

**AVAILABLE WELL RECORDS  
AND SAMPLES OF  
ONSHORE AND  
OFFSHORE  
OIL AND GAS  
EXPLORATION WELLS  
IN OREGON**

**1987**

**STATE OF OREGON  
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES  
DONALD A. HULL, STATE GEOLOGIST**

STATE OF GEOLOGY  
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES  
910 State Office Building  
1400 S. W. Fifth Avenue  
Portland, Oregon 97201

## **OIL AND GAS INVESTIGATION 16**

# **AVAILABLE WELL RECORDS AND SAMPLES OF ONSHORE AND OFFSHORE OIL AND GAS EXPLORATION WELLS IN OREGON**

Compiled by  
**Dan E. Wermiel**  
Oregon Department of Geology and Mineral Industries



Conducted in conformance with ORS 516.030

**1987**

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**OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES**  
**OIL AND GAS INVESTIGATION 16**  
**AVAILABLE WELL RECORDS AND SAMPLES, OREGON**

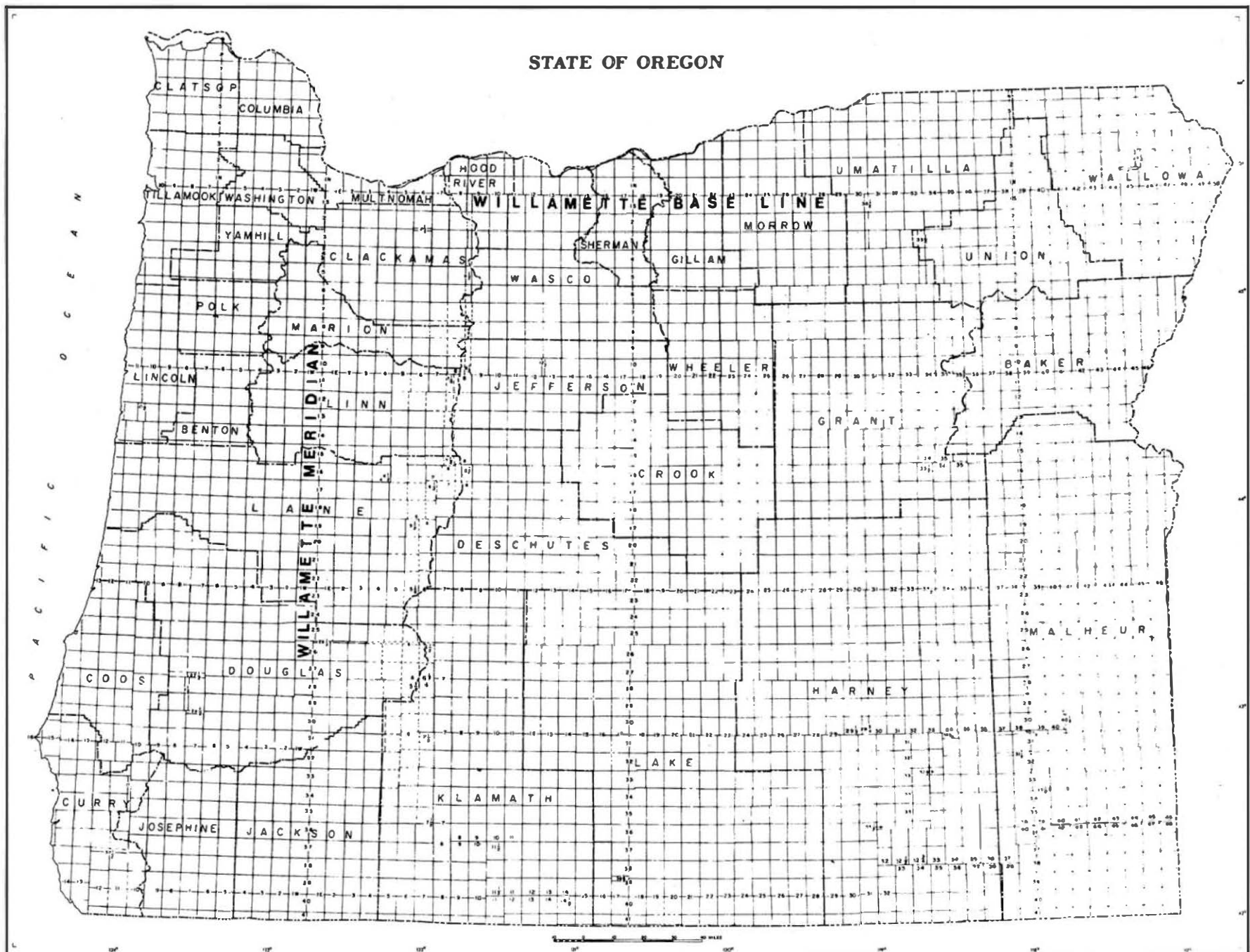


Figure 1. Map of Oregon showing Township and Range system, measured from the Willamette Base Line and Willamette Principal Meridian.

## INTRODUCTION

Laws regulating oil and gas exploration were first passed in Oregon in 1923, but the lack of funds prevented effective enforcement. Legislation in 1949 provided funding for inspection of drilling activity and placed enforcement of the statutes in the hands of the Oregon Department of Geology and Mineral Industries (DOGAMI). Oregon oil and gas law was expanded in 1953 enabling the State to effectively supervise oil and gas exploration and development. The use of bonds to insure proper abandonment of wells was also begun at that time. Further additions to Oregon statutes in 1961 allowed leasing of Oregon's submerged lands for exploration and provided for compulsory unitization of pools or fields during development.

Well records submitted by operators since 1953 are kept on file by the Department. These records are confidential for a period of two years, after which they are open to the public. The well records usually consist of a well history, descriptions of cuttings, and one or more logs. On recent wells, the lithologic descriptions are usually mud logs.

This paper contains records and samples obtained by DOGAMI through December 1986. Well names listed in Tables 1 and 2 are assigned by the operators of the wells and usually reflect or incorporate the name of the landowner, mineral rights owner, or a local geographic feature. Locations of wells are listed by county and, in most cases, by the Township and Range System, measured from the Willamette Base Line and the Willamette Principal Meridian (Figure 1). Locations are specified to the quarter section, wherever possible. Under the heading "Types of Logs," the logs are listed in an abbreviated form (Table 3) in alphabetical order. Well logs precede lithologic logs and are separated from them by a semicolon.

The Department also maintains a collection of cuttings and cores for most wells drilled since 1958. Persons interested in making studies of this material may arrange for its use with the Portland office. Well samples contained in the collection are listed in this paper.

Department files also include records and samples of numerous shallow core holes in western Oregon. These data are not itemized on the following pages but are available through the Department's Portland office.

Other publications available from DOGAMI concerning oil and gas in Oregon are listed in Table 5. Prices and availability of these publications are listed on the Department's publication list, which can be obtained from the Portland office or from the Baker or Grants Pass field offices.

The Department is not equipped to provide copies of records for sale on a routine basis. Copies of most histories and logs can be obtained from the firms listed in Table 4 that specialize in this service.

If any errors are found by the user, they should be brought to the attention of the author, so that corrections can be made.

Table 1. Onshore well records on file as of December 1986 (1)

## Oregon Department of Geology and Mineral Industries

Company (2)	Well name and date (3,4)	Total depth (ft)	Location ¼sec./T./R.	Types of logs	Samples	References
B E N T O N   C O U N T Y						
Lakin, Richard	Well 1, 1931	400	NW31/10S/7W	— —	— —	— —
Lakin, Richard	Well 2, 1931	700	NW31/10S/7W	— —	— —	— —
Willamette Petroleum Syndicate	Corvallis 1, 1934	2,150	NW11/12S/5W	DRL	— —	— —
C L A C K A M A S   C O U N T Y						
Home Oil and Gas Co.	Well 1, 1910	1,200	25/2S/2E	DRL	— —	— —
RH Exploration	Anderson 1, 1983	3,406	SE29/5S/1E	EL,GR,NDL;ML	Cuttings	— —
RH Exploration	Rose 1, 1983	3,479	NE20/5S/1E	ML	Cuttings	— —
C L A T S O P   C O U N T Y						
Diamond Shamrock Corp.	Boise Cascade 11-14, 1981	7,864	NW14/7N/7W	CPL,DIP,EL,GR,NDL,SL;ML	Cuttings	3,5,19,29
Diamond Shamrock Corp.	Clatsop County 33-11, 1983	4,223	SE11/6N/6W	DIP,EL,GR,NDL,SL;ML	Cuttings	29
Diamond Shamrock Corp.	Crown Zellerbach 11-28, 1981	5,700	NW28/5N/9W	CPL,DIP,EL,GR,NDL,SL;ML	Cuttings	19,29
Diamond Shamrock Corp.	Crown Zellerbach 31-17, 1981	6,095	NE17/6N/8W	DIP,EL,GR,NDL;ML	Cuttings	19,29
Diamond Shamrock Corp.	Watzek 22-19, 1983	5,190	NW19/6N/6W	DIP,EL,GR,NDL,SL;ML	Cuttings	— —
Lower Columbia Oil Co.	Brown 1, 1922	4,808	NW25/8N/10W	DRL	— —	— —
Nahama and Weagant Energy Co.	Jewell 1-23, 1985	3,190	SW23/5N/7W	EL,GR,SL;ML	Cuttings	— —
Oregon Natural Gas Dev.	Johnson 33-33, 1982	10,006	SE33/8N/8W	CBL,DIP,EL,GR,SL;ML	Cuttings	19,29
Oregon Natural Gas Dev.	Patton 32-9, 1982	10,159	NE9/7N/8W	EL,GR,NDL,SL;ML	Cuttings	19,29
Oregon Natural Gas Dev.	Patton 32-9, Redrill 1, 1983	3,917	NE9/7N/8W	EL,GR,NDL,SL;ML	Cuttings	— —
Quintana Petroleum Corp.	Watzek et al. 30-1, 1981	7,068	NW30/6N/6W	CBL,CPL,DIP,EL,GR,NDL,NL, SL;ML	Cuttings	19,29
Standard Oil Co. of California	Hoagland Unit 1, 1955	7,101	SE11/7N/10W	EL,GR;ML	Cuttings Cores	5,22,29

Notes: (1) Records are confidential for two years after abandonment, suspension, or completion. (2) Company is listed by current operator.

(3) Well is listed under name currently in use. (4) Date is of abandonment, suspension, or completion.

Table 1. Onshore well records on file as of December 1986 (1) -- Continued

## Oregon Department of Geology and Mineral Industries

Company (2)	Well name and date (3,4)	Total depth (ft)	Location ¼sec./T./R.	Types of logs	Samples	References
C O L U M B I A   C O U N T Y						
American Quasar Petroleum Co.	Benson Timber 8-14, 1981	2,196	SW8/6N/4W	DIP,EL,GR,NDL,SL;ML	Cuttings	— —
American Quasar Petroleum Co.	Crown Zellerbach 14-21, 1980	1,832	NW14/5N/5W	DIP,EL,GR,NDL,SL;ML	Cuttings	18
American Quasar Petroleum Co.	Crown Zellerbach 15-14, 1979	3,219	SW15/6N/4W	EL,GR,NDL,SL;ML	Cuttings	18,34
American Quasar Petroleum Co.	Crown Zellerbach 29-14, 1979	2,880	SW29/6N/4W	DIP,EL,GR,NDL,SL;ML	Cuttings	18,34
American Quasar Petroleum Co.	Crown Zellerbach 30-33, 1980	2,350	SE30/6N/4W	DIP,EL,GR,SL;ML	Cuttings	18
American Quasar Petroleum Co.	Investment Management 20-21, 1980	2,281	NW20/6N/4W	DIP,EL,GR,SL;LD	— —	18,30
American Quasar Petroleum Co.	Investment Management 20-21, Redrill 1, 1980	2,145	NW20/6N/4W	EL,GR,SL;LD	— —	30
American Quasar Petroleum Co.	Investment Management 34-21, 1980	4,080	NW34/6N/4W	DIP,EL,GR,NDL,SL;ML	Cuttings	18
American Quasar Petroleum Co.	Larkins 23-33, 1980	2,940	SE23/6N/5W	DIP,EL,GR,NDL,SL;ML	Cuttings	18
American Quasar Petroleum Co.	Longview Fibre 25-32, 1980	2,902	NE25/6N/5W	DIP,EL,GR,NDL,SL;ML	Cuttings	30
American Quasar Petroleum Co.	Longview Fibre 25-32, Redrill 1, 1980	3,261	NE25/6N/5W	DIP,EL;ML	Cuttings	30
American Quasar Petroleum Co.	Longview Fibre 25-33, 1979	7,000	SE25/6N/5W	EL,GR,NDL,SL;ML	— —	18,30
American Quasar Petroleum Co.	Rau 18-14, 1980	2,434	SW18/6N/4W	DIP,DIR,EL,GR,NDL,SL;ML	Cuttings	18
American Quasar Petroleum Co.	Rau 18-14, Redrill 1, 1980	2,440	SW18/6N/4W	DIP,DIR,EL,GR,NDL,SL;ML	Cuttings	— —
American Quasar Petroleum Co.	Wall 24-13, 1980	2,810	SW24/6N/5W	DIP,EL,FT,GR,SL;ML	Cuttings	— —
American Quasar Petroleum Co.	Wilna et al. 5-23, 1981	4,503	SW5/6N/4W	CBL,DIP,EL,GR,NDL,SL;ML	Cuttings	18
ARCO Oil and Gas Co.	Banzer 34-16, 1985	4,902	SE16/6N/5W	CPL,DIP,DIR,DL,EL,GR,NDL,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Busch 14-15, 1984	2,258	SW15/6N/5W	DIP,EL,GR,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Cavenham Forest Industries 12-1, 1985	1,721	NW1/5N/5W	CBL,DIP,EL,GR,NDL,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Cavenham Forest Industries 12-12, 1986	1,862	NW12/5N/5W	DIP,EL,NDL,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Cavenham Forest Industries 23-15, 1985	2,770	SW15/5N/4W	DIP,DIR,EL,GR,NDL,SL;ML	Cuttings	— —

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Table 1. Onshore well records on file as of December 1986 (1) -- Continued

## Oregon Department of Geology and Mineral Industries

Company (2)	Well name and date (3,4)	Total depth (ft)	Location ¼sec./T./R.	Types of logs	Samples	References
C O L U M B I A   C O U N T Y   -   C o n t i n u e d						
ARCO Oil and Gas Co.	Cavenham Forest Industries 31-16, 1985	2,867	NE16/5N/4W	EL,GR,NDL,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Cavenham Forest Industries 33-9, 1986	3,242	SE9/5N/4W	DIR,EL,NDL,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Cavenham Forest Industries 41-4, 1986	2,384	NE4/5N/4W	DIP,EL,NDL,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Cavenham Forest Industries 41-4, Redrill 1, 1986	1,935	NE4/5N/4W	DIP,DIR,EL,NDL,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Cavenham Forest Industries 41-9, 1986	2,500	NE9/5N/4W	DIP,EL,NDL,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Cavenham Forest Industries 41-9, Redrill 1, 1986	2,501	NE9/5N/4W	DIP,DIR,EL,NDL,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Columbia County 4, 1979	2,936	NE15/6N/5W	CBL,DIP,EL,FT,GR,SL;ML	Cuttings	34
ARCO Oil and Gas Co.	Columbia County 4, Redrill 1, 1982	2,894	NE15/6N/5W	CBL,DIP,EL,GR,SL,TDT;ML	Cuttings	34
ARCO Oil and Gas Co.	Columbia County 13-1, 1981	3,076	SW1/6N/5W	DIP,EL,GR,SL;ML	Cuttings	34
ARCO Oil and Gas Co.	Columbia County 13-1, Redrill 1, 1982	3,027	SW1/6N/5W	CBL,DIP,DIR,EL,GR,SL;ML	Cuttings	34
ARCO Oil and Gas Co.	Columbia County 13-34, 1982	2,822	SW34/7N/5W	CBL,DIP,EL,SL,TDT;ML	Cuttings	— —
ARCO Oil and Gas Co.	Columbia County 14-23, 1986	2,180	NW26/6N/5W	DIP,DIR,EL,NDL,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Columbia County 22-27, 1985	2,500	NW27/6N/5W	CPL,DIP,DIR,EL,GR,NDL,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Columbia County 23-19, 1985	3,440	SW19/6N/5W	CPL,DIP,DL,EL,GR,NDL,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Columbia County 23-22, 1983	2,028	SW22/6N/5W	DIP,EL,GR,SL,TDT;ML	Cuttings	— —
ARCO Oil and Gas Co.	Columbia County 31-8, 1986	4,054	NE8/6N/5W	DIP,DIR,EL,NDL,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Columbia County 32-32, 1985	2,711	NE32/6N/5W	EL,GR,NDL,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Columbia County 41-6, 1986	2,750	NE6/5N/5W	CPL,DIP,DIR,EL,NDL,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Columbia County 43-22, 1984	2,252	SE22/6N/5W	DIP,EL,GR,SL,TDT;ML	Cuttings	— —
ARCO Oil and Gas Co.	Columbia County 43-27, 1984	2,441	SE27/6N/5W	DIP,EL,GR,SL;ML	Cuttings	— —

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Table 1. Onshore well records on file as of December 1986 (1) -- Continued

## Oregon Department of Geology and Mineral Industries

Company (2)	Well name and date (3,4)	Total depth (ft)	Location 1/4sec./T./R.	Types of logs	Samples	References
C O L U M B I A   C O U N T Y   -   C o n t i n u e d						
ARCO Oil and Gas Co.	Columbia County 44-21, 1985	4,500	SE21/6N/5W	CBL,CPL,DIP,DIR,EL,GR,NDL, SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Crown Zellerbach 41-2, 1985	2,109	NE2/5N/5W	DIP,EL,GR,NDL,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Longview Fibre 12-33, 1981	2,407	NW33/7N/5W	DIP,EL,GR,SL;ML	Cuttings	34
ARCO Oil and Gas Co.	Longview Fibre 12-33, Redrill 1, 1981	2,475	NW33/7N/5W	DIP,DIR,EL,GR,SL;ML	Cuttings	34
ARCO Oil and Gas Co.	Longview Fibre 13-6, 1986	1,473	SW6/5N/4W	DIP,EL,NDL,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Longview Fibre 23-25, 1985	1,979	NW25/6N/5W	CPL,DIP,DIR,EL,GR,NDL,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Longview Fibre 23-36, 1984	1,879	SW36/6N/5W	DIP,EL,GR,NDL,SL;ML	Cuttings	— —
ARCO Oil and Gas Co.	Longview Fibre 41-35, 1986	1,585	NE35/6N/5W	DIP,EL,NDL,SL;ML	Cuttings	— —
Champlin Petroleum Co.	Puckett 13-36, 1984	5,720	SW36/8N/5W	DIP,EL,GR,NDL,SL;ML	Cuttings	— —
Exxon Corp.	GPE Federal Com. 1, 1985	11,287	SE3/4N/3W	DIP,EL,GR,MIC,SL;ML	Cuttings	— —
Leaseholding Syndicate	Dutch Canyon, 1927	4,426	NW17/3N/2W	DRL	— —	— —
Oregon Natural Gas Dev.	Columbia County 1, 1977	3,111	NW11/6N/5W	DIP,EL,GR,SL;ML	Cuttings	2,18,26,30,34
Oregon Natural Gas Dev.	Columbia County 1, Redrill 1, 1979	2,965	NW11/6N/5W	CBL,DIP,DIR,EL,FT,GR,SL, TDT;ML	Cuttings	2,30,34
Oregon Natural Gas Dev.	Columbia County 6, 1979	3,466	SW10/6N/5W	DIP,EL,GR,SL;ML	Cuttings	30
Oregon Natural Gas Dev.	Columbia County 6, Redrill 1, 1979	2,956	SW10/6N/5W	DIP,DIR,EL,GR,SL;ML	Cuttings	30
Oregon Natural Gas Dev.	Columbia County 6, Redrill 2, 1979	2,614	SW10/6N/5W	CBL,CPL,DIP,DIR,EL,GR,RL,SL, TDT;ML	Cuttings	30
Oregon Natural Gas Dev.	Columbia County 10, 1979	2,981	SW3/6N/5W	CBL,CPL,DIP,EL,GR,NDL,SL, TDT;ML	Cuttings	— —
Oregon Natural Gas Dev.	Columbia County 32-3, 1980	3,395	NE3/6N/5W	DIP,EL,SL;ML	Cuttings	— —
Oregon Natural Gas Dev.	Columbia County 33-3, 1980	2,777	SE3/6N/5W	CBL,CPL,DIP,EL,GR,SL,TDT;ML	Cuttings	— —
Oregon Natural Gas Dev.	IW 32d-10, 1981	7,807	NE10/6N/5W	DIP,EL,GR,SL;ML	Cuttings	— —
Oregon Natural Gas Dev.	OM 11d-10, 1979	3,116	NW10/6N/5W	DIP,EL,GR,SL;ML	Cuttings	34
Oregon Natural Gas Dev.	OM 11d-10, Redrill 1, 1979	3,128	NW10/6N/5W	DIP,DIR,EL,FT;ML	Cuttings	34

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Table 1. Onshore well records on file as of December 1986 (1) -- Continued

## Oregon Department of Geology and Mineral Industries

Company (2)	Well name and date (3,4)	Total depth (ft)	Location ¼sec./T./R.	Types of logs	Samples	References
C O L U M B I A   C O U N T Y   -   C o n t i n u e d						
Oregon Natural Gas Dev.	OM 12d-10, 1986	2,805	NW10/6N/5W	DIP,EL,NDL,SL;ML	Cuttings	— —
Oregon Natural Gas Dev.	OM 41a-10, 1986	3,067	NE10/6N/5W	CBL,DIP,EL,NDL,SL;ML	Cuttings	— —
Oregon Natural Gas Dev.	OM 44a-3, 1986	3,655	SE3/6N/5W	DIP,EL,NDL,SL;ML	Cuttings	— —
Oregon Natural Gas Dev.	ONGD 3, 1979	2,932	NE10/6N/5W	DIP,EL,FT,GR,SL;ML	Cuttings	— —
Oregon Natural Gas Dev.	ONGD 3, Redrill 1, 1979	2,992	NE10/6N/5W	CBL,CPL,DIP,DIR,EL,FT,GR,SL, TDT;ML	Cuttings	— —
Reichhold Energy Corp.	Adams 24-34, 1980	3,377	SW34/7N/5W	DIP,EL,GR,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Adams 32-34, 1984	3,284	NE34/7N/5W	DIP,EL,GR,NDL,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Adams 32-34, Redrill 1, 1984	3,109	NE34/7N/5W	DIP,EL,GR,NDL,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Adams 34-28, 1982	2,572	SE28/7N/5W	DIP,EL,GR,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Cadenza 34-1, 1981	2,826	SE1/6N/5W	DIP,EL,GR,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Columbia County 2, 1978	2,780	NE14/6N/5W	DIP,EL,GR,SL;ML	Cuttings	3,34
Reichhold Energy Corp.	Columbia County 11-10, 1984	3,215	NW10/6N/5W	DIP,EL,GR,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Columbia County 11-33, 1981	2,737	NW33/7N/5W	DIP,EL,GR,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Columbia County 12, 1980	3,160	NW14/6N/5W	DIP,EL,GR,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Columbia County 12, Redrill 1, 1980	3,365	NW14/6N/5W	DIP,DIR,EL;ML	Cuttings	— —
Reichhold Energy Corp.	Columbia County 12-9, 1980	2,918	NW9/6N/5W	DIP,EL,GR,SL;ML	Cuttings	34
Reichhold Energy Corp.	Columbia County 12-9, Redrill 1, 1982	2,917	NW9/6N/5W	DIP,EL,GR,SL;ML	Cuttings	34
Reichhold Energy Corp.	Columbia County 13-2, 1980	3,709	SW2/6N/5W	DIP,EL,GR,SL;ML	Cuttings	34
Reichhold Energy Corp.	Columbia County 13-2, Redrill 1, 1980	3,823	SW2/6N/5W	DIP,DIR,EL;ML	Cuttings	34
Reichhold Energy Corp.	Columbia County 14-2, 1980	3,582	SW2/6N/5W	DIP,EL,GR,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Columbia County 14-33, 1983	3,105	SW33/7N/5W	DIP,EL,GR,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Columbia County 23-4, 1984	3,034	SW4/6N/5W	DIP,EL,GR,NDL,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Columbia County 23-35, 1985	3,593	SW35/7N/5W	DIP,EL,GR,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Columbia County 32-33, 1982	2,614	NE33/7N/5W	DIP,EL,GR,SL;ML	Cuttings	— —

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(3) Well is listed under name currently in use. (4) Date is of abandonment, suspension, or completion.

Table 1. Onshore well records on file as of December 1986 (1) -- Continued

## Oregon Department of Geology and Mineral Industries

Company (2)	Well name and date (3,4)	Total depth (ft)	Location ¼sec./T./R.	Types of logs	Samples	References
C O L U M B I A   C O U N T Y   -   C o n t i n u e d						
Reichhold Energy Corp.	Columbia County 32-33, Redrill 1, 1982	3,030	NE33/7N/5W	DIP,EL,GR,SL;ML	Cuttings	-- --
Reichhold Energy Corp.	Columbia County 33-8, 1985	3,612	SE8/6N/5W	DIP,EL,GR,SL;ML	Cuttings	-- --
Reichhold Energy Corp.	Columbia County 41-2, 1982	2,875	NE2/6N/5W	DIP,EL,GR,SL;ML	Cuttings	-- --
Reichhold Energy Corp.	Columbia County 41-2, Redrill 1, 1982	3,040	NE2/6N/5W	DIP,EL,GR,SL;ML	Cuttings	-- --
Reichhold Energy Corp.	Columbia County 43-5, 1982	3,099	SE5/6N/5W	DIP,EL,GR,SL;ML	Cuttings	-- --
Reichhold Energy Corp.	Columbia County 43-11, 1980	3,326	SE11/6N/5W	DIP,EL,SL;ML	Cuttings	-- --
Reichhold Energy Corp.	Columbia County 43-11, Redrill 1, 1980	3,626	SE11/6N/5W	DIP,DIR,EL,GR,SL;ML	Cuttings	-- --
Reichhold Energy Corp.	Columbia County 43-34, 1985	2,100	SE34/6N/5W	DIP,EL,GR,NDL,SL;ML	Cuttings	-- --
Reichhold Energy Corp.	Columbia County 43-34, Redrill 1, 1985	2,225	SE34/6N/5W	DIP,EL,GR,NDL,SL;ML	Cuttings	-- --
Reichhold Energy Corp.	Columbia County 44-4, 1980	3,061	SE4/6N/5W	DIP,EL,GR,SL;ML	Cuttings	-- --
Reichhold Energy Corp.	Crown Zellerbach 2, 1975	5,805	NW8/4N/3W	DIP,EL,GR,SL;ML	Cuttings	18
Reichhold Energy Corp.	Crown Zellerbach 4, 1979	6,063	NW36/5N/4W	DIP,EL,GR,SL;ML	Cuttings	18
Reichhold Energy Corp.	Crown Zellerbach 22-6, 1980	3,671	NW6/6N/4W	DIP,EL,GR,SL;ML	Cuttings	-- --
Reichhold Energy Corp.	Crown Zellerbach 22-6, Redrill 1, 1980	2,264	NW6/6N/4W	DIP,EL;ML	Cuttings	-- --
Reichhold Energy Corp.	Crown Zellerbach 22-6, Redrill 2, 1980	2,431	NW6/6N/4W	DIP,EL;ML	Cuttings	-- --
Reichhold Energy Corp.	Crown Zellerbach 23-26, 1984	4,382	SW26/6N/4W	DIP,EL,GR,SL;ML	Cuttings	-- --
Reichhold Energy Corp.	Crown Zellerbach 32-26, 1982	6,501	NE26/5N/4W	DIP,EL,GR,SL;ML	Cuttings	-- --
Reichhold Energy Corp.	Crown Zellerbach 34-26, 1985	5,838	SE26/5N/4W	DIP,EL,GR,SL;ML	Cuttings	-- --
Reichhold Energy Corp.	Crown Zellerbach 34-28, 1984	3,654	SE28/6N/4W	ML	Cuttings	-- --
Reichhold Energy Corp.	Crown Zellerbach 42-1, 1980	2,892	NE1/6N/5W	CBL,DIP,EL,GR,SL;ML	Cuttings	34
Reichhold Energy Corp.	Hammerberg 1, 1979	2,851	NE14/6N/5W	DIP,EL,GR,SL;ML	Cuttings	-- --

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Table 1. Onshore well records on file as of December 1986 (1) -- Continued

## Oregon Department of Geology and Mineral Industries

Company (2)	Well name and date (3,4)	Total depth (ft)	Location ¼sec./T./R.	Types of logs	Samples	References
C O L U M B I A   C O U N T Y   -   C o n t i n u e d						
Reichhold Energy Corp.	Hammerberg 1, Redrill 1, 1979	3,318	NE14/6N/5W	DIP,DIR,EL,GR,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Hansen 44-15, 1981	2,782	SE15/6N/5W	DIP,EL;ML	Cuttings	34
Reichhold Energy Corp.	Investment Management 21-20, 1983	2,505	NW20/6N/5W	DIP,EL,GR,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Libel 2, 1979	2,857	SE15/6N/5W	DIP,EL,GR,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Libel 12-14, 1982	2,681	NW14/6N/5W	DIP,EL,GR,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Longview Fibre 1, 1977	3,088	SW11/6N/5W	DIP,EL,FT,GR,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Longview Fibre 24-12, 1980	2,839	SW12/6N/5W	DIP,EL,GR,SL;ML	Cuttings	34
Reichhold Energy Corp.	Longview Fibre 41-32, 1981	2,487	NE32/7N/5W	DIP,EL,GR,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Longview Fibre 42-22, 1985	2,278	NE22/6N/5W	DIP,EL,GR,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Paul 34-32, 1982	2,698	SE32/7N/5W	DIP,EL,GR,NDL,SL,TDI;ML	Cuttings	— —
Reichhold Energy Corp.	Paul 34-32, Redrill 1, 1984	2,915	SE32/7N/5W	DIP,EL,GR,NDL,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Paul 34-32, Redrill 2, 1984	2,719	SE32/7N/5W	DIP,EL,GR,NDL,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Polak 31-12, 1984	2,750	NE12/6N/5W	EL,GR,SL;ML	Cuttings	— —
Reichhold Energy Corp.	White 33-13, 1980	2,708	SE13/6N/5W	DIP,EL,GR,SL;ML	Cuttings	— —
Reichhold Energy Corp.	Wilson 11-5, 1983	2,827	NW5/6N/5W	DIP,EL,GR,SL;ML	Cuttings	— —
Tenneco Oil Co.	Columbia County 24-28, 1986	1,928	SW28/6N/5W	DIP,EL,SL;ML	Cuttings	— —
Tenneco Oil Co.	Columbia County 41-28, 1985	2,178	NE28/6N/5W	CBL,DIP,EL,GR,SL;ML	Cuttings	— —
The Texas Co.	Benson Clatskanie 1, 1945	5,660	NE36/7N/4W	EL;LD	Cuttings Cores	3,18,28 —
The Texas Co.	Clark & Wilson 6-1, 1947	8,501	NE19/6N/4W	EL;LD	Cuttings Cores	2,3,5,14,18, 26,28,30
C O O S   C O U N T Y						
AMOCO	Weyerhaeuser F-1, 1985	4,428	NE10/25S/10W	EL,GR,NDL,SL;ML	Cuttings	— —
Coast Oil Co.	Fat Elk Oil Co. 1, 1936	2,526	SW11/28S/13W	LD	— —	15
Coast Oil Co.	Rhoades-Menasha 1, 1938	1,365	SE32/26S/13W	DRL	— —	15

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Table 1. Onshore well records on file as of December 1986 (1) -- Continued

## Oregon Department of Geology and Mineral Industries

Company (2)	Well name and date (3,4)	Total depth (ft)	Location ¼sec./T./R.	Types of logs	Samples	References
C O O S C O U N T Y - C o n t i n u e d						
Coast Oil Co.	Well 2, 1939	2,255	SW10/28S/13W	DRL	— —	— —
Northwest Exploration Co.	Coos County 1, 1980	6,821	SW14/27S/13W	DIP,EL,GR,NDL,SL;ML	Cuttings	20
Northwest Exploration Co.	Fat Elk 1, 1980	3,110	SW15/28S/13W	EL,GR,NDL,SL;ML	Cuttings	20
Northwest Exploration Co.	Westport 1, 1980	3,700	SE16/26S/13W	EL,GR,NDL,SL;ML	Cuttings	20
Oregon Coastal Corp.	John Coy 1, 1953	1,894	NW4/29S/14W	EL;LD	— —	15
Pacific Petroleum Corp.	Morrison 1, 1941	2,282	SE28/28S/14W	EL;LD	— —	15
Pacific Power and Light	Eden Ridge 6, 1961	1,017	SW32/32S/11W	LD	— —	— —
Pacific Power and Light	Eden Ridge 101, 1961	1,200	SW21/33S/11W	LD	— —	15
Phillips Petroleum Co.	Dobbyns 1, 1944	6,941	SW28/26S/13W	EL;LD	Cuttings	5,15,17,20
Sunset Oil Co.	Bandon 1, 1946	1,089	N4/29S/14W	LD	— —	— —
Warren & Associates	Coos County 1-7, 1963	6,337	SE7/27S/13W	EL,FT,SL;ML	Cuttings	15,17,27,32
C R O O K C O U N T Y						
Gray, Lona	Berna 1, 1951	1,950	NE32/19S/18E	— —	— —	— —
Standard Oil Co. of California	Pexco State 1, 1955	7,594	NE36/20S/20E	EL,GRN,MIC;ML	Cuttings	5,11,38
					Cores	
Sunray Mid-Continent	Bear Creek Unit 1, 1958	7,919	SE30/17S/19E	EL,GRN,MIC;ML	Cuttings	5,10,25,36,37,
					Cores	38
Texaco, Inc.	Federal 1, 1971	7,998	SW31/17S/23E	DIP,DL,EL,GR,NL,SL;ML	Cuttings	11,38
					Cores	
Texaco, Inc.	Well 17-1, 1981	6,525	NE17/19S/20E	DIP,EL,FT,GR,NDL,SL,TL;ML	Cuttings	36,37,38
					Cores	
D O U G L A S C O U N T Y						
AMOCO	Weyerhaeuser B-1, 1985	11,330	SE13/25S/9W	DIP,DL,EL,GR,NDL,SL,TDI;ML	Cuttings	— —

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Table 1. Onshore well records on file as of December 1986 (1) -- Continued

## Oregon Department of Geology and Mineral Industries

Company (2)	Well name and date (3,4)	Total depth (ft)	Location ¼sec./T./R.	Types of logs	Samples	References
D O U G L A S   C O U N T Y   -   C o n t i n u e d						
Diamond Drill Contracting Co.	Well 1, 1910	628	Hamilton Ranch Fluornoy Valley	LD	— —	— —
Diamond Drill Contracting Co.	Well 2, 1910	1,109	Hamilton Ranch Fluornoy Valley	LD	— —	— —
Diamond Drill Contracting Co.	Well 3, 1910	545	Hamilton Ranch Fluornoy Valley	LD	— —	— —
Florida Exploration Co.	Well 1-4, 1982	5,962	NE4/21S/6W	CBL,DIP,EL,GR,NDL,SL;ML	Cuttings	20
General Petroleum Co.	Long Bell 1, 1957	9,004	SW27/20S/10W	EL,MIC;ML	Cuttings	5,15,20,33
Hutchins & Marrs	Glory Hole 1, 1983	2,987	NW10/27S/7W	EL,GR;ML	Cuttings	— —
Hutchins & Marrs	Great Discovery 2, 1984	3,510	NW20/30S/9W	DIP,EL,GR,SL;ML	Cuttings	— —
Mobil Oil Co.	Sutherland Unit 1, 1979	13,177	SW36/24S/5W	CBL,DIP,EL,FT,NDL,SL,TL;LD	Cuttings	1,5
Northwest Exploration Co.	Sawyer Rapids 1, 1980	5,562	NE3/23S/9W	DIP,EL,NDL,SL;ML	Cuttings	20
Oil Developers Inc.	Scott 1, 1954	3,693	SW5/27S/6W	EL,MIC;LD	Cuttings	20
Riddle Gas & Oil Producers, Ltd.	Aikins 1, 1960	480	SE27/30S/6W	— —	Cuttings	— —
Riddle Gas & Oil Producers, Ltd.	Dayton 1, 1958	1,370	SW34/30S/6W	EL,GRN	Cuttings	— —
Riddle Gas & Oil Producers, Ltd.	Wollenberg 1, 1965	1,100	NE28/30S/6W	— —	— —	— —
Union Oil Co.	Liles 1, 1951	7,002	SE27/25S/7W	EL;LD	Cuttings	1
Uranium Oil & Gas Co.	Ziedrich 1, 1955	4,368	NW16/29S/8W	EL,MIC;LD	Cuttings	— —
G I L L I A M   C O U N T Y						
Standard Oil Co. of California	Kirkpatrick 1, 1957	8,726	SW6/4S/21E	EL;ML	Cuttings	5,7,8,9,25,35
					Cores	

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Table 1. Onshore well records on file as of December 1986 (1) -- Continued

## Oregon Department of Geology and Mineral Industries

Company (2)	Well name and date (3,4)	Total depth (ft)	Location ¼sec./T./R.	Types of logs	Samples	References
G R A N T   C O U N T Y						
Sunnyvale Oil & Gas Co.	Mitchell 1, 1957	1,168	SE14/16S/29E	LD	Cuttings Cores	-- --
H A R N E Y   C O U N T Y						
Central Oregon Oil Co.	Well 1, 1912	3,807	SE24/25S/30E	LD	-- --	-- --
Halbouty, Michel T.	Federal 1-10, 1977	7,684	NE10/23S/29E	DIP,EL,GR,NDL;ML	Cuttings	-- --
I. W. Love Drilling Co.	Vogler 1, 1950	4,550	SE25/24S/31E	EL;DRL	-- --	-- --
Oroco Oil & Gas Co.	Portland Company 1, 1956	2,247	NW18/24S/33E	ML	-- --	-- --
State Drilling Co.	Jones-Sullivan 1, 1948	1,513	SE6/24S/33E	DRL	-- --	-- --
United Co. of Oregon	Fay 1, 1948	3,838	SE9/24S/33E	EL;LD	-- --	-- --
United Co. of Oregon	Weed & Poteet 1, 1950	6,480	NW9/23S/31E	EL;LD	-- --	-- --
J A C K S O N   C O U N T Y						
Trigonia Oil Co.	Well 1, 1924	2,257	14/38S/1W	DRL	-- --	-- --
J E F F E R S O N   C O U N T Y						
Agoil of Oregon	Grizzly 1, 1978	3,549	SE33/12S/15E	DRL	-- --	-- --
Agoil of Oregon	Hay Creek Ranch 2, 1979	2,065	NW6/11S/15E	ML	-- --	-- --
I. W. Love Drilling Co.	Wickman 1, 1950	2,699	NE27/11S/15E	DRL	-- --	-- --
Northwestern Oils, Inc.	Fulton 1, 1952	400	C17/9S/15E	-- --	-- --	-- --
Northwestern Oils, Inc.	Morrow 1, 1967	3,300	SW18/12S/15E	EL,MIC;DRL	-- --	-- --

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Table 1. Onshore well records on file as of December 1986 (1) -- Continued

## Oregon Department of Geology and Mineral Industries

Company (2)	Well name and date (3,4)	Total depth (ft)	Location ¼sec./T./R.	Types of logs	Samples	References
L A K E C O U N T Y						
Humble Oil & Refining Co.	Leavitt 1, 1961	9,579	NE2/40S/20E	EL,GRN,SL;ML	Cuttings Cores	— —
Humble Oil & Refining Co.	Thomas Creek Unit 1, 1960	12,093	NE18/36S/18E	DIP,EL,FT,GRN,SL;ML	Cuttings Cores	5
Lakeview Oil Co.	Well 1, 1940	2,878	SE16/39S/19E	DRL	— —	— —
Stark, Ralph W.	Fisher 1, 1951	3,000	SW22/40S/19E	DRL	— —	— —
Stone, Charles	Shelley 3, 1955	730	SW20/39S/19E	RL;LD	— —	— —
L A N E C O U N T Y						
Guarantee Oil Co.	Cottage Grove Well, 1923	1,403	NW28/20S/3W	DRL	— —	— —
Guarantee Oil Co.	Eugene Well, 1927	3,000	SE5/18S/3W	DRL	— —	— —
Leavitt's Exploration	Maurice Brooks 1, 1984	952	NE34/19S/3W	LD	Cuttings	— —
Leavitt's Exploration	Merle 1, 1985	2,871	SE25/16S/5W	ML	Cuttings	— —
Sinclair Oil & Gas Co.	Federal-Mapleton 1, 1955	12,880	SE12/16S/10W	EL,GRN,MIC;ML	Cuttings Cores	5,15,17,20,27
Ty Settles	Cindy 1, 1985	1,600	NW23/16S/5W	ML	Cuttings	— —
L I N C O L N C O U N T Y						
Damon Exploration	Longview Fibre 1 - Deepening, 1984	1,889	NE20/9S/11W	EL,GR,NDL;DRL	Cuttings	— —
Damon Exploration	Longview Fibre 2, 1980	2,004	NW28/9S/11W	EL;DRL	— —	— —
Damon Exploration	Longview Fibre 3, 1985	3,040	NW21/9S/11W	CPL,EL,GR,SL;DRL	Cuttings	— —
Ehrens Petroleum & Development	Longview Fibre 1, 1981	800	NE20/9S/11W	— —	— —	— —
Oregon Oil & Gas Co.	Roberts 1, 1960	2,630	NE25/10S/8W	EL;LD	Cuttings	— —

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Table 1. Onshore well records on file as of December 1986 (1) -- Continued

## Oregon Department of Geology and Mineral Industries

Company (2)	Well name and date (3,4)	Total depth (ft)	Location ¼sec./T./R.	Types of logs	Samples	References
L I N N   C O U N T Y						
American Quasar Petroleum Co.	Henschel 17-34, 1980	2,856	SE17/10S/3W	DIP,EL,GR,NDL,SL;ML	Cuttings	23
American Quasar Petroleum Co.	Hickey 9-12, 1981	4,692	NW9/12S/2W	CBL,DIP,DIR,EL,GR,NDL,SL;ML	Cuttings	23
American Quasar Petroleum Co.	Kenneth Wetgen et al. 26-32, 1981	2,620	NE26/13S/4W	DIP,EL,GR,NDL,SL;ML	Cuttings	23
American Quasar Petroleum Co.	M & P Farms 33-24, 1981	4,275	SW33/11S/4W	DIP,EL,GR,NDL,SL;ML	Cuttings	23
Gulf Oil Corp.	Porter 1, 1964	8,470	NE27/13S/4W	DIP,EL,GR,MIC,SL;ML	Cuttings	5,23
					Cores	
Humble Oil & Refining Co.	H. J. Miller 1, 1962	4,951	SE10/10S/3W	DIP,EL,SL;ML	Cuttings	16,23
					Cores	
Linn County Oil Dev. Co.	Barr 1, 1958	4,529	NW32/11S/1W	EL,GRN;ML	Cuttings	— —
Mobil Oil Co.	Ira Baker 1, 1979	10,412	NE28/15S/3W	DIP,EL,GR,MIC,NDL,SL;ML	Cuttings	1,23
Reserve Oil & Gas Co.	Esmond 1, 1962	8,603	SW7/12S/1W	EL,GR,MIC,SL;ML	Cuttings	1,23,37
					Cores	
M A L H E U R   C O U N T Y						
Baker and Malheur Oil Co.	Well 1, 1909	340	4/19S/45E	LD	— —	— —
Baker and Malheur Oil Co.	Well 2, 1909	320	10/19S/45E	— —	— —	— —
Baker and Malheur Oil Co.	Well 3, 1909	163	29/19S/45E	— —	— —	— —
Eastern Oregon Oil Co.	Well 1, 1910	815	12/20S/45E	— —	— —	— —
El Paso Natural Gas Co.	Federal-Spurrier 1, 1955	7,470	NE5/20S/44E	DIP,EL,GRN,MIC;ML	Cuttings	— —
Idaho-Oregon Production Co.	Elvera-Recla 1, 1950	4,611	SE9/19S/44E	EL	— —	— —
Malheur Oil Co.	Well 1, 1909	1,680	31/19S/44E	DRL	— —	— —
Mammoth Oil & Gas Co.	Well 1, 1909	1,280	6/20S/45E	DRL	— —	— —
Ontario Cooperative Gas & Oil	Well 1, 1913	4,362	7/18S/45E	DRL	— —	— —
Oroco Oil & Gas Co.	Bolles 1, 1955	1,966	NW15/17S/47E	EL,MIC;LD	— —	— —
Oroco Oil & Gas Co.	McBride 1, 1956	4,506	SE19/16S/46E	EL;ML	Cuttings	— —
Riddle, H. K.	Kiesel Estate 1, 1955	5,137	SW8/19S/47E	EL,GR,MIC;ML	Cuttings	— —

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Table 1. Onshore well records on file as of December 1986 (1) -- Continued

## Oregon Department of Geology and Mineral Industries

Company (2)	Well name and date (3,4)	Total depth (ft)	Location ¼sec./T./R.	Types of logs	Samples	References
M A L H E U R   C O U N T Y   -   C o n t i n u e d						
Sinclair Oil & Gas Co.	Eastern Oregon Land Co. 1, 1955	4,888	SW15/16S/44E	EL,GRN,MIC;ML	Cuttings	5
Sta-Tex Oil Co.	Russell 1, 1954	4,336	NW14/19S/44E	LD	Cuttings	— —
Standard Oil Co. of California	Blue Mountain 1, 1973	8,414	SW34/37S/41E	CBL,DIP,DL,EL,NDL,NL,SL;ML	Cuttings	5
Two States Oil & Gas Co.	Vale City 1, 1962	1,185	SW21/18S/45E	LD	Cuttings	— —
Z & S Construction Co.	Recla 1, 1982	4,745	SE9/19S/44E	ML	Cuttings	— —
M A R I O N   C O U N T Y						
American Quasar Petroleum Co.	Wolverton 13-31, 1981	4,555	NE13/10S/3W	CBL,DIP,EL,NDL,SL;ML	Cuttings	23
Craig, William	Gilmour 1, 1969	1,560	NW24/9S/4W	— —	Cuttings	— —
Craig, William	Gilmour 2, 1971	1,565	NW24/9S/4W	EL;LD	Cuttings	— —
Damon Exploration	Stauffer Farms 35-1, 1986	2,752	NW35/4S/1W	— —	Cuttings	— —
Erntson, V. V.	Schermacher 1, 1958	2,426	NE27/9S/2W	EL;LD	Cuttings	— —
					Cores	
Humble Oil & Refining Co.	F. Wicks 1, 1962	7,797	NE11/7S/1E	DIP,EL,SL;ML	Cuttings	1,21
					Cores	
Jackson-Dahl	N. Gilmour 1, 1971	1,603	NE24/9S/4W	ML	Cuttings	— —
Oregon Natural Gas Dev.	Deshazer 13-22, 1985	2,511	SW22/5S/2W	DIP,EL,GR,SL;ML	Cuttings	— —
Oregon Natural Gas Dev.	Independence 12-25, 1980	4,826	NW25/8S/4W	EL,GR,SL;ML	Cuttings	21
Oregon Natural Gas Dev.	Werner 34-21, 1984	2,808	SE21/5S/2W	DIP,EL,GR,NDL,SL;ML	Cuttings	— —
Portland Gas & Coke Co.	Steiner 1, 1935	2,845	NW14/9S/3W	LD	— —	— —
Portland Gas & Coke Co.	Wiederkehr 1, 1935	3,617	NE24/9S/4W	DRL	— —	— —
Quintana Petroleum Corp.	Gath 1, 1981	6,002	SE16/8S/2W	DIP,EL,GR,NDL,SL;ML	Cuttings	21
Reichhold Energy Corp.	Bagdanoff 23-28, 1981	6,005	SW28/5S/2W	DIP,EL,GR,SL;ML	Cuttings	21
Reichhold Energy Corp.	Merrill 1, 1975	5,282	SW24/8S/4W	DIP,EL,GR,SL;ML	Cuttings	16,21
Reichhold Energy Corp.	Werner 14-21, 1982	3,354	SW21/5S/2W	DIP,EL,GR,SL;ML	Cuttings	— —

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Table 1. Onshore well records on file as of December 1986 (1) -- Continued

## Oregon Department of Geology and Mineral Industries

Company (2)	Well name and date (3,4)	Total depth (ft)	Location ¼sec./T./R.	Types of logs	Samples	References
M U L T N O M A H C O U N T Y						
Richfield Oil Corp.	Barber 1, 1946	7,885	SE23/1N/1W	EL;LD	Cuttings	3
Sunray Mid-Continent Oil Co.	Kappler 1, 1957	1,666	NW12/2N/2W	ML	Cuttings	— —
P O L K C O U N T Y						
Alexander, Sam	1, 1931	1,440	14/7S/5W	— —	— —	— —
Miller, J. T.	Adams 1, 1962	410	SW11/8S/5W	DRL	Cuttings	— —
Miller, J. T.	Adams 2, 1964	622	SW11/8S/5W	DRL	Cuttings	— —
Miller, J. T.	Bork 1, 1981	1,030	SE26/8S/5W	DRL	Cuttings	— —
Miller, J. T.	Bursell 1, 1979	1,108	NW14/8S/5W	EL;DRL	Cuttings	— —
Miller, J. T.	John Stump 1, 1980	1,502	NW26/8S/5W	EL;DRL	Cuttings	— —
Miller, J. T.	Sullenger 1, 1960	710	NE18/8S/5W	DRL	Cuttings	— —
Miller, Mitchell & Assoc.	Bliven 1, 1962	389	SW11/8S/5W	DRL	Cuttings	— —
Miriam Oil Co.	Bliven 1, 1957	1,300	SW11/8S/5W	DRL	Cuttings	— —
Miriam Oil Co.	Bliven 2, 1957	506	SE10/8S/5W	DRL	Cuttings	— —
Miriam Oil Co.	Bliven 3, 1957	1,801	SE10/8S/5W	EL,MIC;DRL	Cuttings	— —
Miriam Oil Co.	Elliott 1, 1959	1,835	SW9/8S/5W	EL;DRL	Cuttings	— —
Mitchell & Assoc.	Bliven 1, 1959	1,347	NW15/8S/5W	DRL	Cuttings	— —
Mitchell & Assoc.	Bliven 2, 1960	430	SE10/8S/5W	DRL	Cuttings	— —
Mitchell & Assoc.	Bliven 3, 1960	580	SE10/8S/5W	DRL	Cuttings	— —
Mitchell & Assoc.	Bliven 4, 1960	340	NW15/8S/5W	DRL	Cuttings	— —
Mitchell & Assoc.	Paige 1, 1959	600	SW11/8S/5W	DRL	Cuttings	— —
Reichhold Energy Corp.	Finn 1, 1975	7,252	SW17/6S/4W	DIP,EL,GR,SL;ML	Cuttings	5,16,21
Reserve Oil & Gas Co.	Bruer 1, 1960	5,549	NE31/6S/4W	EL,GR,NL,SL;ML	Cuttings	16,21

Notes: (1) Records are confidential for two years after abandonment, suspension, or completion. (2) Company is listed by current operator.

(3) Well is listed under name currently in use. (4) Date is of abandonment, suspension, or completion.

Table 1. Onshore well records on file as of December 1986 (1) -- Continued

## Oregon Department of Geology and Mineral Industries

Company (2)	Well name and date (3,4)	Total depth (ft)	Location ¼sec./T./R.	Types of logs	Samples	References
T I L L A M O O K   C O U N T Y						
Oregon Natural Gas Dev.	Crown Zellerbach 1, 1980	6,158	NW13/2S/10W	DIP,EL,GR,SL;ML	Cuttings	3
Portland Coal and Development	Well 1, 1910	2,532	SW10/2S/9W	— —	— —	— —
Reichhold Energy Corp.	Crown Zellerbach 1, 1975	5,557	NE22/2S/10W	DIP,EL,GR,SL;ML	Cuttings	5
W A S C O   C O U N T Y						
Kastle Oil & Gas Co.	Lambert 1, 1952	220	SE20/2S/12E	DRL	— —	— —
W A S H I N G T O N   C O U N T Y						
Butte Oil Co. of Oregon	Cowan 1, 1966	960	NW8/1S/3W	LD	Cuttings	— —
Oregon Explorations	Wohler 1, 1955	727	NE11/1S/3W	DRL	— —	— —
The Texas Co.	Cooper Mountain 1, 1946	9,263	SE25/1S/2W	EL;DRL	Cuttings Cores	3,5,16,21
W H E E L E R   C O U N T Y						
Clarno Basin Oil Co.	Burgess 2, 1940	5,000	SE34/7S/19E	EL;DRL	— —	— —
J. Cooksey	Schmidt-Bernece 1, 1951	1,507	NW18/11S/22E	LD	— —	— —
Northwest Petroleum Co.	Mitchell Well 1, 1935	2,100	NE13/11S/21E	DRL	— —	— —
Oregon Petroleum Co.	Clarno 1, 1957	4,250	SE27/7S/19E	ML	Cuttings	5,35
Steele Energy Corp.	Keys 1, 1985	6,539	NW28/9S/23E	DIP,EL,GR,NDL,SL;ML	Cuttings	— —
Y A M H I L L   C O U N T Y						
Nahama & Weagant Energy Co.	Klohs 1, 1982	5,870	NE6/3S/2W	CPL,DIP,EL,GR,NDL,SL;ML	Cuttings	21

Notes: (1) Records are confidential for two years after abandonment, suspension, or completion. (2) Company is listed by current operator.

(3) Well is listed under name currently in use. (4) Date is of abandonment, suspension, or completion.

Table 2. Offshore well records on file as of December 1986 (1)

## Oregon Department of Geology and Mineral Industries

Company (2)	Well name and date (3,4)	Total depth (ft)	Location	Types of logs	Samples	References
O U T E R   C O N T I N E N T A L   S H E L F						
Pan American Petroleum Corp.	OCS P-0112 1, 1967	6,146	Offshore Coos Bay	EL,GR,MIC,SL;ML	— —	5,17
Shell Oil Co.	OCS P-072 1 ET, 1966	8,220	Offshore Astoria	EL,GR,SL;ML	— —	— —
Shell Oil Co.	OCS P-075 1 ET, 1966	10,160	Offshore Astoria 46°89'08.246"N 124°24'30.174"W	EL,GR,SL;ML	— —	— —
Shell Oil Co.	OCS P-087 1 ET, 1965	3,348	Offshore Waldport	EL,GR,SL;ML	— —	— —
Shell Oil Co.	OCS P-087 2 ET and 2 ET Redrill 1, 1965	8,353	Offshore Waldport	EL,GR,SL;ML	— —	— —
Standard Oil - Union Oil	OCS P-103 Nautilus 1, 1965	12,628	Offshore Newport 44°51'28.92"N 124°16'43.99"W	DL,EL,GR,SL;ML	— —	— —
Union Oil	OCS P-093 Grebe 1, 1966	10,010	Offshore Newport 44°29'46.37"N 124°24'52.61"W	DIP,DL,EL,GR,MIC,SL;ML	— —	5
Union Oil	OCS P-130 Fulmar, 1966	12,285	Offshore Florence 44°03'37"N 124°38'47"W	CBL,DIP,DL,EL,GR,SL;ML	— —	5,17

Notes: (1) Records are confidential for two years after abandonment, suspension, or completion. (2) Company is listed by current operator.  
 (3) Well is listed under name currently in use. (4) Date is of abandonment, suspension, or completion.

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**Table 3. Key to abbreviations**

The following abbreviations are used in Tables 1 and 2 for the different types of logs. Further descriptions of the well and lithologic logs and surveys are contained in the Glossary.

Well Logs

CBL	=	Cement Bond Log
CPL	=	Cyberlook or Computer Processed Log
DIP	=	Dipmeter Log
DIR	=	Directional Survey Log
DL	=	Density Log (Formation Density Log)
EL	=	Electric Log
FT	=	Formation Test Log
GR	=	Gamma Ray Log
GRN	=	Gamma Ray Neutron Log
MIC	=	Microlog
NDL	=	Neutron-Density Log
NL	=	Neutron Log
RL	=	Radioactivity Log
SL	=	Sonic or Acoustic Velocity Log
TDT	=	Thermal Neutron Decay Time Log
TL	=	Temperature Log

Lithologic Logs

DRL	=	Drill Log
LD	=	Lithologic Description
ML	=	Mud Log

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**Table 4. Firms offering well histories and logs**

<u>Firm</u>	<u>Type of well information</u>
M.J. Systems, Inc.--Brian Carter Rt. 1, Box 517, 33728 Dresser Ave. Bakersfield, CA 93308 (805) 399-7766	Entire state collection of logs (microfiche)
Munger Oilogram P.O. Box 45738 Los Angeles, California 90045 (213) 776-3990	Well histories only (paper)
Northwest Oil Report 4204 S.W. Condor Portland, Oregon 97201 (503) 224-2156	Entire state collection of logs and well histories (paper)
PI-West Coast Well Log Service P.O. Box 9279 Bakersfield, California 93389 (805) 324-9783	Entire state collection (microfiche); individual well logs (paper)

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**TABLE 5: Selected DOGAMI oil and gas publications**

**Laws and administrative rules**

relating to oil and gas exploration and development in Oregon: Current revised edition available at DOGAMI Portland office.

**Oil and Gas Investigations**

1. Petroleum geology of the western Snake River basin, Oregon-Idaho. 1963, 67 p., 2 figs.
2. Subsurface geology of the lower Columbia and Willamette basins, Oregon. 1969, 121 p., 12 figs., 7 pls.
3. Preliminary identifications of Foraminifera from General Petroleum Corp. Long Bell No. 1 well, Oregon. 1973, 2 p., 2 pls.
4. Preliminary identifications of Foraminifera from E.M. Warren Coos County No. 1-7 well, Oregon. 1973, 2 p., 2 pls.
5. Prospects for natural gas production and underground storage of pipe-line gas in the upper Nehalem River basin, Columbia-Clatsop Counties, Oregon. 1976, 56 p., 20 figs., 5 tables, 1 geol. map.
6. Prospects for oil and gas in the Coos Basin, western Coos, Douglas, and Lane Counties, Oregon. 1980, 74 p., 39 figs., 25 tables, 3 geologic maps. (See also Open-File Report O-80-13)
7. Correlation of Cenozoic stratigraphic units of western Oregon and Washington. 1983, 90 p., 1 correlation chart.
8. Subsurface stratigraphy of the Ochoco Basin, Oregon. 1984, 22 p., 1 fig., 1 table, 7 pls.
9. Subsurface biostratigraphy of the east Nehalem basin, Columbia County, Oregon. 1983, 34 p., 1 fig., 1 correlation chart.
10. Mist Gas Field: Exploration and development. 1985, 36 p., 19 figs., 3 tables.
11. Biostratigraphy of exploratory wells in western Coos, Douglas, and Lane Counties, Oregon. 1984, 19 p., 1 fig., 1 correlation chart.
12. Biostratigraphy of exploratory wells, northern Willamette basin, Oregon. 1984, 19 p., 1 fig., 1 correlation chart.
13. Biostratigraphy of exploratory wells, southern Willamette basin, Oregon. 17 p., 1 fig., 1 correlation chart.
14. Oil and gas investigation of the Astoria basin, Clatsop and northernmost Tillamook Counties, northwest Oregon. 1985, 8 p., 2 pls. (geologic map, correlation diagram).

**Open-File Reports**

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|---------|--|
| O-79-5  | Micropaleontological study of four deep wells in Coos County, Oregon. 1979, 26 p.  |
| O-80-1  | Micropaleontological study of five wells, western Willamette Valley, Oregon. 1980, 21 p.   |
| O-80-13 | Lithologic logs of eleven wells and foraminiferal species lists of four wells in southwestern Oregon (to accompany Oil and Gas Investigation 6). 1980, 81 p. |
| O-87-2  | Stratigraphy of the Standard Kirkpatrick No. 1, Gilliam County, Oregon. 1987, 1 pl.  |
| O-88-2  | Mist Gas Field map, revised edition of 1-88. 1988, scale 1:24,000.   |
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## GLOSSARY

### LOGS AND SURVEYS

#### WELL LOGS\*

**CBL** = Cement Bond Log

This cased-hole log uses a sonic amplitude curve (interval transit time) to determine the effectiveness of the cement seal in the casing-formation annulus and locates cement top and effectiveness of squeeze cementing.

**CPL** = Computer Processed Logs (Cyberlook, Coriband, Saraband and others)

These logs provide extensive computations of lithology, porosity, and fluid saturations using the open-hole logs.

**DIP** = Dipmeter Log

This log provides formation dip and direction and is used for structural identification, stratigraphic interpretation, and location of faults and unconformities.

**DIR** = Directional Survey Log

This log is a record of the azimuth and deviation from the vertical of the well bore. It is used to determine bottom hole locations and true vertical depths.

**DL** = Density Log (Formation Density Log)

This log is a radioactivity log which responds to variations in the electrical density of the formations. By bombarding the formations with gamma radiation, it continuously measures variations in the specific gravity or density of the lithologic column of the borehole. This provides information for porosity and lithology analysis.

**EL** = Electric Logs (Induction and Laterologs)

These logs are resistivity measuring devices from which the amount and type of fluid within a formation can be determined. The logs provide accurate depths and thicknesses of reservoir beds, information to detect hydrocarbons, and detailed correlation data for subsurface mapping. This log is usually run in conjunction with an SP log, which measures naturally occurring electrical potentials in the bore hole.

\* The explanations listed include most of the primary applications.

## WELL LOGS\* - Continued

**FT** = Formation Test Log

This cased-hole log provides information to determine fluid saturation in potential pay zones and gas-oil-water contacts and ratios.

**GR** = Gamma Ray Log

This log measures the presence of naturally occurring radioactive elements in the formations, which are generally concentrated in shales and clays. It is used for lithology identification and subsurface correlation.

**GRN** = Gamma Ray Neutron Log

This log combines the gamma ray and neutron logs and is used for porosity analysis in addition to lithology identification and for subsurface correlation.

**MIC** = Microlog

This log measures the presence of mud cake at the well bore and thereby determines permeable zones.

**NDL** = Neutron/Density Log (Compensated Neutron - Formation Density Log)

This log provides depth-matched recordings of neutron and density porosities on compatible scales. The superimposed curves provide an indication of gas zones.

**NL** = Neutron Log (Compensated Neutron Log)

This log uses a radioactive source to bombard the formation with high-energy neutrons which are slowed by hydrogen atoms in the formation. The log then measures the amount of hydrogen present, which is a function of the amount of water and hydrocarbons in the pore space. The log is primarily used for porosity analysis, lithology identification, and as indicator of fluid/gas saturation.

**RL** = Radioactivity Log

By bombarding the formation with gamma radioactivity, this log determines clay properties in zones from which porosity and lithology identification can be made.

\* The explanations listed include most of the primary applications.

### WELL LOGS\* - Continued

**SL** = Sonic Log (Compensated Sonic Log, Acoustic Velocity Log)

This log measures the time a pulsed compressional sound wave takes to travel through the formation. This interval transit time depends on the elastic properties of the formation which are directly related to its lithology and porosity. The log also provides velocity data for seismic applications.

**TDT** = Thermal Neutron Decay Time Log (Thermal Multigate Decay Log)

This log measures the presence of hydrogen atoms in the formation, which is directly related to the presence of water and hydrocarbons. The log locates hydrocarbons behind the production casing and is used to monitor reservoir fluid saturations. The log is repeated throughout the productive life of the well.

**TL** = Temperature Log

This log is a continuous recording of downhole absolute temperatures. This information is used to indicate casing or tubing leaks, lost circulation zones, cement tops, liquid and gas levels, and fluid loss or entry zones.

### LITHOLOGIC LOGS\*

**DRL** = Drill Log

This log provides lithologic descriptions through analysis of drill cuttings.

**LD** = Lithologic Descriptions Log

This log consists of lithologic descriptions through analysis of drill cuttings and generally is less detailed than a mud log or drill log.

**ML** = Mud Log

This lithologic log is developed through the analysis of drill cuttings. This log provides detailed field lithologic description, porosity analysis, and indications of the presence of hydrocarbons such as oil staining. It also provides drill penetration rates and presence of gas zones using gas detection equipment.

\* The explanations listed include most of the primary applications.

## SELECTED REFERENCES

1. Amoco Production Company, 1982, Palynology and stratigraphy from selected wells in Oregon: Unpublished report on file at DOGAMI (DOGAMI Oil and Gas Contract #6).
2. Armentrout, J.M., and Suek, D.H., 1985, Hydrocarbon exploration in western Oregon and Washington: American Association of Petroleum Geologists, v. 69, no. 4, p. 627-643.
3. Biostratigraphics, 1983, Palynology, foraminifera, siliceous microfossils, and calcareous nannoplankton for selected wells in Oregon: McClelland Engineers, Inc., unpublished report on file at DOGAMI (DOGAMI Oil and Gas Contract #4).
4. Braislín, D.B., Hastings, D.D., and Snavelly, P.D., Jr., 1971, Petroleum potential of western Oregon and Washington and adjacent continental margin, in Cram, I.H., ed., Future petroleum provinces of the United States: American Association of Petroleum Geologists Memoir 15, v. 1, p. 229-238.
5. Brown and Ruth Laboratories, Inc., 1983, Pacific Northwest regional petroleum geochemistry of the onshore and offshore sediments of Washington and Oregon: Unpublished report on file at DOGAMI (DOGAMI Oil and Gas Contract #1).
6. Bruer, W.G., 1980, Mist gas field, Columbia County, Oregon: American Association of Petroleum Geologists, Pacific section, 55th annual meeting, Bakersfield, California, Technical Program Preprints, 10 p.
7. Fox, T.P., 1985, Chemistry and XRF of pre-Tertiary volcanics in the Standard Oil Kirkpatrick #1, Gilliam County, Oregon: ARCO Oil and Gas Co., unpublished report on file at DOGAMI (DOGAMI Oil and Gas Contract #19).
8. Fox, T.P., 1987, Stratigraphy of the Standard Kirkpatrick No. 1, Gilliam County, Oregon: New insight into tertiary tectonism of the Blue Mountains: Oregon Geology, v. 49, no. 2, p. 15-22.
9. Fox, T.P., and Reidel, S.P., 1987, Stratigraphy of Standard Kirkpatrick #1, Gilliam County, Oregon: Oregon Department of Geology and Mineral Industries Open-File Report 0-87-2, 1 pl.
10. Green and Associates, 1982, Geochemical and stratigraphic analysis of Standard-Sunray Mid-continent Bear Creek Unit 1 well, Crook County, Oregon: Unpublished report on file at DOGAMI (DOGAMI Oil and Gas Contract #3).
11. Heide, K., 1985, Palynology and clay mineralogy of Tertiary-aged strata in the Standard Oil Pexco State #1 and Texaco Federal #1 wells, Crook County, Oregon: ARCO Oil and Gas Co., unpublished report on file at DOGAMI (DOGAMI Oil and Gas Contract #16).
12. McCaslin, J.C., 1979, Oil and gas seen possible off southern Oregon: Oil and Gas Journal, v. 77, no. 52, p. 119.
13. McCaslin, J.C., 1981, Oregon yields another gas discovery: Oil and Gas Journal, v. 79, no. 42, p. 309-310.
14. McKeel, D.R., 1979, Biostratigraphy of the Texaco Clark and Wilson No. 6-1 well, Columbia County, Oregon: Oregon Geology, v. 41, no. 12, p. 192.
15. McKeel, D.R., 1980, Lithologic logs of eleven wells and foraminiferal species lists of four wells in southwestern Oregon: Oregon Department of Geology and Mineral Industries Open-File Report 0-80-13, 81 p.

16. McKeel, D.R., 1980, Micropaleontological study of five wells, western Willamette Valley, Oregon: Oregon Department of Geology and Mineral Industries Open-File Report 0-80-1, 21 p.
17. McKeel, D.R., 1980, Paleontological interpretation of five southwestern Oregon wells, in Newton, V.C., Jr., Prospects for oil and gas in the Coos basin, western Coos, Douglas and Lane Counties, Oregon: Oregon Department of Geology and Mineral Industries Oil and Gas Investigation 6, p. 37-41.
18. McKeel, D.R., 1983, Subsurface biostratigraphy of the east Nehalem basin, Columbia County, Oregon: Oregon Department of Geology and Mineral Industries Oil and Gas Investigation 9, 34 p.
19. McKeel, D.R., 1983, Subsurface stratigraphy of the southern Astoria basin, northwest Oregon: Unpublished report on file at DOGAMI (DOGAMI Oil and Gas Contract #13).
20. McKeel, D.R., 1984, Biostratigraphy of exploratory wells in western Coos, Douglas, and Lane Counties, Oregon: Oregon Department of Geology and Mineral Industries Oil and Gas Investigation 11, 19 p.
21. McKeel, D.R., 1984, Biostratigraphy of exploratory wells, northern Willamette basin, Oregon: Oregon Department of Geology and Mineral Industries Oil and Gas Investigation 12, 19 p.
22. McKeel, D.R., 1984, Biostratigraphy of the Standard Oil Hoagland Unit No. 1 well, Clatsop County, Oregon: Unpublished report on file at DOGAMI (DOGAMI Oil and Gas Contract #12).
23. McKeel, D.R., 1985, Biostratigraphy of exploratory wells, southern Willamette basin, Oregon: Oregon Department of Geology and Mineral Industries Oil and Gas Investigation 13, 17 p.
24. Newton, V.C., Jr., 1969, Subsurface geology of the lower Columbia and Willamette basins, Oregon: Oregon Department of Geology and Mineral Industries Oil and Gas Investigation 2, 121 p.
25. Newton, V.C., Jr., 1979, Petroleum source rock tests on two central Oregon wells: Oregon Geology, v. 41, no. 4, p. 63-64.
26. Newton, V.C., Jr., 1979, Subsurface correlations in the Mist area, Columbia County, Oregon: Oregon Geology, v. 41, no. 12, p. 193-196.
27. Newton, V.C., Jr., 1980, Prospects for oil and gas in the Coos basin, western Coos, Douglas, and Lane Counties, Oregon: Oregon Department of Geology and Mineral Industries Oil and Gas Investigation 6, 74 p.
28. Newton, V.C., Jr., and Van Atta, R.O., 1976, Prospects for natural gas production and underground storage of pipeline gas in the upper Nehalem River basin, Columbia-Clatsop Counties, Oregon: Oregon Department of Geology and Mineral Industries Oil and Gas Investigation 5, 56 p.
29. Niem, A.R., and Niem, W.A., 1985, Oil and gas investigation of the Astoria basin, Clatsop and northernmost Tillamook Counties, northwest Oregon: Oregon Department of Geology and Mineral Industries Oil and Gas Investigation 14.
30. Olmstead, D.L., 1985, Mist gas field: Exploration and development 1979-1984: Oregon Department of Geology and Mineral Industries Oil and Gas Investigation 10, 36 p.

31. Oregon Department of Geology and Mineral Industries, 1969, Mineral and water resources of Oregon: Oregon Department of Geology and Mineral Industries Bulletin, no. 64, in cooperation with the U.S. Geological Survey, 462 p.
32. Oregon Department of Geology and Mineral Industries, 1985, Laws and administrative rules relating to oil and gas exploration and development in Oregon: Oregon Department of Geology and Mineral Industries pamphlet, Part 1.
33. Rau, W.W., 1973, Preliminary identifications of Foraminifera from E.M. Warren Coos County No. 1-7 well, Oregon: Oregon Department of Geology and Mineral Industries Oil and Gas Investigation 4, 2 pls.
34. Rau, W.W., 1973, Preliminary identifications of Foraminifera from General Petroleum Corporation Long Bell No. 1 well, Douglas County, Oregon: Oregon Department of Geology and Mineral Industries Oil and Gas Investigation 3, 2 pls.
35. Reid, J.C., 1985, Petrographic study of thin sections from selected wells, Columbia County, Oregon: ARCO Oil and Gas Co., unpublished report on file at DOGAMI (DOGAMI Oil and Gas Contract #17).
36. Shell Oil Company, 1984, Palynology of the Standard Oil Kirkpatrick #1 and Oregon Petroleum Company Clarno #1 wells, Oregon: Unpublished report on file at DOGAMI (DOGAMI Oil and Gas Contract #8).
37. Summer, N.S., 1987, Maturation, diagenesis and diagenetic processes in sediments underlying thick volcanic strata, Oregon: Davis, Calif., University of California master's thesis, 87 p. (DOGAMI Oil and Gas Contract #20).
38. Summer, N.S., and Verosub, K.L., 1987, Maturation anomalies in sediments underlying thick volcanic strata, Oregon: Evidence for a thermal event: Geology, v. 15, p. 30-33.
39. Thompson, G.G., 1984, Subsurface stratigraphy of the Ochoco basin, Oregon: Oregon Department of Geology and Mineral Industries Oil and Gas Investigation 8, 22 p.
40. Warren, W.C., and Norbistrath, H., 1946, Stratigraphy of the upper Nehalem River basin, northwestern Oregon: American Association of Petroleum Geologists Bulletin, v. 30, no. 2, p. 213-237.
41. Weaver, C.E., 1945, Geology of Oregon and Washington and its relation to occurrence of oil and gas: American Association of Petroleum Geologists Bulletin, v. 29, no. 10, p. 1377-1415.