SELECTED COREHOLES AND WELLS DRILLED FOR OIL

Compiled by J. E. Schoellhamer and J. G. Vedder

(Elevations and depths in feet, Foraminifera identified by Patsy B. Smith)

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN FILE MAP

Map No.	Operator	Well	Location	Elevation	Total Depth	Year drilled	Geology	Remarks
1	Ajax Petroleum Co.	Well No. 1	Sec. 21, T. 6 S., R. 10 W.	105±	7253	1927-1932	Top Topanga fm., undifferentiated, about 6444.	See p. 333, Calif. Div. Mines, Bull. 118, 1943, for additional data.
2	Almeria Industries Co.	El Toro No. 1	Block 171, Irvine Ranch Survey	250	2328	1947	0-7, terrace deposits; 7-2328, Sespe fm.	Bottom part may be Santiago fm. or Silverado fm.
3	Amerada Petroleum Corp.	Lamb Comm. No. A68-6	Sec. 7, T. 6 S., R. 10 W.	10.7	10327	1948	0-7, alluvium; 7-2700, lower Pliocene to upper Pleistocene sand, gravel, and silt; 2700-3650, upper Miocene-lower Pliocene siltstone; 3650-6370, upper Miocene siltstone and sandstone; 6370-10280, Topanga fm., undifferentiated; 10280-10327, coarse diabase or ophitic diorite.	
4	Atlas Production Co.	Irvine No. 1	Sec. 23, T. 6 S., R. 10 W.	85±	3972	1945	0-7, terrace deposits; 7-600±, upper Miocene-lower Pliocene siltstone; 600±-1900±, upper Miocene siltstone and sandstone; 1900±-2800±, upper middle Miocene siltstone; 2800±-3972, Topanga fm., undifferentiated.	
5	A. V. Oil and Gas Co.	A. V. No. 1	Sec. 16, T. 6 S., R. 10 W.	100	4757	1938	0-7, terrace deposits; 7-1060, lower Pliocene to upper Pleistocene sand, gravel, and silt; 1060-2000, upper Miocene-lower Pliocene siltstone; 2000-4757, upper Miocene siltstone and sandstone.	
6	Ben Hur Refining Corp.	Darling No. 1	Block 52, Irvine Ranch survey	95	2057	1945	0-7, terrace deposits; 7-1100±, upper Miocene-lower Pliocene siltstone; 1100±-2057, upper Miocene siltstone and sandstone.	Formerly O. F. Darling.
7	James Cagney and William Cagney	Cagney No. 5	Sec. 28, T. 6 S., R. 10 W.	88	3878	1948	0-7, terrace deposits; 7-170, upper Miocene-lower Pliocene siltstone; 170-3878, upper Miocene siltstone and sandstone.	Formerly Jergins Oil Co.
8	Calny Oil Co.	Irvine No. 1	Block 154, Irvine Ranch survey	405±	4247	1924-1927	0-345, alluvium and terrace deposits; 345-1450, Sespe(?) fm.; 1450-4247, undifferentiated Upper Cretaceous sedimentary rocks.	Location approximate. Drillers log, stratigraphic interpretation questionable.
9	Coast Supply Co.	Lamb Comm. No. 51-6	Sec. 6, T. 6 S., R. 10 W.	23	7834	1948	0-7, alluvium; 7-3720, lower Pliocene to upper Pleistocene sand, gravel, and silt; 3720-4675, upper Miocene-lower Pliocene siltstone; 4675-6520, upper Miocene siltstone and sandstone; 6520-7834, Topanga fm.; undifferentiated.	Formerly Shell Oil Co. Igneous (volcanic?) rock cored from 7627-29 and 7695-7699. Bottomed in siltstone and sandstone of Topanga fm.
10	Continental Oil Co.	Capron No. 1	Sec. 12, T. 8 S., R. 8 W.	68	3924	1955	0-7, alluvium; 7-2240±, Capistrano fm.; 2240±-2880, Monterey shale; 2880-3540, San Onofre breccia; 3540-3924, Topanga fm.	
11	Continental Oil Co.	Shumaker No. 1	Sec. 23, T. 7 S., R. 8 W.	346	3985	1955	0-1100, Capistrano fm.; 1100-1225, Monterey shale; 1225-2660, San Onofre breccia; 2660-3985, Topanga fm.	
12	O. F. Darling	Sierra No. 2	Block 53, Irvine Ranch survey	100±	4506	1946	0-1060±, terrace deposits; 1060±-1060, upper Miocene-lower Pliocene siltstone; 1060-1710±, upper Miocene siltstone and sandstone; 1710±-2500±, middle Miocene siltstone; 2500±-4506, Topanga fm., undifferentiated.	Formerly Sierra Trading Corp. and Silver Divide Mines Co.
13	Doc Exploration Co.	Nancy No. 1	Sec. 3, T. 8 S., R. 8 W.	620	4320	1951	0-50±, Niguel fm.; 50±-2175±, Capistrano fm.; 2175±-3450, Monterey shale; 3450-4320, San Onofre breccia.	Capistrano-Monterey contact gradational.
14	Roy Hartman	Well No. 1	Sec. 5, T. 7 S., R. 8 W.	500±	4437	1921-1925	0-7, Monterey shale; 7-1640±, San Onofre breccia; 1640±-2900±, Topanga fm. and/or Vaqueros fm.; 2900±-4437, Sespe fm. and older rocks(?).	Driller's log; stratigraphic interpretation questionable. Formerly Rosanta Oil Association.
15	H. T. and K. Syndicate	Well No. 1	Block 126, Irvine Ranch survey	200±	3840	1919-1923		Driller's log to 760 indicates gray sand and blue shale; no data below 760.
16	Independent Exploration Co.	Irvine No. 1	Block 53, Irvine Ranch survey	102	1376	1949	0-1002, terrace deposits; 1002-5002, upper Miocene-lower Pliocene siltstone; 5002-1376, upper Miocene siltstone and sandstone.	
17	Independent Exploration Co.	Norris No. 18	Sec. 10, T. 6 S., R. 10 W.	83	5317	1949	0-7, terrace deposits; 7-1600±, lower Pliocene(?) to upper Pleistocene sand, gravel, and silt; 1600±-2700, upper Miocene-lower Pliocene siltstone; 2700-5000±, upper Miocene siltstone and sandstone; 5000±-5317, Topanga fm., undifferentiated.	
18	G. E. Kadane and Sons	Townsend No. 3	Sec. 20, T. 6 S., R. 10 W.	100	7110	1944	7-950±, upper Miocene-lower Pliocene siltstone; 950±-6350±, upper Miocene siltstone and sandstone; 6350±-7110, middle Miocene(?) siltstone.	Formerly Macoil Co.
19	Laguna Beach Oil Assoc.	Well No. 1	Sec. 30, T. 7 S., R. 8 W.	300±	5000	1920-1924(?)	Bottomed in Vaqueros fm.	
20	Mesa Oil Co.	Mesa No. 3	Sec. 29, T. 6 S., R. 10 W.	85	7866	1937	1721-6534±, upper Miocene siltstone and sandstone; 6534±-7866, middle Miocene siltstone.	No data above 1721.
21	Morton and Sons	El Toro No. 14-1	Sec. 14, T. 6 S., R. 8 W.	591	6528	1947-1948	0-150±, Oso member of Capistrano fm.; 150±-850±, Monterey shale; 850±-1150±, Topanga(?) fm.; 1150±-2100±, Vaqueros and Sespe fm.; 2100±-3000±, Santiago and Silverado fms.; 3000±-3400±, Williams fm.; 3400±-5200±, Hols shale member of Ladd fm.; 5200±-5930±, Baker Canyon member of Ladd fm.; 5930±-6517, Bedford Canyon fm. and metavolcanic rock related to Santiago Peak volcanics.	Ditch samples contain lower Mohnian Foraminifera at 800, Luisian(?) at 1200.
22	Morton and Sons	Irvine No. 55-1	Block 55, Irvine Ranch survey	190	9427	1947	0-7, terrace deposits; 7-750±, Monterey shale; 750±-6530, San Onofre breccia and Topanga fm., undifferentiated; 6530-8550±, Sespe fm.; 8550-9427, Santiago and/or older fms.	Fault at 8550±. Ditch samples contain Relisian Foraminifera at 1390-1400, 1650-1690, and 6000.
23	Morton and Sons	Irvine No. 56-1	Block 56, Irvine Ranch survey	215	6770	1947	0-125±, terrace deposits; 125±-250±, lower Pliocene(?) to upper Pleistocene sand, gravel, and silt; 250±-930±, upper Miocene-lower Pliocene siltstone; 930±-1990, Paularino member of Topanga fm.; 1990-4300±, Los Trancos member of Topanga fm. with diabase(?) at 2500± and 3500±; 4300±-5250±, Bommer member of Topanga fm.; 5250±-6450±, Vaqueros fm. with diabase(?) at 6200±; 6450±-6770, Sespe fm.	Ditch samples contain Pliocene Foraminifera at 620, middle(?) Miocene at 800, and Relisian at 2900. Possible thin flows and flow breccias between 650 and 1980.
24	Morton and Sons	Irvine No. 174-1	Block 174, Irvine Ranch survey	496	4472	1947	0-75±, alluvium; 75±-450±, Topanga fm.; 450±-700, Sespe fm.; 700-1260, Santiago and Silverado fms.; 1260-2040, Williams fm.; 2040-4218, Hols shale member of Ladd fm.; 4218-4360±, Baker Canyon member of Ladd fm.; 4360±-4472, Bedford Canyon fm. and/or metavolcanic rock related to Santiago Peak volcanics.	Fault at 500±. Geology 0-1200 projected from Shell Oil Co. Irvine C. H. No. 19.
25	Nurewing and Halvorson	Well No. 1	Sec. 2, T. 8 S., R. 8 W.	620	3004(?)	1926-1928	Bottomed in Monterey shale.	Formerly California Petroleum Developing Co.
26	Northland Oil Co.	Well No. 1	Block 126, Irvine Ranch survey	2302	1975	1920-1924		Driller's log only data available, no geologic interpretation possible; location approximate.
27	Republic Operators, Inc.	Terrace Comm. No. 1	Sec. 16, T. 6 S., R. 10 W.	98	4487	1947	0-7, terrace deposits; 7-840±, lower Pliocene to upper Pleistocene sand, gravel, and silt; 840±-1840, upper Miocene-lower Pliocene siltstone; 1840-4487, upper Miocene siltstone and sandstone.	
28	Richfield Oil Corp.	Costa Mesa No. 1	Sec. 9, T. 6 S., R. 10 W.	90	6717	1955	0-7, terrace deposits; 7-1600±, lower Pliocene to upper Pleistocene sand, gravel, and silt; 1600±-2506, upper Miocene-lower Pliocene siltstone; 2506-5500, upper Miocene siltstone and sandstone; 5500-6717, Topanga fm., undifferentiated.	Fragmental volcanic rock cored at 6589-96 and 6705-17. Bottom hole coordinates 335 north, and 1105 east of surface location.
29	Sandburg and Carlson	Segerstrom No. 1	Sec. 9, T. 6 S., R. 10 W.	74	7058	1953	0-7, terrace deposits; 7-2600, lower Pliocene to upper Pleistocene sand, gravel, and silt; 2600-3600, upper Miocene-lower Pliocene siltstone; 3600-6550±, upper Miocene siltstone and sandstone; 6550±-7058, Topanga fm., undifferentiated.	Ditch samples indicate volcanic rock from 7005-7035.
30	Shell Oil Co.	Irvine One 44-166	Sec. 11, T. 7 S., R. 9 W.	884	9826	1950-1951	0-395, Bommer member of Topanga fm.; 395-3075, Vaqueros fm.; 3075-5700±, Sespe fm.; 5700±-7900±, Santiago fm.; 7000±-8100±, Silverado fm.; 8100±-9575, Williams fm.; 9575-9826, Hols shale member of Ladd fm.	Possible faults at 3075, 5200±, 7200.
31	Shell Oil Co.	Irvine Three 66-136	Sec. 26, T. 6 S., R. 9 W.	409	867	1951	0-350, Silverado fm.; 350-867, Williams fm.	
32	Shell Oil Co.	Irvine Four 51-130	Sec. 5, T. 7 S., R. 9 W.	381	6431	1950-1951	0-2302, Monterey shale; 2302-5160, San Onofre breccia and Topanga fm., undifferentiated; 5160-5950±, Los Trancos member(?) of Topanga fm.; 5950-6431, Sespe fm.	Original hole, bottom hole coordinates 11 south and 1066 west of surface location. Fault at 5160 and 5950±.
33	Shell Oil Co.	Irvine Four 51-130 (Redrill)	Sec. 5, T. 7 S., R. 9 W.	381	9043	1951	0-2302, Monterey shale; 2302-4850±, San Onofre breccia and Topanga fm., undifferentiated; 4850±-6350±, Los Trancos member(?) of Topanga fm.; 6350±-6850, San Onofre breccia and Topanga fm., undifferentiated; 6850-7100, diabase; 7100-7630, Sespe fm.; 7630-8150±, Santiago fm.(?); 8150±-8840, Williams fm.; 8840-9043, Hols shale member of Ladd fm.	Redrill, bottom hole coordinates 1801 south and 2472 west of surface location. Fault at 6350±, 6850-7100, and 8840.
34	Shell Oil Co.	Moulton No. 88-4	Sec. 4, T. 7 S., R. 8 W.	248	3967	1952	0-7, alluvium; 7-280 Monterey shale; 280-660, San Onofre breccia; 660-1920±, Topanga fm.; 1920±-2670±, Vaqueros fm.; 2670±-3967, Sespe fm.	
35	Shell Oil Co.	Irvine C. F. No. 1	Block 89, Irvine Ranch survey	74	508	1949	0-95, alluvium and terrace deposits; 95-350±, biotite diabase; 350±-508, Vaqueros fm.	
36	Shell Oil Co.	Irvine C. F. No. 2	Block 89, Irvine Ranch survey	108	932	1949-1950	0-42, terrace deposits; 42-432, biotite diabase; 432-932, Vaqueros fm.	
37	Shell Oil Co.	Irvine C. F. No. 3	Block 153, Irvine Ranch survey	450	585	1950	0-7, Niguel fm.; 7-426, Vaqueros-Sespe fms.; 426-480, Silverado fm.(?); 480-585, Williams fm.	Fault(?) at 426.
38	Shell Oil Co.	Irvine C. F. No. 4	Block 99, Irvine Ranch survey	251	803	1950	0-62, alluvium and terrace deposits; 62-771, Los Trancos member of Topanga fm.; 771-803, diabase.	
39	Shell Oil Co.	Irvine C. F. No. 5	Block 153, Irvine Ranch survey	473	932	1950	0-122, Monterey shale; 122-442, Topanga fm. or Vaqueros-Sespe fm.; 442-873, Santiago fm. or Silverado fm.; 873-932, Williams fm.	0-112, lower Luisian Foraminifera; 122-172, Relisian Foraminifera.
40	Shell Oil Co.	Irvine C. F. No. 6	Sec. 29, T. 6 S., R. 9 W.	298	787	1950	0-7, alluvium and terrace deposits; 7-272, Los Trancos member of Topanga fm.; 272-787, Bommer member of Topanga fm.	
41	Shell Oil Co.	Irvine C. F. No. 7	Sec. 34, T. 6 S., R. 9 W.	1011	912	1950	0-912, Bommer member of Topanga fm.	
42	Shell Oil Co.	Irvine C. F. No. 8	Sec. 2, T. 7 S., R. 9 W.	861	887	1950	0-887, Bommer member of Topanga fm.	
43	Shell Oil Co.	Irvine C. F. No. 9	Block 90, Irvine Ranch survey	271	982	1950	0-982, Los Trancos member of Topanga fm.	
44	Shell Oil Co.	Irvine C. F. No. 10	Block 57, Irvine Ranch survey	84	961	1950	0-870, Paularino member of Topanga fm.; 870-961, Los Trancos member of Topanga fm.	162-372, Relisian Foraminifera.
45	Shell Oil Co.	Irvine C. F. No. 12	Sec. 22, T. 6 S., R. 9 W.	286	1202	1950	0-82, alluvium; 82-982, Los Trancos member of Topanga fm.; 982-1202, Bommer member of Topanga fm.	Thin diabases present from 82-682.
46	Shell Oil Co.	Irvine C. F. No. 13	Block 175, Irvine Ranch survey	516	845	1950	0-100, alluvium; 100-845, Vaqueros-Sespe fms.	Turritella inezana in cores from 111-142.
47	Shell Oil Co.	Irvine C. F. No. 20	Sec. 26, T. 6 S., R. 9 W.	285	932	1950	0-932, Silverado fm.	502-532, clay bed shown on geologic map.
48	Shell Oil Co.	Irvine C. F. No. 21	Block 100, Irvine Ranch survey	280±	247	1951	0-332, terrace deposits; 332-522, Vaqueros fm.; 522-247, Sespe fm.	
49	Shell Oil Co.	Krum C. F. 42	Sec. 13, T. 8 S., R. 8 W.	398	1053	1952	0-1053, Capistrano fm.	
50	Shell Oil Co.	Mission C. F. No. 22	Sec. 24, T. 7 S., R. 8 W.	225	952	1951	0-60, alluvium, 60-952, Capistrano fm.	
51	Shell Oil Co.	Mission C. F. No. 36	Sec. 12, T. 7 S., R. 8 W.	446	799	1952	0-743, Capistrano fm.; 743-799, Monterey shale.	23-113, lower Pliocene Foraminifera. 773-799, Mohnian Foraminifera.
52	Shell Oil Co.	Mission C. F. No. 37	Sec. 7, T. 7 S., R. 7 W.	684	698	1952	0-252, Niguel fm.; 252-253, Oso member of Capistrano fm.; 253-698, Monterey shale.	283-643, Mohnian Foraminifera.
53	Shell Oil Co.	Mission C. F. No. 38	Sec. 8, T. 7 S., R. 7 W.	462	766	1952	0-438, alluvium; 438-633, Monterey shale; 633-766, Topanga fm.	103-543, lower Mohnian Foraminifera. 543-630, upper Luisian Foraminifera.
54	Shell Oil Co.	Mission C. F. No. 41	Sec. 8, T. 7 S., R. 7 W.	583	1018	1952	0-7, terrace deposits; 7-645, Monterey shale; 645-823, San Onofre breccia; 823-1018, Vaqueros-Sespe fms.	Fault at 823, 293-400, lower Mohnian Foraminifera. 400-563, Mohnian(?) Foraminifera. 563-593, Luisian Foraminifera.
55	Shell Oil Co.	Mission C. F. No. 43	Sec. 19, T. 7 S., R. 7 W.	270	1017	1952	0-600±, Capistrano fm.; 600±-1017, Monterey shale.	653-983, Mohnian Foraminifera
56	Shell Oil Co.	Mission C. F. No. 44	Sec. 20, T. 7 S., R. 7 W.	661	1023	1952	0-1023, Monterey shale.	43-223, upper Mohnian Foraminifera. 223-943, lower Mohnian Foraminifera. 943-1023, upper Luisian Foraminifera.
57	Shell Oil Co.	Moulton C. F. No. 23	Sec. 23, T. 7 S., R. 8 W.	307	910	1951	0-910, Capistrano fm.	
58	Shell Oil Co.	Moulton C. F. No. 24	Sec. 21, T. 7 S., R. 8 W.	258	1032	1951	0-850±, Capistrano fm.; 850±-1032, Monterey shale.	802-1012, Mohnian Foraminifera. 1012-1032, Luisian Foraminifera.
59	Shell Oil Co.	Moulton C. F. No. 25	Sec. 28, T. 7 S., R. 8 W.	362	573	1951	0-573, Capistrano fm.	
60	Shell Oil Co.	Moulton C. F. No. 26	Sec. 16, T. 7 S., R. 8 W.	303	860	1951	0-625, Monterey shale; 625-860, San Onofre breccia.	222-552, upper(?) Luisian Foraminifera. 702, lower Luisian Foraminifera.
61	Shell Oil Co.	Moulton C. F. No. 27	Sec. 28, T. 7 S., R. 8 W.	497	1023	1951	0-502, Niguel fm.; 502-380, Capistrano fm.; 380-1023, Monterey shale.	252-822, Mohnian Foraminifera. 1023, Luisian Foraminifera.
62	Shell Oil Co.	Moulton C. F. No. 28	Sec. 10, T. 7 S., R. 8 W.	333	517	1951	0-2002, Capistrano fm.; 2002-415, Monterey shale; 415-517, San Onofre breccia.	162-252, Mohnian Foraminifera. 252-402, Luisian Foraminifera.
63	Shell Oil Co.	Moulton C. F. No. 29	Sec. 3, T. 7 S., R. 8 W.	402	1002	1951	0-440, Capistrano fm.; 440-1002, Monterey shale.	102-952, Mohnian Foraminifera. 952-1002, Luisian Foraminifera.
64	Shell Oil Co.	Moulton C. F. No. 30	Sec. 21, T. 7 S., R. 8 W.	153	1002	1951	0-7, alluvium; 7-70, Capistrano fm.; 70-850, Monterey shale; 850-1002, San Onofre breccia.	132-372, Mohnian Foraminifera. 372-790, Luisian Foraminifera. 930-982, Luisian(?) Foraminifera.
65	Shell Oil Co.	Moulton C. F. No. 31	Sec. 9, T. 7 S., R. 8 W.	330	728	1951	0-728, Monterey shale.	
66	Shell Oil Co.	Moulton C. F. No. 32	Sec. 16, T. 7 S., R. 8 W.	165	623	1951	0-7, alluvium; 7-503, Monterey shale; 603-623, San Onofre breccia.	93-213, Mohnian Foraminifera. 213-543, Luisian Foraminifera.
67	Shell Oil Co.	Moulton C. F. No. 33	Sec. 33, T. 6 S., R. 8 W.	302	503	1951	0-310, Monterey shale; 310-503, San Onofre breccia.	43-503, Luisian Foraminifera.
68	Shell Oil Co.	Moulton C. F. No. 34	Sec. 31, T. 6 S., R. 8 W.	407	774	1951	0-774, Sespe fm.	
69	Shell Oil Co.	Moulton C. F. No. 35	Sec. 12, T. 7 S., R. 8 W.	311	895	1952	0-7, alluvium; 7-895, Capistrano fm.	
70	Shell Oil Co.	Moulton C. F. No. 40	Sec. 10, T. 7 S., R. 8 W.	230	563	1952	0-7, alluvium; 7-153, Capistrano fm.; 153-515, Monterey shale; 515-563, San Onofre breccia.	43-513, Mohnian Foraminifera.
71	Shell Oil Co.	Moulton C. F. No. 45	Sec. 10, T. 7 S., R. 8 W.	223	1023	1952	0-7, alluvium; 7-210, Capistrano fm.; 210-530, Monterey shale; 530-1023, San Onofre breccia.	83-443, Mohnian Foraminifera. 443-473, Luisian Foraminifera.
72	Shell Oil Co.	El Toro C. H. No. 13	Sec. 15, T. 6 S., R. 8 W.	434	3407	1951	0-7, terrace deposits; 7-1900, Vaqueros-Sespe fms.; 1900-3140±, Santiago and Silverado fms.; 3140-3407, Williams fm.	
73	Shell Oil Co.	El Toro C. H. No. 15	Sec. 15, T. 6 S., R. 8 W.	442	744	1951	0-7, terrace deposits; 7-744, Vaqueros-Sespe fms.	
74	Shell Oil Co.	El Toro C. H. No. 16	Sec. 10, T. 6 S., R. 8 W.	438	685	1951	0-7, alluvium; 7-685, Vaqueros-Sespe fms.	
75	Shell Oil Co.	El Toro C. H. No. 17	Sec. 11, T. 6 S., R. 8 W.	480	2048	1951	0-7, alluvium; 7-7, Oso member of Capistrano fm.; 7-1170±, Monterey shale; 1170±-1400±, Topanga fm.; 1400±-2048, Vaqueros-Sespe fms.	
76	Shell Oil Co.	El Toro C. H. No. 18	Sec. 14, T. 6 S., R. 8 W.	462	2142	1951	0-7, terrace deposits; 7-1552, Oso member of Capistrano fm.; 1552-2002, Monterey shale; 2002-1350±, Topanga fm.; 1350±-1800±, Vaqueros-Sespe fm.; 1800±-2042, Santiago and Silverado fms.	
77	Shell Oil Co.	Irvine C. H. No. 1	Block 96, Irvine Ranch survey	274	3108	1938	0-135±, Monterey shale; 135±-3108, San Onofre breccia and Topanga fm., undifferentiated.	Bottom hole coordinates, 282 north and 68 west of surface location.
78	Shell Oil Co.	Irvine C. H. No. 2	Block 96, Irvine Ranch survey	247	2241	1938-1939	0-100±, Monterey shale; 100±-2241, San Onofre breccia and Topanga fm., undifferentiated.	
79	Shell Oil Co.	Irvine C. H. No. 3	Block 96, Irvine Ranch survey	306	1806	1939	0-250±, Monterey shale; 250±-1806, San Onofre breccia and Topanga fm., undifferentiated.	
80	Shell Oil Co.	Irvine C. H. No. 64	Sec. 2, T. 7 S., R. 9 W.	501	5613	1950	0-428, Bommer member of Topanga fm.; 428-4380, Vaqueros fm.; 4380-5613, Sespe fm.	
81	Shell Oil Co.	Irvine C. H. No. 7	Sec. 26, T. 6 S., R. 9 W.	302	5760	1950	0-7, alluvium; 7-1550, Silverado fm.; 1550-3185, Williams fm.; 3185-3575, Hols shale member of Ladd fm.; 3575-5760, Baker Canyon member of Ladd fm.	
82	Shell Oil Co.	Irvine C. H. No. 8	Block 103, Irvine Ranch survey	110	4715	1950	0-470, alluvium; 470-1700, Vaqueros fm.; 1700-2550, Sespe fm.; 2550-3330, Santiago fm.; 3330-3580, Silverado fm.; 3580-3700, diabase; 3700-4200, Williams fm.; 4200-4715, Hols shale member of Ladd fm.	
83	Shell Oil Co.	Irvine C. H. No. 9	Block 175, Irvine Ranch survey	558	3285	1950	0-100, alluvium; 100-2070, Vaqueros-Sespe fms.; 2070-2840, Santiago fm.; 2840-3285, Williams fm.	Fault at 2840.
84	Shell Oil Co.	Irvine C. H. No. 19	Block 174, Irvine Ranch survey	499	1925	1951	0-752, alluvium; 752-1402, Topanga fm.; 1402-700, Sespe fm.; 700-1260, Santiago and Silverado fms.; 1260-1925, Williams fm.	Fault at 500±.
85	Shell Oil Co.	Moulton C. H. No. 14	Sec. 10, T. 7 S., R. 8 W.	190	2723	1951	0-50±, alluvium; 50±-150±, Capistrano fm.; 150±-810, Monterey shale; 810-1900±, San Onofre breccia; 1900±-2590, Topanga fm.; 2590-2723, Vaqueros-Sespe fms.	1460-1570, siltstone interbedded in San Onofre breccia. 710-850, Mohnian Foraminifera. 400-730, upper Luisian Foraminifera. 730-750, lower Luisian Foraminifera. 750-1590, lower Luisian or Relisian Foraminifera. 1980-2000, Relisian Foraminifera.
86	Signal Oil and Gas Co.	Irvine Beach No. 1	Sec. 6, T. 7 S., R. 9 W.	134	1900	1943	0-7, terrace deposits; 7-310±, Monterey shale; 310±-1900, San Onofre breccia and Topanga fm., undifferentiated.	San Onofre type breccia cored 1567-85.
87	South Fullerton Oil Co.	Well No. 1	Sec. 4, T. 7 S., R. 8 W.	360±	4129(?)	?		Driller's log, probably in Sespe fm. below 3300.
88	Standard Oil Co.	Irvine No. 1	Block 7, Irvine Ranch survey	47	3355	1925	0-7, terrace deposits; 7-1650±, Pliocene(?) to upper Pleistocene sand, gravel, and silt; 1650±-1900±, Monterey shale; 1900±-3355, Paularino member of Topanga fm.	Fragmental volcanic rock cored at 2984 and 3053. 3053-3355 may be Los Trancos member of Topanga fm. 1680, lower Mohnian Foraminifera. 1275-1840, Luisian Foraminifera. 1926, lower Luisian or Relisian Foraminifera.
89	Standard Oil Co.	Irvine No. 1	Block 4, Irvine Ranch survey	81	3966	1918-1919		Driller's log; 1810-3300 may be lower Pliocene-upper Miocene siltstone and sandstone; 3300-3966, Topanga fm.(?).
90	Standard Oil Co.	Irvine No. 1	Block 55, Irvine Ranch survey	10	5627	1930-1931	0-50±, alluvium; 50±-150±, Monterey shale; 150-5627, San Onofre breccia and Topanga fm., undifferentiated.	Thin streaks San Onofre type breccia cored at 2360, 2620-34, 4073-91, and 4174-84. 150-2288, Relisian Foraminifera.
91	Standard Oil Co.	Turley No. 1	Sec. 4, T. 6 S., R. 10 W.	52	7275	1948	0-7, terrace deposits; 7-3800, lower Pliocene(?) to upper Pleistocene sand, gravel, and silt; 3800-5570±, upper Miocene-lower Pliocene siltstone; 5570±-7150±, upper Miocene siltstone and sandstone; 7150±-7275, Topanga fm., Paularino mbr.	Fragmental porphyritic andesite cored at 7170-76 and 7180-81. "A" and "B" sands missing(?).
92	Sunset Oil Co.	Meyers No. 1	Sec. 17, T. 6 S., R. 10 W.	28	6079	1946	0-7, alluvium; 7-1450±, lower Pliocene-upper Pleistocene sand, gravel, and silt; 1450±-2350, upper Miocene-lower Pliocene siltstone; 2350-6079, upper Miocene siltstone and sandstone.	lower Mohnian Foraminifera reported from TD.
93	Sunset Pacific Oil Co.	Marine No. 53	Block 4, Irvine Ranch survey	90±	3364	1925	7-2800±, upper Miocene siltstone and sandstone; 2800±-3364, probably Topanga fm.	Thin section of core at 2854 is diabase; core description suggests that diabase was cored at 2868-2917, 2997-3005, and 3096-3211.
94	Superior Oil Co.	Irvine No. 1	Sec. 27, T. 6 S., R. 10 W.	90	4992	1931	0-7, terrace deposits; 7-3600±, upper Miocene siltstone and sandstone; 3600±-4992, Topanga fm., undifferentiated.	
95	Tide Water Associated Oil Co.	Norris No. 1	Sec. 8, T. 6 S., R. 10 W.	21	3558	1946	0-7, alluvium; 7-2370, lower Pliocene to upper Pleistocene sand, gravel, and silt; 2370-3250, upper Miocene-lower Pliocene siltstone; 3250-3558, upper Miocene siltstone and sandstone.	
96	Tide Water Associated Oil Co.	Norris No. 2	Sec. 8, T. 6 S., R. 10 W.	15	6540	1946	0-752, alluvium; 752-1920±, lower Pliocene to upper Pleistocene sand, gravel, and silt; 1920±-2795, upper Miocene-lower Pliocene siltstone; 2795-6540, upper Miocene siltstone and sandstone.	
97	Union Oil Co.	O'Neill No. 1	Sec. 30, T. 7 S., R. 7 W.	372	4520	1920-1921	0-1002, Capistrano fm.; 1002-1300±, Monterey shale; 1300±-1695±, San Onofre breccia; 1695±-2950±, Topanga fm.; 2950±-4520, Vaqueros-Sespe fms.	
98	J. K. Wadley	Segerstrom No. 1	Sec. 9, T. 6 S., R. 10 W.	72	6563	1954	0-7, terrace deposits; 7-2620, lower Pliocene to upper Pleistocene sand, gravel, and silt; 2620-3715, upper Miocene-lower Pliocene siltstone; 3715-6480±, upper Miocene siltstone and sandstone; 6480±-6563, Topanga fm., undifferentiated.	
99	C. A. Welsh	O. K. Carr No. 2	Sec. 13, T. 8 S., R. 8 W.	210±	5216	1927-1933(?)	0-7, landslide debris; 7-2400±, Capistrano fm.; 2400±-2750±, Monterey shale; 2750±-4000±, San Onofre breccia; 4000±-5216, Vaqueros-Sespe fms.	Formerly O. K. Carr well No. 2.
100	Wucherer-Gray Oil Co.	Well No. 1	Block 91, Irvine Ranch survey	205±	4305	1921-1925(?)	Probably all Topanga fm.	Driller's log: 0-1774, hard sand and boulders, some "shell" and sandy shale; 1774-4276, shale, blue shale, sandy shale, brown shale, and gray shale; 4276-4305, sand, hard blue sand, coarse gray hard sand.
101	Wucherer-Gray Oil Co.	Well No. 2	Block 57, Irvine Ranch survey	252	5194	1921-1925	Probably all Topanga fm.	Driller's log: 0-3000±, shale, gravel, sand, hard sand, boulders; 3000±-5000, shaley, brown shale, sandy shale, "shell"; 5000-5194, hard sand.
102	Wucherer-Gray Oil Co.	Well No. 3	Block 57, Irvine Ranch survey	110±	4880	1921-1925	0- 50± , probable terrace deposit; 50±-4880, probable Topanga fm.	Driller's log: 0-4154, alternating hard sandy shale and hard sand; 4154-4880, hard sand.
103	Wucherer-Gray Oil Co.	Well No. 4	Block 98, Irvine Ranch survey	220±	2037	1921-1926	Probably all Los Trancos member of Topanga fm.	Driller's log: 0-2037, blue shale, sandy shale, brown shale; water sand reported at 875-932 and 1707-1735.
104	Roy Gill and Associates	Forster No. 1	Sec. 13, T. 8 S., R. 8 W.	220+	6550	1958	0-100±, landslide debris; 100±-1400(?) Capistrano fm.; 1400(?)-2580, Monterey shale; 2580-3350, San Onofre Breccia; 3350-4000, Topanga(?) fm.; 4000-5050, Vaqueros and Sespe fms.; 5050-6550, Santiago and Silverado(?) fms.	Upper Mohnian Foraminifera reported from ditch samples at 2300; Eastward dips report below Monterey Shale.
105	Roy Gill and Associates	Krum No. 1	Sec. 7, T. 8 S., R. 7 W.	612	7117	1959	0-7, Capistrano fm.; 7-2366, Monterey Shale; 2366-2542, San Onofre Breccia; 2542-2670, Topanga(?) fm.; 2670-3760, Vaqueros and Sespe fms.; 3760-55807, Santiago fm.; 55807-6940, Silverado fm.; 6940-7117, Williams(?) fm.	Mohnian Foraminifera reported at 1000; Lower Mohnian, at 1300-1350; Luisian, at 2300, S, SE, and E dips below 2675.
106	Humble Oil Co.	O'Neill No. B-1	Sec. 25, T. 6 S., R. 8 W.	529	5183	1959	0-775±, Capistrano fm.; 775±-17507; Monterey Shale(?), 17507-20007, Topanga (?) fm.; 20007-3470, Vaqueros and Sespe fm.; 3470-5183, Santiago and Silverado(?) fms. (may have bottomed in Williams fm.).	Eastward dips reported below 3300.
107	Mineral Exploration Co.	Abbott No. 1	Sec. 8, T. 8 S., R. 7 W.	400±	4311	1932	0-7, Capistrano fm.; 7-2341, Monterey Shale; 2341-2570+, San Onofre Breccia