TABLE 2.-U.S. DISCOVERY EFFORTS DROP DESPITE RISING CRUDE OIL PRODUCTION

	Number of wells drilled annually		Wells drilled per million barrels of crude oil produced		Barrels of crude oil dis- covered per well drilled	
	All wells	Exploratory	All wells	Exploratory	All wells	Exploratory
948	_ 39,477	8, 013	18. 5	3, 9	96, 137	473,63
949	38, 682	9, 058	20. 5	4. 9	82,412	351,936
950	43, 307	10, 306	21.4	5, 2	59, 175	248,660
951		11,756	19. 8	5. 2	95, 964	375, 46
952		12, 425	19.8	5. 4	59, 113	221, 27
953	49, 480	13, 313	20.5	5.7	68, 325	247,58
954	52, 179	13, 100	22. 2	5.7	55,875	219,316
955	55, 879	14, 942	22. 5	6.0	51,999	192, 12
956	58, 418		22. 3	6. 2	51,999	192, 12
057	- 30,410	16, 207	20.6	5. 6	51,827	183, 527
957	- 53, 783	14,714		2.0	46, 283	164, 79
958	49, 101	13, 199	19. 9	5. 3	53, 120	197, 609
959	50, 179	13, 191	19. 2	5. 1	73, 073	277, 973
960	46, 831	11,704	18.2	4. 5	50, 508	202, 090
961	45, 644	10, 992	17. 4	4. 2	58, 224	241,76
962	45, 997	10, 785	17. 2	4. 0	47, 414	202, 21
963	43, 126	10,664	15. 7	3.9	50, 413	203, 87
964	44, 149	10,747	15. 8	3.9 3.8	60, 358	247, 95
965	40, 374	9, 466	14. 2	3. 3	75, 496	322,00
966	36, 883	10, 313	12. 1	3. 4	80, 362	287, 40
967	32, 473	8, 878	10, 1	2. 9	91,218	333, 64
-year summaries:	- 02, 170	0, 0, 0		4. 5	71,210	300, 01
1948–52	213, 971	51,558	20.9	5. 0	78,090	324, 08
1953-57		72, 276	21. 8	6.0	53, 530	199,77
1958-62		59, 871	19. 2	4.8	56, 692	180, 87
1963-67	- 197, 005			3.5		
0-year summaries:	_ 197,000	50,068	13.5	3. 0	70, 115	275, 88
o-year Summaries:	400 710	100 004	01.7		C4 004	051 50
1948-57		123, 834	21.7	5.5	64, 394	251, 53
1958-67	_ 434, 757	109, 939	16.6	4. 2	62,775	248, 24

Source: All wells drilled from "World Oil" annual review-forecast issues. Exploratory tests drilled from American Association of Petroleum Geologists annual drilling reports.

Another statistical measurement of discovery efficiency is the amount of oil found in relationship to the number of exploratory wells drilled. Exploratory wells are those tests drilled outside of known producing limits of a field for the purpose of finding new producing fields or of extending the producing area of previously found fields. Here again, there exists a remarkable similarity between the last two decades. The volume of new reserves found between 1948–1957 was equivalent to 251,530 barrels for each of the 123,834 exploratory wells drilled, while discoveries in the 1958–1957 period amounted to 248,245 barrels for each exploratory well drilled.

This comparison of discovery volumes and discovery efforts shows a 12 percent reduction in number of exploratory tests drilled resulting in the discovery of 12 percent less oil in the last 10-year period. Therefore, we can conclude that lower oil discovery rates in the U.S. are the result of a drastic reduction in drilling activity. To increase the volume of oil discovered, we must increase the amount of drilling in the U.S. Drilling is the only way oil can be found and can be made recoverable from the earth.

## DRASTIC DROP IN DRILLING

Contrary to the need to increase drilling, there has been a drastic reduction in U.S. drilling activity during the past decade. In the years between 1948 and 1956, the volume of total wells drilled annually advanced sharply, rising from 39,477 wells in 1948 to an all-time peak of 58,418 wells in 1956. During these years drilling activity grew at a somewhat greater rate than crude production, the number of wells drilled per million barrels of production advancing from 18.5 in 1948 to better than 22 wells per million barrels of crude oil production during the years 1954, 1955, and 1956. With drilling at high levels, new oil found exceeded production by comfortable margins.

This upward trend came to a sudden end in 1957, when drilling activity turned sharply downward. By 1961 U.S. drilling rates had dropped to 45,000 wells annually. Drilling continued to undergo steady substantial reduction, failing to just 36,883 wells in 1966, then to only 32,473 wells in 1967. Only 10.1 wells were drilled per million barrels of crude oil production in 1967, contrasted with the drilling of 20 to 22 wells for each million barrels of production during the

years 1953 through 1957.