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WELLS AND METRES DRILLED FOR PETROLEUM EXPLORATION

AND DEVELOPMENT IN AUSTRALIA

IN 1976



Compiled in the
Petroleum Technology Section
by C.D. Ryan

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SUMMARY

During 1976, 72 375 m were drilled in the exploration for and the development of Australia's petroleum resources; an increase of 23.5 percent on 1975. Drilling in Queensland and Western Australia increased significantly; none was reported in New South Wales, the Northern Territory, or Tasmania.

Of the 72 375 m drilled, 47 512 were drilled for exploration; 15 119 of these (32 percent) were drilled offshore, and 32 393 (68 percent) were drilled onshore.

During the year 32 wells reached total depth, and 4 were drilling ahead. Of 23 exploration drilling operations, 5 were offshore and 18 onshore. Of the 23, 11 were abandoned - 8 dry and 3 with gas shows, 4 were completed as gas producers, and at 31.12.76 8 were drilling ahead or suspended. Of 13 development wells, 12 were completed as potential gas producers and 1 was drilling ahead.

ACKNOWLEDGEMENT

The Bureau of Mineral Resources acknowledges with thanks the assistance received from State Mines Departments and Operating Companies in the compilation of these data.

NOTES

1. Operating Company is that nominated by a group or consortium and as approved by the respective State or Territory Department of Mines.
2. The official name of the well is that advised by the respective State or Territory Department of Mines.
3. The total depth of each well is the "Driller's Depth". All depths shown were confirmed by the respective State or Territory Department of Mines.
4. Abbreviations commonly used in the tabulations:

KB - Kelly bushing	FIT - Formation Interval Test
RT - Rotary table	m ³ - Cubic metres
DF - Derrick floor	m ³ /D - Cubic metres per day
CL - Cellar level	Mm ³ /D - Thousand cubic metres per day
FF - First flange	MMm ³ /D - Million cubic metres per day
GL - Ground level	m ³ WPD - Cubic metres of water per day
AMSL - Above mean sea level	GCM - Gas cut mud
WD - Water Depth	BC - Bottom choke
DST - Drill stem test	TC - Top choke
T.D. - Total depth, i.e. depth at which drilling oper- ations finally ceased in the well concerned.	on - onshore off - offshore

5. Definitions:

Wells drilled - the number of holes that reach total (final) depth during the period stated.

Metres drilled - unless otherwise stated, the total metres drilled, including suspended or uncompleted holes.

Uncompleted hole - the metres drilled in wells suspended or drilling at 31 December.

Wells suspended - wells on which operations have temporarily ceased, but which may or may not be deepened later.

Average T.D. exploration wells - the average depth of exploration wells that reached total depth during the year. It does not refer to development wells such as those drilled in established fields, e.g. Barrow Island. It is not directly related to the metres drilled in a specific year as it may include some drilling which occurred in the previous year.

Exploration well - a well drilled in search of undiscovered oil or gas, or in the hope of greatly extending the limits of an already known or partly developed pool.

Development well - a well drilled in any known or proved pool with the object of obtaining oil or gas production.

Service well - a development well drilled for water injection, water source, etc.

TABLE 1. Summary of wells and metres drilled for petroleum exploration
and development in Australia up to 31 December 1976

State or Territory	Total 31.12.72		YEAR								Total to 31.12.76	
			1973		1974		1975		1976			
	Wells	Metres	Wells	Metres	Wells	Metres	Wells	Metres	Wells	Metres	Wells	Metres
Queensland	826	1 244 551	11	18 144	13	23 551	4	6 456	17	25 985	871	1 318 673
New South Wales	136	149 785	4	3 718	2	1 130	-	-	-	-	142	154 633
Victoria	344	521 856	16	33 729	5	14 303	3	8 813	-	920	368	579 661
Tasmania	42	43 707	4	10 255	4	9 516	-	-	-	-	50	63 478
South Australia	267	405 537	11	21 037	4	9 934	10	20 284	9	23 919	301	480 711
Western Australia	861	1 033 665	22	55 712	22	48 142	9	18 121	6	21 551	920	1 177 191
Northern Territory	61	113 908	3	9 313	9	30 239	3	4 914	-	-	76	158 374
Annual Total	-	-	71	151 908	59	136 815	29	58 588	32	72 375	2 728	3 932 721
Cumulative Total	2 537	3 513 009	2 608	3 664 917	2 667	3 801 732	2 696	3 860 320	2 728	3 932 721	-	-

TABLE 2. Summary of wells and metres drilled in 1976.

State or Territory	Wells drilled		Average T.D. of exploration wells (metres)	Completed as potential producer		Plugged and abandoned	Well suspended	Uncompleted holes		Total metres drilled
	Wells	Metres		Oil	Gas			Holes	Metres	
Queensland	17	25 985	1 710	-	9	6	2	-	-	25 985
New South Wales	-	-	-	-	-	-	-	-	-	-
Victoria	-	-	-	-	-	-	-	1	920	920
Tasmania	-	-	-	-	-	-	-	-	-	-
South Australia	9	21 542	2 077	-	6	1	2	1	2 377	23 919
Western Australia	6	17 534	2 922	-	-	4	2	2	4 017	21 551
Northern Territory	-	-	-	-	-	-	-	-	-	-
Total	32	65 061	2 342	-	15	11	6	4	7 314	72 375

TABLE 3. Wells drilled for exploration and development, 1972-6

Year	Exploration		Development	Total
	NFWs	EXT		
O N S H O R E				
1972	50	12	21	83
1973	28	1	5	34
1974	19	1	8	28
1975	5	1	4	10
1976	13	4	12	29
O F F S H O R E				
1972	31	7	12	50
1973	24	7	6	37
1974	28	3	-	31
1975	16	3	-	19
1976	3	-	-	3
T O T A L				
1972	81	19	33	133
1973	52	8	11	71
1974	47	4	8	59
1975	21	4	4	29
1976	16	4	12	32

TABLE 4. Metres drilled for exploration and development, 1976

State or Territory	Exploration wells	Development wells	Service wells	Total
O N S H O R E				
Queensland	18 810	7 175	-	25 985
New South Wales	-	-	-	-
Victoria	-	-	-	-
Tasmania	-	-	-	-
South Australia	6 231	17 688	-	23 919
Western Australia	7 352	-	-	7 352
Northern Territory	-	-	-	-
Total	32 393	24 863	-	57 256
Percentage of onshore & offshore	68.2	100	-	79.1
O F F S H O R E				
Queensland	-	-	-	-
New South Wales	-	-	-	-
Victoria	920	-	-	920
Tasmania	-	-	-	-
South Australia	-	-	-	-
Western Australia	14 199	-	-	14 199
Northern Territory	-	-	-	-
Total	15 119	-	-	15 119
Percentage of onshore & offshore	31.8	-	-	20.9
O N S H O R E & O F F S H O R E				
Queensland	18 810	7 175	-	25 985
New South Wales	-	-	-	-
Victoria	920	-	-	920
Tasmania	-	-	-	-
South Australia	6 231	17 688	-	23 919
Western Australia	21 551	-	-	21 551
Northern Territory	-	-	-	-
Total	47 512	24 863	-	72 375
Percentage of all wells	65.6	34.4	-	100

TABLE 5. Exploration and development drilling completions, 1976

State or Territory	Total drilling operations		COMPLETIONS				Drilling or suspended at 31.12.76				
			Oil	Gas	Oil+gas	Dry ¹ Service ²					
	on- off-	on- off-	on- off-	on- off-	on- off-	on- off-					
EXPLORATION DRILLING											
Queensland	11	-	-	-	3	-	-	6	-	2	-
New South Wales	-	-	-	-	-	-	-	-	-	-	-
Victoria	-	1	-	-	-	-	-	-	-	-	1
Tasmania	-	-	-	-	-	-	-	-	-	-	-
South Australia	3	-	-	-	-	-	-	1	-	2	-
Western Australia	4	4	-	-	1	-	-	1	3	2	1
Northern Territory	-	-	-	-	-	-	-	-	-	-	-
Total	18	5	-	-	4	-	-	8	3	6	2
DEVELOPMENT DRILLING											
Queensland	6	-	-	-	6	-	-	-	-	-	-
New South Wales	-	-	-	-	-	-	-	-	-	-	-
Victoria	-	-	-	-	-	-	-	-	-	-	-
Tasmania	-	-	-	-	-	-	-	-	-	-	-
South Australia	7	-	-	-	6	-	-	-	-	1	-
Western Australia	-	-	-	-	-	-	-	-	-	-	-
Northern Territory	-	-	-	-	-	-	-	-	-	-	-
Total	13	-	-	-	12	-	-	-	-	1	-

¹ Dry exploration well

² Development service well - for water injection, water source etc.

TABLE 6. Well completion summary - combined onshore and offshore wells

State or Territory	Spudded		Status at 31.12.76									
	Other year	This year	Completed as producer				Abandoned				Drilling ahead	Suspended
							Dry	With shows				
			Oil	Gas	Oil + Gas	Ser- vice		Oil	Gas	Oil + Gas		
E X P L O R A T I O N W E L L S												
Queensland		11		3			5		1			2
New South Wales												
Victoria		1									1	
Tasmania												
South Australia		3					1					2
Western Australia	1	7		1			2		2		2	1
Northern Territory												
Total	1	22		4			8		3		3	5
D E V E L O P M E N T W E L L S												
Queensland		6		6								
New South Wales												
Victoria												
Tasmania												
South Australia		7		6							1	
Western Australia												
Northern Territory												
Total		13		12							1	

TABLE 8 - Well completion summary - offshore wells

[illegible]

TABLE 9. Well completion summary - by State and company

State or Territory and Company	Well name and number	Onshore	Offshore	Status at 31.12.76											Drilling ahead	Suspended	Exploration well	Development well
				Spud-ded		Completed as producer				Abandoned								
				Other year	This year	Oil	Gas	Oil & Gas	Service	Dry	With shows			Unspecified				
											Oil	Gas	Oil & Gas					
<u>QUEENSLAND</u>																		
A.A.R. Ltd	Bony Creek No. 15	X			1	1												1
	Bony Creek No. 16	X			1	1												1
	Pleasant Hills No.19	X			1	1												1
	Pleasant Hills No.20	X			1	1												1
	Pleasant Hills No.21	X			1	1												1
	Yalebone South No.1	X			1				1								1	
	Yannagan No. 1	X			1				1								1	
	Lyndon Caves No. 3	X			1				1								1	
	Lamen No. 3	X			1	1												1
Springbank East No.1	X			1				1								1		
Australian Aquitaine Pet. Pty Ltd	Karmona No. 1	X			1				1								1	
	Barrolka No. 1	X			1	1											1	
Bridge Oil N.L.	Bridge-Boxleigh No.2	X			1							1					1	
	Silver Springs No.2	X			1	1											1	
	Silver Springs No.3	X			1	1											1	
Houston Oil & Minerals of Australia Inc	Kinma No. 1	X			1										1		1	
	Carra No. 1	X			1										1		1	
		17			17	9				5		1				2	11	6
<u>NEW SOUTH WALES</u>																		
No drilling operations were carried out during the year.																		
<u>SOUTH AUSTRALIA</u>																		
Delhi International Oil Corporation	Big Lake No. 10	X			1	1												1
	Moomba No. 19	X			1	1												1
	Big Lake No. 11	X			1	1												1
	Big Lake No. 12	X			1	1												1
	Dullingari No. 4	X			1										1		1	
	Namur No. 1	X			1										1		1	
	Big Lake No. 13	X			1	1											1	
	Moomba No. 20	X			1	1											1	
	Moomba No. 21	X			1									1			1	

[illegible]

TABLE 10. Details of wells drilling or completed - by State and company

Well name & number	Lat. S	Elevation: reference/ ground (m)	Dates: spudded/ T.D.	Status and results at 31.12.76	Metres		Tentative AAPG classification of well: on spudding in/ on completion
	Long. E (^o ' '')				From -to	Total	
QUEENSLAND							
A.A.R. Ltd							
A.A.R. Bony Creek No. 15	26 44 08 148 57 53	GL 314.6 KB 318.5	25. 2.76 5. 3.76	Completed as a potential gas producer	0 1333	1333	DEV DEV
A.A.R. Bony Creek No. 16	26 44 31 148 58 25	GL 308.2 KB 312.1	15. 3.76 23. 3.76	Completed as a potential gas producer	0 1337	1337	DEV DEV
A.A.R. Pleasant Hills No. 19	26 23 44 148 59 37	GL 412.7 KB 416.7	2. 4.76 8. 4.76	Completed as a gas producer (no DST)	0 1034	1034	DEV DEV
A.A.R. Pleasant Hills No. 20	26 24 46 149 00 56	GL 414.8 KB 418.8	15. 4.76 26. 4.76	Completed as a gas producer (no DST)	0 1049	1049	DEV DEV
A.A.R. Pleasant Hills No.21	26 22 18 148 59 54	GL 410.3 KB 414.2	2. 5.76 11. 5.76	Completed as a shut-in gas well. DST flowed at rate 27 750 m ³ /d through 19/64" top choke	0 1178	1178	DEV DEV
A.A.R. Yalebone South No. 1	26 58 43 148 52 02	GL 260.6 KB 264.3	19. 6.76 27. 6.76	Plugged and completed as water well.	0 1557	1557	NFW DRY
A.A.R. Yannagan No. 1	26 57 50 148 46 37	GL 317.6 KB 321.3	2. 6.76 13. 6.76	Plugged and completed as water well	0 1536	1536	NFW DRY
A.A.R. Lyndon Caves No. 3	26 48 37 148 55 16	GL 264.8 KB 268.2	9.11.76 20.11.76	Plugged and completed as water well	0 1401	1401	NFW DRY
A.A.R. Lamen No. 3	26 37 36 149 00 05	GL 339 KB 335.0	24.11.76 2.12.76	Completed as a gas producer. Flowed gas at 252 019 m ³ /d during four hour flow period.	0 1244	1244	DEV DEV
A.A.R. Springbank East No. 1	26 53 40 148 43 50	GL 306.0 KB 309.4	11.12.76 21.12.76	Plugged and completed as water well.	0 1431	1431	NFW DRY

TABLE 10 (Continued)

Well name & number	Lat. S	Elevation: reference/ ground (m)	Dates: spudded/ T.D.	Status and results at 31.12.76	Metres		Tentative AAPG classification of well: on spudding in/ on completion
	Long. E (° ' ")				From -to	Total	
Australian Aquitaine Petroleum Pty Ltd							
A.A.P. Karmona No. 1	27 17 30 141 53 00	GL 91.1 KB 94.5	2. 7.76 28. 7.76	Plugged and abandoned	0 2548	2548	NFW DRY
A.A.P. Barrolka No. 1	26 54 12 141 41 24	GL 107.6? KB 110.9? not final	10. 8.76 5. 9.76	Completed for future stimulation and production	0 2682	2682	NFW NFD
Bridge Oil N.L.							
Bridge-Boxleigh No. 2	27 36 00 149 03 45	GL 282.5 KB 286.2	25. 4.76 8. 5.76	Plugged. Gas flowed from interval 1920-1925 m at 12 735 m ³ /d	0 1968	1968	EXT EXT
Bridge-Silver Springs No. 2	27 35 56 149 06 54	GL 269.4 KB 273.1	1. 4.76 16. 4.76	Completed as a gas producer. Flowed gas and condensate at 339 802 m ³ /d during DST of interval 1877.5 m - 1893.4 m through ½" surface choke	0 1911	1911	EXT EXT
Bridge-Silver Springs No. 3	27 36 48 149 06 35	GL 266.4 KB 270.1	26.11.76 12.12.76	Completed as gas producer. Flowed gas at 297 326 m ³ /d over interval 1873 m - 1897 m through ½" choke	0 1908	1908	EXT EXT
Houston Oil & Minerals of Australia Inc							
Houston-Kinma No. 1	24 31 30 149 55 30	GL 115.8 KB 118.9	8.10.76 18.10.76	Suspended	0 863	863	NFW -
Houston-Carra No. 1	24 32 27 149 55 03	GL 111.5 KB 115.5	10.11.76 6.12.76	Completed for testing in 1977	0 1005	1005	NFW -

TABLE 10 (Continued)

Well name & number	Lat. S	Elevation: reference/ ground (m)	Dates: spudded/ T.D.	Status and results at 31.12.76	Metres		Tentative AAPG classification of well: on spudding in/ on completion
	Long. E (^o ' ")				From -to	Total	
SOUTH AUSTRALIA							
Delhi International Oil Corporation							
Big Lake No. 10	28 14 41 140 17 25	GL 34 KB 38.4	3. 2.76 16. 3.76	Completed as a shut-in gas well. Flowed 147 246 m ³ /d through ½" top choke	0 2609	2609	DEV DEV
Moomba No. 19	28 13 13.43 140 11 26.26	GL 31.86 KB 36.31	3. 4.76 30. 4.76	Completed as a gas producer. Initial flow 312 898 m ³ /d through ½" surface choke	0 2505	2505	DEV DEV
Big Lake No. 11	28 12 57 140 18 50	GL 37.95 KB 42.43	1. 6.76 18. 6.76	Completed as a gas producer	0 2529	2529	DEV DEV
Big Lake No. 12	28 13 04 140 17 36	GL 33.47 KB 37.95	5. 7.76 20. 7.76	Completed as a gas producer. Initial flow 270 992 m ³ /d through ½" choke	0 2536	2536	DEV DEV
Dullingari No. 4	28 06 45 140 53 51	GL 83.69 KB 88.1	30. 8.76 29. 9.76	Completion suspended	0 2723	2723	EXT
Namur No. 1	28 11 11 140 25 56	GL 37 KB 41	11.10.76 5.11.76	Completion suspended. Flowed gas at 396 436 m ³ /d at 1665 m	0 2517	2517	NFW NFD
Big Lake No. 13	28 15 38 140 15 39	GL 40.2 KB 44.5	22.11.76 16.12.76	Completed as gas producer	0 2646	2646	DEV DEV
Moomba No. 20	28 10 35.5 140 11 05	GL 32.1 KB 37.2	2.11.76 19.11.76	Completed as gas producer	0 2486	2486	DEV DEV
Moomba No. 21	28 11 29.5 140 10 21.5	GL 41.0 KB 46.02	19.12.76 -	Drilling ahead	0 2377	2377	DEV -

TABLE 10 (Continued)

Well name & number	Lat. S	Elevation: reference/ ground (m)	Dates: spudded/ T.D.	Status and results at 31.12.76	Metres		Tentative AAPG classification of well: on spudding in/ on completion
	Long. E (^o ' ")				From -to	Total	
SOUTH AUSTRALIA (Continued) Shoreline Exploration Co.							
Kentgrove No. 1	37 56 00 140 37 23.5	GL 26.4 KB 28.2	6.11.76 1.12.76	Plugged and abandoned	0 991	991	NFW DRY
VICTORIA Esso Exploration & Production Australia Inc.							
Swordfish No. 1	38 23 37 148 0 24	WD 65 KB 25	21.12.76 -	Drilling ahead	0 920	920	NFW -
WESTERN AUSTRALIA West Australian Petroleum Pty Ltd							
Perentie No. 1	20 53 02 115 23 41	GL 7 RT 15	14. 1.76 7. 5.76	Gas discovery. Shut-in for further evaluation	0 3900	3900	DPT DPD
Spar No. 1	20 36 54 114 53 07	RT 30 WD 116	24. 6.76 1. 9.76	Plugged back to 3435 m on 16.9.76. Flowed gas at 311 485 m ³ /d through ½" top choke. Plugged and abandoned as a gas discovery	0 3721	3721	NFW NFD
Whitlock No. 1	20 43 47 115 24 56	RT 49 GL 41	8. 7.76 1. 8.76	Shut-in awaiting testing. Gas shows	0 2400	2400	DPT DPD
Denison No. 1	29 13 32 114 57 17	RT 35 GL 27	23.12.76 -	Drilling ahead	0 969	969	NFW -

TABLE 10 (Continued)

Well name & number	Lat. S	Elevation: reference/ ground (m)	Dates: spudded/ T.D.	Status and results at 31.12.76	Metres		Tentative AAPG classification of well: on spudding in/ on completion
	Long. E (^o ' ")				From -to	Total	
WESTERN AUSTRALIA (Continued) Woodside-Burmah Oil N.L.							
Lewis No. 1A	19 47 36.2	WD 60	24.12.75	Plugged and abandoned	620		NFW
	116 36 03.9	KB 30	19. 2.76		3400	2780	DRY
Withnell No. 1	20 01 11	WD 75	5. 3.76	Plugged and abandoned Gas shows	0		NFW
	115 48 15	RT 30	16. 6.76		4650	4650	DRY
North Rankin No. 5	19 34 19	WD 123	8.10.76	Coring ahead	0		EXT
	116 09 30	KB 30			3048	3048	-
W.I. Robinson (Silfar Pty Ltd)							
Ocumup No. 1	34 23 45	RT 40	10. 6.76	Plugged and abandoned.	0		STR
	119 12 53	GL 38	29. 6.76		83	83	DRY

APPENDIX:

TENTATIVE AAPG/APEA CLASSIFICATION OF WELLS

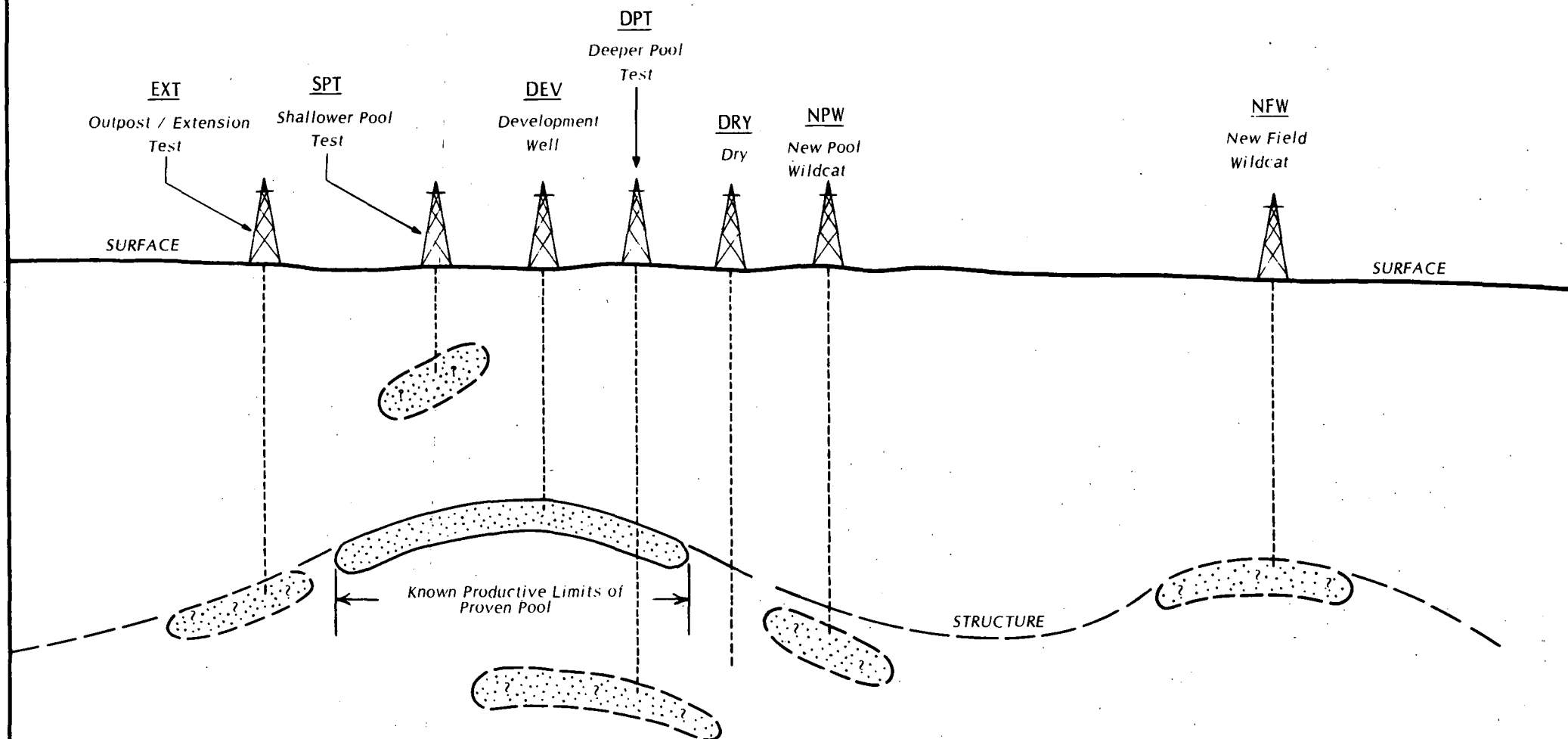
- NFW - NEW FIELD WILDCAT - A new field wildcat is located far from producing pools, and on a structure which has not produced before. In regions where local structure has little or no control over accumulation, these holes are generally at least two miles from the nearest productive area. Distance, however, is not the determining factor. The classification is based on the degree of risk assumed by the operator, and his intention to test a structure or stratigraphic condition not previously proven productive.
- NPW - NEW-POOL (Pay) WILDCAT - A new pool wildcat is located to explore for new pools on a structure already producing, but off to one side of the presently producing area. In some regions where local structure is almost negligible as a control, exploration holes of this group may be called 'near wildcats'. Such will usually be less than two miles from the nearest productive area. Sometimes a new pool wildcat may extend a pool already developed; if so its final classification is an 'Extension'.
- DPT - DEEPER-POOL (Pay) TEST - A deeper-pool test is an exploratory hole located within a productive area of a pool, or pools, already partly or wholly developed. It is drilled below the deepest such pool penetrated by it in order to explore for deeper unknown prospects. Sometimes such a hole extends a deeper pool which has been partly developed in another part of the field.
- SPT - SHALLOWER-POOL (Pay) TEST - A shallower-pool test is exploratory only if drilled in search of some new productive reservoir, unknown but possibly suspected from data secured from other wells. The test must be located within the productive area of a pool, or pools, previously developed. Sometimes such a test extends a shallower-pool partly developed elsewhere in the same field.

- EXT - OUTPOST OR EXTENSION TEST - An outpost or extension test is located and drilled with the expectation of extending for a considerable distance the productive area of a partly developed pool. It is usually two or more locations distant from the nearest productive area. Sometimes an outpost discovers a new pool.
- DEV - DEVELOPMENT WELL - A well drilled to exploit a hydrocarbon accumulation discovered by previous drilling.
- STR - STRATIGRAPHIC TEST - A drilling effort, geologically directed, to obtain information pertaining to a specific earth condition that might lead toward a possible accumulation of hydrocarbons. It must be drilled without the intention of being completed for hydrocarbon production. This classification includes tests identified as 'core tests' by some operators.
- SRV - SERVICE WELL - A well that is either drilled or completed for the purpose of supporting production of an existing field through observation, injection, water supply, etc.
- MSC - MISCELLANEOUS - Any test drilled that does not fit one of the above classifications. Two types are Waste Disposal (WD) and Gas Storage (GS) test or well.

Possibilities chart

Classification when started	Classification after completion or abandonment	
	Completed	Abandoned
Wells intended for completion as hydrocarbon producers		
NFW - New Field Wildcat	NFD - New Field Discovery	DRY - Dry New Field Wildcat
NPW - New Pool Wildcat	NPD - New Pool Discovery or EXT - Outpost/Extension Wll	DRY - Dry New Pool Wildcat
DPT - Deeper Pool Test	DPD - Deeper Pool Discovery or DPE - Deeper Pool Extension	DRY - Dry Deeper Pool Wildcat
SPT - Shallower Pool Test	SPD - Shallower Pool Discovery or SPE - Shallow Pool Extension	DRY - Dry Shallow Pool Test
EXT - Outpost/Extension Test	NPD - New Pool Discovery or EXT - Extension Well	DRY - Dry Outpost/Extension Test
DEV - Development Well	NPD - New Pool Discovery or DEV - Development Well	DRY - Dry Development Well
Wells not intended for completion as hydrocarbon producers		
STR - Stratigraphic/Core Test	Will not generally be completed	STR - Abandoned Stratigraphic/Core Test
SRV - Service Well	See Notes: Classify as OBS - observation; WI - water injection, GI - Gas injection, etc.	SEV - Abandoned service well
MSC - Miscellaneous	See Notes : Classify as WD - waste disposal; GS - gas storage, etc.	MSC - Abandoned Miscellaneous well.

C. WELL CLASSIFICATION - EXPLANATORY CHART



NOTE: In the above chart, the well shown as 'DEV Development Well' would naturally have been preceded by a 'NFW New Field Wildcat' but, for clarity, this well has been omitted.