄
29.4118	.1909	5.2385	6 ³ / ₈
28.1189	.1997	5.0082	6 ¹ / ₂
26.9128	.2086	4.7934	6 ⁵ / ₈
25.7857	.2177	4.5926	6 ³ / ₄
24.7307	.2270	4.4047	6 ⁷ / ₈
23.7414	.2365	4.2285	7
22.8125	.2461	4.0631	7 ¹ / ₈
21.9389	.2559	3.9075	7 ¹ / ₄
21.1162	.2659	3.7610	7 ³ / ₈
20.3404	.2760	3.6228	7 ¹ / ₂
19.6079	.2863	3.4923	7 ⁵ / ₈
18.9154	.2968	3.3690	7 ³ / ₄
18.2601	.3075	3.2523	7 ⁷ / ₈
17.6392	.3183	3.1417	8
17.0503	.3293	3.0368	8 ¹ / ₈
16.4912	.3405	2.9372	8 ¹ / ₄
15.9599	.3518	2.8426	8 ³ / ₈
15.4545	.3633	2.7526	8 ¹ / ₂
14.9733	.3750	2.6669	8 ⁵ / ₈
14.5148	.3868	2.5852	8 ³ / ₄
14.0775	.3988	2.5073	8 ⁷ / ₈
13.6601	.4110	2.4330	9
13.2614	.4234	2.3620	9 ¹ / ₈
12.8803	.4359	2.2941	9 ¹ / ₄
12.5157	.4486	2.2291	9 ³ / ₈
12.1667	.4615	2.1670	9 ¹ / ₂

**Note: No allowance made for couplings.

Tubing Size
O.D. 2.375"
TABLE
TWO STRINGS
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
5 ¹ / ₂	.7739	1.2921	.0184
5 ⁵ / ₈	.8307	1.2039	.0198
5 ³ / ₄	.8887	1.1253	.0212
5 ⁷ / ₈	.9480	1.0549	.0226
6	1.0085	.9915	.0240
6 ¹ / ₈	1.0704	.9343	.0255
6 ¹ / ₄	1.1335	.8822	.0270
6 ³ / ₈	1.1979	.8348	.0285
6 ¹ / ₂	1.2635	.7914	.0301
6 ⁵ / ₈	1.3305	.7516	.0317
6 ³ / ₄	1.3987	.7150	.0333
6 ⁷ / ₈	1.4682	.6811	.0350
7	1.5389	.6498	.0366
7 ¹ / ₈	1.6110	.6207	.0364
7 ¹ / ₄	1.6843	.5937	.0401
7 ³ / ₈	1.7589	.5686	.0419
7 ¹ / ₂	1.8347	.5450	.0437
7 ⁵ / ₈	1.9119	.5231	.0455
7 ³ / ₄	1.9903	.5024	.0474
7 ⁷ / ₈	2.0700	.4831	.0493
8	2.1509	.4649	.0512
8 ¹ / ₈	2.2332	.4478	.0532
8 ¹ / ₄	2.3167	.4317	.0552
8 ³ / ₈	2.4015	.4164	.0572
8 ¹ / ₂	2.4875	.4020	.0592
8 ⁵ / ₈	2.5749	.3884	.0613
8 ³ / ₄	2.6635	.3755	.0634
8 ⁷ / ₈	2.7534	.3632	.0656
9	2.8445	.3516	.0677
9 ¹ / ₈	2.9370	.3405	.0699
9 ¹ / ₄	3.0307	.3300	.0722
9 ³ / ₈	3.1257	.3199	.0744
9 ¹ / ₂	3.2219	.3104	.0767
9 ⁵ / ₈	3.3195	.3013	.0790
9 ³ / ₄	3.4183	.2925	.0814
9 ⁷ / ₈	3.5184	.2842	.0838
10	3.6197	.2763	.0862
10 ¹ / ₈	3.7224	.2686	.0886
10 ¹ / ₄	3.8263	.2614	.0911
10 ³ / ₈	3.9315	.2544	.0936
10 ¹ / ₂	4.0379	.2477	.0961
10 ⁵ / ₈	4.1457	.2412	.0987
10 ³ / ₄	4.2547	.2350	.1013
10 ⁷ / ₈	4.3650	.2291	.1039
11	4.4765	.2234	.1066
11 ¹ / ₈	4.5894	.2179	.1093
11 ¹ / ₄	4.7035	.2126	.1120
11 ³ / ₈	4.8189	.2075	.1147
11 ¹ / ₂	4.9355	.2026	.1175
11 ⁵ / ₈	5.0535	.1979	.1203

NO.122-A

BETWEEN TUBING & HOLE**
Tubing Size
O.D. 2.375"
TWO STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
54.2690	.1035	9.6657	5 ¹ / ₂
50.5622	.1110	9.0055	5 ⁵ / ₈
47.2615	.1188	8.4176	5 ³ / ₄
44.3057	.1267	7.8912	5 ⁷ / ₈
41.6451	.1348	7.4173	6
39.2391	.1431	6.9888	6 ¹ / ₈
37.0543	.1515	6.5996	6 ¹ / ₄
35.0625	.1601	6.2449	6 ³ / ₈
33.2404	.1689	5.9204	6 ¹ / ₂
31.5680	.1779	5.6225	6 ⁵ / ₈
30.0285	.1870	5.3483	6 ³ / ₄
28.6073	.1963	5.0952	6 ⁷ / ₈
27.2918	.2057	4.8609	7
26.0714	.2154	4.6435	7 ¹ / ₈
24.9366	.2252	4.4414	7 ¹ / ₄
23.8791	.2351	4.2531	7 ³ / ₈
22.8918	.2453	4.0772	7 ¹ / ₂
21.9682	.2556	3.9127	7 ⁵ / ₈
21.1027	.2661	3.7585	7 ³ / ₄
20.2903	.2767	3.6139	7 ⁷ / ₈
19.5265	.2875	3.4778	8
18.8075	.2985	3.3498	8 ¹ / ₈
18.1295	.3097	3.2290	8 ¹ / ₄
17.4894	.3210	3.1150	8 ³ / ₈
16.8843	.3325	3.0072	8 ¹ / ₂
16.3116	.3442	2.9052	8 ⁵ / ₈
15.7689	.3561	2.8086	8 ³ / ₄
15.2541	.3681	2.7169	8 ⁷ / ₈
14.7652	.3803	2.6298	9
14.3005	.3926	2.5470	9 ¹ / ₈
13.8583	.4051	2.4683	9 ¹ / ₄
13.4372	.4178	2.3933	9 ³ / ₈
13.0357	.4307	2.3218	9 ¹ / ₂
12.6527	.4437	2.2535	9 ⁵ / ₈
12.2869	.4570	2.1884	9 ³ / ₄
11.9374	.4703	2.1261	9 ⁷ / ₈
11.6031	.4839	2.0666	10
11.2832	.4976	2.0096	10 ¹ / ₈
10.9768	.5115	1.9550	10 ¹ / ₄
10.6831	.5256	1.9027	10 ³ / ₈
10.4014	.5398	1.8526	10 ¹ / ₂
10.1311	.5542	1.8044	10 ⁵ / ₈
9.8715	.5688	1.7582	10 ³ / ₄
9.6221	.5835	1.7138	10 ⁷ / ₈
9.3823	.5984	1.6711	11
9.1516	.6135	1.6300	11 ¹ / ₈
8.9296	.6288	1.5904	11 ¹ / ₄
8.7158	.6442	1.5523	11 ³ / ₈
8.5098	.6598	1.5157	11 ¹ / ₂
8.3112	.6755	1.4803	11 ⁵ / ₈

**Note: No allowance made for couplings.

Tubing Size
O.D. 2.375"

TABLE

THREE STRINGS

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
5 ⁷ / ₈	.7178	1.3931	.0171
6	.7784	1.2847	.0185
6 ¹ / ₈	.8402	1.1902	.0200
6 ¹ / ₄	.9033	1.1070	.0215
6 ³ / ₈	.9677	1.0334	.0230
6 ¹ / ₂	1.0334	.9677	.0246
6 ⁵ / ₈	1.1003	.9088	.0262
6 ³ / ₄	1.1685	.8558	.0278
6 ⁷ / ₈	1.2380	.8077	.0295
7	1.3088	.7641	.0312
7 ¹ / ₈	1.3808	.7242	.0329
7 ¹ / ₄	1.4541	.6877	.0346
7 ³ / ₈	1.5287	.6541	.0364
7 ¹ / ₂	1.6046	.6232	.0382
7 ⁵ / ₈	1.6817	.5946	.0400
7 ³ / ₄	1.7601	.5681	.0419
7 ⁷ / ₈	1.8398	.5435	.0438
8	1.9208	.5206	.0457
8 ¹ / ₈	2.0030	.4992	.0477
8 ¹ / ₄	2.0865	.4793	.0497
8 ³ / ₈	2.1713	.4605	.0517
8 ¹ / ₂	2.2574	.4430	.0537
8 ⁵ / ₈	2.3447	.4265	.0558
8 ³ / ₄	2.4333	.4110	.0579
8 ⁷ / ₈	2.5232	.3963	.0601
9	2.6144	.3825	.0622
9 ¹ / ₈	2.7068	.3694	.0644
9 ¹ / ₄	2.8005	.3571	.0667
9 ³ / ₈	2.8955	.3454	.0689
9 ¹ / ₂	2.9918	.3342	.0712
9 ⁵ / ₈	3.0893	.3237	.0736
9 ³ / ₄	3.1881	.3137	.0759
9 ⁷ / ₈	3.2882	.3041	.0783
10	3.3896	.2950	.0807
10 ¹ / ₈	3.4922	.2864	.0831
10 ¹ / ₄	3.5961	.2781	.0856
10 ³ / ₈	3.7013	.2702	.0881
10 ¹ / ₂	3.8078	.2626	.0907
10 ⁵ / ₈	3.9155	.2554	.0932
10 ³ / ₄	4.0245	.2485	.0958
10 ⁷ / ₈	4.1348	.2418	.0984
11	4.2464	.2355	.1011
11 ¹ / ₈	4.3592	.2294	.1038
11 ¹ / ₄	4.4733	.2235	.1065
11 ³ / ₈	4.5887	.2179	.1093
11 ¹ / ₂	4.7054	.2125	.1120
11 ⁵ / ₈	4.8233	.2073	.1148
11 ³ / ₄	4.9425	.2023	.1177
11 ⁷ / ₈	5.0630	.1975	.1205
12	5.1848	.1929	.1234

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 2.375"**THREE STRINGS**

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
58.5102	.0960	10.4211	5 ⁷ / ₈
53.9578	.1041	9.6103	6
49.9867	.1123	8.9030	6 ¹ / ₈
46.4944	.1208	8.2810	6 ¹ / ₄
43.4009	.1294	7.7300	6 ³ / ₈
40.6431	.1381	7.2389	6 ¹ / ₂
38.1706	.1471	6.7985	6 ⁵ / ₈
35.9424	.1562	6.4016	6 ³ / ₄
33.9251	.1655	6.0423	6 ⁷ / ₈
32.0908	.1750	5.7156	7
30.4167	.1846	5.4174	7 ¹ / ₈
28.8832	.1944	5.1443	7 ¹ / ₄
27.4739	.2044	4.8933	7 ³ / ₈
26.1750	.2145	4.6620	7 ¹ / ₂
24.9744	.2248	4.4481	7 ⁵ / ₈
23.8618	.2353	4.2500	7 ³ / ₄
22.8283	.2459	4.0659	7 ⁷ / ₈
21.8661	.2568	3.8945	8
20.9683	.2678	3.7346	8 ¹ / ₈
20.1291	.2789	3.5851	8 ¹ / ₄
19.3431	.2903	3.4451	8 ³ / ₈
18.6056	.3018	3.3138	8 ¹ / ₂
17.9126	.3134	3.1904	8 ⁵ / ₈
17.2603	.3253	3.0742	8 ³ / ₄
16.6454	.3373	2.9647	8 ⁷ / ₈
16.0650	.3495	2.8613	9
15.5164	.3618	2.7636	9 ¹ / ₈
14.9972	.3744	2.6711	9 ¹ / ₄
14.5052	.3871	2.5835	9 ³ / ₈
14.0385	.3999	2.5004	9 ¹ / ₂
13.5952	.4130	2.4214	9 ⁵ / ₈
13.1739	.4262	2.3464	9 ³ / ₄
12.7729	.4396	2.2749	9 ⁷ / ₈
12.3909	.4531	2.2069	10
12.0267	.4668	2.1421	10 ¹ / ₈
11.6792	.4807	2.0802	10 ¹ / ₄
11.3473	.4948	2.0210	10 ³ / ₈
11.0301	.5090	1.9645	10 ¹ / ₂
10.7266	.5234	1.9105	10 ⁵ / ₈
10.4360	.5380	1.8587	10 ³ / ₄
10.1576	.5527	1.8092	10 ⁷ / ₈
9.8908	.5677	1.7616	11
9.6348	.5827	1.7160	11 ¹ / ₈
9.3890	.5980	1.6722	11 ¹ / ₄
9.1529	.6134	1.6302	11 ³ / ₈
8.9260	.6290	1.5898	11 ¹ / ₂
8.7077	.6448	1.5509	11 ⁵ / ₈
8.4977	.6607	1.5135	11 ³ / ₄
8.2955	.6768	1.4775	11 ⁷ / ₈
8.1006	.6931	1.4428	12

**Note: No allowance made for couplings.

Tubing Size
O.D. 2.375"

TABLE

FOUR STRINGS

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
6 ¹ / ₂	.8032	1.2449	.0191
6 ⁵ / ₈	.8702	1.1492	.0207
6 ³ / ₄	.9384	1.0656	.0223
6 ⁷ / ₈	1.0079	.9922	.0240
7	1.0786	.9271	.0257
7 ¹ / ₈	1.1507	.8690	.0274
7 ¹ / ₄	1.2240	.8170	.0291
7 ³ / ₈	1.2986	.7701	.0309
7 ¹ / ₂	1.3744	.7276	.0327
7 ⁵ / ₈	1.4516	.6889	.0346
7 ³ / ₄	1.5300	.6536	.0364
7 ⁷ / ₈	1.6097	.6212	.0383
8	1.6906	.5915	.0403
8 ¹ / ₈	1.7729	.5641	.0422
8 ¹ / ₄	1.8564	.5387	.0442
8 ³ / ₈	1.9412	.5151	.0462
8 ¹ / ₂	2.0272	.4933	.0483
8 ⁵ / ₈	2.1146	.4729	.0503
8 ³ / ₄	2.2032	.4539	.0525
8 ⁷ / ₈	2.2931	.4361	.0546
9	2.3842	.4194	.0568
9 ¹ / ₈	2.4767	.4038	.0590
9 ¹ / ₄	2.5704	.3890	.0612
9 ³ / ₈	2.6654	.3752	.0635
9 ¹ / ₂	2.7616	.3621	.0658
9 ⁵ / ₈	2.8592	.3498	.0681
9 ³ / ₄	2.9580	.3381	.0704
9 ⁷ / ₈	3.0581	.3270	.0728
10	3.1594	.3165	.0752
10 ¹ / ₈	3.2621	.3066	.0777
10 ¹ / ₄	3.3660	.2971	.0801
10 ³ / ₈	3.4712	.2881	.0826
10 ¹ / ₂	3.5776	.2795	.0852
10 ⁵ / ₈	3.6854	.2713	.0877
10 ³ / ₄	3.7944	.2635	.0903
10 ⁷ / ₈	3.9047	.2561	.0930
11	4.0162	.2490	.0956
11 ¹ / ₈	4.1291	.2422	.0983
11 ¹ / ₄	4.2432	.2357	.1010
11 ³ / ₈	4.3586	.2294	.1038
11 ¹ / ₂	4.4752	.2235	.1066
11 ⁵ / ₈	4.5932	.2177	.1094
11 ³ / ₄	4.7124	.2122	.1122
11 ⁷ / ₈	4.8329	.2069	.1151
12	4.9546	.2018	.1180
12 ¹ / ₈	5.0777	.1969	.1209
12 ¹ / ₄	5.2020	.1922	.1239
12 ³ / ₈	5.3276	.1877	.1268
12 ¹ / ₂	5.4544	.1833	.1299
12 ⁵ / ₈	5.5826	.1791	.1329

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 2.375"

FOUR STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
52.2877	.1074	9.3128	6 ¹ / ₂
48.2656	.1163	8.5965	6 ⁵ / ₈
44.7571	.1254	7.9716	6 ³ / ₄
41.6714	.1347	7.4220	6 ⁷ / ₈
38.9377	.1442	6.9351	7
36.5000	.1538	6.5009	7 ¹ / ₈
34.3138	.1636	6.1116	7 ¹ / ₄
32.3429	.1736	5.7605	7 ³ / ₈
30.5578	.1837	5.4426	7 ¹ / ₂
28.9339	.1940	5.1533	7 ⁵ / ₈
27.4510	.2045	4.8892	7 ³ / ₄
26.0921	.2152	4.6472	7 ⁷ / ₈
24.8426	.2260	4.4247	8
23.6902	.2370	4.2194	8 ¹ / ₈
22.6245	.2482	4.0296	8 ¹ / ₄
21.6363	.2595	3.8536	8 ³ / ₈
20.7178	.2710	3.6900	8 ¹ / ₂
19.8621	.2827	3.5376	8 ⁵ / ₈
19.0632	.2945	3.3953	8 ³ / ₄
18.3160	.3065	3.2622	8 ⁷ / ₈
17.6156	.3187	3.1375	9
16.9582	.3311	3.0204	9 ¹ / ₈
16.3399	.3436	2.9103	9 ¹ / ₄
15.7576	.3563	2.8065	9 ³ / ₈
15.2083	.3692	2.7087	9 ¹ / ₂
14.6895	.3822	2.6163	9 ⁵ / ₈
14.1988	.3954	2.5289	9 ³ / ₄
13.7341	.4088	2.4461	9 ⁷ / ₈
13.2935	.4224	2.3677	10
12.8752	.4361	2.2932	10 ¹ / ₈
12.4777	.4500	2.2224	10 ¹ / ₄
12.0996	.4640	2.1550	10 ³ / ₈
11.7396	.4783	2.0909	10 ¹ / ₂
11.3964	.4927	2.0298	10 ⁵ / ₈
11.0690	.5072	1.9715	10 ³ / ₄
10.7563	.5220	1.9158	10 ⁷ / ₈
10.4575	.5369	1.8626	11
10.1718	.5520	1.8117	11 ¹ / ₈
9.8982	.5672	1.7629	11 ¹ / ₄
9.6362	.5827	1.7163	11 ³ / ₈
9.3850	.5983	1.6715	11 ¹ / ₂
9.1440	.6140	1.6286	11 ⁵ / ₈
8.9127	.6300	1.5874	11 ³ / ₄
8.6905	.6461	1.5478	11 ⁷ / ₈
8.4769	.6623	1.5098	12
8.2715	.6788	1.4732	12 ¹ / ₈
8.0738	.6954	1.4380	12 ¹ / ₄
7.8835	.7122	1.4041	12 ³ / ₈
7.7002	.7292	1.3715	12 ¹ / ₂
7.5234	.7463	1.3400	12 ⁵ / ₈

**Note: No allowance made for couplings.

Tubing Size
O.D. 2.875"

TABLE

ONE STRING

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
3 ¹ / ₂	.1626	6.1515	.0039
3 ⁵ / ₈	.1989	5.0277	.0047
3 ³ / ₄	.2365	4.2281	.0056
3 ⁷ / ₈	.2754	3.6311	.0066
4	.3156	3.1690	.0075
4 ¹ / ₈	.3570	2.8011	.0085
4 ¹ / ₄	.3997	2.5018	.0095
4 ³ / ₈	.4437	2.2538	.0106
4 ¹ / ₂	.4890	2.0452	.0116
4 ⁵ / ₈	.5355	1.8674	.0127
4 ³ / ₄	.5833	1.7144	.0139
4 ⁷ / ₈	.6324	1.5813	.0151
5	.6828	1.4646	.0163
5 ¹ / ₈	.7344	1.3617	.0175
5 ¹ / ₄	.7873	1.2701	.0187
5 ³ / ₈	.8415	1.1884	.0200
5 ¹ / ₂	.8970	1.1149	.0214
5 ⁵ / ₈	.9537	1.0486	.0227
5 ³ / ₄	1.0117	.9884	.0241
5 ⁷ / ₈	1.0710	.9337	.0255
6	1.1316	.8837	.0269
6 ¹ / ₈	1.1934	.8379	.0284
6 ¹ / ₄	1.2565	.7959	.0299
6 ³ / ₈	1.3209	.7571	.0314
6 ¹ / ₂	1.3866	.7212	.0330
6 ⁵ / ₈	1.4535	.6880	.0346
6 ³ / ₄	1.5217	.6572	.0362
6 ⁷ / ₈	1.5912	.6285	.0379
7	1.6620	.6017	.0396
7 ¹ / ₈	1.7340	.5767	.0413
7 ¹ / ₄	1.8073	.5533	.0430
7 ³ / ₈	1.8819	.5314	.0448
7 ¹ / ₂	1.9578	.5108	.0466
7 ⁵ / ₈	2.0349	.4914	.0484
7 ³ / ₄	2.1133	.4732	.0503
7 ⁷ / ₈	2.1930	.4560	.0522
8	2.2740	.4398	.0541
8 ¹ / ₈	2.3562	.4244	.0561
8 ¹ / ₄	2.4397	.4099	.0581
8 ³ / ₈	2.5245	.3961	.0601
8 ¹ / ₂	2.6106	.3831	.0622
8 ⁵ / ₈	2.6979	.3707	.0642
8 ³ / ₄	2.7865	.3589	.0663
8 ⁷ / ₈	2.8764	.3477	.0685
9	2.9676	.3370	.0707
9 ¹ / ₈	3.0600	.3268	.0729
9 ¹ / ₄	3.1537	.3171	.0751
9 ³ / ₈	3.2487	.3078	.0773
9 ¹ / ₂	3.3450	.2990	.0796

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 2.875"

ONE STRING

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
258.3628	.0217	46.0164	3 ¹ / ₂
211.1619	.0266	37.6095	3 ⁵ / ₈
177.5809	.0316	31.6285	3 ³ / ₄
152.5058	.0368	27.1624	3 ¹ / ₈
133.0960	.0422	23.7054	4
117.6473	.0477	20.9539	4 ¹ / ₈
105.0758	.0534	18.7148	4 ¹ / ₄
94.6588	.0593	16.8594	4 ³ / ₈
85.8964	.0654	15.2988	4 ¹ / ₂
78.4316	.0716	13.9693	4 ⁵ / ₈
72.0027	.0780	12.8242	4 ³ / ₄
66.4138	.0845	11.8288	4 ⁷ / ₈
61.5149	.0913	10.9563	5
57.1897	.0982	10.1859	5 ¹ / ₈
53.3462	.1052	9.5014	5 ¹ / ₄
49.9110	.1125	8.8895	5 ³ / ₈
46.8248	.1199	8.3399	5 ¹ / ₂
44.0391	.1275	7.8437	5 ⁵ / ₈
41.5139	.1352	7.3939	5 ³ / ₄
39.2158	.1432	6.9846	5 ⁷ / ₈
37.1169	.1513	6.6108	6
35.1936	.1595	6.2683	6 ¹ / ₈
33.4259	.1680	5.9534	6 ¹ / ₄
31.7966	.1766	5.6632	6 ³ / ₈
30.2908	.1854	5.3950	6 ¹ / ₂
28.8958	.1943	5.1466	6 ⁵ / ₈
27.6005	.2034	4.9159	6 ³ / ₄
26.3952	.2127	4.7012	6 ⁷ / ₈
25.2714	.2222	4.5010	7
24.2215	.2318	4.3140	7 ¹ / ₈
23.2390	.2416	4.1390	7 ¹ / ₄
22.3179	.2516	3.9750	7 ³ / ₈
21.4531	.2617	3.8210	7 ¹ / ₂
20.6399	.2720	3.6761	7 ⁵ / ₈
19.8741	.2825	3.5397	7 ³ / ₄
19.1519	.2923	3.4111	7 ⁷ / ₈
18.4700	.3040	3.2896	8
17.8254	.3150	3.1748	8 ¹ / ₈
17.2152	.3261	3.0662	8 ¹ / ₄
16.6370	.3375	2.9632	8 ³ / ₈
16.0885	.3490	2.8655	8 ¹ / ₂
15.5677	.3607	2.7727	8 ⁵ / ₈
15.0726	.3725	2.6846	8 ³ / ₄
14.6016	.3845	2.6007	8 ⁷ / ₈
14.1531	.3967	2.5208	9
13.1531	.4091	2.4446	9 ¹ / ₈
13.3177	.4216	2.3720	9 ¹ / ₄
12.9283	.4343	2.3026	9 ³ / ₈
12.5562	.4472	2.2364	9 ¹ / ₂

**Note: No allowance made for couplings.

Tubing Size
O.D. 2.875"
TABLE
TWO STRINGS
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
6 ¹ / ₂	1.0493	.9530	.0250
6 ⁵ / ₈	1.1163	.8958	.0266
6 ³ / ₄	1.1845	.8443	.0282
6 ⁷ / ₈	1.2540	.7975	.0299
7	1.3247	.7549	.0315
7 ¹ / ₈	1.3968	.7159	.0333
7 ¹ / ₄	1.4701	.6802	.0350
7 ³ / ₈	1.5447	.6474	.0368
7 ¹ / ₂	1.6205	.6171	.0386
7 ⁵ / ₈	1.6977	.5890	.0404
7 ³ / ₄	1.7761	.5630	.0423
7 ⁷ / ₈	1.8558	.5389	.0442
8	1.9367	.5163	.0461
8 ¹ / ₈	2.0190	.4953	.0481
8 ¹ / ₄	2.1025	.4756	.0501
8 ³ / ₈	2.1873	.4572	.0521
8 ¹ / ₂	2.2733	.4399	.0541
8 ⁵ / ₈	2.3607	.4236	.0562
8 ³ / ₄	2.4493	.4083	.0583
8 ⁷ / ₈	2.5392	.3938	.0605
9	2.6303	.3802	.0626
9 ¹ / ₈	2.7228	.3673	.0648
9 ¹ / ₄	2.8165	.3551	.0671
9 ³ / ₈	2.9115	.3435	.0693
9 ¹ / ₂	3.0077	.3325	.0716
9 ⁵ / ₈	3.1053	.3220	.0739
9 ³ / ₄	3.2041	.3121	.0763
9 ⁷ / ₈	3.3042	.3026	.0787
10	3.4055	.2936	.0811
10 ¹ / ₈	3.5082	.2851	.0835
10 ¹ / ₄	3.6121	.2768	.0860
10 ³ / ₈	3.7173	.2690	.0885
10 ¹ / ₂	3.8237	.2615	.0910
10 ⁵ / ₈	3.9315	.2544	.0936
10 ³ / ₄	4.0405	.2475	.0962
10 ⁷ / ₈	4.1508	.2409	.0988
11	4.2623	.2346	.1015
11 ¹ / ₈	4.3752	.2286	.1042
11 ¹ / ₄	4.4893	.2228	.1069
11 ³ / ₈	4.6047	.2172	.1096
11 ¹ / ₂	4.7213	.2118	.1124
11 ⁵ / ₈	4.8393	.2066	.1152
11 ³ / ₄	4.9585	.2017	.1181
11 ⁷ / ₈	5.0790	.1969	.1209
12	5.2007	.1923	.1238
12 ¹ / ₈	5.3238	.1878	.1268
12 ¹ / ₄	5.4481	.1836	.1297
12 ³ / ₈	5.5736	.1794	.1327
12 ¹ / ₂	5.7005	.1754	.1357
12 ⁵ / ₈	5.8286	.1716	.1388

NO.122-A

BETWEEN TUBING & HOLE**
Tubing Size
O.D. 2.875"
TWO STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
40.0258	.1403	7.1289	6 ¹ / ₂
37.6256	.1492	6.7014	6 ⁵ / ₈
35.4588	.1583	6.3155	6 ³ / ₄
33.4939	.1676	5.9655	6 ⁷ / ₈
31.7048	.1771	5.6469	7
30.0696	.1867	5.3556	7 ¹ / ₈
28.5700	.1965	5.0885	7 ¹ / ₄
27.1905	.2065	4.8428	7 ³ / ₈
25.9176	.2166	4.6161	7 ¹ / ₂
24.7400	.2269	4.4064	7 ⁵ / ₈
23.6477	.2374	4.2118	7 ³ / ₄
22.6323	.2481	4.0310	7 ⁷ / ₈
21.6861	.2589	3.8625	8
20.8028	.2699	3.7051	8 ¹ / ₈
19.9765	.2811	3.5580	8 ¹ / ₄
19.2021	.2924	3.4200	8 ³ / ₈
18.4752	.3039	3.2906	8 ¹ / ₂
17.7917	.3156	3.1688	8 ⁵ / ₈
17.1480	.3274	3.0542	8 ³ / ₄
16.5409	.3394	2.9461	8 ⁷ / ₈
15.9676	.3516	2.8440	9
15.4255	.3640	2.7474	9 ¹ / ₈
14.9123	.3765	2.6560	9 ¹ / ₄
14.4258	.3892	2.5693	9 ³ / ₈
13.9641	.4021	2.4871	9 ¹ / ₂
13.5255	.4151	2.4090	9 ⁵ / ₈
13.1083	.4283	2.3347	9 ³ / ₄
12.7113	.4417	2.2640	9 ⁷ / ₈
12.3329	.4553	2.1966	10
11.9721	.4690	2.1323	10 ¹ / ₈
11.6277	.4829	2.0710	10 ¹ / ₄
11.2987	.4969	2.0124	10 ³ / ₈
10.9841	.5112	1.9563	10 ¹ / ₂
10.6831	.5256	1.9027	10 ⁵ / ₈
10.3948	.5401	1.8514	10 ³ / ₄
10.1186	.5549	1.8022	10 ⁷ / ₈
9.8538	.5698	1.7550	11
9.5997	.5849	1.7098	11 ¹ / ₈
9.3557	.6001	1.6663	11 ¹ / ₄
9.1212	.6156	1.6246	11 ³ / ₈
8.8958	.6311	1.5844	11 ¹ / ₂
8.6790	.6469	1.5458	11 ⁵ / ₈
8.4704	.6629	1.5086	11 ³ / ₄
8.2694	.6790	1.4728	11 ⁷ / ₈
8.0758	.6952	1.4384	12
7.8892	.7117	1.4051	12 ¹ / ₈
7.7092	.7283	1.3731	12 ¹ / ₄
7.5355	.7451	1.3421	12 ³ / ₈
7.3678	.7620	1.3123	12 ¹ / ₂
7.2058	.7792	1.2834	12 ⁵ / ₈

**Note: No allowance made for couplings.

Tubing Size O.D. 2.875"		TABLE	
THREE STRINGS		VOLUME & HEIGHT	
Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
7	.9875	1.0127	.0235
7 ¹ / ₈	1.0595	.9438	.0252
7 ¹ / ₄	1.1328	.8827	.0270
7 ³ / ₈	1.2074	.8282	.0287
7 ¹ / ₂	1.2833	.7793	.0306
7 ⁵ / ₈	1.3604	.7351	.0324
7 ³ / ₄	1.4388	.6950	.0343
7 ⁷ / ₈	1.5185	.6585	.0362
8	1.5995	.6252	.0381
8 ¹ / ₈	1.6817	.5946	.0400
8 ¹ / ₄	1.7652	.5665	.0420
8 ³ / ₈	1.8500	.5405	.0440
8 ¹ / ₂	1.9361	.5165	.0461
8 ⁵ / ₈	2.0234	.4942	.0482
8 ³ / ₄	2.1120	.4735	.0503
8 ⁷ / ₈	2.2019	.4541	.0524
9	2.2931	.4361	.0546
9 ¹ / ₈	2.3855	.4192	.0568
9 ¹ / ₄	2.4792	.4034	.0590
9 ³ / ₈	2.5742	.3885	.0613
9 ¹ / ₂	2.6705	.3745	.0636
9 ⁵ / ₈	2.7680	.3613	.0659
9 ³ / ₄	2.8668	.3488	.0683
9 ⁷ / ₈	2.9669	.3371	.0706
10	3.0683	.3259	.0731
10 ¹ / ₈	3.1709	.3154	.0755
10 ¹ / ₄	3.2748	.3054	.0780
10 ³ / ₈	3.3800	.2959	.0805
10 ¹ / ₂	3.4865	.2868	.0830
10 ⁵ / ₈	3.5942	.2782	.0856
10 ³ / ₄	3.7032	.2700	.0882
10 ⁷ / ₈	3.8135	.2622	.0908
11	3.9251	.2548	.0935
11 ¹ / ₈	4.0379	.2477	.0961
11 ¹ / ₄	4.1520	.2408	.0989
11 ³ / ₈	4.2674	.2343	.1016
11 ¹ / ₂	4.3841	.2281	.1044
11 ⁵ / ₈	4.5020	.2221	.1072
11 ³ / ₄	4.6212	.2164	.1100
11 ⁷ / ₈	4.7417	.2109	.1129
12	4.8635	.2056	.1158
12 ¹ / ₈	4.9865	.2005	.1187
12 ¹ / ₄	5.1108	.1957	.1217
12 ³ / ₈	5.2364	.1910	.1247
12 ¹ / ₂	5.3633	.1865	.1277
12 ⁵ / ₈	5.4914	.1821	.1307
12 ³ / ₄	5.6208	.1779	.1338
12 ⁷ / ₈	5.7515	.1739	.1369
13	5.8835	.1700	.1401
13 ¹ / ₈	6.0167	.1662	.1433

NO.122-A

BETWEEN TUBING & HOLE**Tubing Size
O.D. 2.875"

THREE STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
42.5323	.1320	7.5753	7
39.6405	.1416	7.0603	7 ¹ / ₈
37.0751	.1514	6.6034	7 ¹ / ₄
34.7849	.1614	6.1954	7 ³ / ₈
32.7285	.1716	5.8292	7 ¹ / ₂
30.8728	.1819	5.4987	7 ⁵ / ₈
29.1903	.1923	5.1990	7 ³ / ₄
27.6585	.2030	4.9262	7 ⁷ / ₈
26.2585	.2138	4.6768	8
24.9744	.2248	4.4481	8 ¹ / ₈
23.7929	.2360	4.2377	8 ¹ / ₄
22.7024	.2473	4.0435	8 ³ / ₈
21.6933	.2588	3.8637	8 ¹ / ₂
20.7569	.2705	3.6970	8 ⁵ / ₈
19.8861	.2823	3.5419	8 ³ / ₄
19.0743	.2944	3.3973	8 ⁷ / ₈
18.3160	.3065	3.2622	9
17.6062	.3189	3.1358	9 ¹ / ₈
16.9407	.3314	3.0173	9 ¹ / ₄
16.3156	.3441	2.9059	9 ³ / ₈
15.7275	.3570	2.8012	9 ¹ / ₂
15.1733	.3700	2.7025	9 ⁵ / ₈
14.6503	.3832	2.6093	9 ³ / ₄
14.1561	.3966	2.5213	9 ⁷ / ₈
13.6884	.4102	2.4380	10
13.2454	.4239	2.3591	10 ¹ / ₈
12.8251	.4378	2.2842	10 ¹ / ₄
12.4260	.4518	2.2132	10 ³ / ₈
12.0465	.4661	2.1456	10 ¹ / ₂
11.6854	.4805	2.0813	10 ⁵ / ₈
11.3415	.4950	2.0200	10 ³ / ₄
11.0135	.5098	1.9616	10 ⁷ / ₈
10.7004	.5247	1.9058	11
10.4014	.5398	1.8526	11 ¹ / ₈
10.1155	.5550	1.8017	11 ¹ / ₄
9.8420	.5705	1.7529	11 ³ / ₈
9.5801	.5861	1.7063	11 ¹ / ₂
9.3292	.6018	1.6616	11 ⁵ / ₈
9.0885	.6178	1.6187	11 ³ / ₄
8.8576	.6339	1.5776	11 ⁷ / ₈
8.6358	.6502	1.5381	12
8.4227	.6666	1.5002	12 ¹ / ₈
8.2179	.6832	1.4637	12 ¹ / ₄
8.0208	.7000	1.4286	12 ³ / ₈
7.8310	.7170	1.3948	12 ¹ / ₂
7.6483	.7341	1.3622	12 ⁵ / ₈
7.4722	.7514	1.3309	12 ³ / ₄
7.3024	.7689	1.3006	12 ⁷ / ₈
7.1386	.7865	1.2714	13
6.9806	.8043	1.2433	13 ¹ / ₈

**Note: No allowance made for couplings.

Tubing Size
O.D. 2.875"

TABLE

FOUR STRINGS

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
7 ³ / ₄	1.1016	.9078	.0262
7 ⁷ / ₈	1.1813	.8465	.0281
8	1.2622	.7922	.0301
8 ¹ / ₈	1.3445	.7438	.0320
8 ¹ / ₄	1.4280	.7003	.0340
8 ³ / ₈	1.5128	.6610	.0360
8 ¹ / ₂	1.5988	.6255	.0381
8 ⁵ / ₈	1.6862	.5931	.0401
8 ³ / ₄	1.7748	.5634	.0423
8 ⁷ / ₈	1.8647	.5363	.0444
9	1.9558	.5113	.0466
9 ¹ / ₈	2.0483	.4882	.0488
9 ¹ / ₄	2.1420	.4669	.0510
9 ³ / ₈	2.2370	.4470	.0533
9 ¹ / ₂	2.3332	.4286	.0556
9 ⁵ / ₈	2.4308	.4114	.0579
9 ³ / ₄	2.5296	.3953	.0602
9 ⁷ / ₈	2.6297	.3803	.0626
10	2.7310	.3662	.0650
10 ¹ / ₈	2.8337	.3529	.0675
10 ¹ / ₄	2.9376	.3404	.0699
10 ³ / ₈	3.0428	.3286	.0724
10 ¹ / ₂	3.1492	.3175	.0750
10 ⁵ / ₈	3.2570	.3070	.0775
10 ³ / ₄	3.3660	.2971	.0801
10 ⁷ / ₈	3.4763	.2877	.0828
11	3.5878	.2787	.0854
11 ¹ / ₈	3.7007	.2702	.0881
11 ¹ / ₄	3.8148	.2621	.0908
11 ³ / ₈	3.9302	.2544	.0936
11 ¹ / ₂	4.0468	.2471	.0964
11 ⁵ / ₈	4.1648	.2401	.0992
11 ³ / ₄	4.2840	.2334	.1020
11 ⁷ / ₈	4.4045	.2270	.1049
12	4.5262	.2209	.1078
12 ¹ / ₈	4.6493	.2151	.1107
12 ¹ / ₄	4.7736	.2095	.1137
12 ³ / ₈	4.8992	.2041	.1166
12 ¹ / ₂	5.0260	.1990	.1197
12 ⁵ / ₈	5.1542	.1940	.1227
12 ³ / ₄	5.2836	.1893	.1258
12 ⁷ / ₈	5.4143	.1847	.1289
13	5.5462	.1803	.1321
13 ¹ / ₈	5.6795	.1761	.1352
13 ¹ / ₄	5.8140	.1720	.1384
13 ³ / ₈	5.9498	.1681	.1417
13 ¹ / ₂	6.0868	.1643	.1449
13 ⁵ / ₈	6.2252	.1606	.1482
13 ³ / ₄	6.3648	.1571	.1515
13 ⁷ / ₈	6.5057	.1537	.1549

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 2.875"

FOUR STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
38.1265	.1473	6.7906	7 ³ / ₄
35.5545	.1579	6.3325	7 ⁷ / ₈
33.2740	.1687	5.9264	8
31.2387	.1797	5.5639	8 ¹ / ₈
29.4118	.1909	5.2385	8 ¹ / ₄
27.7634	.2022	4.9449	8 ³ / ₈
26.2689	.2137	4.6787	8 ¹ / ₂
24.9083	.2254	4.4364	8 ⁵ / ₈
23.6647	.2373	4.2149	8 ³ / ₄
22.5239	.2493	4.0117	8 ⁷ / ₈
21.4741	.2615	3.8247	9
20.5050	.2738	3.6521	9 ¹ / ₈
19.6079	.2863	3.4923	9 ¹ / ₄
18.7753	.2990	3.3440	9 ³ / ₈
18.0007	.3119	3.2061	9 ¹ / ₂
17.2784	.3249	3.0774	9 ⁵ / ₈
16.6035	.3382	2.9572	9 ³ / ₄
15.9715	.3515	2.8446	9 ⁷ / ₈
15.3787	.3651	2.7391	10
14.8217	.3788	2.6399	10 ¹ / ₈
14.2974	.3927	2.5465	10 ¹ / ₄
13.8032	.4068	2.4584	10 ³ / ₈
13.3365	.4210	2.3753	10 ¹ / ₂
12.8954	.4354	2.2968	10 ⁵ / ₈
12.4777	.4500	2.2224	10 ³ / ₄
12.0819	.4647	2.1519	10 ⁷ / ₈
11.7062	.4796	2.0850	11
11.3493	.4947	2.0214	11 ¹ / ₈
11.0098	.5100	1.9609	11 ¹ / ₄
10.6865	.5254	1.9034	11 ³ / ₈
10.3785	.5410	1.8485	11 ¹ / ₂
10.0846	.5567	1.7961	11 ⁵ / ₈
9.8039	.5727	1.7462	11 ³ / ₄
9.5358	.5888	1.6984	11 ⁷ / ₈
9.2792	.6051	1.6527	12
9.0337	.6215	1.6090	12 ¹ / ₈
8.7984	.6381	1.5671	12 ¹ / ₄
8.5729	.6549	1.5269	12 ³ / ₈
8.3565	.6719	1.4884	12 ¹ / ₂
8.1487	.6890	1.4514	12 ⁵ / ₈
7.9491	.7063	1.4158	12 ³ / ₄
7.7573	.7238	1.3816	12 ⁷ / ₈
7.5727	.7414	1.3488	13
7.3951	.7592	1.3171	13 ¹ / ₈
7.2240	.7772	1.2866	13 ¹ / ₄
7.0591	.7954	1.2573	13 ³ / ₈
6.9001	.8137	1.2290	13 ¹ / ₂
6.7468	.8322	1.2017	13 ⁵ / ₈
6.5988	.8508	1.1753	13 ³ / ₄
6.4559	.8697	1.1498	13 ⁷ / ₈

**Note: No allowance made for couplings.

Tubing Size
O.D. 3.500"

TABLE

ONE STRING

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
4	.1530	6.5360	.0036
4 ¹ / ₈	.1944	5.1431	.0046
4 ¹ / ₄	.2371	4.2168	.0056
4 ³ / ₈	.2811	3.5570	.0067
4 ¹ / ₂	.3264	3.0637	.0078
4 ⁵ / ₈	.3729	2.6814	.0089
4 ³ / ₄	.4207	2.3767	.0100
4 ⁷ / ₈	.4698	2.1284	.0112
5	.5202	1.9223	.0124
5 ¹ / ₈	.5718	1.7488	.0136
5 ¹ / ₄	.6247	1.6006	.0149
5 ³ / ₈	.6789	1.4729	.0162
5 ¹ / ₂	.7344	1.3617	.0175
5 ⁵ / ₈	.7911	1.2640	.0188
5 ³ / ₄	.8491	1.1777	.0202
5 ⁷ / ₈	.9084	1.1008	.0216
6	.9690	1.0320	.0231
6 ¹ / ₈	1.0308	.9701	.0245
6 ¹ / ₄	1.0939	.9141	.0260
6 ³ / ₈	1.1583	.8633	.0267
6 ¹ / ₂	1.2240	.8170	.0291
6 ⁵ / ₈	1.2909	.7746	.0307
6 ³ / ₄	1.3591	.7358	.0324
6 ⁷ / ₈	1.4286	.7000	.0340
7	1.4994	.6669	.0357
7 ¹ / ₈	1.5714	.6364	.0374
7 ¹ / ₄	1.6447	.6080	.0392
7 ³ / ₈	1.7193	.5816	.0409
7 ¹ / ₂	1.7952	.5570	.0427
7 ⁵ / ₈	1.8723	.5341	.0446
7 ³ / ₄	1.9507	.5126	.0464
7 ⁷ / ₈	2.0304	.4925	.0483
8	2.1114	.4736	.0503
8 ¹ / ₈	2.1936	.4559	.0522
8 ¹ / ₄	2.2771	.4391	.0542
8 ³ / ₈	2.3619	.4234	.0562
8 ¹ / ₂	2.4480	.4085	.0583
8 ⁵ / ₈	2.5353	.3944	.0604
8 ³ / ₄	2.6239	.3811	.0625
8 ⁷ / ₈	2.7138	.3685	.0646
9	2.8050	.3565	.0668
9 ¹ / ₈	2.8974	.3451	.0690
9 ¹ / ₄	2.9911	.3343	.0712
9 ³ / ₈	3.0861	.3240	.0735
9 ¹ / ₂	3.1824	.3142	.0758
9 ⁵ / ₈	3.2799	.3049	.0781
9 ³ / ₄	3.3787	.2960	.0804
9 ⁷ / ₈	3.4788	.2875	.0828
10	3.5802	.2793	.0852

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 3.500"

ONE STRING

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
274.5104	.0205	48.8924	4
216.0082	.0260	38.4727	4 ¹ / ₈
177.1035	.0317	31.5435	4 ¹ / ₄
149.3934	.0376	26.6081	4 ³ / ₈
128.6768	.0436	22.9183	4 ¹ / ₂
112.6197	.0499	20.0584	4 ⁵ / ₈
99.8220	.0562	17.7791	4 ³ / ₄
89.3928	.0628	15.9215	4 ⁷ / ₈
80.7384	.0695	14.3801	5
73.4475	.0764	13.0816	5 ¹ / ₈
67.2270	.0835	11.9736	5 ¹ / ₄
61.8615	.0908	11.0180	5 ³ / ₈
57.1897	.0982	10.1859	5 ¹ / ₂
53.0882	.1058	9.4454	5 ⁵ / ₈
49.4613	.1135	8.8094	5 ³ / ₄
46.2333	.1214	8.2345	5 ⁷ / ₈
43.3438	.1295	7.7199	6
40.7437	.1378	7.2568	6 ¹ / ₈
38.3931	.1462	6.8381	6 ¹ / ₄
36.2589	.1548	6.4580	6 ³ / ₈
34.3138	.1636	6.1115	6 ¹ / ₂
32.5346	.1726	5.7947	6 ⁵ / ₈
30.9017	.1817	5.5038	6 ³ / ₄
29.3987	.1910	5.2361	6 ⁷ / ₈
28.0113	.2004	4.9890	7
26.7272	.2101	4.7603	7 ¹ / ₈
25.5359	.2199	4.5481	7 ¹ / ₄
24.4281	.2298	4.3508	7 ³ / ₈
23.3958	.2400	4.1670	7 ¹ / ₂
22.4319	.2503	3.9953	7 ⁵ / ₈
21.5302	.2608	3.8347	7 ³ / ₄
20.6852	.2714	3.6842	7 ⁷ / ₈
19.8921	.2823	3.5429	8
19.1463	.2932	3.4101	8 ¹ / ₈
18.4442	.3044	3.2850	8 ¹ / ₄
17.7821	.3157	3.1671	8 ³ / ₈
17.1569	.3272	3.0558	8 ¹ / ₂
16.5659	.3389	2.9505	8 ⁵ / ₈
16.0064	.3508	2.8509	8 ³ / ₄
15.4763	.3628	2.7564	8 ⁷ / ₈
14.9733	.3750	2.6669	9
14.4956	.3873	2.5818	9 ¹ / ₈
14.0415	.3999	2.5009	9 ¹ / ₄
13.6093	.4126	2.4239	9 ³ / ₈
13.1976	.4254	2.3506	9 ¹ / ₂
12.8052	.4385	2.2807	9 ⁵ / ₈
12.4307	.4517	2.2140	9 ³ / ₄
12.0730	.4651	2.1503	9 ⁷ / ₈
11.7312	.4786	2.0894	10

**Note: No allowance made for couplings.

Tubing Size
O.D. 3.500"
TWO STRINGS

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
7 ³ / ₄	1.4509	.6892	.0345
7 ⁷ / ₈	1.5306	.6533	.0364
8	1.6116	.6205	.0384
8 ¹ / ₈	1.6938	.5904	.0403
8 ¹ / ₄	1.7773	.5626	.0423
8 ³ / ₈	1.8621	.5370	.0443
8 ¹ / ₂	1.9482	.5133	.0464
8 ⁵ / ₈	2.0355	.4913	.0485
8 ³ / ₄	2.1241	.4708	.0506
8 ⁷ / ₈	2.2140	.4517	.0527
9	2.3052	.4338	.0549
9 ¹ / ₈	2.3976	.4171	.0571
9 ¹ / ₄	2.4913	.4014	.0593
9 ³ / ₈	2.5863	.3866	.0616
9 ¹ / ₂	2.6826	.3728	.0639
9 ⁵ / ₈	2.7801	.3597	.0662
9 ³ / ₄	2.8789	.3473	.0685
9 ⁷ / ₈	2.9790	.3357	.0709
10	3.0804	.3246	.0733
10 ¹ / ₈	3.1830	.3142	.0758
10 ¹ / ₄	3.2869	.3042	.0783
10 ³ / ₈	3.3921	.2948	.0808
10 ¹ / ₂	3.4986	.2858	.0833
10 ⁵ / ₈	3.6063	.2773	.0859
10 ³ / ₄	3.7153	.2692	.0885
10 ⁷ / ₈	3.8256	.2614	.0911
11	3.9372	.2540	.0937
11 ¹ / ₈	4.0500	.2469	.0964
11 ¹ / ₄	4.1641	.2401	.0991
11 ³ / ₈	4.2795	.2337	.1019
11 ¹ / ₂	4.3962	.2275	.1047
11 ⁵ / ₈	4.5141	.2215	.1075
11 ³ / ₄	4.6333	.2158	.1103
11 ⁷ / ₈	4.7538	.2104	.1132
12	4.8756	.2051	.1161
12 ¹ / ₈	4.9986	.2001	.1190
12 ¹ / ₄	5.1229	.1952	.1220
12 ³ / ₈	5.2485	.1905	.1250
12 ¹ / ₂	5.3754	.1860	.1280
12 ⁵ / ₈	5.5035	.1817	.1310
12 ³ / ₄	5.6329	.1775	.1341
12 ⁷ / ₈	5.7636	.1735	.1372
13	5.8956	.1696	.1404
13 ¹ / ₈	6.0288	.1659	.1435
13 ¹ / ₄	6.1633	.1622	.1467
13 ³ / ₈	6.2991	.1588	.1500
13 ¹ / ₂	6.4362	.1554	.1532
13 ⁵ / ₈	6.5745	.1521	.1565
13 ³ / ₄	6.7141	.1489	.1599
13 ⁷ / ₈	6.8550	.1459	.1632

NO.122-A

BETWEEN TUBING & HOLE**
Tubing Size
O.D. 3.500"
TWO STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
28.9466	.1940	5.1556	7 ³ / ₄
27.4396	.2046	4.8872	7 ⁷ / ₈
26.0611	.2154	4.6417	8
24.7958	.2264	4.4163	8 ¹ / ₈
23.6307	.2376	4.2088	8 ¹ / ₄
22.5548	.2489	4.0172	8 ³ / ₈
21.5584	.2604	3.8397	8 ¹ / ₂
20.6334	.2721	3.6750	8 ⁵ / ₈
19.7727	.2840	3.5217	8 ³ / ₄
18.9699	.2960	3.3787	8 ⁷ / ₈
18.2197	.3082	3.2451	9
17.5173	.3205	3.1200	9 ¹ / ₈
16.8584	.3330	3.0026	9 ¹ / ₄
16.2392	.3457	2.8923	9 ³ / ₈
15.6565	.3586	2.7885	9 ¹ / ₂
15.1072	.3716	2.6907	9 ⁵ / ₈
14.5887	.3849	2.5984	9 ³ / ₄
14.0985	.3982	2.5111	9 ⁷ / ₈
13.6346	.4118	2.4284	10
13.1950	.4255	2.3501	10 ¹ / ₈
12.7778	.4394	2.2758	10 ¹ / ₄
12.3816	.4535	2.2053	10 ³ / ₈
12.0048	.4677	2.1382	10 ¹ / ₂
11.6462	.4821	2.0743	10 ⁵ / ₈
11.3045	.4967	2.0134	10 ³ / ₄
10.9786	.5114	1.9554	10 ⁷ / ₈
10.6675	.5263	1.9000	11
10.3703	.5414	1.8470	11 ¹ / ₈
10.0861	.5567	1.7964	11 ¹ / ₄
9.8142	.5721	1.7480	11 ³ / ₈
9.5537	.5877	1.7016	11 ¹ / ₂
9.304T	.6035	1.6571	11 ⁵ / ₈
9.0647	.6194	1.6145	11 ³ / ₄
8.8350	.6355	1.5736	11 ⁷ / ₈
8.6143	.6518	1.5343	12
8.4023	.6682	1.4965	12 ¹ / ₈
8.1984	.6848	1.4602	12 ¹ / ₄
8.0022	.7016	1.4253	12 ³ / ₈
7.8134	.7186	1.3916	12 ¹ / ₂
7.6315	.7357	1.3592	12 ⁵ / ₈
7.4561	.7530	1.3280	12 ³ / ₄
7.2871	.7705	1.2979	12 ⁷ / ₈
7.1240	.7881	1.2688	13
6.9665	.8059	1.2408	13 ¹ / ₈
6.8145	.8239	1.2137	13 ¹ / ₄
6.6676	.8421	1.1875	13 ³ / ₈
6.5256	.8604	1.1623	13 ¹ / ₂
6.3883	.8789	1.1378	13 ⁵ / ₈
6.2555	.8975	1.1141	13 ³ / ₄
6.1269	.9164	1.0912	13 ⁷ / ₈

**Note: No allowance made for couplings.

Tubing Size O.D. 3.500"		TABLE	
THREE STRINGS		VOLUME & HEIGHT	
Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
8 ¹ / ₄	1.2775	.7828	.0304
8 ³ / ₈	1.3623	.7340	.0324
8 ¹ / ₂	1.4484	.6904	.0345
8 ⁵ / ₈	1.5357	.6512	.0366
8 ³ / ₄	1.6243	.6156	.0387
8 ⁷ / ₈	1.7142	.5834	.0408
9	1.8054	.5539	.0430
9 ¹ / ₈	1.8978	.5269	.0452
9 ¹ / ₄	1.9915	.5021	.0474
9 ³ / ₈	2.0865	.4793	.0497
9 ¹ / ₂	2.1828	.4581	.0520
9 ⁵ / ₈	2.2803	.4385	.0543
9 ³ / ₄	2.3791	.4203	.0566
9 ⁷ / ₈	2.4792	.4034	.0590
10	2.5806	.3875	.0614
10 ¹ / ₈	2.6832	.3727	.0639
10 ¹ / ₄	2.7871	.3588	.0664
10 ³ / ₈	2.8923	.3457	.0689
10 ¹ / ₂	2.9988	.3335	.0714
10 ⁵ / ₈	3.1065	.3219	.0740
10 ³ / ₄	3.2155	.3110	.0766
10 ⁷ / ₈	3.3258	.3007	.0792
11	3.4374	.2909	.0818
11 ¹ / ₈	3.5502	.2817	.0845
11 ¹ / ₄	3.6643	.2729	.0872
11 ³ / ₈	3.7797	.2646	.0900
11 ¹ / ₂	3.8964	.2566	.0928
11 ⁵ / ₈	4.0143	.2491	.0956
11 ³ / ₄	4.1335	.2419	.0984
11 ⁷ / ₈	4.2540	.2351	.1013
12	4.3758	.2285	.1042
12 ¹ / ₈	4.4988	.2223	.1071
12 ¹ / ₄	4.6231	.2163	.1101
12 ³ / ₈	4.7487	.2106	.1131
12 ¹ / ₂	4.8756	.2051	.1161
12 ⁵ / ₈	5.0037	.1999	.1191
12 ³ / ₄	5.1331	.1948	.1222
12 ⁷ / ₈	5.2638	.1900	.1253
13	5.3958	.1853	.1285
13 ¹ / ₈	5.5290	.1809	.1316
13 ¹ / ₄	5.6635	.1766	.1348
13 ³ / ₈	5.7993	.1724	.1381
13 ¹ / ₂	5.9364	.1685	.1413
13 ⁵ / ₈	6.0747	.1646	.1446
13 ³ / ₄	6.2143	.1609	.1480
13 ⁷ / ₈	6.3552	.1574	.1513
14	6.4974	.1539	.1547
14 ¹ / ₈	6.6408	.1506	.1581
14 ¹ / ₄	6.7855	.1474	.1616
14 ³ / ₈	6.9315	.1443	.1650

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 3.500"

THREE STRINGS

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
32.8755	.1708	5.8554	8 ¹ / ₄
30.8294	.1821	5.4910	8 ³ / ₈
28.9976	.1936	5.1647	8 ¹ / ₂
27.3485	.2053	4.8710	8 ⁵ / ₈
25.8566	.2171	4.6052	8 ³ / ₄
24.5007	.2292	4.3638	8 ⁷ / ₈
23.2636	.2413	4.1434	9
22.1305	.2537	3.9416	9 ¹ / ₈
21.0892	.2662	3.7561	9 ¹ / ₄
20.1291	.2789	3.5851	9 ³ / ₈
19.2414	.2918	3.4270	9 ¹ / ₂
18.4184	.3048	3.2805	9 ⁵ / ₈
17.6534	.3180	3.1442	9 ³ / ₄
16.9407	.3314	3.0173	9 ⁷ / ₈
16.2753	.3450	2.8988	10
15.6528	.3587	2.7879	10 ¹ / ₈
15.0692	.3726	2.6839	10 ¹ / ₄
14.5212	.3866	2.5863	10 ³ / ₈
14.0056	.4009	2.4945	10 ¹ / ₂
13.5199	.4153	2.4080	10 ⁵ / ₈
13.0616	.4299	2.3264	10 ³ / ₄
12.6284	.4446	2.2492	10 ⁷ / ₈
12.2186	.4595	2.1762	11
11.8302	.4746	2.1071	11 ¹ / ₈
11.4618	.4899	2.0414	11 ¹ / ₄
11.1119	.5053	1.9791	11 ³ / ₈
10.7792	.5209	1.9199	11 ¹ / ₂
10.4625	.5366	1.8635	11 ⁵ / ₈
10.1608	.5526	1.8097	11 ³ / ₄
9.8730	.5687	1.7585	11 ⁷ / ₈
9.5983	.5850	1.7095	12
9.3358	.6014	1.6628	12 ¹ / ₈
9.0847	.6180	1.6181	12 ¹ / ₄
8.8445	.6348	1.5753	12 ³ / ₈
8.6143	.6518	1.5343	12 ¹ / ₂
8.3937	.6689	1.4950	12 ⁵ / ₈
8.1821	.6862	1.4573	12 ³ / ₄
7.9790	.7037	1.4211	12 ⁷ / ₈
7.7839	.7213	1.3864	13
7.5963	.7391	1.3530	13 ¹ / ₈
7.4159	.7571	1.3208	13 ¹ / ₄
7.2422	.7753	1.2899	13 ³ / ₈
7.0750	.7936	1.2601	13 ¹ / ₂
6.9139	.8121	1.2314	13 ⁵ / ₈
6.7586	.8307	1.2038	13 ³ / ₄
6.6087	.8496	1.1771	13 ⁷ / ₈
6.4641	.6686	1.1513	14
6.3245	.8877	1.1264	14 ¹ / ₈
6.1896	.9071	1.1024	14 ¹ / ₄
6.0593	.9266	1.0792	14 ³ / ₈

**Note: No allowance made for couplings.

Tubing Size
O.D. 3.500"

TABLE

FOUR STRINGS

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
9 ¹ / ₄	1.4917	.6704	.0355
9 ³ / ₈	1.5867	.6302	.0378
9 ¹ / ₂	1.6830	.5942	.0401
9 ⁵ / ₈	1.7805	.5616	.0424
9 ³ / ₄	1.8793	.5321	.0447
9 ⁷ / ₈	1.9794	.5052	.0471
10	2.0808	.4806	.0495
10 ¹ / ₈	2.1834	.4580	.0520
10 ¹ / ₄	2.2873	.4372	.0545
10 ³ / ₈	2.3925	.4180	.0570
10 ¹ / ₂	2.4990	.4002	.0595
10 ⁵ / ₈	2.6067	.3836	.0621
10 ³ / ₄	2.7157	.3682	.0647
10 ⁷ / ₈	2.8260	.3539	.0673
11	2.9376	.3404	.0699
11 ¹ / ₈	3.0504	.3278	.0726
11 ¹ / ₄	3.1645	.3160	.0753
11 ³ / ₈	3.2799	.3049	.0781
11 ¹ / ₂	3.3966	.2944	.0809
11 ⁵ / ₈	3.5145	.2845	.0837
11 ³ / ₄	3.6337	.2752	.0865
11 ⁷ / ₈	3.7542	.2664	.0894
12	3.8760	.2580	.0923
12 ¹ / ₈	3.9990	.2501	.0952
12 ¹ / ₄	4.1233	.2425	.0982
12 ³ / ₈	4.2489	.2354	.1012
12 ¹ / ₂	4.3758	.2285	.1042
12 ⁵ / ₈	4.5039	.2220	.1072
12 ³ / ₄	4.6333	.2158	.1103
12 ⁷ / ₈	4.7640	.2099	.1134
13	4.8960	.2042	.1166
13 ¹ / ₈	5.0292	.1988	.1197
13 ¹ / ₄	5.1637	.1937	.1229
13 ³ / ₈	5.2995	.1887	.1262
13 ¹ / ₂	5.4366	.1839	.1294
13 ⁵ / ₈	5.5749	.1794	.1327
13 ³ / ₄	5.7145	.1750	.1361
13 ⁷ / ₈	5.8554	.1708	.1394
14	5.9976	.1667	.1428
14 ¹ / ₈	6.1410	.1628	.1462
14 ¹ / ₄	6.2857	.1591	.1497
14 ³ / ₈	6.4317	.1555	.1531
14 ¹ / ₂	6.5790	.1520	.1566
14 ⁵ / ₈	6.7275	.1486	.1602
14 ³ / ₄	6.8773	.1454	.1637
14 ⁷ / ₈	7.0284	.1423	.1673
15	7.1808	.1393	.1710
15 ¹ / ₈	7.3344	.1363	.1746
15 ¹ / ₄	7.4893	.1335	.1783
15 ³ / ₈	7.6455	.1308	.1820

NO.122-A

BETWEEN TUBING & HOLE****Tubing Size
O.D. 3.5005"****FOUR STRINGS**

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
28.1549	.1994	5.0146	9 ¹ / ₄
26.4695	.2121	4.7144	9 ³ / ₈
24.9555	.2250	4.4448	9 ¹ / ₂
23.5884	.2380	4.2013	9 ⁵ / ₈
22.3482	.2512	3.9804	9 ³ / ₄
21.2182	.2646	3.7791	9 ⁷ / ₈
20.1846	.2782	3.5950	10
19.2358	.2919	3.4260	10 ¹ / ₈
18.3619	.3058	3.2704	10 ¹ / ₄
17.5546	.3198	3.1266	10 ³ / ₈
16.8068	.3341	2.9934	10 ¹ / ₂
16.1121	.3485	2.8697	10 ⁵ / ₈
15.4654	.3630	2.7545	10 ³ / ₄
14.8618	.3778	2.6470	10 ⁷ / ₈
14.2974	.3927	2.5465	11
13.7685	.4078	2.4523	11 ¹ / ₈
13.2721	.4230	2.3639	11 ¹ / ₄
12.8052	.4385	2.2807	11 ³ / ₈
12.3653	.4541	2.2024	11 ¹ / ₂
11.9504	.4698	2.1285	11 ⁵ / ₈
11.5583	.4858	2.0586	11 ³ / ₄
11.1874	.5019	1.9926	11 ⁷ / ₈
10.8359	.5181	1.9300	12
10.5026	.5346	1.8706	12 ¹ / ₈
10.1859	.5512	1.8142	12 ¹ / ₄
9.8848	.5680	1.7606	12 ³ / ₈
9.5983	.5850	1.7095	12 ¹ / ₂
9.3252	.6021	1.6609	12 ⁵ / ₈
9.0647	.6194	1.6145	12 ³ / ₄
8.8161	.6369	1.5702	12 ⁷ / ₈
8.5785	.6545	1.5279	13
8.3512	.6723	1.4874	13 ¹ / ₈
8.1336	.6903	1.4487	13 ¹ / ₄
7.9252	.7084	1.4115	13 ³ / ₈
7.7254	.7268	1.3760	13 ¹ / ₂
7.5337	.7453	1.3418	13 ⁵ / ₈
7.3497	.7639	1.3090	13 ³ / ₄
7.1728	.7828	1.2775	13 ⁷ / ₈
7.0028	.8018	1.2473	14
6.8393	.8209	1.2181	14 ¹ / ₈
6.6818	.8403	1.1901	14 ¹ / ₄
6.5301	.8598	1.1631	14 ³ / ₈
6.3840	.8795	1.1370	14 ¹ / ₂
6.2430	.8993	1.1119	14 ⁵ / ₈
6.1070	.9194	1.0877	14 ³ / ₄
5.9757	.9396	1.0643	14 ⁷ / ₈
5.8489	.9599	1.0417	15
5.7264	.9805	1.0199	15 ¹ / ₈
5.6080	1.0012	.9988	15 ¹ / ₄
5.4934	1.0221	.9784	15 ³ / ₈

**Note: No allowance made for couplings.

Tubing Size
O.D. 4.000"

TABLE

ONE STRING

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
4 ¹ / ₄	.0841	11.8836	.0020
4 ³ / ₈	.1281	7.8041	.0031
4 ¹ / ₂	.1734	5.7670	.0041
4 ⁵ / ₈	.2199	4.5468	.0052
4 ³ / ₄	.2677	3.7348	.0064
4 ⁷ / ₈	.3168	3.1562	.0075
5	.3672	2.7233	.0087
5 ¹ / ₈	.4188	2.3876	.0100
5 ¹ / ₄	.4717	2.1198	.0112
5 ³ / ₈	.5259	1.9014	.0125
5 ¹ / ₂	.5814	1.7200	.0138
5 ⁵ / ₈	.6381	1.5671	.0152
5 ³ / ₄	.6961	1.4365	.0166
5 ⁷ / ₈	.7554	1.3237	.0180
6	.8160	1.2255	.0194
6 ¹ / ₈	.8778	1.1392	.0209
6 ¹ / ₄	.9409	1.0628	.0224
6 ³ / ₈	1.0053	.9947	.0239
6 ¹ / ₂	1.0710	.9337	.0255
6 ⁵ / ₈	1.1379	.8788	.0271
6 ³ / ₄	1.2061	.8291	.0287
6 ⁷ / ₈	1.2756	.7839	.0304
7	1.3464	.7427	.0321
7 ¹ / ₈	1.4184	.7050	.0338
7 ¹ / ₄	1.4917	.6704	.0355
7 ³ / ₈	1.5663	.6384	.0373
7 ¹ / ₂	1.6422	.6089	.0391
7 ⁵ / ₈	1.7193	.5816	.0409
7 ³ / ₄	1.7977	.5563	.0428
7 ⁷ / ₈	1.8774	.5326	.0447
8	1.9584	.5106	.0466
8 ¹ / ₈	2.0406	.4900	.0486
8 ¹ / ₄	2.1241	.4708	.0506
8 ³ / ₈	2.2089	.4527	.0526
8 ¹ / ₂	2.2950	.4357	.0546
8 ⁵ / ₈	2.3823	.4198	.0567
8 ³ / ₄	2.4709	.4047	.0588
8 ⁷ / ₈	2.5608	.3905	.0610
9	2.6520	.3771	.0631
9 ¹ / ₈	2.7444	.3644	.0653
9 ¹ / ₄	2.8381	.3523	.0676
9 ³ / ₈	2.9331	.3409	.0698
9 ¹ / ₂	3.0294	.3301	.0721
9 ⁵ / ₈	3.1269	.3198	.0745
9 ³ / ₄	3.2257	.3100	.0768
9 ⁷ / ₈	3.3258	.3007	.0792
10	3.4272	.2918	.0816

NO.122-A

BETWEEN TUBING & HOLE**

Tubing Size

O.D. 4.000"

ONE STRING

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
499.1100	.0112	88.8953	4 ¹ / ₄
327.7737	.0171	58.3790	4 ³ / ₈
242.2151	.0232	43.1403	4 ¹ / ₂
190.9638	.0294	34.0121	4 ⁵ / ₈
156.8631	.0358	27.9385	4 ³ / ₄
132.5604	.0424	23.6100	4 ⁷ / ₈
114.3794	.0491	20.3718	5
100.2778	.0560	17.8602	5 ¹ / ₈
89.0304	.0631	15.8570	5 ¹ / ₄
79.8576	.0703	14.2232	5 ³ / ₈
72.2396	.0777	12.8664	5 ¹ / ₂
65.8167	.0853	11.7225	5 ⁵ / ₈
60.3320	.0931	10.7456	5 ³ / ₄
55.5971	.1010	9.9023	5 ⁷ / ₈
51.4707	.1091	9.1673	6
47.8450	.1173	8.5216	6 ¹ / ₈
44.6358	.1258	7.9500	6 ¹ / ₄
41.7771	.1344	7.4408	6 ³ / ₈
39.2158	.1432	6.9846	6 ¹ / ₂
36.9090	.1521	6.5738	6 ⁵ / ₈
34.8216	.1612	6.2020	6 ³ / ₄
32.9248	.1705	5.8642	6 ⁷ / ₈
31.1944	.1800	5.5560	7
29.6101	.1896	5.2738	7 ¹ / ₈
28.1549	.1994	5.0146	7 ¹ / ₄
26.8142	.2094	4.7758	7 ³ / ₈
25.5755	.2195	4.5552	7 ¹ / ₂
24.4281	.2298	4.3508	7 ⁵ / ₈
23.3626	.2403	4.1611	7 ³ / ₄
22.3710	.2510	3.9844	7 ⁷ / ₈
21.4461	.2618	3.8197	8
20.5819	.2728	3.6658	8 ¹ / ₈
19.7727	.2840	3.5217	8 ¹ / ₄
19.0137	.2953	3.3865	8 ³ / ₈
18.3007	.3068	3.2595	8 ¹ / ₂
17.6298	.3185	3.1400	8 ⁵ / ₈
16.9976	.3303	3.0274	8 ³ / ₄
16.4009	.3423	2.9211	8 ⁷ / ₈
15.8371	.3545	2.8207	9
15.3037	.3669	2.7257	9 ¹ / ₈
14.7984	.3794	2.6357	9 ¹ / ₄
14.3192	.3921	2.5504	9 ³ / ₈
13.8642	.4050	2.4693	9 ¹ / ₂
13.4317	.4180	2.3923	9 ⁵ / ₈
13.0203	.4312	2.3190	9 ³ / ₄
12.6284	.4446	2.2492	9 ⁷ / ₈
12.2549	.4581	2.1827	10

**Note: No allowance made for couplings.

Tubing Size

O.D. 4 1/2"

TABLE NO. 122-A

4.500"

VOLUME & HEIGHT BETWEEN

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
5	.1938	5.1600	.0046
5 1/8	.2454	4.0744	.0058
5 1/4	.2983	3.3518	.0071
5 3/8	.3525	2.8366	.0084
5 1/2	.4080	2.4510	.0097
5 5/8	.4647	2.1518	.0111
5 3/4	.5227	1.9130	.0124
5 7/8	.5820	1.7181	.0139
6	.6426	1.5562	.0153
6 1/8	.7044	1.4196	.0168
6 1/4	.7675	1.3029	.0183
6 3/8	.8319	1.2020	.0198
6 1/2	.8976	1.1141	.0214
6 5/8	.9645	1.0368	.0230
6 3/4	1.0327	.9683	.0246
6 7/8	1.1022	.9072	.0262
7	1.1730	.8525	.0279
7 1/8	1.2450	.8032	.0296
7 1/4	1.3183	.7585	.0314
7 3/8	1.3929	.7179	.0332
7 1/2	1.4688	.6808	.0350
7 5/8	1.5459	.6469	.0368
7 3/4	1.6243	.6156	.0387
7 7/8	1.7040	.5868	.0406
8	1.7850	.5602	.0425
8 1/8	1.8672	.5356	.0445
8 1/4	1.9507	.5126	.0464
8 3/8	2.0355	.4913	.0485
8 1/2	2.1216	.4713	.0505
8 5/8	2.2089	.4527	.0526
8 3/4	2.2975	.4352	.0547
8 7/8	2.3874	.4189	.0568
9	2.4786	.4035	.0590
9 1/8	2.5710	.3889	.0612
9 1/4	2.6647	.3753	.0634
9 3/8	2.7597	.3624	.0657
9 1/2	2.8560	.3501	.0680
9 5/8	2.9535	.3386	.0703
9 3/4	3.0523	.3276	.0727
9 7/8	3.1524	.3172	.0751
10	3.2538	.3073	.0775
10 1/8	3.3564	.2979	.0799
10 1/4	3.4603	.2890	.0824
10 3/8	3.5655	.2805	.0849
10 1/2	3.6720	.2723	.0874
10 5/8	3.7797	.2646	.0900
10 3/4	3.8887	.2572	.0926
10 7/8	3.9990	.2501	.0952

AND NO. 122-B { O.D. 4 1/2" - 4.500" Tubing } & HOLE** { or 4 1/2" O.D. 4.500" Casing }		Tubing or Csg. Size O.D. 4 1/2" 4.500"	
Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
216.7189	.0259	38.5993	5
171.1235	.0328	30.4784	5 1/8
140.7747	.0399	25.0730	5 1/4
119.1366	.0471	21.2191	5 3/8
102.9415	.0545	18.3347	5 1/2
90.3739	.0621	16.0963	5 5/8
80.3446	.0699	14.3100	5 3/4
72.1605	.0778	12.8523	5 7/8
65.3597	.0859	11.6411	6
59.6222	.0942	10.6192	6 1/8
54.7197	.1026	9.7460	6 1/4
50.4847	.1112	8.9917	6 3/8
46.7916	.1200	8.3339	6 1/2
43.5443	.1289	7.7556	6 5/8
40.6682	.1381	7.2433	6 3/4
38.1044	.1473	6.7867	6 7/8
35.8057	.1568	6.3773	7
33.7340	.1664	6.0083	7 1/8
31.8581	.1762	5.6742	7 1/4
30.1522	.1862	5.3703	7 3/8
28.5949	.1963	5.0930	7 1/2
27.1681	.2067	4.8388	7 5/8
25.8566	.2171	4.6053	7 3/4
24.6474	.2278	4.3899	7 7/8
23.5295	.2386	4.1908	8
22.4932	.2496	4.0062	8 1/8
21.5302	.2608	3.8347	8 1/4
20.6334	.2721	3.6750	8 3/8
19.7964	.2836	3.5259	8 1/2
19.0137	.2953	3.3865	8 5/8
18.2804	.3071	3.2559	8 3/4
17.5921	.3192	3.1333	8 7/8
16.9451	.3313	3.0181	9
16.3359	.3437	2.9095	9 1/8
15.7614	.3562	2.8072	9 1/4
15.2189	.3689	2.7106	9 3/8
14.7059	.3818	2.6192	9 1/2
14.2203	.3948	2.5327	9 5/8
13.7599	.4080	2.4507	9 3/4
13.3231	.4214	2.3729	9 7/8
12.9080	.4350	2.2990	10
12.5133	.4487	2.2287	10 1/8
12.1375	.4626	2.1618	10 1/4
11.7795	.4766	2.0980	10 3/8
11.4379	.4909	2.0372	10 1/2
11.1119	.5053	1.9791	10 5/8
10.8004	.5198	1.9236	10 3/4
10.5026	.5346	1.8706	10 7/8

**Note: No allowance made for couplings.

Tubing Size

O.D. 4½"

TABLE NO. 122-A

4.500"

VOLUME & HEIGHT BETWEEN

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
11	4.1106	.2433	.0979
11 ¹ / ₈	4.2234	.2368	.1006
11 ¹ / ₄	4.3375	.2305	.1033
11 ³ / ₈	4.4529	.2246	.1060
11 ¹ / ₂	4.5696	.2188	.1088
11 ⁵ / ₈	4.6875	.2133	.1116
11 ³ / ₄	4.8067	.2080	.1144
11 ⁷ / ₈	4.9272	.2030	.1173
12	5.0490	.1981	.1202
12 ¹ / ₈	5.1720	.1933	.1231
12 ¹ / ₄	5.2963	.1888	.1261
12 ³ / ₈	5.4219	.1844	.1291
12 ¹ / ₂	5.5488	.1802	.1321
12 ⁵ / ₈	5.6769	.1762	.1352
12 ³ / ₄	5.8063	.1722	.1382
12 ⁷ / ₈	5.9370	.1684	.1414
13	6.0690	.1648	.1445
13 ¹ / ₈	6.2022	.1612	.1477
13 ¹ / ₄	6.3367	.1578	.1509
13 ³ / ₈	6.4725	.1545	.1541
13 ¹ / ₂	6.6096	.1513	.1574
13 ⁵ / ₈	6.7479	.1482	.1607
13 ³ / ₄	6.8875	.1452	.1640
13 ⁷ / ₈	7.0284	.1423	.1673
14	7.1706	.1395	.1707
14 ¹ / ₈	7.3140	.1367	.1741
14 ¹ / ₄	7.4587	.1341	.1776
14 ³ / ₈	7.6047	.1315	.1811
14 ¹ / ₂	7.7520	.1290	.1846
14 ⁵ / ₈	7.9005	.1266	.1881
14 ³ / ₄	8.0503	.1242	.1917
14 ⁷ / ₈	8.2014	.1219	.1953
15	8.3538	.1197	.1989
15 ¹ / ₈	8.5074	.1175	.2026
15 ¹ / ₄	8.6623	.1154	.2062
15 ³ / ₈	8.8185	.1134	.2100
15 ¹ / ₂	8.9760	.1114	.2137
15 ⁵ / ₈	9.1347	.1095	.2175
15 ³ / ₄	9.2947	.1076	.2213
15 ⁷ / ₈	9.4560	.1058	.2251
16	9.6186	.1040	.2290

AND NO. 122-B { O.D. 4 1/2" - 4.500" Tubing } & HOLE** { or 4 1/2" O.D. 4.500" Casing }			Tubing or Csg. Size O.D. 4 1/2" 4.500"
Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
10.2175	.5495	1.8198	11
9.9445	.5646	1.7712	11 1/8
9.6829	.5798	1.7246	11 1/4
9.4320	.5953	1.6799	11 3/8
9.1912	.6109	1.6370	11 1/2
8.9600	.6266	1.5958	11 5/8
8.7377	.6426	1.5563	11 3/4
8.5241	.6587	1.5182	11 7/8
8.3185	.6750	1.4816	12
8.1206	.6914	1.4463	12 1/8
7.9300	.7080	1.4124	12 1/4
7.7463	.7248	1.3797	12 3/8
7.5692	.7418	1.3481	12 1/2
7.3984	.7589	1.3177	12 5/8
7.2335	.7762	1.2883	12 3/4
7.0743	.7937	1.2600	12 7/8
6.9204	.8113	1.2326	13
6.7718	.8291	1.2061	13 1/8
6.6280	.8471	1.1805	13 1/4
6.4890	.8653	1.1557	13 3/8
6.3544	.8836	1.1318	13 1/2
6.2241	.9021	1.1086	13 5/8
6.0980	.9207	1.0861	13 3/4
5.9757	.9396	1.0643	13 7/8
5.8573	.9586	1.0432	14
5.7424	.9777	1.0228	14 1/8
5.6310	.9971	1.0029	14 1/4
5.5229	1.0166	.9837	14 3/8
5.4180	1.0363	.9650	14 1/2
5.3161	1.0561	.9468	14 5/8
5.2172	1.0762	.9292	14 3/4
5.1211	1.0964	.9121	14 7/8
5.0277	1.1167	.8955	15
4.9369	1.1373	.8793	15 1/8
4.8486	1.1580	.8636	15 1/4
4.7627	1.1789	.8483	15 3/8
4.6792	1.1999	.8334	15 1/2
4.5978	1.2211	.8189	15 5/8
4.5187	1.2455	.8048	15 3/4
4.4416	1.2641	.7911	15 7/8
4.3666	1.2858	.7777	16

**Note: No allowance made for couplings.

Casing Size
O.D. 4³/₄"
4.750"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
5	.0994	10.0553	.0024
5 ¹ / ₈	.1511	6.6187	.0036
5 ¹ / ₄	.2040	4.9020	.0049
5 ³ / ₈	.2582	3.8732	.0061
5 ¹ / ₂	.3136	3.1883	.0075
5 ⁵ / ₈	.3704	2.6999	.0088
5 ³ / ₄	.4284	2.3343	.0102
5 ⁷ / ₈	.4877	2.0505	.0116
6	.5482	1.8240	.0131
6 ¹ / ₈	.6101	1.6391	.0145
6 ¹ / ₄	.6732	1.4854	.0160
6 ³ / ₈	.7376	1.3558	.0176
6 ¹ / ₂	.8032	1.2449	.0191
6 ⁵ / ₈	.8702	1.1492	.0207
6 ³ / ₄	.9384	1.0656	.0223
6 ⁷ / ₈	1.0079	.9922	.0240
7	1.0786	.9271	.0257
7 ¹ / ₈	1.1507	.8690	.0274
7 ¹ / ₄	1.2240	.8170	.0291
7 ³ / ₈	1.2986	.7701	.0309
7 ¹ / ₂	1.3744	.7276	.0327
7 ⁵ / ₈	1.4516	.6889	.0346
7 ³ / ₄	1.5300	.6536	.0364
7 ⁷ / ₈	1.6097	.6212	.0383
8	1.6906	.5915	.0403
8 ¹ / ₈	1.7729	.5641	.0422
8 ¹ / ₄	1.8564	.5387	.0442
8 ³ / ₈	1.9412	.5151	.0462
8 ¹ / ₂	2.0272	.4933	.0483
8 ⁵ / ₈	2.1146	.4729	.0503
8 ³ / ₄	2.2032	.4539	.0525
8 ⁷ / ₈	2.2931	.4361	.0546
9	2.3842	.4194	.0568
9 ¹ / ₈	2.4767	.4038	.0590
9 ¹ / ₄	2.5704	.3890	.0612
9 ³ / ₈	2.6654	.3752	.0635
9 ¹ / ₂	2.7616	.3621	.0658
9 ⁵ / ₈	2.8592	.3498	.0681
9 ³ / ₄	2.9580	.3381	.0704
9 ⁷ / ₈	3.0581	.3270	.0728
10	3.1594	.3165	.0752
10 ¹ / ₈	3.2621	.3066	.0777
10 ¹ / ₄	3.3660	.2971	.0801
10 ³ / ₈	3.4712	.2881	.0826
10 ¹ / ₂	3.5776	.2795	.0852
10 ⁵ / ₈	3.6854	.2713	.0877
10 ³ / ₄	3.7944	.2635	.0903
10 ⁷ / ₈	3.9047	.2561	.0930
11	4.0162	.2490	.0956

NO.122-B

BETWEEN CASING & HOLE**Casing Size
O.D. 4³/₄"
4.750"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
422.3237	.0133	75.2191	5
277.9853	.0202	49.5113	5 ¹ / ₈
205.8828	.0273	36.6693	5 ¹ / ₄
162.6729	.0345	28.9733	5 ³ / ₈
133.9075	.0419	23.8500	5 ¹ / ₂
113.3950	.0495	20.1965	5 ⁵ / ₈
98.0394	.0573	17.4616	5 ³ / ₄
86.1209	.0652	15.3388	5 ⁷ / ₈
76.6076	.0733	13.6444	6
68.8427	.0816	12.2614	6 ¹ / ₈
62.3887	.0900	11.1119	6 ¹ / ₄
56.9425	.0986	10.1419	6 ³ / ₈
52.2877	.1074	9.3128	6 ¹ / ₂
48.2656	.1163	8.5965	6 ⁵ / ₈
44.7571	.1254	7.9716	6 ³ / ₄
41.6714	.1347	7.4220	6 ⁷ / ₈
38.9377	.1442	6.9351	7
36.5000	.1538	6.5009	7 ¹ / ₈
34.3138	.1636	6.1115	7 ¹ / ₄
32.3429	.1736	5.7605	7 ³ / ₈
30.5577	.1837	5.4426	7 ¹ / ₂
28.9339	.1940	5.1533	7 ⁵ / ₈
27.4510	.2045	4.8892	7 ³ / ₄
26.0921	.2152	4.6472	7 ⁷ / ₈
24.8426	.2260	4.4247	8
23.6902	.2370	4.2194	8 ¹ / ₈
22.6245	.2482	4.0296	8 ¹ / ₄
21.6363	.2595	3.8536	8 ³ / ₈
20.7178	.2710	3.6900	8 ¹ / ₂
19.8621	.2827	3.5376	8 ⁵ / ₈
19.0632	.2945	3.3953	8 ³ / ₄
18.3160	.3065	3.2622	8 ⁷ / ₈
17.6156	.3187	3.1375	9
16.9582	.3311	3.0204	9 ¹ / ₈
16.3399	.3436	2.9103	9 ¹ / ₄
15.7576	.3563	2.8065	9 ³ / ₈
15.2083	.3692	2.7087	9 ¹ / ₂
14.6895	.3822	2.6163	9 ⁵ / ₈
14.1988	.3954	2.5289	9 ³ / ₄
13.7341	.4088	2.4461	9 ⁷ / ₈
13.2935	.4224	2.3677	10
12.8752	.4361	2.2932	10 ¹ / ₈
12.4777	.4500	2.2224	10 ¹ / ₄
12.0996	.4640	2.1550	10 ³ / ₈
11.7396	.4783	2.0909	10 ¹ / ₂
11.3964	.4927	2.0298	10 ⁵ / ₈
11.0690	.5072	1.9715	10 ³ / ₄
10.7563	.5220	1.9158	10 ⁷ / ₈
10.4575	.5369	1.8626	11

**Note: No allowance made for couplings.

Casing Size
O.D. 5"
5.000"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
5 ¹ / ₂	.2142	4.6685	.0051
5 ⁵ / ₈	.2709	3.6909	.0065
5 ³ / ₄	.3289	3.040	.0078
5 ⁷ / ₈	.3882	2.5757	.0092
6	.4488	2.2282	.0107
6 ¹ / ₈	.5106	1.9583	.0122
6 ¹ / ₄	.5737	1.7429	.0137
6 ³ / ₈	.6381	1.5671	.0152
6 ¹ / ₂	.7038	1.4209	.0168
6 ⁵ / ₈	.7707	1.2975	.0184
6 ³ / ₄	.8389	1.192	.0200
6 ⁷ / ₈	.9084	1.1008	.0216
7	.9792	1.0212	.0233
7 ¹ / ₈	1.0512	.9512	.0250
7 ¹ / ₄	1.1245	.8892	.0268
7 ³ / ₈	1.1991	.8339	.0286
7 ¹ / ₂	1.2750	.7843	.0304
7 ⁵ / ₈	1.3521	.7396	.0322
7 ³ / ₄	1.4305	.6990	.0341
7 ⁷ / ₈	1.5102	.6621	.0360
8	1.5912	.6285	.0379
8 ¹ / ₈	1.6734	.5976	.0398
8 ¹ / ₄	1.7569	.5692	.0418
8 ³ / ₈	1.8417	.5430	.0439
8 ¹ / ₂	1.9278	.5187	.0459
8 ⁵ / ₈	2.0151	.4962	.0480
8 ³ / ₄	2.1037	.4753	.0501
8 ⁷ / ₈	2.1936	.4559	.0522
9	2.2848	.4377	.0544
9 ¹ / ₈	2.3772	.4207	.0566
9 ¹ / ₄	2.4709	.4047	.0588
9 ³ / ₈	2.5659	.3897	.0611
9 ¹ / ₂	2.6622	.3756	.0634
9 ⁵ / ₈	2.7597	.3624	.0657
9 ³ / ₄	2.8585	.3498	.0681
9 ⁷ / ₈	2.9586	.3380	.0704
10	3.0600	.3268	.0729
10 ¹ / ₈	3.1626	.3162	.0753
10 ¹ / ₄	3.2665	.3061	.0778
10 ³ / ₈	3.3717	.2966	.0803
10 ¹ / ₂	3.4782	.2875	.0828
10 ⁵ / ₈	3.5859	.2789	.0845
10 ³ / ₄	3.6949	.2706	.0880
10 ⁷ / ₈	3.8052	.2628	.0906
11	3.9168	.2553	.0933
11 ¹ / ₈	4.0296	.2482	.0959
11 ¹ / ₄	4.1437	.2413	.0987
11 ³ / ₈	4.2591	.2348	.1014
11 ¹ / ₂	4.3758	.2285	.1042

NO.122-B

BETWEEN CASING & HOLE**
Casing Size
O.D. 5"
5.000"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
196.0789	.0286	34.9231	5 ¹ / ₂
155.0177	.0362	27.6098	5 ⁵ / ₈
127.6793	.0440	22.7407	5 ³ / ₄
108.1815	.0519	19.2679	5 ⁷ / ₈
93.5831	.0600	16.6679	6
82.2503	.0683	14.6494	6 ¹ / ₈
73.2028	.0767	13.0380	6 ¹ / ₄
65.8167	.0853	11.7225	6 ³ / ₈
59.6762	.0941	10.6288	6 ¹ / ₂
54.4934	.1030	9.7057	6 ⁵ / ₈
50.0627	.1122	8.9165	6 ³ / ₄
46.2333	.1214	8.2345	6 ⁷ / ₈
42.8923	.1309	7.6394	7
39.9530	.1405	7.1159	7 ¹ / ₈
37.3484	.1503	6.6520	7 ¹ / ₄
35.0253	.1603	6.2383	7 ³ / ₈
32.9413	.1704	5.8671	7 ¹ / ₂
31.0620	.1808	5.5324	7 ⁵ / ₈
29.3594	.1912	5.2291	7 ³ / ₄
27.8103	.2019	4.9532	7 ⁷ / ₈
26.3952	.2127	4.7012	8
25.0981	.2237	4.4702	8 ¹ / ₈
23.9051	.2349	4.2577	8 ¹ / ₄
22.8046	.2462	4.0617	8 ³ / ₈
21.7865	.2577	3.8803	8 ¹ / ₂
20.8423	.2694	3.7122	8 ⁵ / ₈
19.9644	.2812	3.5558	8 ³ / ₄
19.1463	.2932	3.4101	8 ⁷ / ₈
18.3824	.3054	3.2740	9
17.6676	.3178	3.1467	9 ¹ / ₈
16.9976	.3303	3.0274	9 ¹ / ₄
16.3683	.3430	2.9153	9 ³ / ₈
15.7765	.3559	2.8099	9 ¹ / ₂
15.2189	.3689	2.7106	9 ⁵ / ₈
14.6928	.3821	2.6169	9 ³ / ₄
14.1958	.3955	2.5284	9 ⁷ / ₈
13.7255	.4091	2.4446	10
13.2801	.4228	2.3653	10 ¹ / ₈
12.8576	.4367	2.2900	10 ¹ / ₄
12.4565	.4507	2.2186	10 ³ / ₈
12.0752	.4650	2.1507	10 ¹ / ₂
11.7124	.4794	2.0861	10 ⁵ / ₈
11.3669	.4939	2.0245	10 ³ / ₄
11.0374	.5087	1.9659	10 ⁷ / ₈
10.7231	.5236	1.9099	11
10.4228	.5387	1.8564	11 ¹ / ₈
10.1358	.5539	1.8053	11 ¹ / ₄
9.8612	.5694	1.7564	11 ³ / ₈
9.5983	.5850	1.7095	11 ¹ / ₂

**Note: No allowance made for couplings.

Casing Size
O.D. 5 1/2"
5.500"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
5 5/8	.0567	17.6251	.0014
5 3/4	.1147	8.7146	.0027
5 7/8	.1740	5.7459	.0041
6	.2346	4.2626	.0056
6 1/8	.2964	3.3734	.0071
6 1/4	.3595	2.7813	.0086
6 3/8	.4239	2.3588	.0101
6 1/2	.4896	2.0425	.0117
6 5/8	.5565	1.7968	.0133
6 3/4	.6247	1.6006	.0149
6 7/8	.6942	1.4404	.0165
7	.7650	1.3072	.0182
7 1/8	.8370	1.1947	.0199
7 1/4	.9103	1.0985	.0217
7 3/8	.9849	1.0153	.0235
7 1/2	1.0608	.9427	.0253
7 5/8	1.1379	.8788	.0271
7 3/4	1.2163	.8221	.0290
7 7/8	1.2960	.7716	.0309
8	1.3770	.7262	.0328
8 1/8	1.4592	.6853	.0347
8 1/4	1.5427	.6482	.0367
8 3/8	1.6275	.6144	.0388
8 1/2	1.7136	.5836	.0408
8 5/8	1.8009	.5553	.0429
8 3/4	1.8895	.5292	.0450
8 7/8	1.9794	.5052	.0471
9	2.0706	.4830	.0493
9 1/8	2.1630	.4623	.0515
9 1/4	2.2567	.4431	.0537
9 3/8	2.3517	.4252	.0560
9 1/2	2.4480	.4085	.0583
9 5/8	2.5455	.3928	.0606
9 3/4	2.6443	.3782	.0630
9 7/8	2.7444	.3644	.0653
10	2.8458	.3514	.0678
10 1/8	2.9484	.3392	.0702
10 1/4	3.0523	.3276	.0727
10 3/8	3.1575	.3167	.0752
10 1/2	3.2640	.3064	.0777
10 5/8	3.3717	.2966	.0803
10 3/4	3.4807	.2873	.0829
10 7/8	3.5910	.2785	.0855
11	3.7026	.2701	.0882
11 1/8	3.8154	.2621	.0908
11 1/4	3.9295	.2545	.0936
11 3/8	4.0449	.2472	.0963
11 1/2	4.1616	.2403	.0991
11 5/8	4.2795	.2337	.1019
11 3/4	4.3987	.2273	.1047
11 7/8	4.5192	.2213	.1076

NO.122-B

BETWEEN CASING & HOLE**
Casing Size
O.D. 5½"
5.500"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
740.2533	.0076	131.84473	5 ⁵ / ₈
366.0142	.0153	65.1899	5 ³ / ₄
241.3280	.0233	42.9823	5 ⁷ / ₈
179.0287	.0314	31.8864	6
141.6829	.0396	25.2348	6 ¹ / ₈
116.8130	.0481	20.8053	6 ¹ / ₄
99.0715	.0567	17.6454	6 ³ / ₈
85.7846	.0654	15.2789	6 ¹ / ₂
75.4668	.0744	13.4412	6 ⁵ / ₈
67.2271	.0835	11.9737	6 ³ / ₄
60.4982	.0928	10.7752	6 ⁷ / ₈
54.9021	.1023	9.7785	7
50.1771	.1119	8.9369	7 ¹ / ₈
46.1362	.1217	8.2172	7 ¹ / ₄
42.6424	.1317	7.5949	7 ³ / ₈
39.5929	.1418	7.0518	7 ¹ / ₂
36.9090	.1521	6.5738	7 ⁵ / ₈
34.5296	.1626	6.1500	7 ³ / ₄
32.4066	.1733	5.7719	7 ⁷ / ₈
30.5012	.1841	5.4325	8
28.7822	.1951	5.1263	8 ¹ / ₈
27.2242	.2062	4.8488	8 ¹ / ₄
25.8059	.2176	4.5962	8 ³ / ₈
24.5099	.2291	4.3654	8 ¹ / ₂
23.3213	.2407	4.1537	8 ⁵ / ₈
22.2276	.2526	3.9589	8 ³ / ₄
21.2182	.2646	3.7791	8 ⁷ / ₈
20.2840	.2768	3.6127	9
19.4172	.2892	3.4583	9 ¹ / ₈
18.6109	.3017	3.3147	9 ¹ / ₄
17.8592	.3144	3.1809	9 ³ / ₈
17.1569	.3272	3.0558	9 ¹ / ₂
16.4995	.3403	2.9387	9 ⁵ / ₈
15.8830	.3535	2.8289	9 ³ / ₄
15.3037	.3669	2.7257	9 ⁷ / ₈
14.7586	.3804	2.6286	10
14.2449	.3941	2.5371	10 ¹ / ₈
13.7599	.4080	2.4507	10 ¹ / ₄
13.3015	.4221	2.3691	10 ³ / ₈
12.8677	.4363	2.2918	10 ¹ / ₂
12.4565	.4507	2.2186	10 ⁵ / ₈
12.0664	.4653	2.1491	10 ³ / ₄
11.6958	.4801	2.0831	10 ⁷ / ₈
11.3434	.4950	2.0203	11
11.0079	.5100	1.9606	11 ¹ / ₈
10.6883	.5253	1.9037	11 ¹ / ₄
10.3834	.5407	1.8494	11 ³ / ₈
10.0923	.5563	1.7975	11 ¹ / ₂
9.8142	.5721	1.7480	11 ⁵ / ₈
9.5482	.5880	1.7006	11 ³ / ₄
9.2936	.6041	1.6553	11 ⁷ / ₈

**Note: No allowance made for couplings.

Casing Size
O.D. 5½"
5.500"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
12	4.6410	.2155	.1105
12 ¹ / ₈	4.7640	.2099	.1134
12 ¹ / ₄	4.8883	.2046	.1164
12 ³ / ₈	5.0139	.1994	.1194
12 ¹ / ₂	5.1408	.1945	.1224
12 ⁵ / ₈	5.2689	.1898	.1255
12 ³ / ₄	5.3983	.1852	.1285
12 ⁷ / ₈	5.5290	.1809	.1316
13	5.6610	.1766	.1348
13 ¹ / ₈	5.7942	.1727	.1380
13 ¹ / ₄	5.9287	.1687	.1412
13 ³ / ₈	6.0645	.1649	.1444
13 ¹ / ₂	6.2016	.1612	.1477
13 ⁵ / ₈	6.3399	.1577	.1510
13 ³ / ₄	6.4795	.1543	.1543
13 ⁷ / ₈	6.6204	.1510	.1576
14	6.7626	.1479	.1610
14 ¹ / ₈	6.9060	.1448	.1644
14 ¹ / ₄	7.0507	.1418	.1679
14 ³ / ₈	7.1967	.1390	.1714
14 ¹ / ₂	7.3440	.1362	.1749
14 ⁵ / ₈	7.4925	.1335	.1784
14 ³ / ₄	7.6423	.1309	.1820
14 ⁷ / ₈	7.7934	.1283	.1856
15	7.9458	.1259	.1892
15 ¹ / ₈	8.0994	.1235	.1928
15 ¹ / ₄	8.2543	.1211	.1965
15 ³ / ₈	8.4105	.1189	.2003
15 ¹ / ₂	8.5680	.1167	.2040
15 ⁵ / ₈	8.7267	.1146	.2078
15 ³ / ₄	8.8867	.1125	.2116
15 ⁷ / ₈	9.0480	.1105	.2154
16	9.2106	.1086	.2193

NO.122-B

BETWEEN CASING & HOLE**

Casing Size

O.D. 5½"

5.500"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
9.0498	.6204	1.6118	12
8.8161	.6369	1.5702	12 ¹ / ₈
8.5919	.6535	1.5303	12 ¹ / ₄
8.3767	.6703	1.4919	12 ³ / ₈
8.1700	.6872	1.4551	12 ¹ / ₂
7.9713	.7044	1.4197	12 ⁵ / ₈
7.7802	.7217	1.3857	12 ³ / ₄
7.5963	.7391	1.3530	12 ⁷ / ₈
7.4192	.7568	1.3214	13
7.2486	.7746	1.2910	13 ¹ / ₈
7.0841	.7926	1.2617	13 ¹ / ₄
6.9255	.8107	1.2335	13 ³ / ₈
6.7725	.8290	1.2062	13 ¹ / ₂
6.6247	.8475	1.1799	13 ⁵ / ₈
6.4819	.8662	1.1545	13 ³ / ₄
6.3440	.8850	1.1299	13 ⁷ / ₈
6.2106	.9040	1.1062	14
6.0817	.9232	1.0832	14 ¹ / ₈
5.9568	.9425	1.0610	14 ¹ / ₄
5.8360	.9621	1.0394	14 ³ / ₈
5.7190	.9817	1.0186	14 ¹ / ₂
5.6056	1.0016	.9984	14 ⁵ / ₈
5.4957	1.0216	.9788	14 ³ / ₄
5.3892	1.0418	.9599	14 ⁷ / ₈
5.2858	1.0622	.9414	15
5.1856	1.0827	.9236	15 ¹ / ₈
5.0882	1.1034	.9063	15 ¹ / ₄
4.9937	1.1243	.8894	15 ³ / ₈
4.9020	1.1454	.8731	15 ¹ / ₂
4.8128	1.1666	.8572	15 ⁵ / ₈
4.7262	1.1880	.8418	15 ³ / ₄
4.6419	1.2095	.8268	15 ⁷ / ₈
4.5600	1.2313	.8122	16

**Note: No allowance made for couplings.

Casing Size

*O.D. 5³/₄"

5.750"

TABLE

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
6	.1198	8.3438	.0029
6 ¹ / ₈	.1817	5.5040	.0043
6 ¹ / ₄	.2448	4.0850	.0058
6 ³ / ₈	.3092	3.2343	.0074
6 ¹ / ₂	.3748	2.6677	.0089
6 ⁵ / ₈	.4418	2.2635	.0105
6 ³ / ₄	.5100	1.9608	.0121
6 ⁷ / ₈	.5795	1.7257	.0138
7	.6502	1.5379	.0155
7 ¹ / ₈	.7223	1.3845	.0172
7 ¹ / ₄	.7956	1.2569	.0189
7 ³ / ₈	.8702	1.1492	.0207
7 ¹ / ₂	.9460	1.0570	.0225
7 ⁵ / ₈	1.0232	.9773	.0244
7 ³ / ₄	1.1016	.9078	.0262
7 ⁷ / ₈	1.1813	.8465	.0281
8	1.2622	.7922	.0301
8 ¹ / ₈	1.3445	.7438	.0320
8 ¹ / ₄	1.4280	.7003	.0340
8 ³ / ₈	1.5128	.6610	.0360
8 ¹ / ₂	1.5988	.6255	.0381
8 ⁵ / ₈	1.6862	.5931	.0401
8 ³ / ₄	1.7748	.5634	.0423
8 ⁷ / ₈	1.8647	.5363	.0444
9	1.9558	.5113	.0466
9 ¹ / ₈	2.0483	.4882	.0488
9 ¹ / ₄	2.1420	.4669	.0510
9 ³ / ₈	2.2370	.4470	.0533
9 ¹ / ₂	2.3332	.4286	.0556
9 ⁵ / ₈	2.4308	.4114	.0579
9 ³ / ₄	2.5296	.3953	.0602
9 ⁷ / ₈	2.6297	.3803	.0626
10	2.7310	.3662	.0650
10 ¹ / ₈	2.8337	.3529	.0675
10 ¹ / ₄	2.9376	.3404	.0699
10 ³ / ₈	3.0428	.3286	.0724
10 ¹ / ₂	3.1492	.3175	.0750
10 ⁵ / ₈	3.2570	.3070	.0775
10 ³ / ₄	3.3660	.2971	.0801
10 ⁷ / ₈	3.4763	.2877	.0828
11	3.5878	.2787	.0854
11 ¹ / ₈	3.7007	.2702	.0881
11 ¹ / ₄	3.8148	.2621	.0908
11 ³ / ₈	3.9302	.2544	.0936
11 ¹ / ₂	4.0468	.2471	.0964
11 ⁵ / ₈	4.1648	.2401	.0992
11 ³ / ₄	4.2840	.2334	.1020
11 ⁷ / ₈	4.4045	.2270	.1049
12	4.5262	.2209	.1078

NO.122-B

BETWEEN CASING & HOLE**

Casing Size

*O.D. 5³/₄"

5.750"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
350.4388	.0160	62.4158	6
231.1667	.0243	41.1726	6 ¹ / ₈
171.5690	.0327	30.5577	6 ¹ / ₄
135.8402	.0413	24.1942	6 ³ / ₈
112.0451	.0501	19.9561	6 ¹ / ₂
95.0686	.0591	16.9324	6 ⁵ / ₈
82.3531	.0682	14.6677	6 ³ / ₄
72.4780	.0775	12.9089	6 ⁷ / ₈
64.5907	.0869	11.5041	7
58.1487	.0966	10.3567	7 ¹ / ₈
52.7905	.1064	9.4024	7 ¹ / ₄
48.2656	.1163	8.5965	7 ³ / ₈
44.3952	.1265	7.9071	7 ¹ / ₂
41.0483	.1368	7.3110	7 ⁵ / ₈
38.1265	.1473	6.7906	7 ³ / ₄
35.5545	.1579	6.3325	7 ⁷ / ₈
33.2740	.1687	5.9264	8
31.2387	.1797	5.5639	8 ¹ / ₈
29.4118	.1909	5.2385	8 ¹ / ₄
27.7634	.2022	4.9449	8 ³ / ₈
26.2689	.2137	4.6787	8 ¹ / ₂
24.9083	.2254	4.4364	8 ⁵ / ₈
23.6647	.2373	4.2149	8 ³ / ₄
22.5239	.2493	4.0117	8 ⁷ / ₈
21.4741	.2615	3.8247	9
20.5050	.2738	3.6521	9 ¹ / ₈
19.6079	.2863	3.4923	9 ¹ / ₄
18.7753	.2990	3.3440	9 ³ / ₈
18.0007	.3119	3.2061	9 ¹ / ₂
17.2784	.3249	3.0774	9 ⁵ / ₈
16.6035	.3382	2.9572	9 ³ / ₄
15.9715	.3515	2.8446	9 ⁷ / ₈
15.3787	.3651	2.7391	10
14.8217	.3788	2.6399	10 ¹ / ₈
14.2974	.3927	2.5465	10 ¹ / ₄
13.8032	.4068	2.4584	10 ³ / ₈
13.3365	.4210	2.3753	10 ¹ / ₂
12.8954	.4354	2.2968	10 ⁵ / ₈
12.4777	.4500	2.2224	10 ³ / ₄
12.0819	.4647	2.1519	10 ⁷ / ₈
11.7062	.4796	2.0850	11
11.3493	.4947	2.0214	11 ¹ / ₈
11.0098	.5100	1.9609	11 ¹ / ₄
10.6865	.5254	1.9034	11 ³ / ₈
10.3785	.5410	1.8485	11 ¹ / ₂
10.0846	.5567	1.7961	11 ⁵ / ₈
9.8039	.5727	1.7462	11 ³ / ₄
9.5358	.5888	1.6984	11 ⁷ / ₈
9.2792	.6051	1.6527	12

**Note: No allowance made for couplings.

Casing Size
*O.D. 6"
6.000"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
6 ¹ / ₈	.0618	16.1715	.0015
6 ¹ / ₄	.1249	8.0032	.0030
6 ³ / ₈	.1893	5.2816	.0045
6 ¹ / ₂	.2550	3.9216	.0061
6 ⁵ / ₈	.3219	3.1062	.0077
6 ³ / ₄	.3901	2.5631	.0093
6 ⁷ / ₈	.4596	2.1756	.0109
7	.5304	1.8854	.0126
7 ¹ / ₈	.6024	1.6599	.0143
7 ¹ / ₄	.6757	1.4798	.0161
7 ³ / ₈	.7503	1.3327	.0179
7 ¹ / ₂	.8262	1.2104	.0197
7 ⁵ / ₈	.9033	1.1070	.0215
7 ³ / ₄	.9817	1.0186	.0234
7 ⁷ / ₈	1.0614	.9421	.0253
8	1.1424	.8754	.0272
8 ¹ / ₈	1.2246	.8166	.0292
8 ¹ / ₄	1.3081	.7644	.0311
8 ³ / ₈	1.3929	.7179	.0332
8 ¹ / ₂	1.4790	.6761	.0352
8 ⁵ / ₈	1.5663	.6384	.0373
8 ³ / ₄	1.6459	.6042	.0394
8 ⁷ / ₈	1.7448	.5731	.0415
9	1.8360	.5447	.0437
9 ¹ / ₈	1.9284	.5186	.0459
9 ¹ / ₄	2.0221	.4945	.0481
9 ³ / ₈	2.1171	.4723	.0504
9 ¹ / ₂	2.2134	.4518	.0527
9 ⁵ / ₈	2.3109	.4327	.0550
9 ³ / ₄	2.4097	.4150	.0574
9 ⁷ / ₈	2.5098	.3984	.0598
10	2.6112	.3830	.0622
10 ¹ / ₈	2.7138	.3685	.0646
10 ¹ / ₄	2.8177	.3549	.0671
10 ³ / ₈	2.9229	.3421	.0696
10 ¹ / ₂	3.0294	.3301	.0721
10 ⁵ / ₈	3.1371	.3188	.0747
10 ³ / ₄	3.2461	.3081	.0773
10 ⁷ / ₈	3.3564	.2979	.0799
11	3.4680	.2884	.0826
11 ¹ / ₈	3.5808	.2793	.0853
11 ¹ / ₄	3.6949	.2706	.0880
11 ³ / ₈	3.8103	.2624	.0907
11 ¹ / ₂	3.9270	.2546	.0935
11 ⁵ / ₈	4.0449	.2472	.0963
11 ³ / ₄	4.1641	.2401	.0991
11 ⁷ / ₈	4.2846	.2334	.1020
12	4.4064	.2269	.1049

NO.122-B

BETWEEN CASING & HOLE**
Casing Size
***O.D. 6"**
6.000"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
679.2011	.0083	120.9709	6 ¹ / ₈
336.1353	.0167	159.8682	6 ¹ / ₄
221.8266	.0253	39.5090	6 ³ / ₈
164.7063	.0341	29.3354	6 ¹ / ₂
130.4604	.0430	23.2360	6 ⁵ / ₈
107.6512	.0522	19.1735	6 ³ / ₄
91.3766	.0614	16.2749	6 ⁷ / ₈
79.1857	.0709	14.1036	7
69.7169	.0805	12.4171	7 ¹ / ₈
62.1533	.0903	11.0700	7 ¹ / ₄
55.9749	.1003	9.9696	7 ³ / ₈
50.8353	.1104	9.0541	7 ¹ / ₂
46.4944	.1208	8.2810	7 ⁵ / ₈
42.7808	.1312	7.6196	7 ³ / ₄
39.5691	.1419	7.0476	7 ⁷ / ₈
36.7648	.1527	6.5481	8
34.2959	.1637	6.1084	8 ¹ / ₈
32.1065	.1749	5.7184	8 ¹ / ₄
30.1522	.1862	5.3703	8 ³ / ₈
28.3976	.1977	5.0578	8 ¹ / ₂
26.8142	.2094	4.7758	8 ⁵ / ₈
25.3785	.2212	4.5201	8 ³ / ₄
24.0711	.2333	4.2872	8 ⁷ / ₈
22.8759	.2454	4.0744	9
21.7793	.2578	3.8791	9 ¹ / ₈
20.7700	.2703	3.6993	9 ¹ / ₄
19.8382	.2830	3.5333	9 ³ / ₈
18.9754	.2959	3.3797	9 ¹ / ₂
18.1745	.3089	3.2370	9 ⁵ / ₈
17.4292	.3221	3.1043	9 ³ / ₄
16.7342	.3355	2.9805	9 ⁷ / ₈
16.0846	.3491	2.8648	10
15.4763	.3628	2.7564	10 ¹ / ₈
14.9055	.3767	2.6548	10 ¹ / ₄
14.3691	.3907	2.5593	10 ³ / ₈
13.8642	.4050	2.4693	10 ¹ / ₂
13.3880	.4194	2.3845	10 ⁵ / ₈
12.9384	.4339	2.3044	10 ³ / ₄
12.5133	.4487	2.2287	10 ⁷ / ₈
12.1108	.4636	2.1570	11
11.7291	.4787	2.0890	11 ¹ / ₈
11.3669	.4939	2.0245	11 ¹ / ₄
11.0227	.5094	1.9632	11 ³ / ₈
10.6952	.5250	1.9040	11 ¹ / ₂
10.3834	.5407	1.8494	11 ⁵ / ₈
10.0861	.5567	1.7964	11 ³ / ₄
9.8025	.5728	1.7459	11 ⁷ / ₈
9.5316	.5890	1.6977	12

**Note: No allowance made for couplings.

Casing Size
O.D. 6⁵/₈"
6.625"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
7	.2085	4.7970	.0050
7 ¹ / ₈	.2805	3.5651	.0067
7 ¹ / ₄	.3538	2.8264	.0084
7 ³ / ₈	.4284	2.3343	.0102
7 ¹ / ₂	.5043	1.9831	.0120
7 ⁵ / ₈	.5814	1.7200	.0138
7 ³ / ₄	.6598	1.5156	.0157
7 ⁷ / ₈	.7395	1.3523	.0176
8	.8205	1.2188	.0195
8 ¹ / ₈	.9027	1.1078	.0215
8 ¹ / ₄	.9862	1.0140	.0235
8 ³ / ₈	1.0710	.9337	.0255
8 ¹ / ₂	1.1571	.8643	.0275
8 ⁵ / ₈	1.2444	.8036	.0296
8 ³ / ₄	1.3330	.7502	.0317
8 ⁷ / ₈	1.4229	.7028	.0339
9	1.5141	.6605	.0360
9 ¹ / ₈	1.6065	.6225	.0382
9 ¹ / ₄	1.7002	.5882	.0405
9 ³ / ₈	1.7952	.5570	.0427
9 ¹ / ₂	1.8915	.5287	.0450
9 ⁵ / ₈	1.9890	.5028	.0474
9 ³ / ₄	2.0878	.4790	.0497
9 ⁷ / ₈	2.1879	.4571	.0521
10	2.2893	.4368	.0545
10 ¹ / ₈	2.3919	.4181	.0569
10 ¹ / ₄	2.4958	.4007	.0594
10 ³ / ₈	2.6010	.3845	.0619
10 ¹ / ₂	2.7075	.3694	.0645
10 ⁵ / ₈	2.8152	.3552	.0670
10 ³ / ₄	2.9242	.3420	.0696
10 ⁷ / ₈	3.0345	.3295	.0722
11	3.1461	.3179	.0749
11 ¹ / ₈	3.2589	.3069	.0776
11 ¹ / ₄	3.3730	.2965	.0803
11 ³ / ₈	3.4884	.2867	.0831
11 ¹ / ₂	3.6051	.2774	.0858
11 ⁵ / ₈	3.7230	.2686	.0886
11 ³ / ₄	3.8422	.2603	.0915
11 ⁷ / ₈	3.9627	.2524	.0943
12	4.0845	.2448	.0972
12 ¹ / ₈	4.2075	.2377	.1002
12 ¹ / ₄	4.3318	.2309	.1031
12 ³ / ₈	4.4574	.2243	.1061
12 ¹ / ₂	4.5843	.2181	.1091
12 ⁵ / ₈	4.7124	.2122	.1122
12 ³ / ₄	4.8418	.2065	.1153
12 ⁷ / ₈	4.9725	.2011	.1184
13	5.1045	.1959	.1215

NO.122-B

BETWEEN CASING & HOLE**
Casing Size
O.D. 6⁵/₈"
6.625"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
201.4756	.0279	35.8843	7
149.7330	.0375	26.6686	7 ¹ / ₈
118.7072	.0473	21.1427	7 ¹ / ₄
98.0394	.0573	17.4616	7 ³ / ₈
83.2901	.0674	14.8346	7 ¹ / ₂
72.2396	.0777	12.8664	7 ⁵ / ₈
63.6546	.0882	11.3374	7 ³ / ₄
56.7953	.0989	10.1157	7 ⁷ / ₈
51.1908	.1097	9.1175	8
46.5272	.1207	8.2868	8 ¹ / ₈
42.5873	.1318	7.5851	8 ¹ / ₄
39.2158	.1432	6.9846	8 ³ / ₈
36.2989	.1547	6.4651	8 ¹ / ₂
33.7513	.1664	6.0114	8 ⁵ / ₈
31.5077	.1782	5.6118	8 ³ / ₄
29.5173	.1902	5.2572	8 ⁷ / ₈
27.7400	.2024	4.9407	9
26.1439	.2148	4.6564	9 ¹ / ₈
24.7029	.2273	4.3998	9 ¹ / ₄
23.3958	.2400	4.1670	9 ³ / ₈
22.2051	.2529	3.9549	9 ¹ / ₂
21.1162	.2659	3.7610	9 ⁵ / ₈
20.1168	.2791	3.5830	9 ³ / ₄
19.1965	.2925	3.4190	9 ⁷ / ₈
18.3466	.3060	3.2677	10
17.5593	.3197	3.1274	10 ¹ / ₈
16.8282	.3336	2.9972	10 ¹ / ₄
16.1477	.3477	2.8760	10 ³ / ₈
15.5127	.3619	2.7629	10 ¹ / ₂
14.9190	.3763	2.6572	10 ⁵ / ₈
14.3629	.3909	2.5581	10 ³ / ₄
13.8409	.4057	2.4652	10 ⁷ / ₈
13.3501	.4206	2.3777	11
12.8878	.4357	2.2954	11 ¹ / ₈
12.4518	.4509	2.2178	11 ¹ / ₄
12.0399	.4663	2.1444	11 ³ / ₈
11.6503	.4819	2.0750	11 ¹ / ₂
11.2813	.4977	2.0093	11 ⁵ / ₈
10.9312	.5136	1.9469	11 ³ / ₄
10.5989	.5297	1.8877	11 ⁷ / ₈
10.2829	.5460	1.8315	12
9.9822	.5625	1.7779	12 ¹ / ₈
9.6957	.5791	1.7269	12 ¹ / ₄
9.4226	.5959	1.6782	12 ³ / ₈
9.1618	.6128	1.6318	12 ¹ / ₂
8.9127	.6300	1.5874	12 ⁵ / ₈
8.6745	.6473	1.5450	12 ³ / ₄
8.4465	.6647	1.5044	12 ⁷ / ₈
8.2281	.6824	1.4655	13

**Note: No allowance made for couplings.

Casing Size
O.D. 7"
7.000"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
7 ¹ / ₈	.0720	13.8817	.0017
7 ¹ / ₄	.1453	6.8800	.0035
7 ³ / ₈	.2199	4.5468	.0052
7 ¹ / ₂	.2958	3.3807	.0070
7 ⁵ / ₈	.3729	2.6814	.0089
7 ³ / ₄	.4513	2.2156	.0107
7 ⁷ / ₈	.5310	1.8831	.0126
8	.6120	1.6340	.0146
8 ¹ / ₈	.6942	1.4404	.0165
8 ¹ / ₄	.7777	1.2858	.0185
8 ³ / ₈	.8625	1.1594	.0205
8 ¹ / ₂	.9486	1.0542	.0226
8 ⁵ / ₈	1.0359	.9653	.0247
8 ³ / ₄	1.1245	.8892	.0268
8 ⁷ / ₈	1.2144	.8234	.0289
9	1.3056	.7659	.0311
9 ¹ / ₈	1.3980	.7153	.0333
9 ¹ / ₄	1.4917	.6704	.0355
9 ³ / ₈	1.5867	.6302	.0378
9 ¹ / ₂	1.6830	.5942	.0401
9 ⁵ / ₈	1.7805	.5616	.0424
9 ³ / ₄	1.8793	.5321	.0447
9 ⁷ / ₈	1.9794	.5052	.0471
10	2.0808	.4806	.0495
10 ¹ / ₈	2.1834	.4580	.0520
10 ¹ / ₄	2.2873	.4372	.0545
10 ³ / ₈	2.3925	.4180	.0570
10 ¹ / ₂	2.4990	.4002	.0595
10 ⁵ / ₈	2.6067	.3836	.0621
10 ³ / ₄	2.7157	.3682	.0647
10 ⁷ / ₈	2.8260	.3539	.0673
11	2.9376	.3404	.0699
11 ¹ / ₈	3.0504	.3278	.0726
11 ¹ / ₄	3.1645	.3160	.0753
11 ³ / ₈	3.2799	.3049	.0781
11 ¹ / ₂	3.3966	.2944	.0809
11 ⁵ / ₈	3.5145	.2845	.0837
11 ³ / ₄	3.6337	.2752	.0865
11 ⁷ / ₈	3.7542	.2664	.0894
12	3.8760	.2580	.0923
12 ¹ / ₈	3.9990	.2501	.0952
12 ¹ / ₄	4.1233	.2425	.0982
12 ³ / ₈	4.2489	.2354	.1012
12 ¹ / ₂	4.3758	.2285	.1042
12 ⁵ / ₈	4.5039	.2220	.1072
12 ³ / ₄	4.6333	.2158	.1103
12 ⁷ / ₈	4.7640	.2099	.1134

NO.122-B

BETWEEN CASING & HOLE**
Casing Size
O.D. 7"
7.000"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
583.0313	.0096	103.84230	7 ¹ / ₈
288.9585	.0194	51.4657	7 ¹ / ₄
190.9639	.0294	34.0121	7 ³ / ₈
141.9883	.0395	25.2892	7 ¹ / ₂
112.6197	.0499	20.0584	7 ⁵ / ₈
93.0545	.0603	16.5737	7 ³ / ₄
79.0907	.0710	14.0867	7 ⁷ / ₈
68.6277	.0818	12.2231	8
60.4982	.0928	10.7752	8 ¹ / ₈
54.0021	.1040	9.6182	8 ¹ / ₄
48.6937	.1153	8.6727	8 ³ / ₈
44.2759	.1268	7.8859	8 ¹ / ₂
40.5431	.1385	7.2210	8 ⁵ / ₈
37.3484	.1503	6.6520	8 ³ / ₄
34.5840	.1623	6.1597	8 ⁷ / ₈
32.1692	.1745	5.7296	9
30.0422	.1869	5.3507	9 ¹ / ₈
28.1549	.1994	5.0146	9 ¹ / ₄
26.4695	.2121	4.7144	9 ³ / ₈
24.9555	.2250	4.4448	9 ¹ / ₂
23.5884	.2380	4.2013	9 ⁵ / ₈
22.3482	.2512	3.9804	9 ³ / ₄
21.2182	.2646	3.7791	9 ⁷ / ₈
20.1846	.2782	3.5950	10
19.2358	.2919	3.4260	10 ¹ / ₈
18.3619	.3058	3.2704	10 ¹ / ₄
17.5546	.3198	3.1266	10 ³ / ₈
16.8068	.3341	2.9934	10 ¹ / ₂
16.1121	.3485	2.8697	10 ⁵ / ₈
15.4654	.3630	2.7545	10 ³ / ₄
14.8618	.3778	2.6470	10 ⁷ / ₈
14.2974	.3927	2.5465	11
13.7686	.4078	2.4523	11 ¹ / ₈
13.2721	.4230	2.3639	11 ¹ / ₄
12.8052	.4385	2.2807	11 ³ / ₈
12.3653	.4541	2.2024	11 ¹ / ₂
11.9504	.4698	2.1285	11 ⁵ / ₈
11.5583	.4858	2.0586	11 ³ / ₄
11.1874	.5019	1.9926	11 ⁷ / ₈
10.8359	.5181	1.9300	12
10.5026	.5346	1.8706	12 ¹ / ₈
10.1859	.5512	1.8142	12 ¹ / ₄
9.8849	.5680	1.7606	12 ³ / ₈
9.5983	.5850	1.7095	12 ¹ / ₂
9.3252	.6021	1.6609	12 ⁵ / ₈
9.0647	.6194	1.6145	12 ³ / ₄
8.8161	.6369	1.5702	12 ⁷ / ₈

**Note: No allowance made for couplings.

Casing Size
O.D. 7"
7.000"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
13	4.8960	.2042	.1166
13 ¹ / ₈	5.0292	.1988	.1197
13 ¹ / ₄	5.1637	.1937	.1229
13 ³ / ₈	5.2995	.1887	.1262
13 ¹ / ₂	5.4366	.1839	.1294
13 ⁵ / ₈	5.5749	.1794	.1327
13 ³ / ₄	5.7145	.1750	.1361
13 ⁷ / ₈	5.8554	.1708	.1394
14	5.9976	.1667	.1428
14 ¹ / ₈	6.1410	.1628	.1462
14 ¹ / ₄	6.2875	.1591	.1497
14 ³ / ₈	6.4317	.1555	.1531
14 ¹ / ₂	6.5790	.1520	.1566
14 ⁵ / ₈	6.7275	.1486	.1602
14 ³ / ₄	6.8773	.1454	.1637
14 ⁷ / ₈	7.0284	.1423	.1673
15	7.1808	.1393	.1710
15 ¹ / ₈	7.3344	.1363	.1746
15 ¹ / ₄	7.4893	.1335	.1783
15 ³ / ₈	7.6455	.1308	.1820
15 ¹ / ₂	7.8030	.1282	.1858
15 ⁵ / ₈	7.9617	.1256	.1896
15 ³ / ₄	8.1217	.1231	.1934
15 ⁷ / ₈	8.2830	.1207	.1972
16	8.4456	.1184	.2011

NO.122-B

BETWEEN CASING & HOLE**
Casing Size
O.D. 7"
7.000"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
8.5785	.6545	1.5279	13
8.3512	.6723	1.4874	13 ¹ / ₈
8.1336	.6903	1.4487	13 ¹ / ₄
7.9252	.7084	1.4115	13 ³ / ₈
7.7254	.7268	1.3760	13 ¹ / ₂
7.5337	.7453	1.3418	13 ⁵ / ₈
7.3497	.7639	1.3090	13 ³ / ₄
7.1728	.7828	1.2775	13 ⁷ / ₈
7.0028	.8018	1.2473	14
6.8393	.8209	1.2181	14 ¹ / ₈
6.6818	.8403	1.1901	14 ¹ / ₄
6.5301	.8598	1.1631	14 ³ / ₈
6.3840	.8795	1.1370	14 ¹ / ₂
6.2430	.8993	1.1119	14 ⁵ / ₈
6.1070	.9194	1.0877	14 ³ / ₄
5.9757	.9396	1.0643	14 ⁷ / ₈
5.8489	.9599	1.0417	15
5.7264	.9805	1.0199	15 ¹ / ₈
5.6080	1.0012	.9988	15 ¹ / ₄
5.4934	1.0221	.9784	15 ³ / ₈
5.3826	1.0431	.9587	15 ¹ / ₂
5.2752	1.0643	.9396	15 ⁵ / ₈
5.1713	1.0857	.9211	15 ³ / ₄
5.0706	1.1073	.9031	15 ⁷ / ₈
4.9730	1.1290	.8857	16

**Note: No allowance made for couplings.

Casing Size
O.D. 7⁵/₈"
7.625"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
8	.2391	4.1830	.0057
8 ¹ / ₈	.3213	3.1124	.0076
8 ¹ / ₄	.4048	2.4703	.0096
8 ³ / ₈	.4896	2.0425	.0117
8 ¹ / ₂	.5757	1.7371	.0137
8 ⁵ / ₈	.6630	1.5083	.0158
8 ³ / ₄	.7516	1.3305	.0179
8 ⁷ / ₈	.8415	1.1884	.0200
9	.9327	1.0722	.0222
9 ¹ / ₈	1.0251	.9755	.0244
9 ¹ / ₄	1.1188	.8938	.0266
9 ³ / ₈	1.2138	.8239	.0289
9 ¹ / ₂	1.3101	.7633	.0312
9 ⁵ / ₈	1.4076	.7104	.0335
9 ³ / ₄	1.5064	.6638	.0359
9 ⁷ / ₈	1.6065	.6225	.0382
10	1.7079	.5855	.0407
10 ¹ / ₈	1.8105	.5523	.0431
10 ¹ / ₄	1.9144	.5224	.0456
10 ³ / ₈	2.0196	.4951	.0481
10 ¹ / ₂	2.1261	.4704	.0506
10 ⁵ / ₈	2.2338	.4477	.0532
10 ³ / ₄	2.3428	.4268	.0558
10 ⁷ / ₈	2.4531	.4076	.0584
11	2.5647	.3899	.0611
11 ¹ / ₈	2.6775	.3735	.0637
11 ¹ / ₄	2.7916	.3582	.0665
11 ³ / ₈	2.9070	.3440	.0692
11 ¹ / ₂	3.0237	.3307	.0720
11 ⁵ / ₈	3.1416	.3183	.0748
11 ³ / ₄	3.2608	.3067	.0776
11 ⁷ / ₈	3.3813	.2957	.0805
12	3.5031	.2855	.0834
12 ¹ / ₈	3.6261	.2758	.0863
12 ¹ / ₄	3.7504	.2666	.0893
12 ³ / ₈	3.8760	.2580	.0923
12 ¹ / ₂	4.0029	.2498	.0953
12 ⁵ / ₈	4.1310	.2421	.0984
12 ³ / ₄	4.2604	.2347	.1014
12 ⁷ / ₈	4.3911	.2277	.1045
13	4.5231	.2211	.1077
13 ¹ / ₈	4.6563	.2148	.1109
13 ¹ / ₄	4.7908	.2087	.1141
13 ³ / ₈	4.9266	.2030	.1173
13 ¹ / ₂	5.0637	.1975	.1206
13 ⁵ / ₈	5.2020	.1922	.1239
13 ³ / ₄	5.3416	.1872	.1272
13 ⁷ / ₈	5.4825	.1824	.1305
14	5.6246	.1778	.1339
14 ¹ / ₈	5.7681	.1734	.1373
14 ¹ / ₄	5.9128	.1691	.1408
14 ³ / ₈	6.0588	.1650	.1443
14 ¹ / ₂	6.2060	.1611	.1478

NO.122-B

BETWEEN CASING & HOLE**

Casing Size

*O.D. 7⁵/₈"

7.625"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
175.6867	.0320	31.2911	8
130.7193	.0430	23.2821	8 ¹ / ₈
103.7520	.0541	18.4790	8 ¹ / ₄
85.7845	.0654	15.2789	8 ³ / ₈
72.9596	.0770	12.9947	8 ¹ / ₂
63.3486	.0886	11.2829	8 ⁵ / ₈
55.8800	.1005	9.9527	8 ³ / ₄
49.9110	.1125	8.8895	8 ⁷ / ₈
45.0325	.1247	8.0206	9
40.9717	.1370	7.2974	9 ¹ / ₈
37.5399	.1496	6.6861	9 ¹ / ₄
34.6022	.1623	6.1629	9 ³ / ₈
32.0596	.1751	5.7101	9 ¹ / ₂
29.8381	.1882	5.3144	9 ⁵ / ₈
27.8809	.2014	4.9658	9 ³ / ₄
26.1439	.2148	4.6564	9 ⁷ / ₈
24.5922	.2283	4.3801	10
23.1981	.2420	4.1318	10 ¹ / ₈
21.9389	.2559	3.9075	10 ¹ / ₄
20.7962	.2700	3.7040	10 ³ / ₈
19.7549	.2842	3.5185	10 ¹ / ₂
18.8021	.2986	3.3488	10 ⁵ / ₈
17.9272	.3132	3.1930	10 ³ / ₄
17.1212	.3279	3.0494	10 ⁷ / ₈
16.3765	.3428	2.9168	11
15.6863	.3579	2.7939	11 ¹ / ₈
15.0451	.3732	2.6796	11 ¹ / ₄
14.4479	.3886	2.5733	11 ³ / ₈
13.8905	.4042	2.4740	11 ¹ / ₂
13.3690	.4200	2.3811	11 ⁵ / ₈
12.8803	.4359	2.2941	11 ³ / ₄
12.4213	.4520	2.2123	11 ⁷ / ₈
11.9895	.4683	2.1354	12
11.5827	.4847	2.0630	12 ¹ / ₈
11.1988	.5014	1.9946	12 ¹ / ₄
10.8359	.5181	1.9300	12 ³ / ₈
10.4925	.5351	1.8688	12 ¹ / ₂
10.1671	.5522	1.8108	12 ⁵ / ₈
9.8582	.5695	1.7558	12 ³ / ₄
9.5648	.5870	1.7036	12 ⁷ / ₈
9.2858	.6046	1.6539	13
9.0201	.6225	1.6065	13 ¹ / ₈
8.7668	.6404	1.5614	13 ¹ / ₄
8.5252	.6586	1.5184	13 ³ / ₈
8.2944	.6769	1.4773	13 ¹ / ₂
8.0738	.6954	1.4380	13 ⁵ / ₈
7.8628	.7141	1.4004	13 ³ / ₄
7.6608	.7329	1.3644	13 ⁷ / ₈
7.4671	.75191	1.3300	14
7.2814	.7711	1.2969	14 ¹ / ₈
7.1032	.7904	1.2651	14 ¹ / ₄
6.9321	.8099	1.2347	14 ³ / ₈
6.7676	.8296	1.2054	14 ¹ / ₂

**Note: No allowance made for couplings.

Casing Size
O.D. 7³/₄"
7.750"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
8	.1606	6.2247	.0038
8 ¹ / ₈	.2429	4.1171	.0058
8 ¹ / ₄	.3264	3.0637	.0078
8 ³ / ₈	.4112	2.4320	.0098
8 ¹ / ₂	.4972	2.0111	.0118
8 ⁵ / ₈	.5846	1.7106	.0139
8 ³ / ₄	.6732	1.4854	.0160
8 ⁷ / ₈	.7631	1.3105	.0182
9	.8542	1.1706	.0203
9 ¹ / ₈	.9467	1.0563	.0225
9 ¹ / ₄	1.0404	.9612	.0248
9 ³ / ₈	1.1354	.8808	.0270
9 ¹ / ₂	1.2316	.8119	.0293
9 ⁵ / ₈	1.3292	.7523	.0316
9 ³ / ₄	1.4280	.7003	.0340
9 ⁷ / ₈	1.5281	.6544	.0364
10	1.6294	.6137	.0388
10 ¹ / ₈	1.7321	.5773	.0412
10 ¹ / ₄	1.8360	.5447	.0437
10 ³ / ₈	1.9412	.5152	.0462
10 ¹ / ₂	2.0476	.4884	.0488
10 ⁵ / ₈	2.1554	.4640	.0513
10 ³ / ₄	2.2644	.4416	.0539
10 ⁷ / ₈	2.3747	.4211	.0565
11	2.4862	.4022	.0592
11 ¹ / ₈	2.5991	.3848	.0619
11 ¹ / ₄	2.7132	.3686	.0646
11 ³ / ₈	2.8286	.3535	.0673
11 ¹ / ₂	2.9452	.3395	.0701
11 ⁵ / ₈	3.0632	.3265	.0729
11 ³ / ₄	3.1824	.3142	.0758
11 ⁷ / ₈	3.3029	.3028	.0786
12	3.4246	.2920	.0815
12 ¹ / ₈	3.5477	.2819	.0845
12 ¹ / ₄	3.6720	.2723	.0874
12 ³ / ₈	3.7976	.2633	.0904
12 ¹ / ₂	3.9244	.2548	.0934
12 ⁵ / ₈	4.0526	.2468	.0965
12 ³ / ₄	4.1820	.2391	.0996
12 ⁷ / ₈	4.3127	.2319	.1027
13	4.4446	.2250	.1058
13 ¹ / ₈	4.5779	.2184	.1090
13 ¹ / ₄	4.7124	.2122	.1122
13 ³ / ₈	4.8482	.2063	.1154
13 ¹ / ₂	4.9852	.2006	.1187
13 ⁵ / ₈	5.1236	.1952	.1220
13 ³ / ₄	5.2632	.1900	.1253
13 ⁷ / ₈	5.4041	.1850	.1287
14	5.5462	.1803	.1321
14 ¹ / ₈	5.6897	.1758	.1355
14 ¹ / ₄	5.8344	.1714	.1389
14 ³ / ₈	5.9804	.1672	.1424
14 ¹ / ₂	6.1276	.1632	.1459

NO.122-B

BETWEEN CASING & HOLE**Casing Size
O.D. 7³/₄"
7.750"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
261.4386	.0215	46.5642	8
172.9201	.0325	30.7984	8 ¹ / ₈
128.6769	.0436	22.9183	8 ¹ / ₄
102.1435	.0550	18.1925	8 ³ / ₈
84.4648	.0665	15.0438	8 ¹ / ₂
71.8457	.0781	12.7963	8 ⁵ / ₈
62.3888	.0900	11.1119	8 ³ / ₄
55.0397	.1020	9.8030	8 ⁷ / ₈
49.1661	.1142	8.7569	9
44.3653	.1266	7.9018	9 ¹ / ₈
40.3692	.1391	7.1901	9 ¹ / ₄
36.9919	.1518	6.5885	9 ³ / ₈
34.1007	.1646	6.0736	9 ¹ / ₂
31.5983	.1777	5.6279	9 ⁵ / ₈
29.4118	.1909	5.2385	9 ³ / ₄
27.4854	.2043	4.8954	9 ⁷ / ₈
25.7756	.2178	4.5908	10
24.2483	.2315	4.3188	10 ¹ / ₈
22.8759	.2454	4.0744	10 ¹ / ₄
21.6363	.2595	3.8536	10 ³ / ₈
20.5114	.2737	3.6532	10 ¹ / ₂
19.4861	.2881	3.4706	10 ⁵ / ₈
18.5480	.3027	3.3035	10 ³ / ₄
17.6866	.3174	3.1501	10 ⁷ / ₈
16.8930	.3324	3.0088	11
16.1596	.3474	2.8781	11 ¹ / ₈
15.4799	.3627	2.7571	11 ¹ / ₄
14.8484	.3781	2.6446	11 ³ / ₈
14.2603	.3937	2.5399	11 ¹ / ₂
13.7112	.4095	2.4421	11 ⁵ / ₈
13.1976	.4254	2.3506	11 ³ / ₄
12.7162	.4415	2.2648	11 ⁷ / ₈
12.2641	.4578	2.1843	12
11.8387	.4743	2.1086	12 ¹ / ₈
11.4379	.4909	2.0372	12 ¹ / ₄
11.0597	.5077	1.9698	12 ³ / ₈
10.7022	.5246	1.9061	12 ¹ / ₂
10.3638	.5418	1.8459	12 ⁵ / ₈
10.0431	.5591	1.7887	12 ³ / ₄
9.7387	.5765	1.7345	12 ⁷ / ₈
9.4496	.5942	1.6830	13
9.1746	.6120	1.6341	13 ¹ / ₈
8.9127	.6300	1.5874	13 ¹ / ₄
8.6631	.6481	1.5430	13 ³ / ₈
8.4249	.6664	1.5005	13 ¹ / ₂
8.1974	.6849	1.4600	13 ⁵ / ₈
7.9800	.7036	1.4213	13 ³ / ₄
7.7719	.7224	1.3842	13 ⁷ / ₈
7.5727	.7414	1.3488	14
7.3818	.7606	1.3148	14 ¹ / ₈
7.1987	.7799	1.2821	14 ¹ / ₄
7.0230	.7995	1.2508	14 ³ / ₈
6.8542	.8191	1.2208	14 ¹ / ₂

**Note: No allowance made for couplings.

Casing Size
O.D. 8"
8.000"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
8 ¹ / ₂	.3366	2.9709	.0080
8 ⁵ / ₈	.4239	2.3588	.0101
8 ³ / ₄	.5125	1.9510	.0122
8 ⁷ / ₈	.6024	1.6599	.0143
9	.6936	1.4418	.0165
9 ¹ / ₈	.7860	1.2722	.0187
9 ¹ / ₄	.8797	1.1367	.0209
9 ³ / ₈	.9747	1.0259	.0232
9 ¹ / ₂	1.0710	.9337	.0255
9 ⁵ / ₈	1.1685	.8558	.0278
9 ³ / ₄	1.2673	.7890	.0302
9 ⁷ / ₈	1.3674	.7313	.0326
10	1.4688	.6808	.0350
10 ¹ / ₈	1.5714	.6364	.0374
10 ¹ / ₄	1.6753	.5969	.0399
10 ³ / ₈	1.7805	.5616	.0424
10 ¹ / ₂	1.8870	.5299	.0449
10 ⁵ / ₈	1.9470	.5013	.0475
10 ³ / ₄	2.1037	.4753	.0501
10 ⁷ / ₈	2.2140	.4517	.0527
11	2.3256	.4300	.0554
11 ¹ / ₈	2.4384	.4101	.0581
11 ¹ / ₄	2.5525	.3918	.0608
11 ³ / ₈	2.6679	.3748	.0635
11 ¹ / ₂	2.7846	.3591	.0663
11 ⁵ / ₈	2.9025	.3445	.0691
11 ³ / ₄	3.0217	.3309	.0719
11 ⁷ / ₈	3.1422	.3182	.0748
12	3.2640	.3064	.0777
12 ¹ / ₈	3.3870	.2952	.0806
12 ¹ / ₄	3.5113	.2848	.0836
12 ³ / ₈	3.6369	.2750	.0866
12 ¹ / ₂	3.7638	.2657	.0896
12 ⁵ / ₈	3.8919	.2569	.0927
12 ³ / ₄	4.0213	.2487	.0957
12 ⁷ / ₈	4.1520	.2408	.0989
13	4.2840	.2334	.1020
13 ¹ / ₈	4.4172	.2264	.1052
13 ¹ / ₄	4.5517	.2197	.1084
13 ³ / ₈	4.6875	.2133	.1116
13 ¹ / ₂	4.8246	.2073	.1149
13 ⁵ / ₈	4.9629	.2015	.1182
13 ³ / ₄	5.1025	.1960	.1215
13 ⁷ / ₈	5.2434	.1907	.1248
14	5.3856	.1857	.1282
14 ¹ / ₈	5.5290	.1809	.1316
14 ¹ / ₄	5.6737	.1763	.1351
14 ³ / ₈	5.8197	.1718	.1386
14 ¹ / ₂	5.9670	.1676	.1421

NO.122-B

BETWEEN CASING & HOLE**
Casing Size
O.D. 8"
8.000"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
124.7775	.0450	22.2238	8 ¹ / ₂
99.0714	.0567	17.6454	8 ⁵ / ₈
81.9434	.0685	14.5947	8 ³ / ₄
69.7169	.0805	12.4171	8 ⁷ / ₈
60.5538	.0927	10.7851	9
53.4327	.1051	9.5168	9 ¹ / ₈
47.7409	.1176	8.5030	9 ¹ / ₄
43.0886	.1303	7.6744	9 ³ / ₈
39.2158	.1432	6.9846	9 ¹ / ₂
35.9424	.1562	6.4016	9 ⁵ / ₈
33.1401	.1694	5.9025	9 ³ / ₄
30.7145	.1828	5.4705	9 ⁷ / ₈
28.5948	.1963	5.0930	10
26.7272	.2101	4.7603	10 ¹ / ₈
25.0694	.2240	4.4651	10 ¹ / ₄
23.5884	.2380	4.2013	10 ³ / ₈
22.2576	.2523	3.9642	10 ¹ / ₂
21.0555	.2667	3.7501	10 ⁵ / ₈
19.9644	.2812	3.5558	10 ³ / ₄
18.9699	.2960	3.3787	10 ⁷ / ₈
18.0599	.3109	3.2166	11
17.2242	.3260	3.0678	11 ¹ / ₈
16.4542	.3412	2.9306	11 ¹ / ₄
15.7425	.3567	2.8039	11 ³ / ₈
15.0830	.3722	2.6864	11 ¹ / ₂
14.4701	.3880	2.5772	11 ⁵ / ₈
13.8993	.4039	2.4756	11 ³ / ₄
13.3663	.4201	2.3806	11 ⁷ / ₈
12.8677	.4363	2.2918	12
12.4002	.4528	2.2086	12 ¹ / ₈
11.9612	.4694	2.1304	12 ¹ / ₄
11.5482	.4862	2.0568	12 ³ / ₈
11.1590	.5031	1.9875	12 ¹ / ₂
10.7916	.5203	1.9221	12 ⁵ / ₈
10.4443	.5376	1.8602	12 ³ / ₄
10.1155	.5550	1.8017	12 ⁷ / ₈
9.8039	.5727	1.7462	13
9.5082	.5905	1.6935	13 ¹ / ₈
9.2272	.6085	1.6434	13 ¹ / ₄
8.9599	.6266	1.5958	13 ³ / ₈
8.7054	.6450	1.5505	13 ¹ / ₂
8.4627	.6634	1.5073	13 ⁵ / ₈
8.2312	.6821	1.4660	13 ³ / ₄
8.0100	.7009	1.4266	13 ⁷ / ₈
7.7986	.7199	1.3890	14
7.5963	.7391	1.3530	14 ¹ / ₈
7.4025	.7585	1.3184	14 ¹ / ₄
7.2168	.7780	1.2854	14 ³ / ₈
7.0387	.7977	1.2537	14 ¹ / ₂

**Note: No allowance made for couplings.

Casing Size
O.D. 8¹/₈"
8.125"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
8 ¹ / ₂	.2544	3.9314	.0061
8 ⁵ / ₈	.3417	2.9266	.0081
8 ³ / ₄	.4303	2.3239	.0102
8 ⁷ / ₈	.5202	1.9223	.0124
9	.6114	1.6357	.0146
9 ¹ / ₈	.7038	1.4209	.0168
9 ¹ / ₄	.7975	1.2539	.0190
9 ³ / ₈	.8925	1.1205	.0212
9 ¹ / ₂	.9888	1.0114	.0235
9 ⁵ / ₈	1.0863	.9206	.0259
9 ³ / ₄	1.1851	.8438	.0282
9 ⁷ / ₈	1.2852	.7781	.0306
10	1.3866	.7212	.0330
10 ¹ / ₈	1.4892	.6715	.0355
10 ¹ / ₄	1.5931	.6277	.0379
10 ³ / ₈	1.6983	.5888	.0404
10 ¹ / ₂	1.8048	.5541	.0430
10 ⁵ / ₈	1.9125	.5229	.0455
10 ³ / ₄	2.0215	.4947	.0481
10 ⁷ / ₈	2.1318	.4691	.0508
11	2.2434	.4458	.0534
11 ¹ / ₈	2.3562	.4244	.0561
11 ¹ / ₄	2.4703	.4048	.0588
11 ³ / ₈	2.5857	.3867	.0616
11 ¹ / ₂	2.7024	.3700	.0643
11 ⁵ / ₈	2.8203	.3546	.0671
11 ³ / ₄	2.9395	.3402	.0700
11 ⁷ / ₈	3.0600	.3268	.0729
12	3.1818	.3143	.0758
12 ¹ / ₈	3.3048	.3026	.0787
12 ¹ / ₄	3.4291	.2916	.0816
12 ³ / ₈	3.5547	.2813	.0846
12 ¹ / ₂	3.6816	.2716	.0877
12 ⁵ / ₈	3.8097	.2625	.0907
12 ³ / ₄	3.9391	.2539	.0938
12 ⁷ / ₈	4.0698	.2457	.0969
13	4.2018	.2380	.1000
13 ¹ / ₈	4.3350	.2307	.1032
13 ¹ / ₄	4.4695	.2237	.1064
13 ³ / ₈	4.6053	.2171	.1096
13 ¹ / ₂	4.7424	.2109	.1129
13 ⁵ / ₈	4.8807	.2049	.1162
13 ³ / ₄	5.0203	.1992	.1195
13 ⁷ / ₈	5.1612	.1938	.1229
14	5.3034	.1886	.1263
14 ¹ / ₈	5.4468	.1836	.1297
14 ¹ / ₄	5.5915	.1788	.1331
14 ³ / ₈	5.7375	.1743	.1366
14 ¹ / ₂	5.8847	.1699	.1401

NO.122-B

BETWEEN CASING & HOLE**
Casing Size
O.D. 8¹/₈"
8.125"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
165.1191	.0340	29.4090	8 ¹ / ₂
122.9151	.0457	21.8921	8 ⁵ / ₈
97.6037	.0575	17.3840	8 ³ / ₄
80.7384	.0695	14.3801	8 ⁷ / ₈
68.6992	.0817	12.2358	9
59.6762	.0941	10.6288	9 ¹ / ₈
52.6639	.1066	9.3798	9 ¹ / ₄
47.0589	.1193	8.3816	9 ³ / ₈
42.4774	.1322	7.5656	9 ¹ / ₂
38.6634	.1452	6.8863	9 ⁵ / ₈
35.4398	.1584	6.3121	9 ³ / ₄
32.6798	.1718	5.8205	9 ⁷ / ₈
30.2908	.1854	5.3950	10
28.2031	.1991	5.0232	10 ¹ / ₈
26.3635	.2130	4.6955	10 ¹ / ₄
24.7307	.2270	4.4047	10 ³ / ₈
23.2718	.2413	4.1449	10 ¹ / ₂
21.9608	.2557	3.9114	10 ⁵ / ₈
20.7766	.2702	3.7005	10 ³ / ₄
19.7017	.2850	3.5090	10 ⁷ / ₈
18.7219	.2999	3.3345	11
17.8254	.3150	3.1748	11 ¹ / ₈
17.0019	.3302	3.0282	11 ¹ / ₄
16.2432	.3457	2.8930	11 ³ / ₈
15.5420	.3613	2.7681	11 ¹ / ₂
14.8921	.3770	2.6524	11 ⁵ / ₈
14.2881	.3930	2.5448	11 ³ / ₄
13.7255	.4091	2.4446	11 ⁷ / ₈
13.2003	.4253	2.3511	12
12.7088	.4418	2.2635	12 ¹ / ₈
12.2481	.4584	2.1815	12 ¹ / ₄
11.8154	.4752	2.1044	12 ³ / ₈
11.4082	.4922	2.0319	12 ¹ / ₂
11.0245	.5093	1.9636	12 ⁵ / ₈
10.6623	.5266	1.8990	12 ³ / ₄
10.3199	.5441	1.8381	12 ⁷ / ₈
9.9958	.5617	1.7803	13
9.6886	.5795	1.7256	13 ¹ / ₈
9.3970	.5975	1.6737	13 ¹ / ₄
9.1199	.6156	1.6243	13 ³ / ₈
8.8564	.6340	1.5774	13 ¹ / ₂
8.6053	.6525	1.5327	13 ⁵ / ₈
8.3660	.6711	1.4901	13 ³ / ₄
8.1377	.6900	1.4494	13 ⁷ / ₈
7.9195	.7090	1.4105	14
7.7110	.7281	1.3734	14 ¹ / ₈
7.5114	.7475	1.3378	14 ¹ / ₄
7.3203	.7670	1.3038	14 ³ / ₈
7.1371	.7867	1.2712	14 ¹ / ₂

**Note: No allowance made for couplings.

Casing Size
O.D. 8⁵/₈"
8.625"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
9	.2697	3.7083	.0064
9 ¹ / ₈	.3621	2.7617	.0086
9 ¹ / ₄	.4558	2.1939	.0109
9 ³ / ₈	.5508	1.8155	.0131
9 ¹ / ₂	.6471	1.5454	.0154
9 ⁵ / ₈	.7446	1.3430	.0177
9 ³ / ₄	.8434	1.1857	.0201
9 ⁷ / ₈	.9435	1.0599	.0225
10	1.0449	.9571	.0249
10 ¹ / ₈	1.1475	.8715	.0273
10 ¹ / ₄	1.2514	.7991	.0298
10 ³ / ₈	1.3566	.7371	.0323
10 ¹ / ₂	1.4631	.6835	.0348
10 ⁵ / ₈	1.5708	.6366	.0374
10 ³ / ₄	1.6798	.5953	.0400
10 ⁷ / ₈	1.7901	.5586	.0426
11	1.9017	.5259	.0453
11 ¹ / ₈	2.0145	.4964	.0480
11 ¹ / ₄	2.1286	.4698	.0507
11 ³ / ₈	2.2440	.4456	.0534
11 ¹ / ₂	2.3607	.4236	.0562
11 ⁵ / ₈	2.4786	.4035	.0590
11 ³ / ₄	2.5978	.3849	.0619
11 ⁷ / ₈	2.7183	.3679	.0647
12	2.8401	.3521	.0676
12 ¹ / ₈	2.9631	.3375	.0705
12 ¹ / ₄	3.0874	.3239	.0735
12 ³ / ₈	3.2130	.3112	.0765
12 ¹ / ₂	3.3399	.2994	.0795
12 ⁵ / ₈	3.4680	.2884	.0826
12 ³ / ₄	3.5974	.2780	.0857
12 ⁷ / ₈	3.7281	.2682	.0888
13	3.8601	.2591	.0919
13 ¹ / ₈	3.9933	.2504	.0951
13 ¹ / ₄	4.1278	.2423	.0983
13 ³ / ₈	4.2636	.2345	.1015
13 ¹ / ₂	4.4007	.2272	.1048
13 ⁵ / ₈	4.5390	.2203	.1081
13 ³ / ₄	4.6786	.2137	.1114
13 ⁷ / ₈	4.8195	.2075	.1147
14	4.9617	.2015	.1181
14 ¹ / ₈	5.1051	.1959	.1215
14 ¹ / ₄	5.2498	.1905	.1250
14 ³ / ₈	5.3958	.1853	.1285
14 ¹ / ₂	5.5430	.1804	.1320
14 ⁵ / ₈	5.6916	.1757	.1355
14 ³ / ₄	5.8414	.1712	.1391
14 ⁷ / ₈	5.9925	.1669	.1427
15	6.1448	.1627	.1463

NO.122-B

BETWEEN CASING & HOLE**
Casing Size
O.D. 8⁵/₈"
8.625"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
155.7506	.0360	27.7404	9
115.9903	.0484	20.6588	9 ¹ / ₈
92.1434	.0609	16.4114	9 ¹ / ₄
76.2529	.0736	13.5812	9 ³ / ₈
64.9089	.0865	11.5608	9 ¹ / ₂
56.4063	.0995	10.0464	9 ⁵ / ₈
49.7978	.1127	8.8694	9 ³ / ₄
44.5152	.1261	7.9285	9 ⁷ / ₈
40.1968	.1397	7.1594	10
36.6014	.1534	6.5190	10 ¹ / ₈
33.5622	.1673	5.9777	10 ¹ / ₄
30.9598	.1814	5.5142	10 ³ / ₈
28.7070	.1956	5.1129	10 ¹ / ₂
26.7380	.2100	4.7622	10 ⁵ / ₈
25.0028	.2246	4.4532	10 ³ / ₄
23.4624	.2393	4.1788	10 ⁷ / ₈
22.0860	.2542	3.9337	11
20.8489	.2693	3.7133	11 ¹ / ₈
19.7312	.2846	3.5143	11 ¹ / ₄
18.7166	.3000	3.3336	11 ³ / ₈
17.7917	.3156	3.1688	11 ¹ / ₂
16.9451	.3313	3.0180	11 ⁵ / ₈
16.1675	.3473	2.8796	11 ³ / ₄
15.4509	.3634	2.7519	11 ⁷ / ₈
14.7884	.3797	2.6339	12
14.1744	.3961	2.5246	12 ¹ / ₈
13.6037	.4127	2.4229	12 ¹ / ₄
13.0719	.4295	2.3282	12 ³ / ₈
12.5754	.4465	2.2398	12 ¹ / ₂
12.1108	.4636	2.1570	12 ⁵ / ₈
11.6751	.4809	2.0794	12 ³ / ₄
11.2658	.4984	2.0065	12 ⁷ / ₈
10.8807	.5160	1.9379	13
10.5176	.5338	1.8733	13 ¹ / ₈
10.1749	.5518	1.8122	13 ¹ / ₄
9.8509	.5700	1.7545	13 ³ / ₈
9.5440	.5883	1.6999	13 ¹ / ₂
9.2532	.6068	1.6481	13 ⁵ / ₈
8.9770	.6254	1.5989	13 ³ / ₄
8.7146	.6443	1.5521	13 ⁷ / ₈
8.4649	.6633	1.5077	14
8.2271	.6825	1.4653	14 ¹ / ₈
8.0003	.7018	1.4249	14 ¹ / ₄
7.7839	.7213	1.3864	14 ³ / ₈
7.5771	.7410	1.3495	14 ¹ / ₂
7.3793	.7609	1.3143	14 ⁵ / ₈
7.1901	.7809	1.2806	14 ³ / ₄
7.0088	.8011	1.2483	14 ⁷ / ₈
6.8350	.8214	1.2174	15

**Note: No allowance made for couplings.

Casing Size
***O.D. 9"**
9.000"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
9 ¹ / ₈	.0924	10.8181	.0022
9 ¹ / ₄	.1861	5.3720	.0044
9 ³ / ₈	.2811	3.5570	.0067
9 ¹ / ₂	.3774	2.6497	.0090
9 ⁵ / ₈	.4749	2.1055	.0113
9 ³ / ₄	.5737	1.7429	.0137
9 ⁷ / ₈	.6738	1.4840	.0160
10	.7752	1.2900	.0185
10 ¹ / ₈	.8778	1.1392	.0209
10 ¹ / ₄	.9817	1.0186	.0234
10 ³ / ₈	1.0869	.9200	.0259
10 ¹ / ₂	1.1934	.8379	.0284
10 ⁵ / ₈	1.3011	.7686	.0310
10 ³ / ₄	1.4101	.7091	.0336
10 ⁷ / ₈	1.5204	.6577	.0362
11	1.6320	.6127	.0389
11 ¹ / ₈	1.7448	.5731	.0415
11 ¹ / ₄	1.8589	.5379	.0443
11 ³ / ₈	1.9743	.5065	.0470
11 ¹ / ₂	2.0910	.4782	.0498
11 ⁵ / ₈	2.2089	.4527	.0526
11 ³ / ₄	2.3281	.4295	.0554
11 ⁷ / ₈	2.4486	.4084	.0583
12	2.5704	.3890	.0612
12 ¹ / ₈	2.6934	.3713	.0641
12 ¹ / ₄	2.8177	.3549	.0671
12 ³ / ₈	2.9433	.3398	.0701
12 ¹ / ₂	3.0702	.3257	.0731
12 ⁵ / ₈	3.1983	.3127	.0762
12 ³ / ₄	3.3277	.3005	.0792
12 ⁷ / ₈	3.4584	.2891	.0823
13	3.5904	.2785	.0855
13 ¹ / ₈	3.7236	.2686	.0887
13 ¹ / ₄	3.8581	.2592	.0919
13 ³ / ₈	3.9939	.2504	.0951
13 ¹ / ₂	4.1310	.2421	.0984
13 ⁵ / ₈	4.2693	.2342	.1017
13 ³ / ₄	4.4089	.2268	.1050
13 ⁷ / ₈	4.5498	.2198	.1083
14	4.6920	.2131	.1117
14 ¹ / ₈	4.8354	.2068	.1151
14 ¹ / ₄	4.9801	.2008	.1186
14 ³ / ₈	5.1261	.1951	.1221
14 ¹ / ₂	5.2734	.1896	.1256
14 ⁵ / ₈	5.4219	.1844	.1291
14 ³ / ₄	5.5717	.1795	.1327
14 ⁷ / ₈	5.7228	.1747	.1363
15	5.8752	.1702	.1399

NO.122-B

BETWEEN CASING & HOLE**
Casing Size
***O.D. 9"**
9.000"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
454.3622	.0124	80.9254	9 ¹ / ₈
225.6250	.0249	40.1855	9 ¹ / ₄
149.3934	.0376	26.6081	9 ³ / ₈
111.2880	.0505	19.8212	9 ¹ / ₂
88.4329	.0635	15.7506	9 ⁵ / ₈
73.2028	.0767	13.0380	9 ³ / ₄
62.3297	.0901	11.1014	9 ⁷ / ₈
54.1797	.1036	9.6498	10
47.8450	.1173	8.5216	10 ¹ / ₈
42.7808	.1312	7.6196	10 ¹ / ₄
38.6408	.1453	6.8822	10 ³ / ₈
35.1936	.1595	6.2683	10 ¹ / ₂
32.2795	.1739	5.7492	10 ⁵ / ₈
29.7841	.1885	5.3048	10 ³ / ₄
27.6237	.2033	4.9200	10 ⁷ / ₈
25.7354	.2182	4.5837	11
24.0711	.2333	4.2872	11 ¹ / ₈
22.5935	.2485	4.0241	11 ¹ / ₄
21.2730	.2639	3.7889	11 ³ / ₈
20.0861	.2795	3.5775	11 ¹ / ₂
19.0137	.2953	3.3865	11 ⁵ / ₈
18.0401	.3112	3.2131	11 ³ / ₄
17.1524	.3273	3.0550	11 ⁷ / ₈
16.3399	.3436	2.9103	12
15.5935	.3601	2.7773	12 ¹ / ₈
14.9055	.3767	2.6548	12 ¹ / ₄
14.2695	.3935	2.5415	12 ³ / ₈
13.6799	.4104	2.4365	12 ¹ / ₂
13.1319	.4276	2.3389	12 ⁵ / ₈
12.6212	.4449	2.2479	12 ³ / ₄
12.1442	.4623	2.1630	12 ⁷ / ₈
11.6979	.4800	2.0835	13
11.2793	.4978	2.0089	13 ¹ / ₈
10.8861	.5158	1.9389	13 ¹ / ₄
10.5160	.5339	1.8730	13 ³ / ₈
10.1671	.5522	1.8108	13 ¹ / ₂
9.8376	.5707	1.7522	13 ⁵ / ₈
9.5261	.5894	1.6967	13 ³ / ₄
9.2311	.6082	1.6441	13 ⁷ / ₈
8.9514	.6272	1.5943	14
8.6859	.6464	1.5470	14 ¹ / ₈
8.4335	.6657	1.5021	14 ¹ / ₄
8.1933	.6853	1.4593	14 ³ / ₈
7.9645	.7049	1.4185	14 ¹ / ₂
7.7463	.7248	1.3797	14 ⁵ / ₈
7.5380	.7448	1.3426	14 ³ / ₄
7.3390	.7650	1.3071	14 ⁷ / ₈
7.1487	.7854	1.2732	15

**Note: No allowance made for couplings.

Casing Size
O.D. 9⁵/₈"
9.625"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
10	.3003	3.3304	.0071
10 ¹ / ₈	.4029	2.4820	.0096
10 ¹ / ₄	.5068	1.9731	.0121
10 ³ / ₈	.6120	1.6340	.0146
10 ¹ / ₂	.7185	1.3919	.0171
10 ⁵ / ₈	.8262	1.2104	.0197
10 ³ / ₄	.9352	1.0693	.0223
10 ⁷ / ₈	1.0455	.9565	.0249
11	1.1571	.8643	.0275
11 ¹ / ₈	1.2699	.7875	.0302
11 ¹ / ₄	1.3840	.7225	.0330
11 ³ / ₈	1.4994	.6669	.0357
11 ¹ / ₂	1.6161	.6188	.0385
11 ⁵ / ₈	1.7340	.5767	.0413
11 ³ / ₄	1.8532	.5396	.0441
11 ⁷ / ₈	1.9737	.5067	.0470
12	2.0955	.4772	.0499
12 ¹ / ₈	2.2185	.4508	.0528
12 ¹ / ₄	2.3428	.4268	.0558
12 ³ / ₈	2.4684	.4051	.0588
12 ¹ / ₂	2.5953	.3853	.0618
12 ⁵ / ₈	2.7234	.3672	.0648
12 ³ / ₄	2.8528	.3505	.0679
12 ⁷ / ₈	2.9835	.3352	.0710
13	3.1155	.3210	.0742
13 ¹ / ₈	3.2487	.3078	.0773
13 ¹ / ₄	3.3832	.2956	.0806
13 ³ / ₈	3.5190	.2842	.0838
13 ¹ / ₂	3.6561	.2735	.0870
13 ⁵ / ₈	3.7944	.2635	.0903
13 ³ / ₄	3.9340	.2542	.0937
13 ⁷ / ₈	4.0749	.2454	.0970
14	4.2171	.2371	.1004
14 ¹ / ₈	4.3605	.2293	.1038
14 ¹ / ₄	4.5052	.2220	.1073
14 ³ / ₈	4.6512	.2150	.1107
14 ¹ / ₂	4.7985	.2084	.1142
14 ⁵ / ₈	4.9470	.2021	.1178
14 ³ / ₄	5.0968	.1962	.1214
14 ⁷ / ₈	5.2479	.1906	.1249
15	5.4002	.1852	.1286
15 ¹ / ₈	5.5539	.1801	.1322
15 ¹ / ₄	5.7088	.1752	.1359
15 ³ / ₈	5.8650	.1705	.1396
15 ¹ / ₂	6.0224	.1660	.1434
15 ⁵ / ₈	6.1812	.1618	.1472
15 ³ / ₄	6.3412	.1577	.1510
15 ⁷ / ₈	6.5025	.1538	.1548
16	6.6650	.1500	.1587

NO.122-B

BETWEEN CASING & HOLE**
Casing Size
O.D. 9⁵/₈"
9.625"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
139.8779	.0401	24.9133	10
104.2445	.0539	18.5667	10 ¹ / ₈
82.8711	.0678	14.7600	10 ¹ / ₄
68.6276	.0818	12.2231	10 ³ / ₈
58.4583	.0960	10.4119	10 ¹ / ₂
50.8353	.1104	9.0541	10 ⁵ / ₈
44.9097	.1250	7.9988	10 ³ / ₄
40.1723	.1398	7.1550	10 ⁷ / ₈
36.2989	.1547	6.4651	11
33.0735	.1698	5.8907	11 ¹ / ₈
30.3466	.1850	5.4050	11 ¹ / ₄
28.0113	.2004	4.9890	11 ³ / ₈
25.9892	.2160	4.6289	11 ¹ / ₂
24.2215	.2318	4.3140	11 ⁵ / ₈
22.6634	.2477	4.0365	11 ³ / ₄
21.2799	.2638	3.7901	11 ⁷ / ₈
20.0434	.2801	3.5699	12
18.9318	.2966	3.3719	12 ¹ / ₈
17.9272	.3132	3.1930	12 ¹ / ₄
17.0151	.3300	3.0305	12 ³ / ₈
16.1834	.3469	2.8824	12 ¹ / ₂
15.4219	.3641	2.7468	12 ⁵ / ₈
14.7223	.3814	2.6222	12 ³ / ₄
14.0775	.3988	2.5073	12 ⁷ / ₈
13.4812	.4165	2.4011	13
12.9283	.4343	2.3026	13 ¹ / ₈
12.4143	.4523	2.2111	13 ¹ / ₄
11.9352	.4704	2.1258	13 ³ / ₈
11.4878	.4887	2.0461	13 ¹ / ₂
11.0690	.5072	1.9715	13 ⁵ / ₈
10.6761	.5259	1.9015	13 ³ / ₄
10.3070	.5447	1.8358	13 ⁷ / ₈
9.9596	.5637	1.7739	14
9.6319	.5829	1.7155	14 ¹ / ₈
9.3226	.6023	1.6604	14 ¹ / ₄
9.0299	.6218	1.6083	14 ³ / ₈
8.7528	.6415	1.5589	14 ¹ / ₂
8.4900	.6613	1.5121	14 ⁵ / ₈
8.2405	.6813	1.4677	14 ³ / ₄
8.0032	.7015	1.4254	14 ⁷ / ₈
7.7774	.7219	1.3852	15
7.5623	.7424	1.3469	15 ¹ / ₈
7.3571	.7632	1.3103	15 ¹ / ₄
7.1611	.7840	1.2755	15 ³ / ₈
6.9739	.8051	1.2421	15 ¹ / ₂
6.7948	.8263	1.2102	15 ⁵ / ₈
6.6234	.8477	1.1797	15 ³ / ₄
6.4591	.8693	1.1504	15 ⁷ / ₈
6.3015	.8910	1.1224	16

**Note: No allowance made for couplings.

Casing Size
*O.D. 10"
10.000"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
10 ¹ / ₈	.1026	9.7430	.0024
10 ¹ / ₄	.2065	4.8415	.0049
10 ³ / ₈	.3117	3.2078	.0074
10 ¹ / ₂	.4182	2.3912	.0100
10 ⁵ / ₈	.5259	1.9014	.0125
10 ³ / ₄	.6349	1.5749	.0151
10 ⁷ / ₈	.7452	1.3419	.0177
11	.8568	1.1671	.0204
11 ¹ / ₈	.9696	1.0313	.0231
11 ¹ / ₄	1.0837	.9227	.0258
11 ³ / ₈	1.1991	.8339	.0286
11 ¹ / ₂	1.3158	.7600	.0313
11 ⁵ / ₈	1.4337	.6975	.0341
11 ³ / ₄	1.5529	.6439	.0370
11 ⁷ / ₈	1.6734	.5976	.0398
12	1.7952	.5570	.0427
12 ¹ / ₈	1.9182	.5213	.0457
12 ¹ / ₄	2.0425	.4896	.0486
12 ³ / ₈	2.1681	.4612	.0516
12 ¹ / ₂	2.2950	.4357	.0546
12 ⁵ / ₈	2.4231	.4127	.0577
12 ³ / ₄	2.5525	.3918	.0608
12 ⁷ / ₈	2.6832	.3727	.0639
13	2.8152	.3552	.0670
13 ¹ / ₈	2.9484	.3392	.0702
13 ¹ / ₄	3.0829	.3244	.0734
13 ³ / ₈	3.2187	.3107	.0766
13 ¹ / ₂	3.3558	.2980	.0799
13 ⁵ / ₈	3.4941	.2862	.0832
13 ³ / ₄	3.6337	.2752	.0865
13 ⁷ / ₈	3.7746	.2649	.0899
14	3.9168	.2553	.0933
14 ¹ / ₈	4.0602	.2463	.0967
14 ¹ / ₄	4.2049	.2378	.1001
14 ³ / ₈	4.3509	.2298	.1036
14 ¹ / ₂	4.4982	.2223	.1071
14 ⁵ / ₈	4.6467	.2152	.1106
14 ³ / ₄	4.7965	.2085	.1142
14 ⁷ / ₈	4.9476	.2021	.1178
15	5.1000	.1961	.1214
15 ¹ / ₈	5.2536	.1903	.1251
15 ¹ / ₄	5.4085	.1849	.1288
15 ³ / ₈	5.5647	.1797	.1325
15 ¹ / ₂	5.7222	.1748	.1362
15 ⁵ / ₈	5.8809	.1700	.1400
15 ³ / ₄	6.0409	.1655	.1438
15 ⁷ / ₈	6.2022	.1612	.1477
16	6.3648	.1571	.1515

NO.122-B

Casing Size
*O.D. 10"
10.000"

BETWEEN CASING & HOLE**

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
409.2081	.0137	72.8831	10 ¹ / ₈
203.3411	.0276	36.2166	10 ¹ / ₄
134.7291	.0417	23.9963	10 ³ / ₈
100.4307	.0559	17.8875	10 ¹ / ₂
79.8576	.0703	14.2232	10 ⁵ / ₈
66.1471	.0849	11.7813	10 ³ / ₄
56.3580	.0996	10.0378	10 ⁷ / ₈
49.0197	.1145	8.7308	11
43.3153	.1296	7.7148	11 ¹ / ₈
38.7544	.1449	6.9025	11 ¹ / ₄
35.0253	.1603	6.2383	11 ³ / ₈
31.9198	.1759	5.6852	11 ¹ / ₂
29.2941	.1917	5.2175	11 ⁵ / ₈
27.0454	.2076	4.8170	11 ³ / ₄
25.0981	.2237	4.4702	11 ⁷ / ₈
23.3958	.2400	4.1670	12
21.8952	.2564	3.8997	12 ¹ / ₈
20.5626	.2730	3.6624	12 ¹ / ₄
19.3715	.2898	3.4502	12 ³ / ₈
18.3007	.3068	3.2595	12 ¹ / ₂
17.3329	.3239	3.0871	12 ⁵ / ₈
16.4542	.3412	2.9306	12 ³ / ₄
15.6528	.3587	2.7879	12 ⁷ / ₈
14.9190	.3763	2.6572	13
14.2449	.3941	2.5371	13 ¹ / ₈
13.6233	.4121	2.4264	13 ¹ / ₄
13.0486	.4303	2.3241	13 ³ / ₈
12.5157	.4486	2.2291	13 ¹ / ₂
12.0202	.4671	2.1409	13 ⁵ / ₈
11.5583	.4858	2.0586	13 ³ / ₄
11.1269	.5046	1.9818	13 ⁷ / ₈
10.7231	.5236	1.9099	14
10.3442	.5428	1.8424	14 ¹ / ₈
9.9883	.5621	1.7790	14 ¹ / ₄
9.6531	.5816	1.7193	14 ³ / ₈
9.3371	.6013	1.6630	14 ¹ / ₂
9.0386	.6212	1.6098	14 ⁵ / ₈
8.7563	.6412	1.5596	14 ³ / ₄
8.4889	.6614	1.5119	14 ⁷ / ₈
8.2353	.6818	1.4668	15
7.9945	.7023	1.4239	15 ¹ / ₈
7.7655	.7230	1.3831	15 ¹ / ₄
7.5475	.7439	1.3443	15 ³ / ₈
7.3399	.7649	1.3073	15 ¹ / ₂
7.1417	.7862	1.2720	15 ⁵ / ₈
6.9526	.8076	1.2383	15 ³ / ₄
6.7718	.8291	1.2061	15 ⁷ / ₈
6.5988	.8508	1.1753	16

**Note: No allowance made for couplings.

Casing Size
O.D. 10³/₄"
10.750"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
11 ¹ / ₂	.6808	1.4688	.0162
11 ⁵ / ₈	.7988	1.2519	.0190
11 ³ / ₄	.9180	1.0893	.0219
11 ⁷ / ₈	1.0385	.9629	.0247
12	1.1602	.8619	.0276
12 ¹ / ₈	1.2833	.7793	.0306
12 ¹ / ₄	1.4076	.7104	.0335
12 ³ / ₈	1.5332	.6522	.0365
12 ¹ / ₂	1.6600	.6024	.0395
12 ⁵ / ₈	1.7882	.5592	.0426
12 ³ / ₄	1.9176	.5215	.0457
12 ⁷ / ₈	2.0483	.4882	.0488
13	2.1802	.4587	.0519
13 ¹ / ₈	2.3135	.4322	.0551
13 ¹ / ₄	2.4480	.4085	.0583
13 ³ / ₈	2.5838	.3870	.0615
13 ¹ / ₂	2.7208	.3675	.0648
13 ⁵ / ₈	2.8592	.3498	.0681
13 ³ / ₄	2.9988	.3335	.0714
13 ⁷ / ₈	3.1397	.3185	.0748
14	3.2818	.3047	.0781
14 ¹ / ₈	3.4253	.2919	.0816
14 ¹ / ₄	3.5700	.2801	.0850
14 ³ / ₈	3.7160	.2691	.0885
14 ¹ / ₂	3.8632	.2589	.0920
14 ⁵ / ₈	4.0118	.2493	.0955
14 ³ / ₄	4.1616	.2403	.0991
14 ⁷ / ₈	4.3127	.2319	.1027
15	4.4650	.2240	.1063
15 ¹ / ₈	4.6187	.2165	.1100
15 ¹ / ₄	4.7736	.2095	.1137
15 ³ / ₈	4.9298	.2028	.1174
15 ¹ / ₂	5.0872	.1966	.1211
15 ⁵ / ₈	5.2460	.1906	.1249
15 ³ / ₄	5.4060	.1850	.1287
15 ⁷ / ₈	5.5673	.1796	.1326
16	5.7298	.1745	.1364
16 ¹ / ₈	5.8937	.1697	.1403
16 ¹ / ₄	6.0588	.1650	.1443
16 ³ / ₈	6.2252	.1606	.1482
16 ¹ / ₂	6.3928	.1564	.1522
16 ⁵ / ₈	6.5618	.1524	.1562
16 ³ / ₄	6.7320	.1485	.1603
16 ⁷ / ₈	6.9035	.1449	.1644
17	7.0762	.1413	.1685
17 ¹ / ₄	7.4256	.1347	.1768
17 ¹ / ₂	7.7800	.1285	.1852
17 ³ / ₄	8.1396	.1229	.1938
18	8.5042	.1176	.2025

NO.122-B

BETWEEN CASING & HOLE**
Casing Size
O.D. 10³/₄"
10.750"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
61.6877	.0910	10.9871	11 ¹ / ₂
52.5798	.1068	9.3649	11 ⁵ / ₈
45.7517	.1227	8.1487	11 ³ / ₄
40.4435	.1388	7.2033	11 ⁷ / ₈
36.1992	.1551	6.4473	12
32.7285	.1716	5.8292	12 ¹ / ₈
29.8381	.1882	5.3144	12 ¹ / ₄
27.3940	.2050	4.8791	12 ³ / ₈
25.3005	.2219	4.5062	12 ¹ / ₂
23.4875	.2390	4.1833	12 ⁵ / ₈
21.9024	.2563	3.9010	12 ³ / ₄
20.5050	.2738	3.6521	12 ⁷ / ₈
19.2639	.2915	3.4310	13
18.1545	.3093	3.2334	13 ¹ / ₈
17.1569	.3272	3.0558	13 ¹ / ₄
16.2552	.3454	2.8952	13 ³ / ₈
15.4364	.3637	2.7493	13 ¹ / ₂
14.6895	.3882	2.6163	13 ⁵ / ₈
14.0056	.4009	2.4945	13 ³ / ₄
13.3772	.4197	2.3826	13 ⁷ / ₈
12.7977	.4387	2.2794	14
12.2618	.4579	2.1839	14 ¹ / ₈
11.7647	.4772	2.0954	14 ¹ / ₄
11.3025	.4968	2.0131	14 ³ / ₈
10.8717	.5164	1.9363	14 ¹ / ₂
10.4692	.5363	1.8646	14 ⁵ / ₈
10.0923	.5563	1.7975	14 ³ / ₄
9.7387	.5765	1.7345	14 ⁷ / ₈
9.4064	.5969	1.6754	15
9.0935	.6174	1.6196	15 ¹ / ₈
8.7984	.6381	1.5671	15 ¹ / ₄
8.5197	.6590	1.5174	15 ³ / ₈
8.2560	.6801	1.4704	15 ¹ / ₂
8.0061	.7013	1.4260	15 ⁵ / ₈
7.7692	.7227	1.3837	15 ³ / ₄
7.5441	.7442	1.3437	15 ⁷ / ₈
7.3301	.7660	1.3055	16
7.1263	.7879	1.2692	16 ¹ / ₈
6.9321	.8099	1.2347	16 ¹ / ₄
6.7468	.8322	1.2017	16 ³ / ₈
6.5699	.8546	1.1701	16 ¹ / ₂
6.4007	.8772	1.1400	16 ⁵ / ₈
6.2387	.8999	1.1112	16 ³ / ₄
6.0839	.9229	1.0836	16 ⁷ / ₈
5.9354	.9460	1.0571	17
5.6561	.9927	1.0074	17 ¹ / ₄
5.3984	1.0400	.9615	17 ¹ / ₂
5.1600	1.0881	.9190	17 ³ / ₄
4.9387	1.1369	.8796	18

**Note: No allowance made for couplings.

Casing Size
O.D. 11³/₄"
11.750"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
12	.2422	4.1280	.0058
12 ¹ / ₈	.3653	2.7376	.0087
12 ¹ / ₄	.4896	2.0425	.0117
12 ³ / ₈	.6152	1.6255	.0146
12 ¹ / ₂	.7420	1.3476	.0177
12 ⁵ / ₈	.8702	1.1492	.0207
12 ³ / ₄	.9996	1.0004	.0238
12 ⁷ / ₈	1.1303	.8847	.0269
13	1.2622	.7922	.0301
13 ¹ / ₈	1.3955	.7166	.0332
13 ¹ / ₄	1.5300	.6536	.0364
13 ³ / ₈	1.6658	.6003	.0397
13 ¹ / ₂	1.8028	.5547	.0429
13 ⁵ / ₈	1.9412	.5151	.0462
13 ³ / ₄	2.0808	.4806	.0495
13 ⁷ / ₈	2.2217	.4501	.0529
14	2.3638	.4230	.0563
14 ¹ / ₈	2.5073	.3988	.0597
14 ¹ / ₄	2.6520	.3771	.0631
14 ³ / ₈	2.7980	.3574	.0666
14 ¹ / ₂	2.9452	.3395	.0701
14 ⁵ / ₈	3.0938	.3232	.0737
14 ³ / ₄	3.2436	.3083	.0772
14 ⁷ / ₈	3.3947	.2946	.0808
15	3.5470	.2819	.0845
15 ¹ / ₈	3.7007	.2702	.0881
15 ¹ / ₄	3.8556	.2594	.0918
15 ³ / ₈	4.0118	.2493	.0955
15 ¹ / ₂	4.1692	.2399	.0993
15 ⁵ / ₈	4.3280	.2311	.1030
15 ³ / ₄	4.4880	.2228	.1069
15 ⁷ / ₈	4.6493	.2151	.1107
16	4.8118	.2078	.1146
16 ¹ / ₄	5.1408	.1945	.1224
16 ¹ / ₂	5.4748	.1827	.1304
16 ³ / ₄	5.8140	.1720	.1384
17	6.1582	.1624	.1466
17 ¹ / ₄	6.5076	.1537	.1549
17 ¹ / ₂	6.8620	.1457	.1634
17 ³ / ₄	7.2216	.1385	.1719
18	7.5862	.1318	.1806
18 ¹ / ₄	7.9560	.1257	.1894
18 ¹ / ₂	8.3308	.1200	.1984
18 ³ / ₄	8.7108	.1148	.2074
19	9.0958	.1099	.2166
19 ¹ / ₄	9.4860	.1054	.2259
19 ¹ / ₂	9.8812	.1012	.2353
19 ³ / ₄	10.2816	.0973	.2448
20	10.6870	.0936	.2545

NO.122-B

BETWEEN CASING & HOLE**

Casing Size

O.D. 11³/₄"

11.750"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
173.3750	.0324	30.8794	12
114.9782	.0488	20.4785	12 ¹ / ₈
85.7845	.0654	15.2789	12 ¹ / ₄
68.2720	.0822	12.1598	12 ³ / ₈
56.6001	.0992	10.0809	12 ¹ / ₂
48.2656	.1163	8.5965	12 ⁵ / ₈
42.0169	.1336	7.4835	12 ³ / ₄
37.1588	.1511	6.6183	12 ⁷ / ₈
33.2740	.1687	5.9264	13
30.0971	.1865	5.3605	13 ¹ / ₈
27.4510	.2045	4.8892	13 ¹ / ₄
25.2134	.2227	4.4907	13 ³ / ₈
23.2965	.2410	4.1493	13 ¹ / ₂
21.6363	.2595	3.8536	13 ⁵ / ₈
20.1846	.2782	3.5950	13 ³ / ₄
18.9046	.2970	3.3671	13 ⁷ / ₈
17.7677	.3160	3.1646	14
16.7512	.3352	2.9835	14 ¹ / ₈
15.8371	.3545	2.8207	14 ¹ / ₄
15.0108	.3740	2.6735	14 ³ / ₈
14.2603	.3937	2.5399	14 ¹ / ₂
13.5756	.4136	2.4179	14 ⁵ / ₈
12.9486	.4336	2.3062	14 ³ / ₄
12.3723	.4538	2.2036	14 ⁷ / ₈
11.8409	.4742	2.1089	15
11.3493	.4947	2.0214	15 ¹ / ₈
10.8933	.5154	1.9402	15 ¹ / ₄
10.4692	.5363	1.8646	15 ³ / ₈
10.0738	.5573	1.7942	15 ¹ / ₂
9.7043	.5786	1.7284	15 ⁵ / ₈
9.3583	.6000	1.6668	15 ³ / ₄
9.0337	.6215	1.6090	15 ⁷ / ₈
8.7285	.6432	1.5546	16
8.1700	.6872	1.4551	16 ¹ / ₄
7.6715	.7319	1.3663	16 ¹ / ₂
7.2240	.7772	1.2866	16 ³ / ₄
6.8201	.8232	1.2147	17
6.4540	.8699	1.1495	17 ¹ / ₄
6.1206	.9173	1.0901	17 ¹ / ₂
5.8159	.9654	1.0359	17 ³ / ₄
5.5363	1.0141	.9861	18
5.2790	1.0636	.9402	18 ¹ / ₄
5.0415	1.1137	.8979	18 ¹ / ₂
4.8216	1.1645	.8588	18 ³ / ₄
4.6175	1.2159	.8224	19
4.4276	1.2681	.7886	19 ¹ / ₄
4.2505	1.3209	.7570	19 ¹ / ₂
4.0850	1.3744	.7276	19 ³ / ₄
3.9300	1.4286	.7000	20

**Note: No allowance made for couplings.

Casing Size
***O.D. 12³/₄"**
12.750"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
15	2.5474	.3926	.0607
15 ¹ / ₈	2.7011	.3702	.0643
15 ¹ / ₄	2.8560	.3501	.0680
15 ³ / ₈	3.0122	.3320	.0717
15 ¹ / ₂	3.1696	.3155	.0755
15 ⁵ / ₈	3.3284	.3004	.0792
15 ³ / ₄	3.4884	.2867	.0831
15 ⁷ / ₈	3.6497	.2740	.0869
16	3.8122	.2623	.0908
16 ¹ / ₈	3.9761	.2515	.0947
16 ¹ / ₄	4.1412	.2415	.0986
16 ³ / ₈	4.3076	.2321	.1026
16 ¹ / ₂	4.4752	.2235	.1066
16 ⁵ / ₈	4.6442	.2153	.1106
16 ³ / ₄	4.8144	.2077	.1146
16 ⁷ / ₈	4.9859	.2006	.1187
17	5.1586	.1938	.1228
17 ¹ / ₈	5.3327	.1875	.1270
17 ¹ / ₄	5.5080	.1816	.1311
17 ³ / ₈	5.6846	.1759	.1353
17 ¹ / ₂	5.8624	.1706	.1396
17 ⁵ / ₈	6.0416	.1655	.1438
17 ³ / ₄	6.2220	.1607	.1481
17 ⁷ / ₈	6.4037	.1562	.1525
18	6.5866	.1518	.1568
18 ¹ / ₈	6.7709	.1477	.1612
18 ¹ / ₄	6.9564	.1438	.1656
18 ³ / ₈	7.1432	.1400	.1701
18 ¹ / ₂	7.3312	.1364	.1746
18 ⁵ / ₈	7.5206	.1330	.1791
18 ³ / ₄	7.7112	.1297	.1836
18 ⁷ / ₈	7.9031	.1265	.1882
19	8.0962	.1235	.1928
19 ¹ / ₈	8.2907	.1206	.1974
19 ¹ / ₄	8.4864	.1178	.2021
19 ³ / ₈	8.6834	.1152	.2067
19 ¹ / ₂	8.8816	.1126	.2115
19 ⁵ / ₈	9.0812	.1101	.2162
19 ³ / ₄	9.2820	.1077	.2210
19 ⁷ / ₈	9.4841	.1054	.2258
20	9.6874	.1032	.2307

NO.122-B

Casing Size

*O.D. 12³/₄"**BETWEEN CASING & HOLE******12.750"**

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
16.4871	.3405	2.9365	15
15.5493	.3611	2.7695	15 ¹ / ₈
14.7059	.3818	2.6192	15 ¹ / ₄
13.9434	.4027	2.4834	15 ³ / ₈
13.2507	.4237	2.3601	15 ¹ / ₂
12.6188	.4449	2.2475	15 ⁵ / ₈
12.0399	.4663	2.1444	15 ³ / ₄
11.5079	.4879	2.0496	15 ⁷ / ₈
11.0171	.5096	1.9622	16
10.5632	.5315	1.8814	16 ¹ / ₈
10.1420	.5536	1.8064	16 ¹ / ₄
9.7503	.5758	1.7366	16 ³ / ₈
9.3850	.5983	1.6715	16 ¹ / ₂
9.0436	.6208	1.6107	16 ⁵ / ₈
8.7239	.6436	1.5538	16 ³ / ₄
8.4238	.6665	1.5003	16 ⁷ / ₈
8.1417	.6896	1.4501	17
7.8760	.7129	1.4028	17 ¹ / ₈
7.6253	.7363	1.3581	17 ¹ / ₄
7.3884	.7599	1.3159	17 ³ / ₈
7.1643	.7837	1.2760	17 ¹ / ₂
6.9518	.8076	1.2382	17 ⁵ / ₈
6.7503	.8318	1.2023	17 ³ / ₄
6.5587	.8560	1.1682	17 ⁷ / ₈
6.3766	.8805	1.1357	18
6.2030	.9051	1.1048	18 ¹ / ₈
6.0376	.9299	1.0753	18 ¹ / ₄
5.8797	.9549	1.0472	18 ³ / ₈
5.7289	.9800	1.0204	18 ¹ / ₂
5.5847	1.0054	.9947	18 ⁵ / ₈
5.4466	1.0308	.9701	18 ³ / ₄
5.3144	1.0565	.9465	18 ⁷ / ₈
5.1876	1.0823	.9240	19
5.0659	1.1083	.9023	19 ¹ / ₈
4.9491	1.1345	.8815	19 ¹ / ₄
4.8368	1.1608	.8615	19 ³ / ₈
4.7289	1.1873	.8422	19 ¹ / ₂
4.6250	1.2140	.8237	19 ⁵ / ₈
4.5249	1.2408	.8059	19 ³ / ₄
4.4285	1.2678	.7887	19 ⁷ / ₈
4.3355	1.2950	.7722	20

**Note: No allowance made for couplings.

Casing Size
***O.D. 13"**
13.000"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
14	1.1016	.9078	.0262
14 ¹ / ₈	1.2450	.8032	.0296
14 ¹ / ₄	1.3897	.7196	.0331
14 ³ / ₈	1.5357	.6512	.0366
14 ¹ / ₂	1.6830	.5942	.0401
14 ⁵ / ₈	1.8315	.5460	.0436
14 ³ / ₄	1.9813	.5047	.0472
14 ⁷ / ₈	2.1324	.4689	.0508
15	2.2848	.4377	.0544
15 ¹ / ₈	2.4384	.4101	.0581
15 ¹ / ₄	2.5933	.3856	.0617
15 ³ / ₈	2.7495	.3637	.0655
15 ¹ / ₂	2.9070	.3440	.0692
15 ⁵ / ₈	3.0657	.3262	.0730
15 ³ / ₄	3.2257	.3100	.0768
15 ⁷ / ₈	3.3870	.2952	.0806
16	3.5496	.2817	.0845
16 ¹ / ₄	3.8785	.2578	.0923
16 ¹ / ₂	4.2126	.2374	.1003
16 ³ / ₄	4.5517	.2197	.1084
17	4.8960	.2042	.1166
17 ¹ / ₄	5.2453	.1906	.1249
17 ¹ / ₂	5.5998	.1786	.1333
17 ³ / ₄	5.9593	.1678	.1419
18	6.3240	.1581	.1506
18 ¹ / ₄	6.6937	.1494	.1594
18 ¹ / ₂	7.0686	.1415	.1683
18 ³ / ₄	7.4485	.1343	.1773
19	7.8336	.1277	.1865
19 ¹ / ₄	8.2237	.1216	.1958
19 ¹ / ₂	8.6190	.1160	.2052
19 ³ / ₄	9.0193	.1109	.2147
20	9.4248	.1061	.2244
20 ¹ / ₄	9.8353	.1017	.2342
20 ¹ / ₂	10.2510	.0976	.2441
20 ³ / ₄	10.6717	.0937	.2541
21	11.0976	.0901	.2642
21 ¹ / ₄	11.5285	.0867	.2745
21 ¹ / ₂	11.9646	.0836	.2849
21 ³ / ₄	12.4057	.0806	.2954
22	12.8520	.0778	.3060
22 ¹ / ₄	13.3033	.0752	.3167
22 ¹ / ₂	13.7598	.0727	.3276
22 ³ / ₄	14.2213	.0703	.3386
23	14.6880	.0681	.3497
23 ¹ / ₄	15.1597	.0660	.3609
23 ¹ / ₂	15.6366	.0640	.3723
23 ³ / ₄	16.1185	.0620	.3838
24	16.6056	.0602	.3954

*Not API Standard. Shown for information only.

NO.122-B

BETWEEN CASING & HOLE**
Casing Size
***O.D. 13"**
13.000"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
38.1265	.1473	6.7906	14
33.7340	.1664	6.0083	14 ¹ / ₈
30.2213	.1858	5.3826	14 ¹ / ₄
27.3485	.2053	4.8710	14 ³ / ₈
24.9555	.2250	4.4448	14 ¹ / ₂
22.9316	.2448	4.0843	14 ⁵ / ₈
21.1977	.2649	3.7755	14 ³ / ₄
19.6958	.2851	3.5080	14 ⁷ / ₈
18.3824	.3054	3.2740	15
17.2242	.3260	3.0678	15 ¹ / ₈
16.1953	.3467	2.8845	15 ¹ / ₄
15.2753	.3676	2.7207	15 ³ / ₈
14.4479	.3886	2.5733	15 ¹ / ₂
13.6998	.4098	2.4400	15 ⁵ / ₈
13.0203	.4312	2.3190	15 ³ / ₄
12.4002	.4528	2.2086	15 ⁷ / ₈
11.8323	.4745	2.1074	16
10.8288	.5185	1.9287	16 ¹ / ₄
9.9701	.5631	1.7758	16 ¹ / ₂
9.2272	.6085	1.6434	16 ³ / ₄
8.5785	.6545	1.5279	17
8.0071	.7012	1.4261	17 ¹ / ₄
7.5003	.7486	1.3359	17 ¹ / ₂
7.0478	.7966	1.2553	17 ³ / ₄
6.6414	.8454	1.1829	18
6.2745	.8948	1.1175	18 ¹ / ₄
5.9418	.9449	1.0583	18 ¹ / ₂
5.6387	.9957	1.0043	18 ³ / ₄
5.3615	1.0472	.9549	19
5.1072	1.0994	.9096	19 ¹ / ₄
4.8730	1.1522	.8679	19 ¹ / ₂
4.6567	1.2057	.8294	19 ³ / ₄
4.4563	1.2599	.7937	20
4.2703	1.3148	.7606	20 ¹ / ₄
4.0972	1.3704	.7297	20 ¹ / ₂
3.9356	1.4266	.7010	20 ³ / ₄
3.7846	1.4835	.6741	21
3.6431	1.5411	.6489	21 ¹ / ₄
3.5104	1.5994	.6252	21 ¹ / ₂
3.3855	1.6584	.6030	21 ³ / ₄
3.2680	1.7181	.5821	22
3.1571	1.7784	.5623	22 ¹ / ₄
3.0524	1.8394	.5437	22 ¹ / ₂
2.9533	1.9011	.5260	22 ³ / ₄
2.8595	1.9635	.5093	23
2.7705	2.0266	.4934	23 ¹ / ₄
2.6860	2.0903	.4784	23 ¹ / ₂
2.6057	2.1547	.4641	23 ³ / ₄
2.5293	2.2198	.4505	24

**Note: No allowance made for couplings.

Casing Size
O.D. 13³/₈"
13.375"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
14	.6981	1.4325	.0166
14 ¹ / ₈	.8415	1.1884	.0200
14 ¹ / ₄	.9862	1.0140	.0235
14 ³ / ₈	1.1322	.8832	.0270
14 ¹ / ₂	1.2795	.7816	.0305
14 ⁵ / ₈	1.4280	.7003	.0340
14 ³ / ₄	1.5778	.6338	.0376
14 ⁷ / ₈	1.7289	.5784	.0412
15	1.8813	.5316	.0448
15 ¹ / ₈	2.0349	.4914	.0484
15 ¹ / ₄	2.1898	.4567	.0521
15 ³ / ₈	2.3460	.4263	.0559
15 ¹ / ₂	2.5035	.3994	.0596
15 ⁵ / ₈	2.6622	.3756	.0634
15 ³ / ₄	2.8222	.3543	.0672
15 ⁷ / ₈	2.9835	.3352	.0710
16	3.1461	.3179	.0749
16 ¹ / ₄	3.4750	.2878	.0827
16 ¹ / ₂	3.8091	.2625	.0907
16 ³ / ₄	4.1482	.2411	.0988
17	4.4925	.2226	.1070
17 ¹ / ₄	4.8418	.2065	.1153
17 ¹ / ₂	5.1963	.1924	.1237
17 ³ / ₄	5.5558	.1800	.1323
18	5.9204	.1689	.1410
18 ¹ / ₄	6.2902	.1590	.1498
18 ¹ / ₂	6.6650	.1500	.1587
18 ³ / ₄	7.0450	.1419	.1677
19	7.4300	.1346	.1769
19 ¹ / ₄	7.8202	.1279	.1862
19 ¹ / ₂	8.2154	.1217	.1956
19 ³ / ₄	8.6158	.1161	.2051
20	9.0212	.1108	.2148
20 ¹ / ₄	9.4318	.1060	.2246
20 ¹ / ₂	9.8474	.1015	.2345
20 ³ / ₄	10.2682	.0974	.2445
21	10.6940	.0935	.2546
21 ¹ / ₄	11.1250	.0899	.2649
21 ¹ / ₂	11.5610	.0865	.2753
21 ³ / ₄	12.0022	.0833	.2858
22	12.4484	.0803	.2964
22 ¹ / ₄	12.8998	.0775	.3071
22 ¹ / ₂	13.3562	.0749	.3180
22 ³ / ₄	13.8178	.0724	.3290
23	14.2844	.0700	.3401
23 ¹ / ₄	14.7562	.0678	.3513
23 ¹ / ₂	15.2330	.0656	.3627
23 ³ / ₄	15.7150	.0636	.3742
24	16.2020	.0617	.3858

NO.122-B

BETWEEN CASING & HOLE**
Casing Size
O.D. 13³/₈"
13.375"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
60.1667	.0933	10.7161	14
49.9110	.1125	8.8895	14 ¹ / ₈
42.5873	.1318	7.5851	14 ¹ / ₄
37.0960	.1514	6.6071	14 ³ / ₈
32.8264	.1710	5.8466	14 ¹ / ₂
29.4118	.1909	5.2385	14 ⁵ / ₈
26.6192	.2109	4.7411	14 ³ / ₄
24.2930	.2311	4.3268	14 ⁷ / ₈
22.3255	.2515	3.9763	15
20.6399	.2720	3.6761	15 ¹ / ₈
19.1798	.2927	3.4161	15 ¹ / ₄
17.9029	.3136	3.1886	15 ³ / ₈
16.7768	.3347	2.9881	15 ¹ / ₂
15.7765	.3559	2.8099	15 ⁵ / ₈
14.8820	.3773	2.6506	15 ³ / ₄
14.0775	.3988	2.5073	15 ⁷ / ₈
13.3501	.4206	2.3777	16
12.0863	.4645	2.1527	16 ¹ / ₄
11.0264	.5092	1.9639	16 ¹ / ₂
10.1249	.5545	1.8033	16 ³ / ₄
9.3490	.6006	1.6651	17
8.6745	.6473	1.5450	17 ¹ / ₄
8.0828	.6946	1.4396	17 ¹ / ₂
7.5597	.7427	1.3464	17 ³ / ₄
7.0941	.7914	1.2635	18
6.6771	.8409	1.1892	18 ¹ / ₄
6.3015	.8910	1.1224	18 ¹ / ₂
5.9617	.9418	1.0618	18 ³ / ₄
5.6527	.9933	1.0068	19
5.3707	1.0454	.9566	19 ¹ / ₄
5.1123	1.0982	.9105	19 ¹ / ₂
4.8748	1.1518	.8682	19 ³ / ₄
4.6557	1.2060	.8295	20
4.4530	1.2608	.7924	20 ¹ / ₄
4.2651	1.3164	.7570	20 ¹ / ₂
4.0903	1.3727	.7235	20 ³ / ₄
3.9274	1.4296	.6915	21
3.7753	1.4872	.6610	21 ¹ / ₄
3.6329	1.5455	.6320	21 ¹ / ₂
3.4994	1.6045	.6045	21 ³ / ₄
3.3739	1.6641	.5785	22
3.2559	1.7245	.5540	22 ¹ / ₄
3.1446	1.7855	.5310	22 ¹ / ₂
3.0396	1.8472	.5095	22 ³ / ₄
2.9403	1.9096	.4895	23
2.8463	1.9726	.4710	23 ¹ / ₄
2.7572	2.0364	.4540	23 ¹ / ₂
2.6726	2.1008	.4385	23 ³ / ₄
2.5923	2.1659	.4245	24

**Note: No allowance made for couplings.

Casing Size

*O.D. 14"

14.000"

TABLE

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
15	1.1832	.8452	.0282
15 ¹ / ₈	1.3368	.7480	.0318
15 ¹ / ₄	1.4917	.6704	.0355
15 ³ / ₈	1.6479	.6068	.0392
15 ¹ / ₂	1.8054	.5539	.0430
15 ⁵ / ₈	1.9641	.5091	.0468
15 ³ / ₄	2.1241	.4708	.0506
15 ⁷ / ₈	2.2854	.4376	.0544
16	2.4480	.4085	.0583
16 ¹ / ₄	2.7769	.3601	.0661
16 ¹ / ₂	3.1110	.3214	.0741
16 ³ / ₄	3.4501	.2898	.0821
17	3.7944	.2635	.0903
17 ¹ / ₄	4.1437	.2413	.0987
17 ¹ / ₂	4.4982	.2223	.1071
17 ³ / ₄	4.8577	.2059	.1157
18	5.2224	.1915	.1243
18 ¹ / ₄	5.5921	.1788	.1331
18 ¹ / ₂	5.9670	.1676	.1421
18 ³ / ₄	6.3469	.1576	.1511
19	6.7320	.1485	.1603
19 ¹ / ₄	7.1221	.1404	.1696
19 ¹ / ₂	7.5174	.1330	.1790
19 ³ / ₄	7.9177	.1263	.1885
20	8.3232	.1201	.1982
20 ¹ / ₄	8.7337	.1145	.2079
20 ¹ / ₂	9.1494	.1093	.2178
20 ³ / ₄	9.5701	.1045	.2279
21	9.9960	.1000	.2380
21 ¹ / ₄	10.4269	.0959	.2483
21 ¹ / ₂	10.8630	.0921	.2586
21 ³ / ₄	11.3041	.0885	.2691
22	11.7504	.0851	.2798
22 ¹ / ₄	12.2017	.0820	.2905
22 ¹ / ₂	12.6582	.0790	.3014
22 ³ / ₄	13.1197	.0762	.3124
23	13.5864	.0736	.3235
23 ¹ / ₄	14.0581	.0711	.3347
23 ¹ / ₂	14.5350	.0688	.3461
23 ³ / ₄	15.0169	.0666	.3575
24	15.5040	.0645	.3691
24 ¹ / ₄	15.9961	.0625	.3809
24 ¹ / ₂	16.4934	.0606	.3927
24 ³ / ₄	16.9957	.0588	.4047
25	17.5032	.0571	.4167
25 ¹ / ₄	18.0157	.0555	.4289
25 ¹ / ₂	18.5334	.0540	.4413
25 ³ / ₄	19.0561	.0525	.4537
26	19.5840	.0511	.4663

NO.122-B

BETWEEN CASING & HOLE**
Casing Size
***O.D. 14"**
14.000"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
35.4970	.1582	6.3223	15
31.4175	.1787	5.5957	15 ¹ / ₈
28.1549	.1994	5.0146	15 ¹ / ₄
25.4865	.2203	4.5393	15 ³ / ₈
23.2636	.2413	4.1434	15 ¹ / ₂
21.3835	.2626	3.8086	15 ⁵ / ₈
19.7727	.2840	3.5217	15 ³ / ₄
18.3773	.3055	3.2731	15 ⁷ / ₈
17.1569	.3272	3.0558	16
15.1245	.3712	2.6938	16 ¹ / ₄
13.5005	.4159	2.4045	16 ¹ / ₂
12.1734	.4612	2.1682	16 ³ / ₄
11.0690	.5072	1.9715	17
10.1358	.5539	1.8053	17 ¹ / ₄
9.3371	.6013	1.6630	17 ¹ / ₂
8.6460	.6494	1.5399	17 ³ / ₄
8.0423	.6981	1.4324	18
7.5105	.7476	1.3377	18 ¹ / ₄
7.0387	.7977	1.2537	18 ¹ / ₂
6.6174	.8485	1.1786	18 ³ / ₄
6.2389	.8999	1.1112	19
5.8971	.9521	1.0503	19 ¹ / ₄
5.5871	1.0049	.9951	19 ¹ / ₂
5.3045	1.0584	.9448	19 ³ / ₄
5.0461	1.1126	.8988	20
4.8089	1.1675	.8565	20 ¹ / ₄
4.5905	1.2231	.8176	20 ¹ / ₂
4.3887	1.2793	.7817	20 ³ / ₄
4.2017	1.3363	.7484	21
4.0280	1.3939	.7174	21 ¹ / ₄
3.8663	1.4522	.6886	21 ¹ / ₂
3.7155	1.5111	.6618	21 ³ / ₄
3.5744	1.5708	.6366	22
3.4421	1.6311	.6131	22 ¹ / ₄
3.3180	1.6922	.5910	22 ¹ / ₂
3.2013	1.7539	.5702	22 ³ / ₄
3.0913	1.8162	.5506	23
2.9876	1.8793	.5321	23 ¹ / ₄
2.8896	1.9430	.5147	23 ¹ / ₂
2.7968	2.0075	.4981	23 ³ / ₄
2.7090	2.0726	.4825	24
2.6256	2.1384	.4676	24 ¹ / ₄
2.5465	2.2048	.4535	24 ¹ / ₂
2.4712	2.2720	.4401	24 ³ / ₄
2.3996	2.3398	.4274	25
2.3313	2.4083	.4152	25 ¹ / ₄
2.2662	2.4775	.4036	25 ¹ / ₂
2.2040	2.5474	.3926	25 ³ / ₄
2.1446	2.6180	.3820	26

**Note: No allowance made for couplings.

Casing Size
O.D. 16"
16.000"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
17	1.3464	.7427	.0321
17 ¹ / ₈	1.5204	.6577	.0362
17 ¹ / ₄	1.6957	.5897	.0404
17 ³ / ₈	1.8723	.5341	.0446
17 ¹ / ₂	2.0502	.4878	.0488
17 ⁵ / ₈	2.2293	.4486	.0531
17 ³ / ₄	2.4097	.4150	.0574
17 ⁷ / ₈	2.5914	.3859	.0617
18	2.7744	.3604	.0661
18 ¹ / ₄	3.1441	.3181	.0749
18 ¹ / ₂	3.5190	.2842	.0838
18 ³ / ₄	3.8989	.2565	.0928
19	4.2840	.2334	.1020
19 ¹ / ₄	4.6741	.2139	.1113
19 ¹ / ₂	5.0694	.1973	.1207
19 ³ / ₄	5.4697	.1828	.1302
20	5.8752	.1702	.1399
20 ¹ / ₄	6.2857	.1591	.1497
20 ¹ / ₂	6.7014	.1492	.1596
20 ³ / ₄	7.1221	.1404	.1696
21	7.5480	.1325	.1797
21 ¹ / ₄	7.9789	.1253	.1900
21 ¹ / ₂	8.4150	.1188	.2004
21 ³ / ₄	8.8561	.1129	.2109
22	9.3024	.1075	.2215
22 ¹ / ₄	9.7537	.1025	.2322
22 ¹ / ₂	10.2102	.0979	.2431
22 ³ / ₄	10.6717	.0937	.2541
23	11.1384	.0898	.2652
23 ¹ / ₄	11.6101	.0861	.2764
23 ¹ / ₂	12.0870	.0827	.2878
23 ³ / ₄	12.5689	.0796	.2993
24	13.0560	.0766	.3109
24 ¹ / ₄	13.5481	.0738	.3226
24 ¹ / ₂	14.0454	.0712	.3344
24 ³ / ₄	14.5477	.0687	.3464
25	15.0552	.0664	.3585
25 ¹ / ₄	15.5677	.0642	.3707
25 ¹ / ₂	16.0854	.0622	.3830
25 ³ / ₄	16.6081	.0602	.3954
26	17.1360	.0584	.4080
26 ¹ / ₄	17.6689	.0566	.4207
26 ¹ / ₂	18.2070	.0549	.4335
26 ³ / ₄	18.7501	.0533	.4464
27	19.2984	.0518	.4595
27 ¹ / ₄	19.8517	.0504	.4727
27 ¹ / ₂	20.4102	.0490	.4860
27 ³ / ₄	20.9737	.0477	.4994
28	21.5423	.0464	.5129

NO.122-B

BETWEEN CASING & HOLE**
Casing Size
O.D. 16"
16.000"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
31.1944	.1800	5.5560	17
27.6237	.2033	4.9200	17 ¹ / ₈
24.7679	.2267	4.4113	17 ¹ / ₄
22.4319	.2503	3.9953	17 ³ / ₈
20.4859	.2741	3.6487	17 ¹ / ₂
18.8397	.2980	3.3555	17 ⁵ / ₈
17.4292	.3221	3.1043	17 ³ / ₄
16.2073	.3464	2.8866	17 ⁷ / ₈
15.1384	.3709	2.6963	18
13.3582	.4203	2.3792	18 ¹ / ₄
11.9352	.4704	2.1258	18 ¹ / ₂
10.7722	.5212	1.9186	18 ³ / ₄
9.8039	.5727	1.7462	19
8.9856	.6248	1.6004	19 ¹ / ₄
8.2850	.6777	1.4756	19 ¹ / ₂
7.6786	.7312	1.3676	19 ³ / ₄
7.1487	.7854	1.2732	20
6.6818	.8403	1.1901	20 ¹ / ₄
6.2674	.8958	1.1163	20 ¹ / ₂
5.8971	.9521	1.0503	20 ³ / ₄
5.5644	1.0090	.9911	21
5.2639	1.0666	.9375	21 ¹ / ₄
4.9911	1.1249	.8890	21 ¹ / ₂
4.7425	1.1839	.8447	21 ³ / ₄
4.5150	1.2435	.8042	22
4.3060	1.3039	.7669	22 ¹ / ₄
4.1135	1.3649	.7327	22 ¹ / ₂
3.9356	1.4266	.7010	22 ³ / ₄
3.7707	1.4890	.6716	23
3.6175	1.5520	.6443	23 ¹ / ₄
3.4748	1.6158	.6189	23 ¹ / ₂
3.3416	1.6802	.5952	23 ³ / ₄
3.2169	1.7453	.5730	24
3.1001	1.8111	.5521	24 ¹ / ₄
2.9903	1.8776	.5326	24 ¹ / ₂
2.8871	1.9447	.5142	24 ³ / ₄
2.7897	2.0126	.4969	25
2.6979	2.0811	.4805	25 ¹ / ₄
2.6111	2.1503	.4651	25 ¹ / ₂
2.5289	2.2202	.4504	25 ³ / ₄
2.4510	2.2907	.4365	26
2.3771	2.3620	.4234	26 ¹ / ₄
2.3068	2.4339	.4109	26 ¹ / ₂
2.2400	2.5065	.3990	26 ³ / ₄
2.1764	2.5798	.3876	27
2.1157	2.6538	.3768	27 ¹ / ₄
2.0578	2.7284	.3665	27 ¹ / ₂
2.0025	2.8038	.3567	27 ³ / ₄
1.9496	2.8798	.3472	28

**Note: No allowance made for couplings.

Casing Size
O.D. 18⁵/₈"
18.625"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
19	.5757	1.7371	.0137
19 ¹ / ₈	.7701	1.2985	.0183
19 ¹ / ₄	.9658	1.0354	.0230
19 ³ / ₈	1.1628	.8600	.0277
19 ¹ / ₂	1.3611	.7347	.0324
19 ⁵ / ₈	1.5606	.6408	.0372
19 ³ / ₄	1.7614	.5677	.0419
19 ⁷ / ₈	1.9635	.5093	.0467
20	2.1669	.4615	.0516
20 ¹ / ₄	2.5774	.3880	.0614
20 ¹ / ₂	2.9931	.3341	.0713
20 ³ / ₄	3.4138	.2929	.0813
21	3.8397	.2604	.0914
21 ¹ / ₄	4.2706	.2342	.1017
21 ¹ / ₂	4.7067	.2125	.1121
21 ³ / ₄	5.1478	.1943	.1226
22	5.5940	.1788	.1332
22 ¹ / ₄	6.0454	.1654	.1439
22 ¹ / ₂	6.5018	.1538	.1548
22 ³ / ₄	6.9634	.1436	.1658
23	7.4300	.1346	.1769
23 ¹ / ₄	7.9018	.1266	.1881
23 ¹ / ₂	8.3786	.1194	.1995
23 ³ / ₄	8.8606	.1129	.2110
24	9.3476	.1070	.2226
24 ¹ / ₄	9.8398	.1016	.2343
24 ¹ / ₂	10.3370	.0967	.2461
24 ³ / ₄	10.8394	.0923	.2581
25	11.3468	.0881	.2702
25 ¹ / ₄	11.8594	.0843	.2824
25 ¹ / ₂	12.3770	.0808	.2947
25 ³ / ₄	12.8998	.0775	.3071
26	13.4276	.0745	.3197
26 ¹ / ₄	13.9606	.0716	.3324
26 ¹ / ₂	14.4986	.0690	.3452
26 ³ / ₄	15.0418	.0665	.3581
27	15.5900	.0641	.3712
27 ¹ / ₄	16.1434	.0619	.3844
27 ¹ / ₂	16.7018	.0599	.3977
27 ³ / ₄	17.2654	.0579	.4111
28	17.8340	.0561	.4246
28 ¹ / ₄	18.4078	.0543	.4383
28 ¹ / ₂	18.9866	.0527	.4521
28 ³ / ₄	19.5706	.0511	.4660
29	20.1596	.0496	.4800
29 ¹ / ₄	20.7538	.0482	.4941
29 ¹ / ₂	21.3530	.0468	.5084
29 ³ / ₄	21.9574	.0455	.5228
30	22.5668	.0443	.5373

NO.122-B

BETWEEN CASING & HOLE**
Casing Size
O.D. 18⁵/₈"
18.625"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
72.9596	.0770	12.9947	19
54.5385	.1029	9.7137	19 ¹ / ₈
43.4868	.1291	7.7453	19 ¹ / ₄
36.1198	.1554	6.4332	19 ³ / ₈
30.8583	.1819	5.4961	19 ¹ / ₂
26.9128	.2086	4.7934	19 ⁵ / ₈
23.8446	.2355	4.2469	19 ³ / ₄
21.3904	.2625	3.8098	19 ⁷ / ₈
19.3829	.2897	3.4522	20
16.2955	.3445	2.9023	20 ¹ / ₄
14.0325	.4001	2.4993	20 ¹ / ₂
12.3030	.4564	2.1913	20 ³ / ₄
10.9385	.5133	1.9482	21
9.9385	.5709	1.7516	21 ¹ / ₄
8.9235	.6292	1.5894	21 ¹ / ₂
8.1588	.6882	1.4531	21 ³ / ₄
7.5080	.7478	1.3372	22
6.9474	.8082	1.2374	22 ¹ / ₄
6.4597	.8692	1.1505	22 ¹ / ₂
6.0315	.9309	1.0743	22 ³ / ₄
5.6527	.9933	1.0068	23
5.3152	1.0563	.9467	23 ¹ / ₄
5.0127	1.1201	.8928	23 ¹ / ₂
4.7401	1.1845	.8442	23 ³ / ₄
4.4931	1.2496	.8003	24
4.2684	1.3154	.7602	24 ¹ / ₄
4.0631	1.3819	.7237	24 ¹ / ₂
3.8748	1.4490	.6901	24 ³ / ₄
3.7015	1.5169	.6593	25
3.5415	1.5854	.6308	25 ¹ / ₄
3.3934	1.6546	.6044	25 ¹ / ₂
3.2559	1.7245	.5799	25 ³ / ₄
3.1279	1.7950	.5571	26
3.0085	1.8663	.5358	26 ¹ / ₄
2.8968	1.9382	.5159	26 ¹ / ₂
2.7922	2.0108	.4973	26 ³ / ₄
2.6940	2.0841	.4798	27
2.6017	2.1581	.4634	27 ¹ / ₄
2.5147	2.2327	.4479	27 ¹ / ₂
2.4326	2.3080	.4333	27 ³ / ₄
2.3550	2.3841	.4195	28
2.2816	2.4608	.4064	28 ¹ / ₄
2.2121	2.5381	.3940	28 ¹ / ₂
2.1461	2.6162	.3822	28 ³ / ₄
2.0834	2.6949	.3711	29
2.0237	2.7744	.3604	29 ¹ / ₄
1.9669	2.8545	.3503	29 ¹ / ₂
1.9128	2.9353	.3407	29 ³ / ₄
1.8611	3.0167	.3315	30

**Note: No allowance made for couplings.

Casing Size
O.D. 20"
20.000"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
21	1.6728	.5978	.0398
21 ¹ / ₈	1.8876	.5298	.0449
21 ¹ / ₄	2.1037	.4753	.0501
21 ³ / ₈	2.3211	.4308	.0553
21 ¹ / ₂	2.5398	.3937	.0605
21 ⁵ / ₈	2.7597	.3624	.0657
21 ³ / ₄	2.9809	.3355	.0710
21 ⁷ / ₈	3.2034	.3122	.0763
22	3.4272	.2918	.0816
22 ¹ / ₈	3.6522	.2738	.0870
22 ¹ / ₄	3.8785	.2578	.0923
22 ³ / ₈	4.1061	.2435	.0978
22 ¹ / ₂	4.3350	.2307	.1032
22 ⁵ / ₈	4.5651	.2191	.1087
22 ³ / ₄	4.7965	.2085	.1142
22 ⁷ / ₈	5.0292	.1988	.1197
23	5.2632	.1900	.1253
23 ¹ / ₈	5.4984	.1819	.1309
23 ¹ / ₄	5.7349	.1744	.1365
23 ³ / ₈	5.9727	.1674	.1422
23 ¹ / ₂	6.2118	.1610	.1479
23 ⁵ / ₈	6.4521	.1550	.1536
23 ³ / ₄	6.6937	.1494	.1594
23 ⁷ / ₈	6.9366	.1442	.1652
24	7.1808	.1393	.1710
24 ¹ / ₄	7.6729	.1303	.1827
24 ¹ / ₂	8.1702	.1224	.1945
24 ³ / ₄	8.6725	.1153	.2065
25	9.1800	.1089	.2186
25 ¹ / ₄	9.6925	.1032	.2308
25 ¹ / ₂	10.2102	.0979	.2431
25 ³ / ₄	10.7329	.0932	.2555
26	11.2608	.0888	.2681
26 ¹ / ₄	11.7937	.0848	.2808
26 ¹ / ₂	12.3318	.0811	.2936
26 ³ / ₄	12.8749	.0777	.3065
27	13.4232	.0745	.3196
27 ¹ / ₄	13.9765	.0715	.3328
27 ¹ / ₂	14.5350	.0688	.3461
27 ³ / ₄	15.0985	.0662	.3595
28	15.6672	.0638	.3730
28 ¹ / ₄	16.2409	.0616	.3867
28 ¹ / ₂	16.8198	.0595	.4005
28 ³ / ₄	17.4037	.0575	.4144
29	17.9928	.0556	.4284
29 ¹ / ₄	18.5869	.0538	.4425
29 ¹ / ₂	18.1862	.0521	.4568
29 ³ / ₄	19.7905	.0505	.4712
30	20.4000	.0490	.4857

NO.122-B

Casing Size
O.D. 20"
20.000"
BETWEEN CASING & HOLE**

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
25.1077	.2236	4.4719	21
22.2501	.2523	3.9629	21 ¹ / ₈
19.9644	.2812	3.5558	21 ¹ / ₄
18.0946	.3103	3.2228	21 ³ / ₈
16.5368	.3395	2.9453	21 ¹ / ₂
15.2189	.3689	2.7106	21 ⁵ / ₈
14.0895	.3985	2.5094	21 ³ / ₄
13.1109	.4282	2.3352	21 ⁷ / ₈
12.2549	.4581	2.1827	22
11.4998	.4882	2.0482	22 ¹ / ₈
10.8288	.5185	1.9287	22 ¹ / ₄
10.2286	.5489	1.8218	22 ³ / ₈
9.6886	.5795	1.7256	22 ¹ / ₂
9.2002	.6103	1.6386	22 ⁵ / ₈
8.7563	.6412	1.5596	22 ³ / ₄
8.3512	.6723	1.4874	22 ⁷ / ₈
7.9800	.7036	1.4213	23
7.6386	.7350	1.3605	23 ¹ / ₈
7.3235	.7666	1.3044	23 ¹ / ₄
7.0320	.7984	1.2524	23 ³ / ₈
6.7613	.8304	1.2042	23 ¹ / ₂
6.5095	.8625	1.1594	23 ⁵ / ₈
6.2745	.8948	1.1175	23 ³ / ₄
6.0548	.9273	1.0784	23 ⁷ / ₈
5.8489	.9599	1.0417	24
5.4738	1.0257	.9749	24 ¹ / ₄
5.1406	1.0922	.9156	24 ¹ / ₂
4.8429	1.1593	.8626	24 ³ / ₄
4.5752	1.2272	.8149	25
4.3332	1.2957	.7718	25 ¹ / ₄
4.1135	1.3649	.7327	25 ¹ / ₂
3.9132	1.4348	.6970	25 ³ / ₄
3.7298	1.5053	.6643	26
3.5612	1.5766	.6343	26 ¹ / ₄
3.4058	1.6485	.6066	26 ¹ / ₂
3.2622	1.7211	.5810	26 ³ / ₄
3.1289	1.7944	.5573	27
3.0050	1.8684	.5352	27 ¹ / ₄
2.8896	1.9430	.5147	27 ¹ / ₂
2.7817	2.0184	.4954	27 ³ / ₄
2.6808	2.0944	.4775	28
2.5861	2.1711	.4606	28 ¹ / ₄
2.4971	2.2485	.4447	28 ¹ / ₂
2.4133	2.3265	.4298	28 ³ / ₄
2.3343	2.4053	.4158	29
2.2597	2.4847	.4025	29 ¹ / ₄
2.1891	2.5648	.3899	29 ¹ / ₂
2.1222	2.6456	.3780	29 ³ / ₄
2.0588	2.7271	.3667	30

**Note: No allowance made for couplings.

Casing Size
***O.D. 21½"**
21.500"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
22	.8874	1.1269	.0211
22 ¹ / ₈	1.1124	.8989	.0265
22 ¹ / ₄	1.3387	.7470	.0319
22 ³ / ₈	1.5663	.6384	.0373
22 ¹ / ₂	1.7952	.5570	.0427
22 ⁵ / ₈	2.0253	.4937	.0482
22 ³ / ₄	2.2567	.4431	.0537
22 ⁷ / ₈	2.4894	.4017	.0593
23	2.7234	.3672	.0648
23 ¹ / ₈	2.9586	.3380	.0704
23 ¹ / ₄	3.1951	.3130	.0761
23 ³ / ₈	3.4329	.2913	.0817
23 ¹ / ₂	3.6720	.2723	.0874
23 ⁵ / ₈	3.9123	.2556	.0932
23 ³ / ₄	4.1539	.2407	.0989
23 ⁷ / ₈	4.3968	.2274	.1047
24	4.6410	.2155	.1105
24 ¹ / ₄	5.1331	.1948	.1222
24 ¹ / ₂	5.6304	.1776	.1341
24 ³ / ₄	6.1327	.1631	.1460
25	6.6402	.1506	.1581
25 ¹ / ₄	7.1527	.1398	.1703
25 ¹ / ₂	7.6704	.1304	.1826
25 ³ / ₄	8.1931	.1221	.1951
26	8.7210	.1147	.2076
26 ¹ / ₄	9.2539	.1081	.2203
26 ¹ / ₂	9.7920	.1021	.2331
26 ³ / ₄	10.3351	.0968	.2461
27	10.8834	.0919	.2591
27 ¹ / ₄	11.4367	.0874	.2723
27 ¹ / ₂	11.9952	.0834	.2856
27 ³ / ₄	12.5587	.0796	.2990
28	13.1274	.0762	.3126
28 ¹ / ₄	13.7011	.0730	.3262
28 ¹ / ₂	14.2800	.0700	.3400
28 ³ / ₄	14.8639	.0673	.3539
29	15.4530	.0647	.3679
29 ¹ / ₄	16.0471	.0623	.3821
29 ¹ / ₂	16.6464	.0601	.3963
29 ³ / ₄	17.2507	.0580	.4107
30	17.8602	.0560	.4252
30 ¹ / ₄	18.4747	.0541	.4399
30 ¹ / ₂	19.0944	.0524	.4546
30 ³ / ₄	19.7191	.0507	.4695
31	20.3490	.0491	.4845
31 ¹ / ₄	20.9839	.0477	.4996
31 ¹ / ₂	21.6239	.0462	.5149
31 ³ / ₄	22.2691	.0449	.5302
32	22.9193	.0436	.5457

NO.122-B

BETWEEN CASING & HOLE**
Casing Size
***O.D. 21½"**
21.500"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
47.3294	.1186	8.4297	22
37.7550	.1487	6.7245	22 ¹ / ₈
31.3726	.1790	5.5877	22 ¹ / ₄
26.8142	.2094	4.7758	22 ³ / ₈
23.3958	.2400	4.1670	22 ¹ / ₂
20.7373	.2707	3.6935	22 ⁵ / ₈
18.6109	.3017	3.3147	22 ³ / ₄
16.8713	.3328	3.0049	22 ⁷ / ₈
15.4219	.3641	2.7468	23
14.1958	.3955	2.5284	23 ¹ / ₈
13.1450	.4271	2.3412	23 ¹ / ₄
12.2344	.4589	2.1790	23 ³ / ₈
11.4379	.4909	2.0372	23 ¹ / ₂
10.7353	.5230	1.9120	23 ⁵ / ₈
10.1109	.5553	1.8008	23 ³ / ₄
9.5523	.5878	1.7013	23 ⁷ / ₈
9.0498	.6204	1.6118	24
8.1821	.6862	1.4573	24 ¹ / ₄
7.4595	.7527	1.3286	24 ¹ / ₂
6.8485	.8198	1.2198	24 ³ / ₄
6.3251	.8877	1.1266	25
5.8719	.9562	1.0458	25 ¹ / ₄
5.4756	1.0254	.9752	25 ¹ / ₂
5.1262	1.0953	.9130	25 ³ / ₄
4.8160	1.1658	.8578	26
4.5386	1.2371	.8084	26 ¹ / ₄
4.2892	1.3090	.7639	26 ¹ / ₂
4.0638	1.3816	.7238	26 ³ / ₄
3.8591	1.4549	.6873	27
3.6724	1.5289	.6541	27 ¹ / ₄
3.5014	1.6035	.6236	27 ¹ / ₂
3.3443	1.6789	.5956	27 ³ / ₄
3.1994	1.7549	.5698	28
3.0654	1.8316	.5460	28 ¹ / ₄
2.9412	1.9090	.5238	28 ¹ / ₂
2.8256	1.9870	.5033	28 ³ / ₄
2.7179	2.0658	.4841	29
2.6173	2.1452	.4662	29 ¹ / ₄
2.5231	2.2253	.4494	29 ¹ / ₂
2.4347	2.3061	.4336	29 ³ / ₄
2.3516	2.3876	.4188	30
2.2734	2.4697	.4049	30 ¹ / ₄
2.1996	2.5525	.3918	30 ¹ / ₂
2.1299	2.6361	.3794	30 ³ / ₄
2.0640	2.7203	.3676	31
2.0015	2.8051	.3565	31 ¹ / ₄
1.9423	2.8907	.3459	31 ¹ / ₂
1.8860	2.9769	.3359	31 ³ / ₄
1.8325	3.0639	.3264	32

**Note: No allowance made for couplings.

Casing Size

*O.D. 24 $\frac{1}{2}$ "

24.500"

TABLE

VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
25	1.0098	.9903	.0240
25 $\frac{1}{8}$	1.2654	.7902	.0301
25 $\frac{1}{4}$	1.5223	.6569	.0362
25 $\frac{3}{8}$	1.7805	.5616	.0424
25 $\frac{1}{2}$	2.0400	.4902	.0486
25 $\frac{5}{8}$	2.3007	.4346	.0548
25 $\frac{3}{4}$	2.5627	.3902	.0610
25 $\frac{7}{8}$	2.8260	.3539	.0673
26	3.0906	.3236	.0736
26 $\frac{1}{4}$	3.6235	.2760	.0863
26 $\frac{1}{2}$	4.1616	.2403	.0991
26 $\frac{3}{4}$	4.7047	.2126	.1120
27	5.2530	.1904	.1251
27 $\frac{1}{4}$	5.8063	.1722	.1382
27 $\frac{1}{2}$	6.3648	.1571	.1515
27 $\frac{3}{4}$	6.9283	.1443	.1650
28	7.4970	.1334	.1785
28 $\frac{1}{4}$	8.0707	.1239	.1922
28 $\frac{1}{2}$	8.6496	.1156	.2059
28 $\frac{3}{4}$	9.2335	.1083	.2198
29	9.8226	.1018	.2339
29 $\frac{1}{4}$	10.4167	.0960	.2480
29 $\frac{1}{2}$	11.0160	.0908	.2623
29 $\frac{3}{4}$	11.6203	.0861	.2767
30	12.2298	.0818	.2912
30 $\frac{1}{4}$	12.8443	.0779	.3058
30 $\frac{1}{2}$	13.4640	.0743	.3206
30 $\frac{3}{4}$	14.0887	.0710	.3354
31	14.7186	.0679	.3504
31 $\frac{1}{4}$	15.3535	.0651	.3656
31 $\frac{1}{2}$	15.9936	.0625	.3808
31 $\frac{3}{4}$	16.6387	.0601	.3962
32	17.2890	.0578	.4116
32 $\frac{1}{4}$	17.9443	.0557	.4272
32 $\frac{1}{2}$	18.6048	.0537	.4430
32 $\frac{3}{4}$	19.2703	.0519	.4588
33	19.9410	.0501	.4748
33 $\frac{1}{4}$	20.6167	.0485	.4909
33 $\frac{1}{2}$	21.2976	.0470	.5071
33 $\frac{3}{4}$	21.9835	.0455	.5234
34	22.6745	.0441	.5399
34 $\frac{1}{4}$	23.3707	.0428	.5564
34 $\frac{1}{2}$	24.0719	.0415	.5731
34 $\frac{3}{4}$	24.7783	.0404	.5900
35	25.4897	.0392	.6069
35 $\frac{1}{4}$	26.2063	.0382	.6240
35 $\frac{1}{2}$	26.9279	.0371	.6411
35 $\frac{3}{4}$	27.6547	.0362	.6584
36	28.3865	.0352	.6759

NO.122-B

BETWEEN CASING & HOLE**
Casing Size
***O.D. 24 $\frac{1}{2}$ "**
24.500"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
41.5925	.1350	7.4079	25
33.1902	.1692	5.9114	25 $\frac{1}{8}$
27.5890	.2035	4.9138	25 $\frac{1}{4}$
23.5884	.2380	4.2013	25 $\frac{3}{8}$
20.5883	.2727	3.6669	25 $\frac{1}{2}$
18.2551	.3076	3.2514	25 $\frac{5}{8}$
16.3887	.3426	2.9189	25 $\frac{3}{4}$
14.8618	.3778	2.6470	25 $\frac{7}{8}$
13.5896	.4132	2.4204	26
11.5909	.4844	2.0644	26 $\frac{1}{4}$
10.0923	.5563	1.7975	26 $\frac{1}{2}$
8.9272	.6289	1.5900	26 $\frac{3}{4}$
7.9954	.7022	1.4241	27
7.2335	.7762	1.2883	27 $\frac{1}{4}$
6.5988	.8508	1.1753	27 $\frac{1}{2}$
6.0621	.9262	1.0797	27 $\frac{3}{4}$
5.6023	1.0022	.9978	28
5.2040	1.0789	.9269	28 $\frac{1}{4}$
4.8557	1.1563	.8648	28 $\frac{1}{2}$
4.5486	1.2343	.8101	28 $\frac{3}{4}$
4.2759	1.3131	.7616	29
4.0320	1.3925	.7181	29 $\frac{1}{4}$
3.8126	1.4726	.6791	29 $\frac{1}{2}$
3.6144	1.5534	.6437	29 $\frac{3}{4}$
3.4342	1.6349	.6117	30
3.2699	1.7170	.5824	30 $\frac{1}{4}$
3.1194	1.7999	.5556	30 $\frac{1}{2}$
2.9811	1.8834	.5310	30 $\frac{3}{4}$
2.8535	1.9676	.5082	31
2.7355	2.0525	.4872	31 $\frac{1}{4}$
2.6261	2.1380	.4677	31 $\frac{1}{2}$
2.5242	2.2243	.4496	31 $\frac{3}{4}$
2.4293	2.3112	.4327	32
2.3406	2.3988	.4169	32 $\frac{1}{4}$
2.2575	2.4871	.4021	32 $\frac{1}{2}$
2.1795	2.5761	.3882	32 $\frac{3}{4}$
2.1062	2.6657	.3751	33
2.0372	2.7561	.3628	33 $\frac{1}{4}$
1.9721	2.8471	.3512	33 $\frac{1}{2}$
1.9105	2.9388	.3403	33 $\frac{3}{4}$
1.8523	3.0311	.3299	34
1.7971	3.1242	.3201	34 $\frac{1}{4}$
1.7448	3.2180	.3108	34 $\frac{1}{2}$
1.6950	3.3124	.3019	34 $\frac{3}{4}$
1.6477	3.4075	.2935	35
1.6027	3.5033	.2854	35 $\frac{1}{4}$
1.5597	3.5997	.2778	35 $\frac{1}{2}$
1.5187	3.6969	.2705	35 $\frac{3}{4}$
1.4796	3.7947	.2635	36

**Note: No allowance made for couplings.

Drill Pipe Size

O.D. 2.375"

TABLE

VOLUME & HEIGHT BETWEEN

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
3 ¹ / ₂	.2697	3.7083	.0064
3 ⁵ / ₈	.3060	3.2680	.0073
3 ³ / ₄	.3436	2.9103	.0082
3 ⁷ / ₈	.3825	2.6144	.0091
4	.4227	2.3660	.0101
4 ¹ / ₈	.4641	2.1547	.0110
4 ¹ / ₄	.5068	1.9731	.0121
4 ³ / ₈	.5508	1.8155	.0131
4 ¹ / ₂	.5961	1.6777	.0142
4 ⁵ / ₈	.6426	1.5562	.0153
4 ³ / ₄	.6904	1.4484	.0164
4 ⁷ / ₈	.7395	1.3523	.0176
5	.7899	1.2660	.0188
5 ¹ / ₈	.8415	1.1884	.0200
5 ¹ / ₄	.8944	1.1181	.0213
5 ³ / ₈	.9486	1.0542	.0226
5 ¹ / ₂	1.0041	.9960	.0239
5 ⁵ / ₈	1.0608	.9427	.0253
5 ³ / ₄	1.1188	.8938	.0266
5 ⁷ / ₈	1.1781	.8488	.0280
6	1.2387	.8073	.0295
6 ¹ / ₈	1.3005	.7689	.0310
6 ¹ / ₄	1.3636	.7333	.0325
6 ³ / ₈	1.4280	.7003	.0340
6 ¹ / ₂	1.4937	.6695	.0356
6 ⁵ / ₈	1.5606	.6408	.0372
6 ³ / ₄	1.6288	.6139	.0388
6 ⁷ / ₈	1.6983	.5888	.0404
7	1.7691	.5653	.0421
7 ¹ / ₈	1.8411	.5432	.0438
7 ¹ / ₄	1.9144	.5224	.0456
7 ³ / ₈	1.9890	.5028	.0474
7 ¹ / ₂	2.0649	.4843	.0492
7 ⁵ / ₈	2.1420	.4669	.0510
7 ³ / ₄	2.2204	.4504	.0529
7 ⁷ / ₈	2.3001	.4348	.0548
8	2.3811	.4200	.0567
8 ¹ / ₈	2.4633	.4060	.0586
8 ¹ / ₄	2.5468	.3926	.0606
8 ³ / ₈	2.6316	.3800	.0627
8 ¹ / ₂	2.7177	.3680	.0647
8 ⁵ / ₈	2.8050	.3565	.0668
8 ³ / ₄	2.8936	.3456	.0689
8 ⁷ / ₈	2.9835	.3352	.0710
9	3.0747	.3252	.0732
9 ¹ / ₈	3.1671	.3157	.0754
9 ¹ / ₄	3.2608	.3067	.0776
9 ³ / ₈	3.3558	.2980	.0799
9 ¹ / ₂	3.4521	.2897	.0822

NO.122-A

DRILL PIPE & HOLE****Drill Pipe Size
O.D. 2.375"**

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
155.7506	.0360	27.7404	3 ¹ / ₂
137.2552	.0409	24.4462	3 ⁵ / ₈
122.2310	.0459	21.7703	3 ³ / ₄
109.8042	.0511	19.5570	3 ⁷ / ₈
99.3703	.0565	17.6986	4
90.4979	.0620	16.1184	4 ¹ / ₈
82.8711	.0678	14.7600	4 ¹ / ₄
76.2529	.0736	13.5812	4 ³ / ₈
70.4626	.0797	12.5499	4 ¹ / ₂
65.3596	.0859	11.6410	4 ⁵ / ₈
60.8333	.0923	10.8349	4 ³ / ₄
56.7953	.0989	10.1157	4 ⁷ / ₈
53.1739	.1056	9.4707	5
49.9110	.1125	8.8895	5 ¹ / ₈
46.9583	.1196	8.3636	5 ¹ / ₄
44.2759	.1268	7.8859	5 ³ / ₈
41.8302	.1342	7.4503	5 ¹ / ₂
39.5929	.1418	7.0518	5 ⁵ / ₈
37.5399	.1496	6.6861	5 ³ / ₄
35.6507	.1575	6.3497	5 ⁷ / ₈
33.9076	.1656	6.0392	6
32.2953	.1739	5.7520	6 ¹ / ₈
30.8006	.1823	5.4858	6 ¹ / ₄
29.4118	.1909	5.2385	6 ³ / ₈
28.1189	.1997	5.0082	6 ¹ / ₂
26.9128	.2086	4.7934	6 ⁵ / ₈
25.7857	.2177	4.5926	6 ³ / ₄
24.7307	.2270	4.4047	6 ⁷ / ₈
23.7414	.2365	4.2285	7
22.8125	.2461	4.0631	7 ¹ / ₈
21.9389	.2559	3.9075	7 ¹ / ₄
21.1162	.2659	3.7610	7 ³ / ₈
20.3404	.2760	3.6228	7 ¹ / ₂
19.6079	.2863	3.4923	7 ⁵ / ₈
18.9154	.2968	3.3690	7 ³ / ₄
18.2601	.3075	3.2523	7 ⁷ / ₈
17.6392	.3183	3.1417	8
17.0503	.3293	3.0368	8 ¹ / ₈
16.4912	.3405	2.9372	8 ¹ / ₄
15.9599	.3518	2.8426	8 ³ / ₈
15.4545	.3633	2.7526	8 ¹ / ₂
14.9733	.3750	2.6669	8 ⁵ / ₈
14.5148	.3868	2.5852	8 ³ / ₄
14.0775	.3988	2.5073	8 ⁷ / ₈
13.6601	.4110	2.4330	9
13.2614	.4234	2.3620	9 ¹ / ₈
12.8803	.4359	2.2941	9 ¹ / ₄
12.5157	.4486	2.2291	9 ³ / ₈
12.1667	.4615	2.1670	9 ¹ / ₂

**Note: No allowance made for couplings.

Drill Pipe Size
O.D. 2.875"

TABLE

VOLUME & HEIGHT BETWEEN

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
3 ¹ / ₂	.1626	6.1515	.0039
3 ⁵ / ₈	.1989	5.0277	.0047
3 ³ / ₄	.2365	4.2281	.0056
3 ⁷ / ₈	.2754	3.6311	.0066
4	.3156	3.1690	.0075
4 ¹ / ₈	.3570	2.8011	.0085
4 ¹ / ₄	.3997	2.5018	.0095
4 ³ / ₈	.4437	2.2538	.0106
4 ¹ / ₂	.4890	2.0452	.0116
4 ⁵ / ₈	.5355	1.8674	.0127
4 ³ / ₄	.5833	1.7144	.0139
4 ⁷ / ₈	.6324	1.5813	.0151
5	.6828	1.4646	.0163
5 ¹ / ₈	.7344	1.3617	.0175
5 ¹ / ₄	.7873	1.2701	.0187
5 ³ / ₈	.8415	1.1884	.0200
5 ¹ / ₂	.8970	1.1149	.0214
5 ⁵ / ₈	.9537	1.0486	.0227
5 ³ / ₄	1.0117	.9884	.0241
5 ⁷ / ₈	1.0710	.9337	.0255
6	1.1316	.8837	.0269
6 ¹ / ₈	1.1934	.8379	.0284
6 ¹ / ₄	1.2565	.7959	.0299
6 ³ / ₈	1.3209	.7571	.0314
6 ¹ / ₂	1.3866	.7212	.0330
6 ⁵ / ₈	1.4535	.6880	.0346
6 ³ / ₄	1.5217	.6572	.0362
6 ⁷ / ₈	1.5912	.6285	.0379
7	1.6620	.6017	.0396
7 ¹ / ₈	1.7340	.5767	.0413
7 ¹ / ₄	1.8073	.5533	.0430
7 ³ / ₈	1.8819	.5314	.0448
7 ¹ / ₂	1.9578	.5108	.0466
7 ⁵ / ₈	2.0349	.4914	.0484
7 ³ / ₄	2.1133	.4732	.0503
7 ⁷ / ₈	2.1930	.4560	.0522
8	2.2740	.4398	.0541
8 ¹ / ₈	2.3562	.4244	.0561
8 ¹ / ₄	2.4397	.4099	.0581
8 ³ / ₈	2.5245	.3961	.0601
8 ¹ / ₂	2.6106	.3831	.0622
8 ⁵ / ₈	2.6979	.3707	.0642
8 ³ / ₄	2.7865	.3589	.0663
8 ⁷ / ₈	2.8764	.3477	.0685
9	2.9676	.3370	.0707
9 ¹ / ₈	3.0600	.3268	.0729
9 ¹ / ₄	3.1537	.3171	.0751
9 ³ / ₈	3.2487	.3078	.0773
9 ¹ / ₂	3.3450	.2990	.0796

NO.122-A

DRILL PIPE & HOLE****Drill Pipe Size
O.D. 2.875"**

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
258.3628	.0217	46.0164	3 ¹ / ₂
211.1619	.0266	37.6095	3 ⁵ / ₈
177.5809	.0316	31.6285	3 ³ / ₄
152.5058	.0368	27.1624	3 ⁷ / ₈
133.0960	.0422	23.7054	4
117.6473	.0477	20.9539	4 ¹ / ₈
105.0758	.0534	18.7148	4 ¹ / ₄
94.6588	.0593	16.8594	4 ³ / ₈
85.8964	.0654	15.2988	4 ¹ / ₂
78.4316	.0716	13.9693	4 ⁵ / ₈
72.0027	.0780	12.8242	4 ³ / ₄
66.4138	.0845	11.8288	4 ⁷ / ₈
61.5149	.0913	10.9563	5
57.1897	.0982	10.1859	5 ¹ / ₈
53.3462	.1052	9.5014	5 ¹ / ₄
49.9110	.1125	8.8895	5 ³ / ₈
46.8248	.1199	8.3399	5 ¹ / ₂
44.0391	.1275	7.8437	5 ⁵ / ₈
41.5139	.1352	7.3939	5 ³ / ₄
39.2158	.1432	6.9846	5 ⁷ / ₈
37.1169	.1513	6.6108	6
35.1936	.1595	6.2683	6 ¹ / ₈
33.4259	.1680	5.9534	6 ¹ / ₄
31.7966	.1766	5.6632	6 ³ / ₈
30.2908	.1854	5.3950	6 ¹ / ₂
28.8958	.1943	5.1466	6 ⁵ / ₈
27.6005	.2034	4.9159	6 ³ / ₄
26.3952	.2127	4.7012	6 ⁷ / ₈
25.2714	.2222	4.5010	7
24.2215	.2318	4.3140	7 ¹ / ₈
23.2390	.2416	4.1390	7 ¹ / ₄
22.3179	.2516	3.9750	7 ³ / ₈
21.4531	.2617	3.8210	7 ¹ / ₂
20.6399	.2720	3.6761	7 ⁵ / ₈
19.8741	.2825	3.5397	7 ³ / ₄
19.1519	.2923	3.4111	7 ⁷ / ₈
18.4700	.3040	3.2896	8
17.8254	.3150	3.1748	8 ¹ / ₈
17.2152	.3261	3.0662	8 ¹ / ₄
16.6370	.3375	2.9632	8 ³ / ₈
16.0885	.3490	2.8655	8 ¹ / ₂
15.5677	.3607	2.7727	8 ⁵ / ₈
15.0726	.3725	2.6846	8 ³ / ₄
14.6016	.3845	2.6007	8 ⁷ / ₈
14.1531	.3967	2.5208	9
13.7255	.4091	2.4446	9 ¹ / ₈
13.3177	.4216	2.3720	9 ¹ / ₄
12.9283	.4343	2.3026	9 ³ / ₈
12.5562	.4472	2.2364	9 ¹ / ₂

**Note: No allowance made for couplings.

Drill Pipe Size

O.D. 3.500"

TABLE

VOLUME & HEIGHT BETWEEN

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
4	.1530	6.5360	.0036
4 ¹ / ₈	.1944	5.1431	.0046
4 ¹ / ₄	.2371	4.2168	.0056
4 ³ / ₈	.2811	3.5570	.0067
4 ¹ / ₂	.3264	3.0637	.0078
4 ⁵ / ₈	.3729	2.6814	.0089
4 ³ / ₄	.4207	2.3767	.0100
4 ⁷ / ₈	.4698	2.1284	.0112
5	.5202	1.9223	.0124
5 ¹ / ₈	.5718	1.7488	.0136
5 ¹ / ₄	.6247	1.6006	.0149
5 ³ / ₈	.6789	1.4729	.0162
5 ¹ / ₂	.7344	1.3617	.0175
5 ⁵ / ₈	.7911	1.2640	.0188
5 ³ / ₄	.8491	1.1777	.0202
5 ⁷ / ₈	.9084	1.1008	.0216
6	.9690	1.0320	.0231
6 ¹ / ₈	1.0308	.9701	.0245
6 ¹ / ₄	1.0939	.9141	.0260
6 ³ / ₈	1.1583	.8633	.0267
6 ¹ / ₂	1.2240	.8170	.0291
6 ⁵ / ₈	1.2909	.7746	.0307
6 ³ / ₄	1.3591	.7358	.0324
6 ⁷ / ₈	1.4286	.7000	.0340
7	1.4994	.6669	.0357
7 ¹ / ₈	1.5714	.6364	.0374
7 ¹ / ₄	1.6447	.6080	.0392
7 ³ / ₈	1.7193	.5816	.0409
7 ¹ / ₂	1.7952	.5570	.0427
7 ⁵ / ₈	1.8723	.5341	.0484
7 ³ / ₄	1.9507	.5126	.0446
7 ⁷ / ₈	2.0304	.4925	.0483
8	2.1114	.4736	.0503
8 ¹ / ₈	2.1936	.4559	.0522
8 ¹ / ₄	2.2771	.4391	.0542
8 ³ / ₈	2.3619	.4234	.0562
8 ¹ / ₂	2.4480	.4085	.0583
8 ⁵ / ₈	2.5353	.3944	.0604
8 ³ / ₄	2.6239	.3811	.0625
8 ⁷ / ₈	2.7138	.3685	.0646
9	2.8050	.3565	.0668
9 ¹ / ₈	2.8974	.3451	.0690
9 ¹ / ₄	2.9911	.3343	.0712
9 ³ / ₈	3.0861	.3240	.0735
9 ¹ / ₂	3.1824	.3142	.0758
9 ⁵ / ₈	3.2799	.3049	.0781
9 ³ / ₄	3.3787	.2960	.0804
9 ⁷ / ₈	3.4788	.2875	.0828
10	3.5802	.2793	.0852

NO.122-A

DRILL PIPE & HOLE****Drill Pipe Size
O.D. 3.500"**

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
274.5104	.0205	48.8924	4
216.0082	.0260	38.4727	4 ¹ / ₈
177.1035	.0317	31.5435	4 ¹ / ₄
149.3934	.0376	26.6081	4 ³ / ₈
128.6768	.0436	22.9183	4 ¹ / ₂
112.6197	.0499	20.0584	4 ⁵ / ₈
99.8220	.0562	17.7791	4 ³ / ₄
89.3928	.0628	15.9215	4 ⁷ / ₈
80.7384	.0695	14.3801	5
73.4476	.0764	13.0816	5 ¹ / ₈
67.2270	.0835	11.9736	5 ¹ / ₄
61.8615	.0908	11.0180	5 ³ / ₈
57.1897	.0982	10.1859	5 ¹ / ₂
53.0882	.1058	9.4454	5 ⁵ / ₈
49.4613	.1135	8.8094	5 ³ / ₄
46.2333	.1214	8.2345	5 ⁷ / ₈
43.3438	.1295	7.7199	6
40.7437	.1378	7.2568	6 ¹ / ₈
38.3931	.1462	6.8381	6 ¹ / ₄
36.2589	.1548	6.4580	6 ³ / ₈
34.3138	.1636	6.1115	6 ¹ / ₂
32.5346	.1726	5.7947	6 ⁵ / ₈
30.9017	.1817	5.5038	6 ³ / ₄
29.3987	.1910	5.2361	6 ⁷ / ₈
28.0113	.2004	4.9890	7
26.7272	.2101	4.7603	7 ¹ / ₈
25.5359	.2199	4.5481	7 ¹ / ₄
24.4281	.2298	4.3508	7 ³ / ₈
23.3958	.2400	4.1670	7 ¹ / ₂
22.4319	.2503	3.9953	7 ⁵ / ₈
21.5302	.2608	3.8347	7 ³ / ₄
20.6852	.2714	3.6842	7 ⁷ / ₈
19.8921	.2823	3.5429	8
19.1463	.2932	3.4101	8 ¹ / ₈
18.4442	.3044	3.2850	8 ¹ / ₄
17.7821	.3157	3.1671	8 ³ / ₈
17.1569	.3272	3.0558	8 ¹ / ₂
16.5659	.3389	2.9505	8 ⁵ / ₈
16.0064	.3508	2.8509	8 ³ / ₄
15.4763	.3628	2.7564	8 ⁷ / ₈
14.9733	.3750	2.6669	9
14.4956	.3873	2.5818	9 ¹ / ₈
14.0415	.3999	2.5009	9 ¹ / ₄
13.6093	.4126	2.4239	9 ³ / ₈
13.1976	.4254	2.3506	9 ¹ / ₂
12.8052	.4385	2.2807	9 ⁵ / ₈
12.4307	.4517	2.2140	9 ³ / ₄
12.0730	.4651	2.1503	9 ⁷ / ₈
11.7312	.4786	2.0894	10

**Note: No allowance made for couplings.

Drill Pipe Size
O.D. 4.000"

TABLE

VOLUME & HEIGHT BETWEEN

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
4 ¹ / ₄	.0841	11.8836	.0020
4 ³ / ₈	.1281	7.8041	.0031
4 ¹ / ₂	.1734	5.7670	.0041
4 ⁵ / ₈	.2199	4.5468	.0052
4 ³ / ₄	.2677	3.7348	.0064
4 ⁷ / ₈	.3168	3.1562	.0075
5	.3672	2.7233	.0087
5 ¹ / ₈	.4188	2.3876	.0100
5 ¹ / ₄	.4717	2.1198	.0112
5 ³ / ₈	.5259	1.9014	.0125
5 ¹ / ₂	.5814	1.7200	.0138
5 ⁵ / ₈	.6381	1.5671	.0152
5 ³ / ₄	.6961	1.4365	.0166
5 ⁷ / ₈	.7554	1.3237	.0180
6	.8160	1.2255	.0194
6 ¹ / ₈	.8778	1.1392	.0209
6 ¹ / ₄	.9409	1.0628	.0224
6 ³ / ₈	1.0053	.9947	.0239
6 ¹ / ₂	1.0710	.9337	.0255
6 ⁵ / ₈	1.1379	.8788	.0271
6 ³ / ₄	1.2061	.8291	.0287
6 ⁷ / ₈	1.2756	.7839	.0304
7	1.3464	.7427	.0321
7 ¹ / ₈	1.4184	.7050	.0338
7 ¹ / ₄	1.4917	.6704	.0355
7 ³ / ₈	1.5663	.6384	.0373
7 ¹ / ₂	1.6422	.6089	.0391
7 ⁵ / ₈	1.7193	.5816	.0409
7 ³ / ₄	1.7977	.5563	.0428
7 ⁷ / ₈	1.8774	.5326	.0447
8	1.9584	.5106	.0466
8 ¹ / ₈	2.0406	.4900	.0486
8 ¹ / ₄	2.1241	.4708	.0506
8 ³ / ₈	2.2089	.4527	.0526
8 ¹ / ₂	2.2950	.4357	.0546
8 ⁵ / ₈	2.3823	.4198	.0567
8 ³ / ₄	2.4709	.4047	.0588
8 ⁷ / ₈	2.5608	.3905	.0610
9	2.6520	.3771	.0631
9 ¹ / ₈	2.7444	.3644	.0653
9 ¹ / ₄	2.8381	.3523	.0676
9 ³ / ₈	2.9331	.3409	.0698
9 ¹ / ₂	3.0294	.3301	.0721
9 ⁵ / ₈	3.1269	.3198	.0745
9 ³ / ₄	3.2257	.3100	.0768
9 ⁷ / ₈	3.3258	.3007	.0792
10	3.4272	.2918	.0816

NO.122-A

DRILL PIPE & HOLE****Drill Pipe Size
O.D. 4.000"**

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
499.1100	.0112	88.8953	4 ¹ / ₄
327.7737	.0171	58.3790	4 ³ / ₈
242.2151	.0232	43.1403	4 ¹ / ₂
190.9638	.0294	34.0121	4 ⁵ / ₈
156.8631	.0358	27.9385	4 ³ / ₄
132.5604	.0424	23.6100	4 ⁷ / ₈
114.3794	.0491	20.3718	5
100.2778	.0560	17.8602	5 ¹ / ₈
89.0304	.0631	15.8570	5 ¹ / ₄
79.8576	.0703	14.2232	5 ³ / ₈
72.2396	.0777	12.8664	5 ¹ / ₂
65.8167	.0853	11.7225	5 ⁵ / ₈
60.3320	.0931	10.7456	5 ³ / ₄
55.5971	.1010	9.9023	5 ⁷ / ₈
51.4707	.1091	9.1673	6
47.8450	.1173	8.5216	6 ¹ / ₈
44.6358	.1258	7.9500	6 ¹ / ₄
41.7771	.1344	7.4408	6 ³ / ₈
39.2158	.1432	6.9846	6 ¹ / ₂
36.9090	.1521	6.5738	6 ⁵ / ₈
34.8216	.1612	6.2020	6 ³ / ₄
32.9248	.1705	5.8642	6 ⁷ / ₈
31.1944	.1800	5.5560	7
29.6101	.1896	5.2738	7 ¹ / ₈
28.1549	.1994	5.0146	7 ¹ / ₄
26.8142	.2094	4.7758	7 ³ / ₈
25.5755	.2195	4.5552	7 ¹ / ₂
24.4281	.2298	4.3508	7 ⁵ / ₈
23.3626	.2403	4.1611	7 ³ / ₄
22.3710	.2510	3.9844	7 ⁷ / ₈
21.4461	.2618	3.8197	8
20.5819	.2728	3.6658	8 ¹ / ₈
19.7727	.2840	3.5217	8 ¹ / ₄
19.0137	.2953	3.3865	8 ³ / ₈
18.3007	.3068	3.2595	8 ¹ / ₂
17.6298	.3185	3.1400	8 ⁵ / ₈
16.9976	.3303	3.0274	8 ³ / ₄
16.4009	.3423	2.9211	8 ⁷ / ₈
15.8371	.3545	2.8207	9
15.3037	.3669	2.7257	9 ¹ / ₈
14.7984	.3794	2.6357	9 ¹ / ₄
14.3192	.3921	2.5504	9 ³ / ₈
13.8642	.4050	2.4693	9 ¹ / ₂
13.4317	.4180	2.3923	9 ⁵ / ₈
13.0203	.4312	2.3190	9 ³ / ₄
12.6284	.4446	2.2492	9 ⁷ / ₈
12.2549	.4581	2.1827	10

**Note: No allowance made for couplings.

Drill Pipe Size

O.D. 4½"

TABLE NO. 122-A

4.500"

VOLUME & HEIGHT BETWEEN

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
5	.1938	5.1600	.0046
5 ¹ / ₈	.2454	4.0744	.0058
5 ¹ / ₄	.2983	3.3518	.0071
5 ³ / ₈	.3525	2.8366	.0084
5 ¹ / ₂	.4080	2.4510	.0097
5 ⁵ / ₈	.4647	2.1518	.0111
5 ³ / ₄	.5227	1.9130	.0124
5 ⁷ / ₈	.5820	1.7181	.0139
6	.6426	1.5562	.0153
6 ¹ / ₈	.7044	1.4196	.0168
6 ¹ / ₄	.7675	1.3029	.0183
6 ³ / ₈	.8319	1.2020	.0198
6 ¹ / ₂	.8976	1.1141	.0214
6 ⁵ / ₈	.9645	1.0368	.0230
6 ³ / ₄	1.0327	.9683	.0246
6 ⁷ / ₈	1.1022	.9072	.0262
7	1.1730	.8525	.0279
7 ¹ / ₈	1.2450	.8032	.0296
7 ¹ / ₄	1.3183	.7585	.0314
7 ³ / ₈	1.3929	.7179	.0332
7 ¹ / ₂	1.4688	.6808	.0350
7 ⁵ / ₈	1.5459	.6469	.0368
7 ³ / ₄	1.6243	.6156	.0387
7 ⁷ / ₈	1.7040	.5868	.0406
8	1.7850	.5602	.0425
8 ¹ / ₈	1.8672	.5356	.0445
8 ¹ / ₄	1.9507	.5126	.0464
8 ³ / ₈	2.0355	.4913	.0485
8 ¹ / ₂	2.1216	.4713	.0505
8 ⁵ / ₈	2.2089	.4527	.0526
8 ³ / ₄	2.2975	.4352	.0547
8 ⁷ / ₈	2.3874	.4189	.0568
9	2.4786	.4035	.0590
9 ¹ / ₈	2.5710	.3889	.0612
9 ¹ / ₄	2.6647	.3753	.0634
9 ³ / ₈	2.7597	.3624	.0657
9 ¹ / ₂	2.8560	.3501	.0680
9 ⁵ / ₈	2.9535	.3386	.0703
9 ³ / ₄	3.0523	.3276	.0727
9 ⁷ / ₈	3.1524	.3172	.0751
10	3.2538	.3073	.0775
10 ¹ / ₈	3.3564	.2979	.0799
10 ¹ / ₄	3.4603	.2890	.0824
10 ³ / ₈	3.5655	.2805	.0849
10 ¹ / ₂	3.6720	.2723	.0874
10 ⁵ / ₈	3.7797	.2646	.0900
10 ³ / ₄	3.8887	.2572	.0926
10 ⁷ / ₈	3.9990	.2501	.0952

AND NO. 122-B { O.D. 4 1/2" - 4.500" Tubing } & HOLE** { or 4 1/2" O.D. 4.500" Casing }			Drill Pipe Size O.D. 4 1/2" 4.500"
Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
216.7189	.0259	38.5993	5
171.1235	.0328	30.4784	5 1/8
140.7747	.0399	25.0730	5 1/4
119.1366	.0471	21.2191	5 3/8
102.9415	.0545	18.3347	5 1/2
90.3739	.0621	16.0963	5 5/8
80.3446	.0699	14.3100	5 3/4
72.1605	.0778	12.8523	5 7/8
65.3597	.0859	11.6411	6
59.6222	.0942	10.6192	6 1/8
54.7197	.1026	9.7460	6 1/4
50.4847	.1112	8.9917	6 3/8
46.7916	.1200	8.3339	6 1/2
43.5443	.1289	7.7556	6 5/8
40.6682	.1381	7.2433	6 3/4
38.1044	.1473	6.7867	6 7/8
35.8057	.1568	6.3773	7
33.7340	.1664	6.0083	7 1/8
31.8581	.1762	5.6742	7 1/4
30.1522	.1862	5.3703	7 3/8
28.5949	.1963	5.0930	7 1/2
27.1681	.2067	4.8388	7 5/8
25.8566	.2171	4.6053	7 3/4
24.6474	.2278	4.3899	7 7/8
23.5295	.2386	4.1908	8
22.4932	.2496	4.0062	8 1/8
21.5302	.2608	3.8347	8 1/4
20.6334	.2721	3.6750	8 3/8
19.7964	.2836	3.5259	8 1/2
19.0137	.2953	3.3865	8 5/8
18.2804	.3071	3.2559	8 3/4
17.5921	.3192	3.1333	8 7/8
16.9451	.3313	3.0181	9
16.3359	.3437	2.9095	9 1/8
15.7614	.3562	2.8072	9 1/4
15.2189	.3689	2.7106	9 3/8
14.7059	.3818	2.6192	9 1/2
14.2203	.3948	2.5327	9 5/8
13.7599	.4080	2.4507	9 3/4
13.3231	.4214	2.3729	9 7/8
12.9080	.4350	2.2990	10
12.5133	.4487	2.2287	10 1/8
12.1375	.4626	2.1618	10 1/4
11.7795	.4766	2.0980	10 3/8
11.4379	.4909	2.0372	10 1/2
11.1119	.5053	1.9791	10 5/8
10.8004	.5198	1.9236	10 3/4
10.5026	.5346	1.8706	10 7/8

**Note: No allowance made for couplings.

Drill Pipe Size O.D. 5" 5.000"		TABLE VOLUME & HEIGHT	
Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
5 ¹ / ₂	.2142	4.6685	.0051
5 ⁵ / ₈	.2709	3.6909	.0065
5 ³ / ₄	.3289	3.0400	.0078
5 ⁷ / ₈	.3882	2.5757	.0092
6	.4488	2.2282	.0107
6 ¹ / ₈	.5106	1.9583	.0122
6 ¹ / ₄	.5737	1.7429	.0137
6 ³ / ₈	.6381	1.5671	.0152
6 ¹ / ₂	.7038	1.4209	.0168
6 ⁵ / ₈	.7707	1.2975	.0184
6 ³ / ₄	.8389	1.1920	.0200
6 ⁷ / ₈	.9084	1.1008	.0216
7	.9792	1.0212	.0233
7 ¹ / ₈	1.0512	.9513	.0250
7 ¹ / ₄	1.1245	.8892	.0268
7 ³ / ₈	1.1991	.8339	.0286
7 ¹ / ₂	1.2750	.7843	.0304
7 ⁵ / ₈	1.3521	.7396	.0322
7 ³ / ₄	1.4305	.6990	.0341
7 ⁷ / ₈	1.5102	.6621	.0360
8	1.5912	.6285	.0379
8 ¹ / ₈	1.6734	.5976	.0398
8 ¹ / ₄	1.7569	.5692	.0418
8 ³ / ₈	1.8417	.5430	.0439
8 ¹ / ₂	1.9278	.5187	.0459
8 ⁵ / ₈	2.0151	.4962	.0480
8 ³ / ₄	2.1037	.4753	.0501
8 ⁷ / ₈	2.1936	.4559	.0522
9	2.2848	.4377	.0544
9 ¹ / ₈	2.3772	.4207	.0566
9 ¹ / ₄	2.4709	.4047	.0588
9 ³ / ₈	2.5659	.3897	.0611
9 ¹ / ₂	2.6622	.3756	.0634
9 ⁵ / ₈	2.7597	.3624	.0657
9 ³ / ₄	2.8585	.3498	.0681
9 ⁷ / ₈	2.9586	.3380	.0704
10	3.0600	.3268	.0729
10 ¹ / ₈	3.1626	.3162	.0753
10 ¹ / ₄	3.2665	.3061	.0778
10 ³ / ₈	3.3717	.2966	.0803
10 ¹ / ₂	3.4782	.2875	.0828
10 ⁵ / ₈	3.5859	.2789	.0845
10 ³ / ₄	3.6949	.2706	.0880
10 ⁷ / ₈	3.8052	.2628	.0906
11	3.9168	.2553	.0933
11 ¹ / ₈	4.0296	.2482	.0959
11 ¹ / ₄	4.1437	.2413	.0987
11 ³ / ₈	4.2591	.2348	.1014
11 ¹ / ₂	4.3758	.2285	.1042

NO.122-B			Drill Pipe Size
BETWEEN CASING & HOLE**			O.D. 5" 5.000"
Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
196.0789	.0286	34.9231	5 ¹ / ₂
155.0177	.0362	27.6098	5 ⁵ / ₈
127.6793	.0440	22.7407	5 ³ / ₄
108.1815	.0519	19.2679	5 ¹ / ₈
93.5831	.0600	16.6679	6
82.2503	.0683	14.6494	6 ¹ / ₈
73.2028	.0767	13.0380	6 ¹ / ₄
65.8167	.0853	11.7225	6 ³ / ₈
59.6762	.0941	10.6288	6 ¹ / ₂
54.4934	.1030	9.7057	6 ⁵ / ₈
50.0627	.1122	8.9165	6 ³ / ₄
46.2333	.1214	8.2345	6 ⁷ / ₈
42.8923	.1309	7.6394	7
39.9530	.1405	7.1159	7 ¹ / ₈
37.3484	.1503	6.6520	7 ¹ / ₄
35.0253	.1603	6.2383	7 ³ / ₈
32.9413	.1704	5.8671	7 ¹ / ₂
31.0620	.1808	5.5324	7 ⁵ / ₈
29.3594	.1912	5.2291	7 ³ / ₄
27.8103	.2019	4.9532	7 ⁷ / ₈
26.3952	.2127	4.7012	8
25.0981	.2237	4.4702	8 ¹ / ₈
23.9051	.2349	4.2577	8 ¹ / ₄
22.8046	.2462	4.0617	8 ³ / ₈
21.7865	.2577	3.8803	8 ¹ / ₂
20.8423	.2694	3.7122	8 ⁵ / ₈
19.9644	.2812	3.5558	8 ³ / ₄
19.1463	.2932	3.4101	8 ⁷ / ₈
18.3824	.3054	3.2740	9
17.6676	.3178	3.1467	9 ¹ / ₈
16.9976	.3303	3.0274	9 ¹ / ₄
16.3683	.3430	2.9153	9 ³ / ₈
15.7765	.3559	2.8099	9 ¹ / ₂
15.2189	.3689	2.7106	9 ⁵ / ₈
14.6928	.3821	2.6169	9 ³ / ₄
14.1958	.3955	2.5284	9 ⁷ / ₈
13.7255	.4091	2.4446	10
13.2801	.4228	2.3653	10 ¹ / ₈
12.8576	.4367	2.2900	10 ¹ / ₄
12.4565	.4507	2.2186	10 ³ / ₈
12.0752	.4650	2.1507	10 ¹ / ₂
11.7124	.4794	2.0861	10 ⁵ / ₈
11.3669	.4939	2.0245	10 ³ / ₄
11.0374	.5087	1.9659	10 ⁷ / ₈
10.7231	.5236	1.9099	11
10.4228	.5387	1.8564	11 ¹ / ₈
10.1358	.5539	1.8053	11 ¹ / ₄
19.8612	.5694	1.7564	11 ³ / ₈
19.5983	.5850	1.7095	11 ¹ / ₂

**Note: No allowance made for couplings.

Drill Pipe Size		TABLE	
O.D. 5 1/2"		VOLUME & HEIGHT	
5.500"			
Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
5 5/8	.0567	17.6251	.0014
5 3/4	.1147	8.7146	.0027
5 7/8	.1740	5.7459	.0041
6	.2346	4.2626	.0056
6 1/8	.2964	3.3734	.0071
6 1/4	.3595	2.7813	.0086
6 3/8	.4239	2.3588	.0101
6 1/2	.4896	2.0425	.0117
6 5/8	.5565	1.7968	.0133
6 3/4	.6247	1.6006	.0149
6 7/8	.6942	1.4404	.0165
7	.7650	1.3072	.0182
7 1/8	.8370	1.1947	.0199
7 1/4	.9103	1.0985	.0217
7 3/8	.9849	1.0153	.0235
7 1/2	1.0608	.9427	.0253
7 5/8	1.1379	.8788	.0271
7 3/4	1.2163	.8221	.0290
7 7/8	1.2960	.7716	.0309
8	1.3770	.7262	.0328
8 1/8	1.4592	.6853	.0347
8 1/4	1.5427	.6482	.0367
8 3/8	1.6275	.6144	.0388
8 1/2	1.7136	.5836	.0408
8 5/8	1.8009	.5553	.0429
8 3/4	1.8895	.5292	.0450
8 7/8	1.9794	.5052	.0471
9	2.0706	.4830	.0493
9 1/8	2.1630	.4623	.0515
9 1/4	2.2567	.4431	.0537
9 3/8	2.3517	.4252	.0560
9 1/2	2.4480	.4085	.0583
9 5/8	2.5455	.3928	.0606
9 3/4	2.6443	.3782	.0630
9 7/8	2.7444	.3644	.0653
10	2.8458	.3514	.0678
10 1/8	2.9484	.3392	.0702
10 1/4	3.0523	.3276	.0727
10 3/8	3.1575	.3167	.0752
10 1/2	3.2640	.3064	.0777
10 5/8	3.3717	.2966	.0803
10 3/4	3.4807	.2873	.0829
10 7/8	3.5910	.2785	.0855
11	3.7026	.2701	.0882
11 1/8	3.8154	.2621	.0908
11 1/4	3.9295	.2545	.0936
11 3/8	4.0449	.2472	.0963
11 1/2	4.1616	.2403	.0991
11 5/8	4.2795	.2337	.1019
11 3/4	4.3987	.2273	.1047
11 7/8	4.5192	.2213	.1076

NO.122-B			Drill Pipe Size
BETWEEN CASING & HOLE**			O.D. 5½"
			5.500"
Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
740.2533	.0076	131.84473	5 ⁵ / ₈
366.0142	.0153	65.1899	5 ³ / ₄
241.3280	.0233	42.9823	5 ⁷ / ₈
179.0287	.0314	31.8864	6
141.6829	.0396	25.2348	6 ¹ / ₈
116.8130	.0481	20.8053	6 ¹ / ₄
99.0715	.0567	17.6454	6 ³ / ₈
85.7846	.0654	15.2789	6 ¹ / ₂
75.4668	.0744	13.4412	6 ⁵ / ₈
67.2271	.0835	11.9737	6 ³ / ₄
60.4982	.0928	10.7752	6 ⁷ / ₈
54.9091	.1023	9.7785	7
50.1771	.1119	8.9369	7 ¹ / ₈
46.1362	.1217	8.2172	7 ¹ / ₄
42.6424	.1317	7.5949	7 ³ / ₈
39.5929	.1418	7.0518	7 ¹ / ₂
36.9090	.1521	6.5738	7 ⁵ / ₈
34.5296	.1626	6.1500	7 ³ / ₄
32.4066	.1733	5.7719	7 ⁷ / ₈
30.5012	.1841	5.4325	8
28.7822	.1951	5.1263	8 ¹ / ₈
27.2242	.2062	4.8488	8 ¹ / ₄
25.8059	.2176	4.5962	8 ³ / ₈
24.5099	.2291	4.3654	8 ¹ / ₂
23.3213	.2407	4.1537	8 ⁵ / ₈
22.2276	.2526	3.9589	8 ³ / ₄
21.2182	.2646	3.7791	8 ⁷ / ₈
20.2840	.2768	3.6127	9
19.4172	.2892	3.4583	9 ¹ / ₈
18.6109	.4017	3.3147	9 ¹ / ₄
17.8592	.3144	3.1809	9 ³ / ₈
17.1569	.3272	3.0558	9 ¹ / ₂
16.4995	.3403	2.9387	9 ⁵ / ₈
15.8830	.3535	2.8289	9 ³ / ₄
15.3037	.3669	2.7257	9 ⁷ / ₈
14.7586	.3804	2.6286	10
14.2449	.3941	2.5371	10 ¹ / ₈
13.7599	.4080	2.4507	10 ¹ / ₄
13.3015	.4221	2.3691	10 ³ / ₈
12.8677	.4363	2.2918	10 ¹ / ₂
12.4565	.4507	2.2186	10 ⁵ / ₈
12.0664	.4653	2.1491	10 ³ / ₄
11.6958	.4801	2.0831	10 ⁷ / ₈
11.3434	.4950	2.0203	11
11.0079	.5100	1.9606	11 ¹ / ₈
10.6883	.5253	1.9037	11 ¹ / ₄
10.3834	.5407	1.8494	11 ³ / ₈
10.0923	.5563	1.7975	11 ¹ / ₂
9.8142	.5721	1.7480	11 ⁵ / ₈
9.5482	.5880	1.7006	11 ³ / ₄
9.2936	.6041	1.6553	11 ⁷ / ₈

**Note: No allowance made for couplings.

Drill Pipe Size

O.D. 5⁹/₁₆"

5.562"

TABLE

VOLUME & HEIGHT BETWEEN

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
5 ³ / ₄	.0868	11.5250	.0021
5 ⁷ / ₈	.1461	6.8467	.0035
6	.2066	4.8399	.0049
6 ¹ / ₈	.2685	3.7250	.0064
6 ¹ / ₄	.3316	3.0160	.0079
6 ³ / ₈	.3960	2.5255	.0094
6 ¹ / ₂	.4616	2.1663	.0110
6 ⁵ / ₈	.5286	1.8920	.0126
6 ³ / ₄	.5968	1.6757	.0142
6 ⁷ / ₈	.6663	1.5009	.0159
7	.7370	1.3568	.0175
7 ¹ / ₈	.8091	1.2360	.0193
7 ¹ / ₄	.8824	1.1333	.0210
7 ³ / ₈	.9570	1.0450	.0228
7 ¹ / ₂	1.0328	.9682	.0246
7 ⁵ / ₈	1.1100	.9009	.0264
7 ³ / ₄	1.1884	.8415	.0283
7 ⁷ / ₈	1.2681	.7886	.0302
8	1.3490	.7413	.0321
8 ¹ / ₈	1.4313	.6987	.0341
8 ¹ / ₄	1.5148	.6602	.0361
8 ³ / ₈	1.5996	.6252	.0381
8 ¹ / ₂	1.6856	.5933	.0401
8 ⁵ / ₈	1.7730	.5640	.0422
8 ³ / ₄	1.8616	.5372	.0443
8 ⁷ / ₈	1.9515	.5124	.0465
9	2.0426	.4896	.0486
9 ¹ / ₈	2.1351	.4684	.0508
9 ¹ / ₄	2.2288	.4487	.0531
9 ³ / ₈	2.3237	.4303	.0553
9 ¹ / ₂	2.4200	.4132	.0576
9 ⁵ / ₈	2.5175	.3972	.0599
9 ³ / ₄	2.6164	.3822	.0623
9 ⁷ / ₈	2.7164	.3681	.0647
10	2.8178	.3549	.0671
10 ¹ / ₈	2.9204	.3424	.0695
10 ¹ / ₄	3.0244	.3306	.0720
10 ³ / ₈	3.1295	.3195	.0745
10 ¹ / ₂	3.2360	.3090	.0770
10 ⁵ / ₈	3.3437	.2991	.0796
10 ³ / ₄	3.4528	.2896	.0822
10 ⁷ / ₈	3.5630	.2807	.0848
11	3.6746	.2721	.0875
11 ¹ / ₈	3.7874	.2640	.0902
11 ¹ / ₄	3.9016	.2563	.0929
11 ³ / ₈	4.0169	.2489	.0956
11 ¹ / ₂	4.1336	.2419	.0984
11 ⁵ / ₈	4.2515	.2352	.1012
11 ³ / ₄	4.3708	.2288	.1041
11 ⁷ / ₈	4.4912	.2227	.1069
12	4.6130	.2168	.1098

NO.122-D

Drill Pipe Size
O.D. 2.375"**DRILL PIPE & CASING**

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
484.0516	.0116	86.2133	5 ³ / ₄
287.5630	.0195	51.2172	5 ⁷ / ₈
203.2744	.0276	36.2047	6
156.4510	.0359	27.8651	6 ¹ / ₈
126.6713	.0443	22.5611	6 ¹ / ₄
106.0729	.0529	18.8924	6 ³ / ₈
90.9846	.0617	16.2050	6 ¹ / ₂
79.4621	.0707	14.1528	6 ⁵ / ₈
70.3793	.0798	12.5351	6 ³ / ₄
63.0391	.0891	11.2277	6 ⁷ / ₈
56.9866	.0985	10.1497	7
51.9125	.1082	9.2460	7 ¹ / ₈
47.5993	.1180	8.4778	7 ¹ / ₄
43.8893	.1279	7.8170	7 ³ / ₈
40.6656	.1381	7.2428	7 ¹ / ₂
37.8395	.1484	6.7395	7 ⁵ / ₈
35.3427	.1589	6.2948	7 ³ / ₄
33.1217	.1695	5.8992	7 ⁷ / ₈
31.1338	.1803	5.5452	8
29.3449	.1913	5.2266	8 ¹ / ₈
27.7271	.2025	4.9384	8 ¹ / ₄
26.2574	.2138	4.6766	8 ³ / ₈
24.9167	.2253	4.4379	8 ¹ / ₂
23.6893	.2370	4.2192	8 ⁵ / ₈
22.5617	.2489	4.0184	8 ³ / ₄
21.5225	.2609	3.8333	8 ⁷ / ₈
20.5619	.2731	3.6622	9
19.6717	.2854	3.5037	9 ¹ / ₈
18.8445	.2979	3.3564	9 ¹ / ₄
18.0742	.3106	3.2192	9 ³ / ₈
17.3553	.3235	3.0911	9 ¹ / ₂
16.6829	.3365	2.9714	9 ⁵ / ₈
16.0528	.3498	2.8591	9 ³ / ₄
15.4614	.3631	2.7538	9 ⁷ / ₈
14.9052	.3767	2.6547	10
14.3814	.3904	2.5614	10 ¹ / ₈
13.8872	.4043	2.4734	10 ¹ / ₄
13.4205	.4184	2.3903	10 ³ / ₈
12.9790	.4326	2.3116	10 ¹ / ₂
12.5608	.4470	2.2372	10 ⁵ / ₈
12.1642	.4616	2.1665	10 ³ / ₄
11.7877	.4763	2.0995	10 ⁷ / ₈
11.4298	.4912	2.0357	11
11.0893	.5063	1.9751	11 ¹ / ₈
10.7649	.5216	1.9173	11 ¹ / ₄
10.4557	.5370	1.8622	11 ³ / ₈
10.1606	.5526	1.8097	11 ¹ / ₂
9.8788	.5683	1.7595	11 ⁵ / ₈
9.6093	.5843	1.7115	11 ³ / ₄
9.3515	.6004	1.6656	11 ⁷ / ₈
9.1047	.6167	1.6216	12

**Note: No allowance made for couplings.

Drill Pipe Size
O.D. 6⁵/₈"
6.625"

TABLE
VOLUME & HEIGHT

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
7	.2085	4.7970	.0050
7 ¹ / ₈	.2805	3.5651	.0067
7 ¹ / ₄	.3538	2.8264	.0084
7 ³ / ₈	.4284	2.3343	.0102
7 ¹ / ₂	.5043	1.9831	.0120
7 ⁵ / ₈	.5814	1.7200	.0138
7 ³ / ₄	.6598	1.5156	.0157
7 ⁷ / ₈	.7395	1.3523	.0176
8	.8205	1.2188	.0195
8 ¹ / ₈	.9027	1.1078	.0215
8 ¹ / ₄	.9862	1.0140	.0235
8 ³ / ₈	1.0710	.9337	.0255
8 ¹ / ₂	1.1571	.8643	.0275
8 ⁵ / ₈	1.2444	.8036	.0296
8 ³ / ₄	1.3330	.7502	.0317
8 ⁷ / ₈	1.4229	.7028	.0339
9	1.5141	.6605	.0360
9 ¹ / ₈	1.6065	.6225	.0382
9 ¹ / ₄	1.7002	.5882	.0405
9 ³ / ₈	1.7952	.5570	.0427
9 ¹ / ₂	1.8915	.5287	.0450
9 ⁵ / ₈	1.9890	.5028	.0474
9 ³ / ₄	2.0878	.4790	.0497
9 ⁷ / ₈	2.1879	.4571	.0521
10	2.2893	.4368	.0545
10 ¹ / ₈	2.3919	.4181	.0569
10 ¹ / ₄	2.4958	.4007	.0594
10 ³ / ₈	2.6010	.3845	.0619
10 ¹ / ₂	2.7075	.3694	.0645
10 ⁵ / ₈	2.8152	.3552	.0670
10 ³ / ₄	2.9242	.3420	.0696
10 ⁷ / ₈	3.0345	.3295	.0722
11	3.1461	.3179	.0749
11 ¹ / ₈	3.2589	.3069	.0776
11 ¹ / ₄	3.3730	.2965	.0803
11 ³ / ₈	3.4884	.2867	.0831
11 ¹ / ₂	3.6051	.2774	.0858
11 ⁵ / ₈	3.7230	.2686	.0886
11 ³ / ₄	3.8422	.2603	.0915
11 ⁷ / ₈	3.9627	.2524	.0943
12	4.0845	.2448	.0972
12 ¹ / ₈	4.2075	.2377	.1002
12 ¹ / ₄	4.3318	.2309	.1031
12 ³ / ₈	4.4574	.2243	.1061
12 ¹ / ₂	4.5843	.2181	.1091
12 ⁵ / ₈	4.7124	.2122	.1122
12 ³ / ₄	4.8418	.2065	.1153
12 ⁷ / ₈	4.9725	.2011	.1184
13	5.1045	.1959	.1215

NO.122-B			Drill Pipe Size
BETWEEN CASING & HOLE**			O.D. 6⁵/₈"
			6.625"
Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
201.4756	.0279	35.8843	7
149.7330	.0375	26.6686	7 ¹ / ₈
118.7072	.0473	21.1427	7 ¹ / ₄
98.0394	.0573	17.4616	7 ³ / ₈
83.2901	.0674	14.8346	7 ¹ / ₂
72.2396	.0777	12.8664	7 ⁵ / ₈
63.6546	.0882	11.3374	7 ³ / ₄
56.7953	.0989	10.1157	7 ⁷ / ₈
51.1908	.1097	9.1175	8
46.5272	.1207	8.2868	8 ¹ / ₈
42.5873	.1318	7.5851	8 ¹ / ₄
39.2158	.1432	6.9846	8 ³ / ₈
36.2989	.1547	6.4651	8 ¹ / ₂
33.7513	.1664	6.0114	8 ⁵ / ₈
31.5077	.1782	5.6118	8 ³ / ₄
29.5173	.1902	5.2572	8 ⁷ / ₈
27.7400	.2024	4.9407	9
26.1439	.2148	4.6564	9 ¹ / ₈
24.7029	.2273	4.3998	9 ¹ / ₄
23.3958	.2400	4.1670	9 ³ / ₈
22.2051	.2529	3.9549	9 ¹ / ₂
21.1162	.2659	3.7610	9 ⁵ / ₈
20.1168	.2791	3.5830	9 ³ / ₄
19.1965	.2925	3.4190	9 ⁷ / ₈
18.3466	.3060	3.2677	10
17.5593	.3197	3.1274	10 ¹ / ₈
16.8282	.3336	2.9972	10 ¹ / ₄
16.1477	.3477	2.8760	10 ³ / ₈
15.5127	.3619	2.7629	10 ¹ / ₂
14.9190	.3763	2.6572	10 ⁵ / ₈
14.3629	.3909	2.5581	10 ³ / ₄
13.8409	.4057	2.4652	10 ⁷ / ₈
13.3501	.4206	2.3777	11
12.8878	.4357	2.2954	11 ¹ / ₈
12.4518	.4509	2.2178	11 ¹ / ₄
12.0399	.4663	2.1444	11 ³ / ₈
11.6503	.4819	2.0750	11 ¹ / ₂
11.2813	.4977	2.0093	11 ⁵ / ₈
10.9312	.5136	1.9469	11 ³ / ₄
10.5989	.5297	1.8877	11 ⁷ / ₈
10.2829	.5460	1.8315	12
9.9822	.5625	1.7779	12 ¹ / ₈
9.6957	.5791	1.7269	12 ¹ / ₄
9.4226	.5959	1.6782	12 ³ / ₈
9.1618	.6128	1.6318	12 ¹ / ₂
8.9127	.6300	1.5874	12 ⁵ / ₈
8.6745	.6473	1.5450	12 ³ / ₄
8.4465	.6647	1.5044	12 ⁷ / ₈
8.2281	.6824	1.4655	13

**Note: No allowance made for couplings.

Drill Pipe Size		TABLE	
O.D. 7 ⁵ / ₈ "		VOLUME & HEIGHT	
7.625"			
Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
8	.2391	4.1830	.0057
8 ¹ / ₈	.3213	3.1124	.0076
8 ¹ / ₄	.4048	2.4703	.0096
8 ³ / ₈	.4896	2.0425	.0117
8 ¹ / ₂	.5757	1.7371	.0137
8 ⁵ / ₈	.6630	1.5083	.0158
8 ³ / ₄	.7516	1.3305	.0179
8 ⁷ / ₈	.8415	1.1884	.0200
9	.9327	1.0722	.0222
9 ¹ / ₈	1.0251	.9755	.0244
9 ¹ / ₄	1.1188	.8938	.0266
9 ³ / ₈	1.2138	.8239	.0289
9 ¹ / ₂	1.3101	.7633	.0312
9 ⁵ / ₈	1.4076	.7104	.0335
9 ³ / ₄	1.5064	.6638	.0359
9 ⁷ / ₈	1.6065	.6225	.0382
10	1.7079	.5855	.0407
10 ¹ / ₈	1.8105	.5523	.0431
10 ¹ / ₄	1.9144	.5224	.0456
10 ³ / ₈	2.0196	.4951	.0481
10 ¹ / ₂	2.1261	.4704	.0506
10 ⁵ / ₈	2.2338	.4477	.0532
10 ³ / ₄	2.3428	.4268	.0558
10 ⁷ / ₈	2.4531	.4076	.0584
11	2.5647	.3899	.0611
11 ¹ / ₈	2.6775	.3735	.0637
11 ¹ / ₄	2.7916	.3582	.0665
11 ³ / ₈	2.9070	.3440	.0692
11 ¹ / ₂	3.0237	.3307	.0720
11 ⁵ / ₈	3.1416	.3183	.0748
11 ³ / ₄	3.2608	.3067	.0776
11 ⁷ / ₈	3.3813	.2957	.0805
12	3.5031	.2855	.0834
12 ¹ / ₈	3.6261	.2758	.0863
12 ¹ / ₄	3.7504	.2666	.0893
12 ³ / ₈	3.8760	.2580	.0923
12 ¹ / ₂	4.0029	.2498	.0953
12 ⁵ / ₈	4.1310	.2421	.0984
12 ³ / ₄	4.2604	.2347	.1014
12 ⁷ / ₈	4.3911	.2277	.1045
13	4.5231	.2211	.1077
13 ¹ / ₈	4.6563	.2148	.1109
13 ¹ / ₄	4.7908	.2087	.1141
13 ³ / ₈	4.9266	.2030	.1173
13 ¹ / ₂	5.0637	.1975	.1206
13 ⁵ / ₈	5.2020	.1922	.1239
13 ³ / ₄	5.3416	.1872	.1272
13 ⁷ / ₈	5.4825	.1824	.1305
14	5.6246	.1778	.1339
14 ¹ / ₈	5.7681	.1734	.1373
14 ¹ / ₄	5.9128	.1691	.1408
14 ³ / ₈	6.0588	.1650	.1443
14 ¹ / ₂	6.2060	.1611	.1478

No.122-A		Drill Pipe Size O.D. 7 ⁵ / ₈ " 7.625"	
BETWEEN CASING & HOLE**			
Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
175.6867	.0320	31.2911	8
130.7193	.0430	23.2821	8 ¹ / ₈
103.7520	.0541	18.4790	8 ¹ / ₄
85.7845	.0654	15.2789	8 ³ / ₈
72.9596	.0770	12.9947	8 ¹ / ₂
63.3486	.0886	11.2829	8 ⁵ / ₈
55.8800	.1005	9.9527	8 ³ / ₄
49.9110	.1125	8.8895	8 ⁷ / ₈
45.0325	.1247	8.0206	9
40.9717	.1370	7.2974	9 ¹ / ₈
37.5399	.1496	6.6861	9 ¹ / ₄
34.6022	.1623	6.1629	9 ³ / ₈
32.0596	.1751	5.7101	9 ¹ / ₂
29.8381	.1882	5.3144	9 ⁵ / ₈
27.8809	.2014	4.9658	9 ³ / ₄
26.1439	.2148	4.6564	9 ⁷ / ₈
24.5922	.2283	4.3801	10
23.1981	.2420	4.1318	10 ¹ / ₈
21.9389	.2559	3.9075	10 ¹ / ₄
20.7962	.2700	3.7040	10 ³ / ₈
19.7549	.2842	3.5185	10 ¹ / ₂
18.8021	.2986	3.3488	10 ⁵ / ₈
17.9272	.3132	3.1930	10 ³ / ₄
17.1212	.3279	3.0494	10 ⁷ / ₈
16.3765	.3428	2.9168	11
15.6863	.3579	2.7939	11 ¹ / ₈
15.0451	.3732	2.6796	11 ¹ / ₄
14.4479	.3886	2.5733	11 ³ / ₈
13.8905	.4042	2.4740	11 ¹ / ₂
13.3690	.4200	2.3811	11 ⁵ / ₈
12.8803	.4359	2.2941	11 ³ / ₄
12.4213	.4520	2.2123	11 ⁷ / ₈
11.9895	.4683	2.1354	12
11.5827	.4847	2.0630	12 ¹ / ₈
11.1988	.5014	1.9946	12 ¹ / ₄
10.8359	.5181	1.9300	12 ³ / ₈
10.4925	.5351	1.8688	12 ¹ / ₂
10.1671	.5522	1.8108	12 ⁵ / ₈
9.8582	.5695	1.7558	12 ³ / ₄
9.5648	.5870	1.7036	12 ⁷ / ₈
9.2858	.6046	1.6539	13
9.0201	.6225	1.6065	13 ¹ / ₈
8.7668	.6404	1.5614	13 ¹ / ₄
8.5252	.6586	1.5184	13 ³ / ₈
8.2944	.6769	1.4773	13 ¹ / ₂
8.0738	.6954	1.4380	13 ⁵ / ₈
7.8628	.7141	1.4004	13 ³ / ₄
7.6608	.7329	1.3644	13 ⁷ / ₈
7.4671	.75191	1.3300	14
7.2814	.7711	1.2969	14 ¹ / ₈
7.1032	.7904	1.2651	14 ¹ / ₄
6.9321	.8099	1.2347	14 ³ / ₈
6.7676	.8296	1.2054	14 ¹ / ₂

**Note: No allowance made for couplings.

Drill Pipe Size O.D. 8 ⁵ / ₈ " 8.625"		TABLE VOLUME & HEIGHT	
Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
9	.2697	3.7083	.0064
9 ¹ / ₈	.3621	2.7617	.0086
9 ¹ / ₄	.4558	2.1939	.0109
9 ³ / ₈	.5508	1.8155	.0131
9 ¹ / ₂	.6471	1.5454	.0154
9 ⁵ / ₈	.7446	1.3430	.0177
9 ³ / ₄	.8434	1.1857	.0201
9 ⁷ / ₈	.9435	1.0599	.0225
10	1.0449	.9571	.0249
10 ¹ / ₈	1.1475	.8715	.0273
10 ¹ / ₄	1.2514	.7991	.0298
10 ³ / ₈	1.3566	.7371	.0323
10 ¹ / ₂	1.4631	.6835	.0348
10 ⁵ / ₈	1.5708	.6366	.0374
10 ³ / ₄	1.6798	.5953	.0400
10 ⁷ / ₈	1.7901	.5586	.0426
11	1.9017	.5259	.0453
11 ¹ / ₈	2.0145	.4964	.0480
11 ¹ / ₄	2.1286	.4698	.0507
11 ³ / ₈	2.2440	.4456	.0534
11 ¹ / ₂	2.3607	.4236	.0562
11 ⁵ / ₈	2.4786	.4035	.0590
11 ³ / ₄	2.5978	.3849	.0619
11 ⁷ / ₈	2.7183	.3679	.0647
12	2.8401	.3521	.0676
12 ¹ / ₈	2.9631	.3375	.0705
12 ¹ / ₄	3.0874	.3239	.0735
12 ³ / ₈	3.2130	.3112	.0765
12 ¹ / ₂	3.3399	.2994	.0795
12 ⁵ / ₈	3.4680	.2884	.0826
12 ³ / ₄	3.5974	.2780	.0857
12 ⁷ / ₈	3.7281	.2682	.0888
13	3.8601	.2591	.0919
13 ¹ / ₈	3.9933	.2504	.0951
13 ¹ / ₄	4.1278	.2423	.0983
13 ³ / ₈	4.2636	.2345	.1015
13 ¹ / ₂	4.4007	.2272	.1048
13 ⁵ / ₈	4.5390	.2203	.1081
13 ³ / ₄	4.6786	.2137	.1114
13 ⁷ / ₈	4.8195	.2075	.1147
14	4.9617	.2015	.1181
14 ¹ / ₈	5.1051	.1959	.1215
14 ¹ / ₄	5.2498	.1905	.1250
14 ³ / ₈	5.3958	.1853	.1285
14 ¹ / ₂	5.5430	.1804	.1320
14 ⁵ / ₈	5.6916	.1757	.1355
14 ³ / ₄	5.8414	.1712	.1391
14 ⁷ / ₈	5.9925	.1669	.1427
15	6.1448	.1627	.1463

No.122-A		Drill Pipe Size O.D. 8 ⁵ / ₈ " 8.625"	
BETWEEN CASING & HOLE**			
Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
155.7506	.0360	27.7404	9
115.9903	.0484	20.6588	9 ¹ / ₈
92.1434	.0609	16.4114	9 ¹ / ₄
76.2529	.0736	13.5812	9 ³ / ₈
64.9089	.0865	11.5608	9 ¹ / ₂
56.4063	.0995	10.0464	9 ⁵ / ₈
49.7978	.1127	8.8694	9 ³ / ₄
44.5152	.1261	7.9285	9 ⁷ / ₈
40.1968	.1397	7.1594	10
36.6014	.1534	6.5190	10 ¹ / ₈
33.5622	.1673	5.9777	10 ¹ / ₄
30.9598	.1814	5.5142	10 ³ / ₈
28.7070	.1956	5.1129	10 ¹ / ₂
26.7380	.2100	4.7622	10 ⁵ / ₈
25.0028	.2246	4.4532	10 ³ / ₄
23.4624	.2393	4.1788	10 ⁷ / ₈
22.0860	.2542	3.9337	11
20.8489	.2693	3.7133	11 ¹ / ₈
19.7312	.2846	3.5143	11 ¹ / ₄
18.7166	.3000	3.3336	11 ³ / ₈
17.7917	.3156	3.1688	11 ¹ / ₂
16.9451	.3313	3.0180	11 ⁵ / ₈
16.1675	.3473	2.8796	11 ³ / ₄
15.4509	.3634	2.7519	11 ⁷ / ₈
14.7884	.3797	2.6339	12
14.1744	.3961	2.5246	12 ¹ / ₈
13.6037	.4127	2.4229	12 ¹ / ₄
13.0719	.4295	2.3282	12 ³ / ₈
12.5754	.4465	2.2398	12 ¹ / ₂
12.1108	.4636	2.1570	12 ⁵ / ₈
11.6751	.4809	2.0794	12 ³ / ₄
11.2658	.4984	2.0065	12 ⁷ / ₈
10.8807	.5160	1.9379	13
10.5176	.5338	1.8733	13 ¹ / ₈
10.1749	.5518	1.8122	13 ¹ / ₄
9.8509	.5700	1.7545	13 ³ / ₈
9.5440	.5883	1.6999	13 ¹ / ₂
9.2532	.6068	1.6481	13 ⁵ / ₈
8.9770	.6254	1.5989	13 ³ / ₄
8.7146	.6443	1.5521	13 ⁷ / ₈
8.4649	.6633	1.5077	14
8.2271	.6825	1.4653	14 ¹ / ₈
8.0003	.7018	1.4249	14 ¹ / ₄
7.7839	.7213	1.3864	14 ³ / ₈
7.5771	.7410	1.3495	14 ¹ / ₂
7.3793	.7609	1.3143	14 ⁵ / ₈
7.1901	.7809	1.2806	14 ³ / ₄
7.0088	.8011	1.2483	14 ⁷ / ₈
6.8350	.8214	1.2174	15

**Note: No allowance made for couplings.

Drill Pipe Size		TABLE	
O.D. 5 ⁹ / ₁₆ "		VOLUME & HEIGHT	
5.562"			
Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
5 ³ / ₄	.0868	11.5250	.0021
5 ⁷ / ₈	.1461	6.8467	.0035
6	.2066	4.8399	.0049
6 ¹ / ₈	.2685	3.7250	.0064
6 ¹ / ₄	.3316	3.0160	.0079
6 ³ / ₈	.3960	2.5255	.0094
6 ¹ / ₂	.4616	2.1663	.0110
6 ⁵ / ₈	.5286	1.8920	.0126
6 ³ / ₄	.5968	1.6757	.0142
6 ⁷ / ₈	.6663	1.5009	.0159
7	.7370	1.3568	.0175
7 ¹ / ₈	.8091	1.2360	.0193
7 ¹ / ₄	.8824	1.1333	.0210
7 ³ / ₈	.9570	1.0450	.0228
7 ¹ / ₂	1.0328	.9682	.0246
7 ⁵ / ₈	1.1100	.9009	.0264
7 ³ / ₄	1.1884	.8415	.0283
7 ⁷ / ₈	1.2681	.7886	.0302
8	1.3490	.7413	.0321
8 ¹ / ₈	1.4313	.6987	.0341
8 ¹ / ₄	1.5148	.6602	.0361
8 ³ / ₈	1.5996	.6252	.0381
8 ¹ / ₂	1.6856	.5933	.0401
8 ⁵ / ₈	1.7730	.5640	.0422
8 ³ / ₄	1.8616	.5372	.0443
8 ⁷ / ₈	1.9515	.5124	.0465
9	2.0426	.4896	.0486
9 ¹ / ₈	2.1351	.4684	.0508
9 ¹ / ₄	2.2288	.4487	.0531
9 ³ / ₈	2.3237	.4303	.0553
9 ¹ / ₂	2.4200	.4132	.0576
9 ⁵ / ₈	2.5175	.3972	.0599
9 ³ / ₄	2.6164	.3822	.0623
9 ⁷ / ₈	2.7164	.3681	.0647
10	2.8178	.3549	.0671
10 ¹ / ₈	2.9204	.3424	.0695
10 ¹ / ₄	3.0244	.3306	.0720
10 ³ / ₈	3.1295	.3195	.0745
10 ¹ / ₂	3.2360	.3090	.0770
10 ⁵ / ₈	3.3437	.2991	.0796
10 ³ / ₄	3.4528	.2896	.0822
10 ⁷ / ₈	3.5630	.2807	.0848
11	3.6746	.2721	.0875
11 ¹ / ₈	3.7874	.2640	.0902
11 ¹ / ₄	3.9016	.2563	.0929
11 ³ / ₈	4.0169	.2489	.0956
11 ¹ / ₂	4.1336	.2419	.0984
11 ⁵ / ₈	4.2515	.2352	.1012
11 ³ / ₄	4.3708	.2288	.1041
11 ⁷ / ₈	4.4912	.2227	.1069
12	4.6130	.2168	.1098

NO.122-B

BETWEEN DRILL PIPE & HOLE**
Drill Pipe Size
O.D. 5⁹/₁₆"
5.562"

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
484.0516	.0116	86.2133	5 ³ / ₄
287.5630	.0195	51.2172	5 ⁷ / ₈
203.2744	.0276	36.2047	6
156.4510	.0359	27.8651	6 ¹ / ₈
126.6713	.0443	22.5611	6 ¹ / ₄
106.0729	.0529	18.8924	6 ³ / ₈
90.9846	.0617	16.2050	6 ¹ / ₂
79.4621	.0707	14.1528	6 ⁵ / ₈
70.3793	.0798	12.5351	6 ³ / ₄
63.0391	.0891	11.2277	6 ⁷ / ₈
56.9866	.0985	10.1497	7
51.9125	.1082	9.2460	7 ¹ / ₈
47.5993	.1180	8.4778	7 ¹ / ₄
43.8893	.1279	7.8170	7 ³ / ₈
40.6656	.1381	7.2428	7 ¹ / ₂
37.8395	.1484	6.7395	7 ⁵ / ₈
35.3427	.1589	6.2948	7 ³ / ₄
33.1217	.1695	5.8992	7 ⁷ / ₈
31.1338	.1803	5.5452	8
29.3449	.1913	5.2266	8 ¹ / ₈
27.7271	.2025	4.9384	8 ¹ / ₄
26.2574	.2138	4.6766	8 ³ / ₈
24.9167	.2253	4.4379	8 ¹ / ₂
23.6893	.2370	4.2192	8 ⁵ / ₈
22.5617	.2489	4.0184	8 ³ / ₄
21.5225	.2609	3.8333	8 ⁷ / ₈
20.5619	.2731	3.6622	9
19.6717	.2854	3.5037	9 ¹ / ₈
18.8445	.2979	3.3564	9 ¹ / ₄
18.0742	.3106	3.2192	9 ³ / ₈
17.3553	.3235	3.0911	9 ¹ / ₂
16.6829	.3365	2.9714	9 ⁵ / ₈
16.0528	.3498	2.8591	9 ³ / ₄
15.4614	.3631	2.7538	9 ⁷ / ₈
14.9052	.3767	2.6547	10
14.3814	.3904	2.5614	10 ¹ / ₈
13.8872	.4043	2.4734	10 ¹ / ₄
13.4205	.4184	2.3903	10 ³ / ₈
12.9790	.4326	2.3116	10 ¹ / ₂
12.5608	.4470	2.2372	10 ⁵ / ₈
12.1642	.4616	2.1665	10 ³ / ₄
11.7877	.4763	2.0995	10 ⁷ / ₈
11.4298	.4912	2.0357	11
11.0893	.5063	1.9751	11 ¹ / ₈
10.7649	.5216	1.9173	11 ¹ / ₄
10.4557	.5370	1.8622	11 ³ / ₈
10.1606	.5526	1.8097	11 ¹ / ₂
9.8788	.5683	1.7595	11 ⁵ / ₈
9.6093	.5843	1.7115	11 ³ / ₄
9.3515	.6004	1.6656	11 ⁷ / ₈
9.1047	.6167	1.6216	12

**Note: No allowance made for couplings.