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Information Circular No. 29

# OIL AND GAS EXPLORATION IN WASHINGTON 1900-1957

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By  
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Plate 1. Dry hole map of Washington..... In pocket

# OIL AND GAS EXPLORATION IN WASHINGTON

1900-1957

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By  
Vaughn E. Livingston, Jr.

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## Introduction

In recent years there has been an increasing interest in the history of oil and gas exploration in Washington. A Washington Division of Mines and Geology report (Glover, 1947) on this subject has been out of print for several years. The need for revising this report and bringing it up to date was emphasized in the summer of 1957 during the period of high interest in oil in Washington aroused by the J. W. Tanner, Sunshine Mining Company, et al. - Medina No. 1 well. The purpose of the present publication is to re-present the information given in Information Circular 15 (Glover, 1947) and its supplement (printed in 1953), along with data gathered since 1953. Included with this report is a dry-hole map showing the locations of wells deeper than 500 feet.

In collecting data since 1953, the greatest aid has been the Oil and Gas Conservation Act, Chapter 146 (RCW 78.52.001 to 78.52.550) passed by the 32nd Washington Legislature in 1951. This act set up an Oil and Gas Conservation Committee with authority to adopt rules and regulations to govern drilling in Washington. This committee, consisting of the governor, land commissioner, director of conservation, state auditor, and state treasurer, on January 18, 1954, adopted the necessary rules and regulations to carry out some of the provisions of the act. Among other things these rules require that all logs, histories, and records of tests be filed with the Oil and Gas Supervisor (who is the Supervisor of the Division of Mines and Geology) upon completion or abandonment of a well. As a result of this new law and through the cooperation of the oil companies, both major and independent, in turning in well data, there is available to the public a fairly complete file on oil exploration in Washington since 1954.

## Past exploration

Oil was first reported in Washington about 1883 along the Pacific Ocean beach on the west side of the Olympic Peninsula, where there are outcrops of sandy shales with a kerosene odor (the "smell muds" of the Indians). At certain times of the year and at certain places, small amounts of 37- to 40-gravity paraffin base oil seep from the outcrop. In this same general area, gas mounds which look similar to mud volcanoes have been formed where mud and water bubbling to the surface with wet petroleum gas have built up mud cores.

The first known oil test in Washington was drilled by Mr. John E. McManus between 1900 and 1902, either near Stanwood Station or at Machias, Snohomish County. This well was abandoned at a depth of between 800 and 900 feet because of mechanical difficulties. One of the earliest indications that gas occurred in the state was found by chance in Whatcom County in 1893. A man named Clark is reported to have struck a match to light his pipe while digging a water well. Gas that had seeped into the well was ignited by his match, causing an explosion. The occurrence of gas stimulated drilling near the Clark water well, but results were apparently disappointing, because the test well was abandoned.

From this beginning, drilling has been more or less cyclic in Washington, with periods of high and low activity. The peak year was 1930, when 27 wells were drilled in the state. This increased interest probably was the result of the Rattlesnake Hills gas field being put on production the year before.

There have been approximately 323 wells drilled for oil and gas in the state as of January 1958. Of this number, 42 were drilled by major oil companies. Fifty-eight of the wells were drilled east of the Cascade Range. Counties in which the most drilling has been done are: Whatcom, with 87 wells; Grays Harbor, with 45; Benton, with 31; and Jefferson, with 20 wells. Twenty-three other counties have at one time or another had at least one oil test drilled within their borders.

Prior to 1940 very few wells were drilled as the result of sound geologic investigation. Many wells, especially on the west side of the Olympic Peninsula, were drilled on the strength of nearby oil or gas seeps. The great majority of the early wells, however, were drilled at sites selected by unscientific methods of exploration, and some of the wells were part of out-and-out stock swindles.

During the 1940's, interest in Washington as a possible oil-producing state started to increase. An influx into the state of well-financed oil companies with their more accurate methods of keeping records began to add materially to stratigraphic knowledge. In 1949 a good oil and gas show encountered in a well at Ocean City stimulated further exploration. Two other promising wells drilled in this same area caused accelerated activity again in 1952 and 1957.

Core hole and seismic programs have been undertaken by several oil companies in western Washington. The counties that have received the most attention are Clallam, Grays Harbor, Lewis, Pacific, and Thurston. The Federal Government and several private companies have made magnetometer and gravity meter surveys over much of western Washington.

There are, of course, certain areas in the state that for one reason or another have been explored more thoroughly than others. This does not mean, however, that these are the only promising areas. Most of the wells were drilled because of nearby oil or gas seeps or as the result of accidental discovery of gas or oil shows in water wells. The areas that have received the most extensive drilling in the past will be described very briefly below.

### Rattlesnake Hills gas field, Benton County

The Rattlesnake Hills gas field is located in Benton County on the north flank of the Rattlesnake Hills, about 18 miles due northeast of Grandview and 16 miles west of the Columbia River. (See inset F on plate 1.)

The peculiar occurrence of gas in porous basalt flows is an unusual feature of the field. Production came from two zones at depths of approximately 700 and 1,200 feet. The gas was a high-methane type and had none of the heavier fractions that are commonly found associated with a petroleum-derived gas.

The only sedimentary rock exposed in the area is the Ellensburg formation, of probable Miocene-Pliocene age. This is a continental sandstone that rests on the Columbia River basalts. Flows interbedded with the Ellensburg formation have been called Wenas basalt.

The most prominent formation in the area is the Columbia River basalt, which is known to be over 3,600 feet thick in the Rattlesnake Hills. A well, Conservative No. 1, drilled by the Northwestern Natural Gas Corp., went to that depth without reaching the base of the Miocene flows. Near Yakima a well, Miocene Petroleum Co. - Union Gap, was drilled to 3,810 feet without reaching the base of the basalt. There is about 3,000 feet of basalt above the Eagle Creek formation in the Columbia River Gorge, and in the John Day area of Oregon about 6,000 feet of basalt has been measured along the upturned flows.

During the time this report was being prepared (January 1958), Standard Oil Company of California abandoned their Rattlesnake Unit No. 1 well (SE $\frac{1}{4}$  sec. 15, T. 11 N., R. 24 E.) at 8,418 feet. The bottom was reported to be in volcanic rock, but no information was available that would indicate whether it was Columbia River basalt or older flows.

The structure of the area is a large northwest-trending faulted asymmetrical anticline, the steep limb being on the northeast. The fault is essentially parallel to and follows along the anticlinal axis for a short distance. It is downthrown to the northeast. The structure of the Rattlesnake Hills anticline is discussed by A. A. Hammer (1934).

The source of the gas in this field is unknown. One theory is that the gas originated as the result of decay of vegetable matter in interbasalt sediments or even in the overlying Ellensburg formation. Another theory is that the gas originated in the Roslyn formation, a sandstone with coal measures that crops out about 80 miles northwest of the Rattlesnake Hills field, and which may be below the basalt in this area. The gas probably migrated along fractures and accumulated in the vesicular basalt reservoir rock.

The initial discovery of this field was made in 1913, when a well was drilled for water on the northeast limb of the Rattlesnake Hills anticline. This well, later called the Walla Walla No. 1, encountered gas at 705 feet.

The maximum pressure at the time of discovery was 7 p.s.i. A great deal of gas was wasted by allowing several wells to flow uncontrolled into the air, so that by 1929, when the field was put on commercial production, the pressure had been reduced to 2 p.s.i. Hammer (1934) noted that the pressure fluctuated with the season and amount of rainfall, being greatest in the winter and after rain storms. By 1933 the pressure had decreased to zero and a central compressor plant was built to maintain a vacuum on the field. In 1936 there was an approximate 7-pound vacuum on the field.

Gas production started in 1929, when 770 Mcf were sold, and increased to a high of 2,000 Mcf in 1935. At one time 16 wells were in production. The gas was piped to seven lower Yakima Valley cities during the field's productive period. Output gradually declined until production ceased in September of 1941.

A composite sample taken from the Grandview pipeline gave the following analysis:

|                       |                    |
|-----------------------|--------------------|
| Methane .....         | 99.35%             |
| Nitrogen .....        | 0.65%              |
| Specific gravity..... | 0.559 (calculated) |
| B.t.u., gross.....    | 1002 (calculated)  |

#### Whatcom County gas field

The Whatcom County gas field is located about 5 miles northwest of Bellingham. It is about a quarter of a mile west of the North Bellingham school between U. S. Highway 99 and the Northwest Road. (See insets A and B on plate 1.)

Like the Rattlesnake Hills gas field, this gas field is unusual. The gas is found at shallow depths in glacial debris.

Underlying the glacial material is upper Cretaceous (?) - lower Eocene Chuckanut formation. This is primarily a continental sandstone-shale formation that contains some coal measures. Two stratigraphic sections measured by Glover (1935, p. 15-23) show the Chuckanut to be approximately 9,000 feet thick.

The rocks underlying the Chuckanut formation in the vicinity of the gas field are unknown. Farther to the south, near Bellingham, the Pelican Dome No. 1, a well drilled in 1938 by Peoples Gas and Oil Development Co., Pelican Petroleum Co., and Northern Oil Co., encountered metamorphic rock (schist) at 5,385 feet. Cretaceous fossiliferous marine clastics outcrop in the San Juan Islands just west and south of the Whatcom County gas field. Either of these formations may underlie the Chuckanut in the northwestern part of Whatcom County.

Overlying the older rocks are heterogeneous unconsolidated glacial drift and fairly well sorted fossiliferous glaciomarine Pleistocene deposits. The glacial drift has a maximum recorded thickness of 615 feet.

The bedrock structure of the area is hidden by the overlying glacial drift.

The gas in this field is in Pleistocene sediments, but it was probably generated in the coal measures of the underlying truncated Chuckanut formation and migrated up into the glacial sand lenses.

Production from this field has been from shallow depths. The gas horizons in most of the wells have been at depths of less than 500 feet, and commonly at about 170 feet. The gas has a high methane-nitrogen content. It has not been used commercially but has been piped into homes and farm buildings for domestic use.

### Black Diamond area

The Black Diamond area is located about 20 miles south and slightly east of Seattle in southern King County. (See inset C on plate 1.) The discovery of gas and oil in this area was quite by chance. In 1911 Mr. Eugene Lawson was drilling a coal test in the  $S\frac{1}{2}SE\frac{1}{4}$  sec. 27, (21-6E) <sup>1/</sup> near Black Diamond. Gas was first encountered between 900 and 1,000 feet and gradually increased as more carbonaceous shales and coal beds were cut, until at 1,403 feet the pressure had built up to approximately 600 p.s.i. The first confirmed report of an oil show in the area came from the Washington-California Oil & Gas Co., Sound Cities Gas & Oil Co., Inc. - Bobb No. 1 well drilled in 1936.

The stratigraphy of the area is relatively simple. The oldest outcrops are fresh-and brackish-water Eocene sandstones, shales, and carbonaceous beds of the Puget group, which may be correlative to the Cowlitz formation of Lewis County. The sandstones vary from thick cross-bedded units to thin well-stratified beds. The shales grade into both sandstones and coal. The sandstone makes up about 20 percent of the Puget group; the gradations between sandy shale and shaly sand, about 70 percent; and shale and coal, 10 percent (Warren et al., 1945). The thickness of the Puget group measured through the Green River Gorge is reported to be over 6,000 feet.

Unconformably overlying the Puget group near Beaver and Bass Lakes are some conglomerate, tuffaceous sandstones, and sandy shale beds of Oligocene-Miocene age. These are very localized and not at all continuous.

Also unconformably overlying the Puget group in this area is the Hammer Bluff formation of Pliocene-Pleistocene (?) age (Glover, 1936a). This is made up of sandstone and clays, in part reworked from the Puget group.

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<sup>1/</sup> Township 21 North, Range 6 East.



The surficial deposits are poorly consolidated till and/or stratified drift. Their thickness varies from zero to well over 1,000 feet. One oil test well is reported (Warren, 1945) to have still been in glacial drift at a depth of 1,010 feet.

The drilling activity in the Black Diamond area has been centered along or near the crest of the north-south trending asymmetrical Kummer anticline. The east limb of this north-plunging structure is steeper than the west limb. Adjacent to the Kummer anticline on both sides are south-plunging synclines. Some major east-west trending faults cut across the north end of the area.

An analysis of gas from the Lawson coal-test well shows the gas to be a high-methane type with no heavier fractions present.

A gas analysis from the Washington-California Oil & Gas Co., Sound Cities Gas & Oil Co. - Bobb No. 1 well is as follows:

|                                     |       |
|-------------------------------------|-------|
| CH <sub>4</sub> .....               | 73.4% |
| C <sub>2</sub> H <sub>6</sub> ..... | 8.2%  |
| O <sub>2</sub> .....                | 0.9%  |
| N <sub>2</sub> .....                | 17.5% |
| Specific gravity.....               | 0.672 |

### Ocean City field

The Ocean City field is located on the beach of the Pacific Ocean 1½ miles south of Ocean City and 20 miles west of Aberdeen. (See inset D on plate 1.)

The first drilling in this area was done as the result of seismic work by the Union Oil Company of California. The first well, Union's Barnhisel No. 1, which is located near the center of sec. 15, (18-12W), had very encouraging shows of gas and oil. From 1947, when the first well was drilled, to 1957, nine wells were drilled within a one-mile radius of the initial well. All these wells had favorable gas and oil shows. At the time this report was being prepared (1958), only four of the wells had been plugged.

There are no outcrops in this area. Nine of the wells are spudded in beach sand, and the tenth, Ocean City Oil Field Inc. - Hogan No. 22-1, was started in poorly consolidated Pliocene-Pleistocene terrace deposits.

The only information available on the stratigraphy of the area comes from the wells that have been drilled. The Union Oil Company of California - State No. 3 well, which was drilled to 9,344 feet, probably gives the most complete stratigraphic section. According to available information, the well

was drilled through 1,200 feet of beach and terrace deposits overlying the Quinault formation. The Quinault, of probable Pliocene age, is approximately 400 feet thick and is predominantly sandstone and shale. Below the Quinault is a monotonous section of approximately 900 feet of dark shale of the Quillayute formation. Its age is generally accepted as being Pliocene. It is possible, however, that the Quinault and Quillayute formations cannot be separated and that they are equivalent in age to the Montesano formation which crops out east of the area near Hoquiam and Aberdeen. The Montesano is considered to be upper Miocene or lower Pliocene in age. Below the Quillayute is about 1,100 feet of silt of probable lower Miocene age. Below this silt is approximately 2,400 feet of sedimentary rock that is probably equivalent in part to the Hoh formation which crops out a few miles north of Ocean City. This unit may be lower Miocene-upper Oligocene age and is almost entirely hard, severely sheared shale with some rather impervious sandstone beds and lenses. The best oil and gas shows in the Ocean City area wells came from near the top of this unit. Below this unit are approximately 2,500 feet of interbedded conglomerate, sandstone, and shale beds of lower Miocene-upper Oligocene age. Below the conglomerate is an upper Oligocene-lower Miocene shale formation.

The only major unconformity in the section appears to be at the base of the Miocene silt underlying the Quillayute formation.

The available seismic and electric log information indicates that there is a faulted southeast-plunging anticline beneath the Pliocene-Pleistocene terrace deposits. The number of faults and their magnitude are not known.

The main problem in this area in obtaining production is the low permeability of the oil and gas zones. Each of the wells drilled has had a similar history. On a test of Union Oil Company of California's State No. 3 well made December 9, 1949, in the interval between 3,680 and 4,400 feet in depth, the initial pressure on the tubing was 700 p.s.i., and on the casing, 1,100 p.s.i. The well flowed gas and 40-gravity oil through a 28/64-inch choke for 50 minutes, at which time the tubing pressure had decreased to zero. The well was shut in, and by December 13 the pressures had built up to 950 p.s.i. on the tubing and 1,050 p.s.i. on the casing. The well was opened again through a 28/64-inch choke, and in 15 minutes the pressure decreased to zero on the tubing and 900 p.s.i. on the casing. After being closed in for two hours the tubing pressure had built back to 200 p.s.i. A pump was put on the well, and testing continued for several days. When the pumping test was completed, the well had produced an average of 14 barrels of oil per day, and the casing pressure had become stabilized at between 60 and 110 p.s.i.

Pressures on the T.T. Hawksworth, Gas and Oil Development Co. and Associates - Hawksworth State No. 4 well held up better during testing. Initial pressures from a zone between 3,635 and 3,711 feet were between 2,500 and 2,750 p.s.i. During a test made on October 30, 1951, the well flowed gas and 44-gravity condensate through a 2.05/64-inch choke for nine hours. By the end of two hours the tubing pressure had dropped to 900 p.s.i.,

where it stabilized for the remaining seven hours. Further tests were made, but production tests were never completed because of a collapsed liner at approximately 3,500 feet.

The J.W. Tanner, Sunshine Mining Co., et al. - Medina No. 1 well has been the most promising well drilled in the area so far. On the initial production test of the zone between 3,952 and 3,958 feet (perforated with four jet shots per foot) the well produced 161.61 barrels of 38.9-gravity at 60° F. oil in 20 hours. The well flowed through a  $\frac{1}{2}$ -inch choke for 10 hours and produced 86.25 barrels for an average of 8.62 barrels per hour. It flowed the last 10 hours through a  $\frac{1}{4}$ -inch choke and produced 75.36 barrels for an hourly average of 7.54 barrels. Unverified results of a five-day production test starting on August 20, 1957, are as follows:

| Date               | Bbl. | Choke               | Tubing pressure<br>( p.s.i.) | Casing Pressure<br>(p.s.i.) |
|--------------------|------|---------------------|------------------------------|-----------------------------|
| Aug. 20, 4:00 P.M. | —    | $\frac{1}{2}$ -inch | 1,960                        | 2,540                       |
| Aug. 21, 9:00 A.M. | 138  | $\frac{1}{4}$ -inch | 225                          | 575                         |
| Aug. 22, 9:00 A.M. | 138  | $\frac{1}{4}$ -inch | 160-220                      | 500-520                     |
| Aug. 23, 9:00 A.M. | 107  | 10/64-inch          | 525                          | 1,000                       |
| Aug. 24, 9:00 A.M. | 104  | 10/64-inch          | 590                          | 990                         |

All three of these wells, which were the most promising ones drilled in the area, have shown similar characteristic rapid pressure drops.

#### Other areas in Grays Harbor County

Two other areas in Grays Harbor County have received considerable attention. One is located on the interfluvium between the Wynoochee River and the Wishkah River near the intersection of Tps. 18 and 19 N. and Rs. 8 and 9 W. The other is about 12 miles south of Montesano near the village of Vesta on the North River.

The Wishkah-Wynoochee (see inset E on plate 1) area was first drilled by the Wishkah Oil Corp. and E.H. Sims et al. as a joint test. This well, Grays Harbor - Sims No. 1, had several gas and oil shows in it. Five more wells, three by the Sharples Corp. and two by Continental Oil Company, were eventually drilled in the immediate vicinity. All these wells had gas and oil shows. The best show came from Continental Oil Company's Sims Oil Royalty

Co. No. 1. This well had a very good gas show from a sandstone at 2,571 to 2,593 feet. Testing indicated that this well could make about 65 Mcf per day of dry gas at a pressure of about 300 p.s.i.

All these wells were spudded in Montesano sandstone of Miocene-Pliocene age. The Sharples Corp. reported that they encountered the lower Miocene Astoria formation at 1,720 feet and the Blakeley formation at 2,810 feet in their Fee-Sims No. 1 well. The Blakeley was first considered to be upper Oligocene, but more recent work indicates that it probably ranges from upper Oligocene through lower Miocene age.

Drilling in the Vesta area was first sparked by the discovery in 1929 of a gas and oil show at 250 feet in the Vesta school water well. This well was later deepened to 600 feet, but results of this later testing are not known. Three more test wells and one core hole were drilled in this area. Two of the test wells had good gas and oil shows; there is no information available on the third well; and no gas or oil shows were reported from the core hole.

All these wells were spudded in upper Astoria (?) formation.

#### Forks-Hoh River area

The Forks-Hoh River area is located in Clallam and Jefferson Counties on the west side of the Olympic Peninsula about 70 miles northwest of Aberdeen.

Twenty-one wells have been drilled in this area since the first well was started in 1902. Almost every well had a show of gas and oil. One, the Washington Oil Co., Ltd. - Kipling No. 1, underwent promising production tests before it was abandoned because of mechanical difficulty.

All these wells were drilled in what has been called Hoh formation. This is an Oligocene-lower Miocene sand-shale formation.

#### Conclusions

Even though 323 wells have been drilled, relatively little is known about the state's oil potential. There are several areas that on the basis of present information appear to be very promising. The as yet minor production from the Ocean City area gives some assurance that oil can be expected elsewhere also. The condition that so far has been found lacking is a suitable source associated with a good reservoir.

Gas shows have been a common occurrence. Some of the wells, with proper development, might have become commercial gas producers.

The problems of oil exploration in Washington are many. One of the most formidable of these is the dense vegetation that covers the western part of the state. Outcrops are obscured, and in many places it is next to impossible to make a foot traverse through the brush. Outcrops are mostly restricted to road cuts and stream beds, with the consequence that detailed structure mapping is almost nonexistent.

The few wells drilled in Washington have not been sufficient to solve the geologic problems that exist. Only by drilling more wells can answers be found to the questions of the relative position of source to reservoir beds, rapid lateral facies changes, stratigraphic variations, and structural complications.

#### Explanation of exploration data

The following tabulations of oil and gas test wells is arranged in alphabetical order according to counties. Under the "County" heading the wells are listed chronologically in the order of the date spudded. Where the information is available, the name of the owner or company, the well name, the well location, the spud date, the total depth, and some brief remarks are given.

Listing of two depths for one hole indicates that drilling was resumed or carried on by a company other than the one that spudded the well. Sometimes, as indicated, several companies were involved in drilling a single well.

Question marks indicate doubtful information but the best available.

If cable tools were used, it is so stated in the "Remarks" column, otherwise, it is assumed or known that a rotary drill was used.

Oil or gas shows mentioned in the "Remarks" column are considered to be authentic and are based on reports thought to be reliable. The word "reported" in the "Remarks" column following a statement of oil or gas showing indicates that reliability or authenticity of the report is unknown.

All but a very few of the wells have been abandoned. Drilling in most wells was stopped within a year. The reason for suspension of drilling is stated in some cases. Most operations were stopped by lack of funds or mechanical troubles; only a few wells were drilled to basement rock.

Some water wells are listed because they had oil or gas showings.

Information available for public inspection at the office of the Division of Mines and Geology is listed in the "Remarks" column for each well.

Land descriptions are abbreviated. For example, 100 ft. N., 100 ft. E. of SW. cor. NW $\frac{1}{4}$  sec. 1, (14-8W) indicates that the location is 100 feet north and 100 feet east of the southwest corner of the northwest quarter of section 1, Township 14, North, Range 8 West, Willamette Meridian. Other abbreviations used:

|  |                                    |
|--|------------------------------------|
| Elev. ... elevation                            | s.w. core desc. ... side wall core |
| fm. ... formation                              | description                        |
| p.s.i. ... pounds per square inch              | E log ..... electric log           |
| Mcf ... thousand cubic feet                    | D.F. .... derrick floor            |
| API ... American Petroleum Institute           | R.T. .... rotary table             |
| bbl. ... barrel (s)                            | Gr. .... ground                    |
|  | K.B. .... kelly bushing            |
| topo .....elevation taken from topographic map |                                    |

## ASOTIN

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| COMPANY                          | WELL NAME          | LOCATION AND ELEVATION   | SPUDED        | DEPTH | REMARKS                  |
|----------------------------------|--------------------|--|---------------|-------|--------------------------|
| Lewiston-Clarkston Oil & Gas Co. | Swallow Rock No. 1 | Clarkston area. Center SE $\frac{1}{4}$ sec. 5, (10-46E)<br>Elev. 2,275 ft. topo | Prior to 1919 | 800   | In basalt. Driller's log |
| Lewiston-Clarkston Oil & Gas Co. | Swallow Rock No. 2 | Near Swallow Rock No. 1  | Prior to 1919 | 1,600 | In basalt                |

## BENTON

|   |   |   |                  |       |   |
|---|---|---|------------------|-------|---|
| Conservative Land Investment Co. of Spokane | Water well (Walla Walla No. 1)            | Benton City area. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 20, (11-26E)<br>Elev. 1,279 ft. Gr.        | 1913             | 1,234 | Cable tools. Discovery well. Top of gas zone at 705 ft. Reported 312,000 cu. ft. per day. Later taken over by Walla Walla Oil & Gas Co. Gas analysis, driller's log |
| Blue Hen Oil Co.                            | Blue Hen No. 1 (Later, Walla Walla No. 2) | Benton City area. Approx. $\frac{1}{2}$ mi. from discovery well. (See Walla Walla No. 2)            | 1917             | 738   | Cable tools. Gas at 705 ft. Driller's log   |
| Walla Walla Oil, Gas & Pipe Line Co.        | Walla Walla No. 2                         | NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 21 (11-26E)<br>Elev. 1,218 ft. Gr.                           | 1917             | 800   | Cable tools. Gas produced from 705 ft. Est. 2,600,000 cu. ft. per day. Driller's log, gas analysis  |
| Walla Walla Oil, Gas & Pipe Line Co.        | Walla Walla No. 3                         | Benton City area. NE. cor. NE $\frac{1}{4}$ sec. 19, (11-26E)<br>Elev. 1,283 ft. Gr.                | 1920             | 1,507 | Cable tools. Gas produced from 750 ft.  |
| Seattle-Inland Empire Co.                   | Goodwin No. 1 (Big Bend No. 2)            | Benton City area. Center NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 27, (11-26E)<br>Elev. 1,134 ft. Gr. | 1920             | 2,212 | Cable tools to 295 ft. Rotary to bottom. Oily basalt and 8 gas horizons reported. Produced gas from 699 ft. Driller's log, gas analysis                             |
| Spokane-Benton County Natural Gas Co.       | (?)                                       | Benton City area. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, (11-25E)                                | Prior to 1924    | 1,003 | Cable tools. Gas showings reported. Driller's log   |
| Colfax Oil & Gas Co.                        | (?)                                       | Benton City area. Center SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 16, (11-26E)<br>Elev. 1,018 ft. Gr. | Prior to 1924    | 740   | Cable tools. Dry hole. Driller's log  |
| Big Bend Land Co.                           | Big Bend No. 1                            | Benton City area. Center SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 27, (11-26E)<br>Elev. 1,124 ft. Gr. | Prior to 1920(?) | 670   | Cable tools. Gas produced from 670 ft. Gas analysis   |
| Consolidated Oil & Gas Co.                  | (?)                                       | Benton City area. Near NW $\frac{1}{4}$ cor. sec. 27, (11-26E)                                      | Prior to 1924    | 806   | Cable tools. No gas. Water zone at 450 ft., clay at 600 ft.   |

| COMPANY  | WELL NAME  | LOCATION AND ELEVATION   | SUDDEN          | DEPTH      | REMARKS   |
|--|--|--|-----------------|------------|---|
| Prosser-Grandview Gas Co.  | Prosser-Grandview  | Benton City area. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 32, (10-25E)  | 1912            | 825        | Drilled to 482 ft. with cable tools Rotary to bottom. Originally drilled for water. No gas. Driller's log                                   |
| Walla Walla Oil, Gas & Pipe Line Co.                                 | Walla Walla No. 4  | Benton City area. SW. cor. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, (11-26E)<br>Elev. 958 ft. Gr.                      | Prior to 1925   | 640        | Cable tools. No gas. Water at 300 ft.   |
| Walla Walla Oil, Gas & Pipe Line Co.                                 | Walla Walla No. 5  | Benton City area. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 20, (11-26E), due SE. of discovery well.<br>Elev. 1,332 ft. Gr. | Prior to 1925   | 780        | Cable tools. Gas produced from 755 ft. Est. 1,300,000 cu. ft. per day. Driller's log, gas analysis  |
| Walla Walla Oil, Gas & Pipe Line Co.                                 | Walla Walla No. 6  | Benton City area. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 18, (11-26E)  | Prior to 1925   | 205        | Cable tools. No gas   |
| Walla Walla Oil, Gas & Pipe Line Co.; Northwestern Natural Gas Corp. | Walla Walla No. 6A (Northwestern No. 6, Walla Walla No. 6, Walla Walla No. 7, Conservative, and Deep Test) | Benton City area. Center N $\frac{1}{2}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 29, (11-26E)<br>Elev. 1,437 ft. (?) Gr.  | 3-5-26; 4-22-33 | 803; 3,660 | Cable tools. Gas at 791 to 800 ft. and 992 to 1,039 ft. Showings of tar-like oil at 3,150 ft. Bottom in basalt. Driller's log, gas analysis |
| Scott Drilling Co.   | Benson Ranch   | Benton City area. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 26, (12-25E)<br>Elev. 610 ft. (?) Gr.                           | 3-1-29          | 2,000      | Cable tools. Paraffin-base oil show reported at 1,438-1,450 ft. and 1,540-1,553 ft. Bottom in basalt. Driller's log                         |
| Walla Walla Oil, Gas & Pipe Line Co.                                 | Walla Walla No. 7  | Benton City area. Center N $\frac{1}{2}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 29, (11-26E)<br>Elev. 1,368 ft. (?) Gr.  | Prior to 1930   | 763+       | Cable tools. Gas produced from 763 ft. Gas analysis   |
| Walla Walla Oil, Gas & Pipe Line Co.                                 | Walla Walla No. 8  | Benton City area. Center N $\frac{1}{2}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 29, (11-26E)<br>Elev. 1,437 ft. (?) Gr.  | 1930            | 790        | Cable tools. Gas production from 784 ft. Gas analysis   |
| Walla Walla Oil, Gas & Pipe Line Co.                                 | Walla Walla No. 9  | Benton City area. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 21 (11-26E)<br>Elev. 1,228 ft. (?) Gr.                          | 1930            | 700        | Cable tools. Gas production from 700 ft.  |
| Northwestern Oil & Gas Co.   | Northwestern No. 1   | Benton City area. Center NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 28, (11-26E)<br>Elev. 1,302 ft. (?) Gr.                  | 5-23-30         | 712        | Cable tools. Gas production from 712 ft.  |
| Northwestern Oil & Gas Co.   | Northwestern No. 2   | Benton City area. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 28, (11-26E)<br>Elev. 1,705 ft. (?) Gr.                         | 9-22-30         | 1,281      | Cable tools. Gas produced from 982 and 1,260 ft. Driller's log  |

## BENTON—Continued

13

| COMPANY                              | WELL NAME                    | LOCATION AND ELEVATION  | SPUDED   | DEPTH | REMARKS  |
|--------------------------------------|------------------------------|---|----------|-------|--|
| Walla Walla Oil, Gas & Pipe Line Co. | Walla Walla No. 10           | Benton City area. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, (11-26E)<br>Elev. 1,302 ft. (?) Gr.          | 11-7-30  | 663   | Cable tools. No gas. Well never completed                                    |
| West Coast Gas & Oil Co.             | West Coast No. 1             | Benton City area. Center NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 20, (11-26E)             | 1930     | 705   | Lost hole by blasting. No gas. Changed from rotary to cable tools at 200 ft. |
| Yellowhawk Gas & Oil Co.             | Yellowhawk No. 1             | Benton City area. NE. cor. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, (11-26E)<br>Elev. 1,287 ft. (?) Gr. | 5-12-30  | 715   | Cable tools. Gas produced from 710 ft.                                       |
| Northwestern Oil & Gas Co.           | Northwestern No. 3           | Benton City area. Center SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 28, (11-26E)<br>Elev. 1,330 ft. (?) Gr.   | 11-7-30  | 757   | Cable tools. Gas produced from 757 ft.                                       |
| Northwestern Natural Gas Corp.       | Northwestern No. 4           | Benton City area. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 34, (11-26E)                                     | 6-19-31  | 980+  | Cable tools. Gas produced from 787 and 980 ft.                               |
| Northwestern Natural Gas Corp.       | Northwestern No. 5           | Benton City area. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 28, (11-26E)                                     | 7-10-31  | 650   | Cable tools. No gas. Well never completed                                    |
| West Coast Gas & Oil Co.             | West Coast No. 2             | Benton City area. Center NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29 (11-26E)                               | 1931     | 850   | Cable tools. Gas produced from 845 ft.                                       |
| North Pacific Natural Gas Co.        | Donellan No. 1               | Benton City area. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, (11-26E)                                     | 1931     | 100   | Cable tools. No gas. Well never completed                                    |
| Northwestern Natural Gas Corp.       | N. P. No. 1                  | Benton City area. Sec. 21, (9-28E) on Badger Mountain   | 5-25-31  | 600   | Cable tools. No gas. Well never completed                                    |
| Paul John Hunt                       | Horseshoe No. 1 (Hunt No. 1) | Benton City area. SW $\frac{1}{4}$ sec. 27, (10-25E), in Snipes Canyon                                    | 7-20-40  | 935   | Cable tools. Dry hole. Driller's log, cutting samples                        |
| Leo Oil Co.                          | Robert No. 1                 | Priest Rapids area. 100 ft. S., 2,270 ft. W. from NE. cor. sec. 34, (12-24E)<br>Elev. 1,100 ft. topo.     | 11-18-54 | 164   | In basalt  |
| Standard Oil Co. of California       | Rattlesnake Unit No. 1       | Grandview area. 330 ft. N., 330 ft. W. of SE. cor. sec. 15, (11-24E)<br>Elev. 2,872 ft. Gr.               | 7-2-57   | 8,418 | Bottom reported to be in volcanics   |

## CHELAN

|                                |                         |                                |        |     |                                      |
|--------------------------------|-------------------------|--------------------------------|--------|-----|--------------------------------------|
| Wenatchee Valley Oil & Gas Co. | Watling No. 1 (Monitor) | Monitor area. Sec. 14 (23-19E) | 4-6-32 | 930 | Cable tools. Dry hole. Well cuttings |
|--------------------------------|-------------------------|--------------------------------|--------|-----|--------------------------------------|



## CHELAN—Continued

| COMPANY   | WELL NAME   | LOCATION AND ELEVATION   | SPUDED  | DEPTH | REMARKS   |
|---|-------------|--|---------|-------|---|
| Northwest Oil Research Corp.;<br>Norco First Drilling Corp. | Norco No. 1 | Wenatchee area. NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 26, (22-20E) | 9-17-33 | 4,903 | Cable tools. Showing of gas, slight oil. Bottom in Swauk Driller's log, well cuttings |
| Wenatchee Produce Co.                                       | Water well  | Wenatchee area. 330 ft. S. of center sec. 3, (22-20E)                                | 1935(?) | 535+  | Gas showing. Well cuttings, gas analysis  |

## CLALLAM

|   |  |  |               |                   |   |
|---|--|--|---------------|-------------------|---|
| Washington Oil Co.  | Washington (Old)   | Forks area. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, (28-13W)<br>Elev. 310 ft. topo.                         | 1912          | 2,125             | Cable tools. Gas and oil showings at various depths. Several gallons of heavy oil from 1,915-1,950 ft. Making little gas in 1946. Driller's log |
| Forks Drilling Co.  | Forks No. 1  | Forks area. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, (28-13W), 300 yd. E. of Old Washington well.<br>Elev. 310 ft. topo.      | 5-3-19        | 2,250             | Cable tools. Many gas showings and few slight oil showings. Driller's log   |
| Sequim Oil Co.  | Sequim   | Sequim area. Near SE. cor. sec. 20, (30-3W)  | 1921(?)       | 1,400             | Cable tools. Reported oil showing at 200 ft.  |
| Forks Drilling Co.  | Forks No. 2  | Forks area. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, (28-13W), 75 ft. N. 80°W. of Old Washington well.<br>Elev. 310 ft. topo. | 1924          | 2,035             | Gas at various depths. One poor oil strata near bottom. Driller's log   |
| Sol Duc Oil Co.   | Bogachiel  | Forks area. Center E $\frac{1}{2}$ sec. 22, (28-14W)   | 1924          | 2,225             | Cable tools. Strong gas (4,000,000 cu. ft.). Reported abandoned because of crooked hole   |
| J. T. Dekay   | Dekay water well   | Sequim area. N $\frac{1}{2}$ NW $\frac{1}{4}$ sec. 27, (30-5W)   | 1927          | 114               | Cable tools. Oil colors began to show on water in 1931; by 1934 vaseline-like oil could be skimmed from water in tank                           |
| Mohawk-Olympic Co.; Anglo Peninsula Oil Co.   | McMillan No. 1<br>(Later incorrectly called Forks No. 1) | Forks area. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 12, (28-13W)  | 1930          | 147               | Cable tools. Only drilled through glacial debris  |
| Mordello L. Vincent et al.  | Olympic No. 1<br>(Quillayute Prairie)                    | Forks area. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 9, (29-14W)   | 1932          | 2,940<br>(2,898?) | Considerable gas reported below 2,500 ft. Driller's log   |
| Forks Prairie Oil Co. & Mordello L. Vincent interests; Superior Oil & Gas Co., successors | Rosalie No. 1  | Forks area. SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, (28-13W)<br>Elev. 320 ft. topo.                         | 1932;<br>1937 | 2,188;<br>2,350   | Considerable gas, thought to be commercial. Caving caused abandonment. Driller's log  |

| COMPANY                     | WELL NAME        | LOCATION AND ELEVATION   | SPUDED  | DEPTH   | REMARKS  |
|-----------------------------|------------------|--|---------|---------|--|
| Sun Oil Co.                 | Bloedel-Ruddock  | Forks area. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 5, (28-13W)<br>Elev. 300 ft. topo.  | 6-25-37 | 6,210   | Gas in small volume from various depths. Bottom in Hoh fm. Driller's log, foram chart, core desc., gas analysis, well cuttings |
| Dan Dalton                  | McInnes No. 1    | Sequim area. SE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, (30-3W), on the McInnes farm                             | 11-8-46 | 175+    | Cable tools. Bottom in glacial drift. Abandoned because of caving  |
| Dan Dalton                  | McInnes No. 2    | Approx. 200 ft. SW. of McInnes No. 1   | 4-1-47  | 600+    | Cable tools. Bottom in glacial drift   |
| Dan Dalton                  | McInnes No. 3    | A few feet from McInnes Nos. 1 and 2   | 1947    | shallow | Confused data, may be No. 2  |
| Union Oil Co. of California | Core Hole No. 1  | Port Angeles area. 410 ft. S., 235 ft. E. of center of NE $\frac{1}{4}$ sec. 15, (30-5W)<br>Elev. 325 ft. Gr.                    | 1947-48 | 302     | Core hole  |
| Union Oil Co. of California | Core Hole No. 2  | Port Angeles area. 555 ft. N., 405 ft. E. of SW. cor. of NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 16, (30-5W)<br>Elev. 260 ft. Gr. | 1947-48 | 122     | Core hole  |
| Union Oil Co. of California | Core Hole No. 2A | Port Angeles area. 380 ft. N., 60 ft. E. of SW. cor. of NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 16, (30-5W)<br>Elev. 270 ft. Gr.  | 1947-48 | 62      | Core hole  |
| Union Oil Co. of California | Core Hole No. 2B | Port Angeles area. 290 ft. N., 550 ft. E. of SW. cor. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 16, (30-5W)<br>Elev. 275 ft. Gr.    | 1947-48 | 342     | Core hole  |
| Union Oil Co. of California | Core Hole No. 3  | Port Angeles area. 325 ft. S., 330 ft. E. of NW. cor. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, (30-5W)<br>Elev. 210 ft. Gr.     | 1947-48 | 130     | Core hole  |
| Union Oil Co. of California | Core Hole No. 4  | Port Angeles area. 50 ft. N., 380 ft. W. of SE. cor. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 13, (30-5W)<br>Elev. 225 ft. Gr.     | 1947-48 | 395     | Core hole  |
| Union Oil Co. of California | Core Hole No. 4B | Port Angeles area. 310 ft. S., 240 ft. W. of NE. cor. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, (30-5W)<br>Elev. 260 ft. Gr.    | 1947-48 | 62      | Core hole  |
| Union Oil Co. of California | Core Hole No. 5  | Port Angeles area. 140 ft. N., 190 ft. W. of SE. cor. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, (30-5W)<br>Elev. 60 ft. Gr.      | 1947-48 | 32      | Core hole  |

| COMPANY                     | WELL NAME         | LOCATION AND ELEVATION  | SPUDED  | DEPTH | REMARKS   |
|-----------------------------|-------------------|---|---------|-------|-----------|
| Union Oil Co. of California | Core Hole No. 6   | Port Angeles area. 550 ft. N., 750 ft. W. of SE. cor. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 11, (30-5W)<br>Elev. 275 ft. Gr. | 1947-48 | 532   | Core hole |
| Union Oil Co. of California | Core Hole No. 8   | Port Angeles area. 340 ft. N., 250 ft. W. of SE. cor. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 15, (30-5W)<br>Elev. 430 ft. Gr. | 1947-48 | 69    | Core hole |
| Union Oil Co. of California | Core Hole No. 9   | Port Angeles area. 1,370 ft. S., 90 ft. E. of center sec. 16, (30-5W)<br>Elev. 450 ft. Gr.                                    | 1947-48 | 180   | Core hole |
| Union Oil Co. of California | Core Hole No. 10  | Port Angeles area. Approx. center sec. 21, (30-5W)<br>Elev. 540 ft. Gr.   | 1947-48 | 200   | Core hole |
| Union Oil Co. of California | Core Hole No. 10A | Port Angeles area. Approx. 1,600 ft. S., 2,650 ft. W. of NE. cor. sec. 21, (30-5W)<br>Elev. 540 ft. Gr.                       | 1947-48 | 290   | Core hole |
| Union Oil Co. of California | Core Hole No. 11  | Port Angeles area. Approx. 2,000 ft. N., 2,700 ft. W. of SE. cor. sec. 16, (30-5W)<br>Elev. 315 ft. Gr.                       | 1947-48 | 62    | Core hole |
| Union Oil Co. of California | Core Hole No. 12  | Port Angeles area. On Morse Creek in T. 30 N., R. 5 W.  | 1947-48 | 320   | Core hole |
| Union Oil Co. of California | Core Hole No. 13  | Port Angeles area. Approx. 1,500 ft. N., 400 ft. E. of SW. cor. sec. 18 (30-4W)   | 1947-48 | 82    | Core hole |
| Union Oil Co. of California | Core Hole No. 13A | Port Angeles area. Approx. 1,500 ft. N., 325 ft. E. of SW. cor. sec. 18, (30-4W)  | 1947-48 | 90    | Core hole |
| Union Oil Co. of California | Core Hole No. 14  | Port Angeles area. Approx. center sec. 27, (30-5W)  | 1947-48 | 420   | Core hole |
| Union Oil Co. of California | Core Hole No. 15  | Port Angeles area. Approx. 900 ft. N., 2,625 ft. W. of SE. cor. sec. 27, (30-5W)  | 1947-48 | 350   | Core hole |

## CLALLAM —Continued

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| COMPANY                              | WELL NAME               | LOCATION AND ELEVATION   | SPUDED   | DEPTH | REMARKS  |
|--------------------------------------|-------------------------|--|----------|-------|--|
| Union Oil Co. of California          | Core Hole No. 16        | Port Angeles area. Approx. 1,100 ft. N., 400 ft. W. of SE. cor. sec. 18, (30-4W)   | 1947-48  | 120   | Core hole  |
| Union Oil Co. of California          | Core Hole No. 17        | Port Angeles area. Approx. 1,500 ft. S., 1,250 ft. W. of NE. cor. sec. 13, (30-5W)                                       | 1947-48  | 110   | Core hole  |
| Dan Dalton                           | Dalton-Pettet No. 1     | Sequim area. Near NW. cor. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 30, (30-3W)  | 1948     | 3,619 | One slight oil showing. Artesian water flows at 256 and 800 ft. Bottom of glacial drift at 1,892 ft. Bottom in Blakeley (?). Well cuttings, E log  |
| Union Oil Co. of California          | Rayonier No. 1          | Forks area. 1,702 ft. S., 1,632 ft. E. of NW. cor. sec. 15, (28-13W)<br>Elev. 440 ft. topo                               | 10-14-48 | 2,350 | Strat test. No oil or gas showings. Core analysis, core desc., well history and log  |
| Dan Dalton                           | Dalton-Pettet No. 2     | Sequim area. Near center SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 30, (31-3W)  | 7-30-50  | 3,475 | Poor oil showings. Bottom of Pleistocene approx. 2,900 ft. Well cuttings, E log  |
| Dungeness Oil & Gas Co. (Dan Dalton) | Taylor No. 1            | Sequim area. NW. cor. sec. 8, (30-3W)  | 1951     | 2,740 | Oil showings reported at 1,140 and 2,210 ft. Abandoned because of mechanical trouble   |
| Producers Oil & Gas Co.              | Town of Forks No. 1     | Forks area. 200 ft. S., 200 ft. W. of NE. cor. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 16, (28-13W)<br>Elev. 290 ft. topo | 7-15-55  | 1,120 | Fair gas showing from 1,120 ft. Sidewall core desc., gamma ray-neutron log, E log  |
| St. Helens Oil Co.                   | Godfredson No. 1        | Forks area. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 35, (28-15W)<br>Elev. 56 ft. Gr.                                      | 1955     | 1,005 | Oil smell reported from sandstone core. Oil showing at 45 ft.  |
| Standard Oil Co. of California       | Dungeness Unit No. 1-54 | Sequim area. 340 ft. N., 340 ft. E. of center sec. 17, (30-3W)<br>Elev. 84 ft. D.F.                                      | 1-1-56   | 7,493 | Dry hole. Bottom of Pleistocene 2,105 ft., bottom Clallam congl. 3,285 ft., bottom Blakeley fm. 4,550 ft., bottom Lincoln fm. and top of Eocene volcanics 6,363 ft. Well history and log, E log, micro log, dipmeter |

## COWLITZ

| COMPANY  | WELL NAME         | LOCATION AND ELEVATION  | SUDDEN  | DEPTH  | REMARKS   |
|--|-------------------|---|---------|--------|---|
| Castle Rock Oil & Gas Co., subsidiary of Sunburst Oil & Refining Co. | Quigley No. 1     | Castle Rock area. Sec. 18, (9-2W)                                     | 9-30-25 | 3,500  | Traces of oil reported. Bottom in lower Eocene. Driller's log |
| The Texas Co.  | Clark Creek No. 1 | Longview area. Sec. 12, (8-3W)  | 1943    | 490(?) | Core hole   |
| The Texas Co.  | Cook No. 1        | Longview area. Center N $\frac{1}{2}$ sec. 13, (8-3W)                 | 1943    | 189(?) | Core hole   |
| The Texas Co.  | Sterling No. 1    | Longview area. Center S $\frac{1}{2}$ SW $\frac{1}{4}$ sec. 1, (8-3W) | 1943    | 465(?) | Core hole   |

## DOUGLAS

|                 |                           |  |      |     |  |
|-----------------|---------------------------|--|------|-----|--|
| Philip D. Terry | Terry Orchards water well | Orondo area. Near E $\frac{1}{4}$ cor. sec. 29, (25-21E) | 1937 | 308 | Deepened as oil test. Reported gas doubtful. Driller's log, well cuttings. |
|-----------------|---------------------------|--|------|-----|--|

## GRANT

|                                   |                   |   |         |           |   |
|-----------------------------------|-------------------|---|---------|-----------|---|
| Grant County Oil & Gas Co. (?)    | Iverson No. 1 (?) | Bailey area. SW $\frac{1}{4}$ sec. 30, (18-26E)                 | 1917(?) | 250 $\pm$ | Cable tools. Gas showing at 104 ft.   |
| Peoples Gas & Oil Development Co. | Donny Boy No. 1   | Warden area. NW. cor. sec. 19, (17-28E)<br>Elev. 1,450 ft. topo | 1934    | 4,575     | Rotary-cable tools combination. Slight gas and one tar-like oil showing. Moved rig twice just a few feet because of coring and crooked hole |

## GRAYS HARBOR

|                                     |                   |  |      |     |  |
|-------------------------------------|-------------------|--|------|-----|--|
| Olympic Oil Co.                     | Copalis (Chapman) | Near Copalis Head. NW. cor. SE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 9, (19-12W)<br>Elev. 40 ft. topo | 1901 | 847 | Cable tools. Gas showings. Well abandoned because of crooked hole and lost tools                     |
| Eldorado Oil Co.                    | Eldorado          | Copalis area. N. center sec. 27, (19-12W)  | 1901 | 350 | Cable tools. No oil or gas. Artesian water flow.   |
| Indian Oil Co. (Quinault Oil Co. ?) | Quinault No. 1    | Taholah area. NW $\frac{1}{4}$ sec. 35, (22-13W) on N. bank of Quinault River  | 1913 | 560 | Cable tools. Near Garfield gas mound. Results unknown. Composite driller's log (Quinault Nos. 1 & 2) |

## GRAYS HARBOR—Continued

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| COMPANY                                | WELL NAME                                 | LOCATION AND ELEVATION   | SPUDED   | DEPTH           | REMARKS   |
|--|---|--|----------|-----------------|---|
| Indian Oil Co.<br>(Quinault Oil Co. ?) | Quinault No. 2<br>(Taholah)               | Taholah area. NW $\frac{1}{4}$ sec. 35, (22-13W), a few feet from Quinault No. 1                               | 1913     | 820             | Strong gas reported. Composite driller's log (Quinault Nos. 1 & 2)  |
| Standard Oil Co. of California         | Northwestern No. 1<br>(Moclips No. 1)     | Moclips area. NE. cor. sec. 8, (20-12W)<br>Elev. 163 ft. Gr.   | 7-12-19  | 639             | Cable tools. No gas or oil. Abandoned because of mechanical difficulty. Bottom in blue shale. Driller's log, well history   |
| Standard Oil Co. of California         | Northwestern No. 2<br>(Moclips No. 2)     | Moclips area. NE $\frac{1}{4}$ sec. 8, (20-12W), near E $\frac{1}{2}$ cor.<br>Elev. 166 ft. Gr.                | 1-19-20  | 3,805           | Cable tools to 650 ft., rotary to 2,609 ft., cable tools to bottom. Trace of oil, small amount of gas at 2,687-3,805 ft. Driller's log. Company calls this "hole 2, well 1" |
| Standard Oil Co. of California         | Washington State No. 1<br>(Pacific Beach) | Pacific Beach area. SE $\frac{1}{4}$ sec. 16, (20-12W), $\frac{1}{2}$ mi. SE. of Moclips.<br>Elev. 129 ft. Gr. | 11-21-20 | 4,130           | Slight showings of oil and gas at 1,537-1,690 ft., 3,375-3,460 ft.  |
| Grays Harbor Petroleum Co.             | Tulips No. 1                              | Newton area. SE $\frac{1}{4}$ sec. 4, (18-11W), 9 mi. NW. of Hoquiam   | 1922     | 875             | Diamond drill. Gas reported at 560 ft. Driller's log  |
| Grays Harbor Petroleum Co.             | Humptulips                                | Newton area. Near center sec. 12, (20-11W)   | 1922     | 380<br>(1,000?) | Diamond drill. Showings of oil and gas reported   |
| New York Oil Co.                       | Aberdeen No. 1                            | Aberdeen-Hoquiam area. Probably sec. 5, (17-9W)  | 4-30-25  | 1,160           | High pressure gas at 1,160 ft.  |
| New York Oil Co.                       | Aberdeen No. 2                            | Aberdeen-Hoquiam area. Probably sec. 5, (17-9W), near Aberdeen No. 1   | 1925     | 1,350           | Strong gas at 1,350 ft. Hole lost because of mechanical trouble   |
| New York Oil Co.                       | Aberdeen No. 3                            | Aberdeen-Hoquiam area. Probably sec. 5, (17-9W), near Aberdeen No. 2   | 1925     | 1,530(?)        | Cable tools to 150 ft., rotary to bottom. High pressure gas. Casing collapsed   |
| Garber-Hager interests                 | Arland No. 1                              | Montesano area. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 13, (17-8W), on Arland farm.                            | 2-15-25  | 300(?)          | Cable tools. Did not reach bed rock   |
| Garber-Hager interests                 | Arland No. 2                              | Montesano area. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 13, (17-8W) 40 ft. S. of Arland No. 1                   | 1925     | 1,700           | Diamond drill. Considerable gas pressure  |
| Garber-Hager interests                 | Arland No. 3                              | Montesano area. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 13, (17-8W), within 100 ft. of Arland No. 1 and No. 2   | 1925     | 2,860           | Diamond drill. Considerable gas pressure  |

## GRAYS HARBOR—Continued

| COMPANY  | WELL NAME                                  | LOCATION AND ELEVATION  | SPUDED        | DEPTH        | REMARKS  |
|--|--|---|---------------|--------------|--|
| Shippey-Henderson                                    | Vesta School water well (Mackintosh No. 1) | Vesta area. NW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, (15-7W)<br>Elev. 150 ft. topo            | 1929;<br>1932 | 250;<br>600+ | Cable tools. Showings of oil and gas in water at 250 ft. Results of later testing unknown                              |
| Vesta Oil Co.; Shippey-Henderson                     | Vesta No. 1; Wagner No. 1                  | Vesta area. E $\frac{1}{2}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, (17-7W)<br>Elev. 120 ft. topo             | 1929;<br>1932 | 1,500        | Cable tools. Gas at 640, 950, and 1,112 ft. Hole plugged back to 1,112 ft. Small salt water flow                       |
| Gray-Tac Oil Co.                                     | Gray-Tac No. 1                             | Aberdeen area. NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 5, (17-9W)<br>Elev. 350 ft. topo         | 1930          | 1,399        | Rotary to 1,234 ft.; cable tools to bottom. High pressure gas and slight oil showing. Hole abandoned because of caving |
| International Life Lines Co., Ltd.                   | International No. 7                        | Aberdeen area. NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 5, (17-9W), 300 ft. W. of Gray-Tac No. 1 | 1-5-31        | 468          | Cable tools. Slight gas showing reported   |
| Elma Valley Oil & Gas Co.                            | Elma No. 1                                 | Elma area. SE $\frac{1}{4}$ sec. 25, (18-6W), on fairgrounds, 1 mi. E. of Elma                                  | 1931          | 700          | Cable tools. Small showings of gas and oil reported  |
| Ohio Oil Co.   | Berry-Robinson No. 1                       | Aberdeen area. 1,570 ft. S., 1,750 ft. W. of NE. cor. sec. 5, (17-9W)   | 5-27-32       | 6,725        | Several gas showings. Spudded in Miocene, bottom in Eocene basalt. Core log, well log, well history, formation log     |
| P. J. Grate et al.                                   | Bellamy No. 1                              | Brooklyn area. Approx. 2,590 ft. N., 600 ft. W. of SE. cor. sec. 5, (15-7W)<br>Elev. 150 ft. topo               | 1932          | 400+         | Cable tools. Results unknown   |
| Mottman, Bell, et al.                                | Hislop & Frank No. 1                       | Brooklyn area. Approx. 2,250 ft. N., 1,210 ft. W. of SE. cor. sec. 4, (15-7W)<br>Elev. 140 ft. topo             | 1933          | 3,015        | Cable tools. Oil and gas showings. Some salt water. Driller's log, well cuttings, foram species chart                  |
| Wishkah Oil Corp. and E.A. Sims, et al. (joint test) | Grays Harbor-Sims No. 1                    | Wishkah area. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 6, (18-8W)   | 1936          | 3,112        | Cable tools to 2,505 ft.; rotary to bottom. Several oil and gas showings. Driller's log                                |
| Lucky Seven Co.                                      | Stearnsville                               | Stearnsville area. Possibly sec. 26, (20-12W)   | 1943          | (?)          | Results unknown  |
| Lucky Seven Co.                                      | Aloha                                      | Aloha area. Possibly sec. 23, (20-12W)  | 1944          | (?)          | Results unknown  |
| The Sharples Corp.                                   | Fee-Sims No. 1                             | Wishkah area. 940 ft. N., 990 ft. W. of SE. cor. sec. 31, (19-8W)<br>Elev. 375 ft. R. T.                        | 1944          | 1,395        | Dry hole. Top of Astoria fm. at 355 ft. Top of Blakeley fm. at 955 ft. Driller's log, well cuttings                    |

| COMPANY                     | WELL NAME  | LOCATION AND ELEVATION   | SUDDEN   | DEPTH  | REMARKS  |
|-----------------------------|--|--|----------|--------|--|
| The Sharples Corp.          | Fee-Sims No. 2   | Wishkah area. 217 ft. N., 250 ft. E. of SW. cor. sec. 31, (19-8W)<br>Elev. 363 ft. R. T.                 | 1944     | 3,103  | Many slight oil showings. Strong gas showing at bottom. Mechanical difficulties caused abandonment. Driller's log, well cuttings, E log, porosity test results                       |
| The Sharples Corp.          | Weyerhaeuser No. 2                                     | Wishkah area. 3,354 ft. N., 2,315 ft. W. of SE. cor. sec. 31, (19-8W)<br>Elev. 355 ft. R.T.              | 1945     | 3,310  | Negative results. Top of Astoria fm. at 1,720 ft.; top of Blakeley fm. at 2,810 ft. Driller's log, well cuttings, E log  |
| The Sharples Corp.          | Weyerhaeuser-Clemons No. 1 (also called Clemons No. 1) | Primo area. 980 ft. S., 1,270 ft. E. of NW. cor. sec. 7, (16-7W)<br>Elev. 290 ft. R. T.                  | 8-11-45  | 6,855  | Considerable gas showing. Core shows Lincoln fauna at 4,610 ft.; upper Eocene at 4,912 ft. Driller's log, well cuttings, E log, silicate drilling fluid report                       |
| Mr. Fincham                 | Pacific Beach No. 2                                    | Moclips area near center sec. 16, (20-12W)   | 1946     | 330(?) | Results unknown  |
| Union Oil Co. of California | Parker No. 1   | Carlisle area. 375 ft. N., 195 ft. E. of center SE $\frac{1}{4}$ sec. 18, (19-11W)<br>Elev. 90 ft. topo  | 7-16-47  | 1,931  | Strat test. Driller's log, core desc., E log, well cuttings  |
| Union Oil Co. of California | Barnhisel No. 1  | Ocean City area. 227 ft. N., 694 ft. W. of center sec. 15, (18-12W)<br>Elev. 10 ft. D. F.                | 8-7-47   | 2,657  | Strat test. Gas and oil showings. Bottom in Astoria fm. Driller's log, well history, core analysis, E log  |
| Harmony Pacific Oil Co.     | Grays Harbor No. 1                                     | Humtulpis area. 1,200 ft. N., 2,200 ft. W. of SE. cor. sec. 13, (20-11W)                                 | 7-17-47  | 1,818  | Cable tools. Results unknown   |
| Union Oil Co. of California | Clapp No. 1  | Ocean City area. 660 ft. N., 1,115 ft. W. of S $\frac{1}{4}$ cor. sec. 10, (18-12W)<br>Elev. 10 ft. topo | 9-3-47   | 3,997  | Strat test. Good gas showings at 3,650-3,730 ft. and 3,992-3,997 ft. Good oil color from 2,460-2,470 ft. Montesano-Quinault fm. contact at 1,509 ft. Well history, core desc., E log |
| Union Oil Co. of California | Polson No. 1   | Aloha area. 1,072 ft. S., 750 ft. W. of NE. cor. sec. 27, (20-12W)<br>Elev. 80 ft. topo                  | 10-4-47  | 2,108  | Strat test. Bottom in Nye fm. Core and ditch sample desc., E log, well cuttings  |
| Union Oil Co. of California | Lamb No. 1   | Copolis Head area. 895 ft. S., 425 ft. E. of center sec. 9, (19-12W)<br>Elev. 160 ft. topo               | 10-31-47 | 2,379  | Strat test. Strong kerosene odor from some cores. Bottom in Nye fm. Core desc., E log, well cuttings, well history   |
| Union Oil Co. of California | State No. 1  | Ocean City area. 217 ft. S., 644 ft. W. of center sec. 15, (18-12W)<br>Elev. 10 ft. topo                 | 11-24-47 | 6,278  | Strong gas, about 100 bbl. of 37° gravity oil produced. Ditch sample desc., core analysis, oil analysis, well history, E log   |



## GRAYS HARBOR—Continued

| COMPANY  | WELL NAME                           | LOCATION AND ELEVATION  | SPUDED   | DEPTH          | REMARKS   |
|--|-------------------------------------|---|----------|----------------|---|
| Union Oil Co. of California                                | Weyerhaeuser No. 1                  | Melbourne area. 186 ft. N., 670 ft. E. of W. $\frac{1}{4}$ cor. of sec. 1, (16-8W)<br>Elev. 360 ft. topo  | 8-1-48   | 6,608          | Top of Eocene volcanics at 5,408 ft. Gas showing. Salt water 4,330-4,370 ft. and 4,790-4,810 ft. Well history, core desc., core analysis, E log                                     |
| Wishkah Oil Co.  | Sharples Corp.'s Weyerhaeuser No. 2 | Wishkah area. 3,354 ft. N., 2,315 ft. W. of SE. cor. sec. 31, (19-8W).<br>Elev. 355 ft. R.T.              | 1948     | 3,310 to 3,410 | Drilled hole 100 ft. Suspended because of mechanical difficulties   |
| Union Oil Co. of California                                | State No. 2                         | Ocean City area. 600 ft. N., 1,115 ft. W. of S $\frac{1}{2}$ cor. sec. 10, (18-12W)<br>Elev. 10 ft. topo  | 11-18-48 | 3,805          | Weak gas showing, poor oil showing. Strong salt water. Well history, E log, core desc. (3,585-3,805 ft.)  |
| Union Oil Co. of California                                | State No. 3                         | Ocean City area. 370 ft. S., 794 ft. W. of center sec. 15, (18-12W)<br>Elev. 10 ft. topo                  | 2-16-49  | 9,344          | Strong gas and oil showing. Several hundred bbl. of oil were recovered. Top of Nye fm. at 3,990 ft. Well history, core analysis, core desc., E log                                  |
| Tom T. Hawksworth Gas & Oil Development Co. and Associates | State No. 4                         | Ocean City area. 612 ft. S., 1,294 ft. W. of center sec. 15, (18-12W)<br>Elev. 10 ft. topo                | 6-15-51  | 3,711          | Strong gas and some condensate and oil. Bottom in Oligocene, E log, driller's log, oil analysis   |
| Ocean City Oil Fields, Inc.                                | Hogan No. 22-1                      | Ocean City area. 365 ft. N., 382 ft. E. of NE. $\frac{1}{16}$ cor. sec. 22, (18-12W)<br>Elev. 40 ft. topo | 1-14-53  | 4,918          | Some gas and oil. Base of Nye fm. at 3,860 ft. E log, micro log   |
| Seattle-Elma Petroleum Corp.                               | Koch No. 1                          | Malone area. Approx. 1,300 ft. S., 2,500 ft. W. of NE. cor. sec. 4, (17-5W)<br>Elev. 250 ft. topo         | 9-1-53   | 3,622          | Hit first basalt near 1,300 ft., middle Eocene basalt and sedimentary interbeds thereafter. Mechanical difficulties caused suspension   |
| Continental Oil Co.  | RA 1735                             | Montesano area. 1,230 ft. S., 1,280 ft. W. of NE. cor. sec. 25, (17-8W)<br>Elev. 275 ft.                  | 2-24-54  | 710            | Core hole. Driller's log  |
| Continental Oil Co.  | RA 1736A                            | Point New area. 1,000 ft. S., 1,130 ft. W. of NE. cor. sec. 2, (17-11W)<br>Elev. 20 ft.                   | 2-28-54  | 1,500          | Core hole. Driller's log  |
| Continental Oil Co.  | RA 1737                             | Point New area. 5,000 ft. S., 4,700 ft. W. of NE. cor. sec. 1, (17-11W)<br>Elev. 100 ft.                  | 3-23-54  | 1,530          | Core hole. Driller's log  |
| Continental Oil Co.  | Sims Oil Royalty Co. No. 1          | Wishkah area. 547 ft. N., 1,125 ft. E. of SW. cor. sec. 31, (19-8W)<br>Elev. 385 ft. R.T.                 | 4-8-54   | 3,452          | Gas in sandstone at 2,571 and 2,593 ft. Testing showed 60 mcf gas per day. Driller's log, lith log, core desc., s.w. core desc. E log, section gauge, dipmeter survey, gas analysis |

## GRAYS HARBOR—Continued

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| COMPANY             | WELL NAME                 | LOCATION AND ELEVATION  | SPUDED  | DEPTH | REMARKS  |
|---------------------|---------------------------|---|---------|-------|--|
| Continental Oil Co. | RA 1738                   | Point New area. 140 ft. S., 2,710 ft. W. of NE. cor. sec. 12, (17-11W)<br>Elev. 135 ft.                     | 4-5-54  | 1,335 | Core hole. Driller's log   |
| Continental Oil Co. | RA 1739A                  | Point New area. 4,100 ft. S., 3,900 ft. W. of NE. cor. sec. 36, (18-11W)<br>Elev. 20 ft.                    | 4-16-54 | 1,776 | Core hole. Artesian fresh water flow at 130 ft. Driller's log  |
| Continental Oil Co. | RA 1740A                  | Point New area. 4,700 ft. S., 700 ft. W. of NE. cor. sec. 8, (17-10W)<br>Elev. 5 ft.                        | 5-6-54  | 1,600 | Core hole. Driller's log   |
| Continental Oil Co. | State No. 1               | North Wishkah area. 707 ft. N., 1,000 ft. E. of S $\frac{1}{4}$ cor. sec. 36, (20-9W)<br>Elev. 215 ft. R.T. | 6-6-54  | 3,910 | Dry hole. Mostly silt and clay. Bottom in Blakeley fm. (?) Log and history, core desc., s.w. core desc., E log, dipmeter survey      |
| Continental Oil Co. | RA 1746                   | Grayland area. 500 ft. N., 3,650 ft. W. of SE. cor. sec. 6, (15-11W)<br>Elev. 7 ft.                         | 6-30-54 | 1,290 | Core hole. Driller's log   |
| Continental Oil Co. | Grays Harbor County No. 1 | Carlisle area. 551 ft. N., 389 ft. W. of SE. cor. sec. 24, (19-12W)<br>Elev. 205 ft. R.T. (Est.)            | 7-15-54 | 3,453 | Slight gas show 3,019-3,025 ft. Blakeley fm. at 1,240 ft. Log and history, lith desc., core desc., E log, micro log, dipmeter survey |
| Continental Oil Co. | RA 1751                   | South Harbor area. 900 ft. S., 3,800 ft. W. of NE. cor. sec. 26, (17-10W)<br>Elev. 60 ft.                   | 8-9-54  | 1,112 | Core hole. Driller's log   |
| Continental Oil Co. | RA 1750                   | South Harbor area. 2,670 ft. S., 2,650 ft. W. of NE. cor. sec. 27, (17-10W)<br>Elev. 60 ft.                 | 8-4-54  | 1,390 | Core hole. Driller's log   |
| Continental Oil Co. | RA 1749                   | South Harbor area. 110 ft. S., 1,320 ft. W. of NE. cor. sec. 26, (17-10W)<br>Elev. 83 ft.                   | 7-26-54 | 1,583 | Core hole. Driller's log   |
| Continental Oil Co. | RA 1748                   | Grayland area. 2,910 ft. N., 1,530 ft. W. of SE. cor. sec. 1, (16-12W)<br>Elev. 5 ft.                       | 7-16-54 | 1,623 | Core hole. Driller's log   |
| Continental Oil Co. | RA 1747                   | Grayland area. 850 ft. S., 770 ft. W. of NE. cor. sec. 25, (16-12W)<br>Elev. 15 ft.                         | 7-11-54 | 1,455 | Core hole. Never plugged. Driller's log  |

## GRAYS HARBOR—Continued

| COMPANY             | WELL NAME             | LOCATION AND ELEVATION   | SPUDED   | DEPTH | REMARKS  |
|---------------------|-----------------------|--|----------|-------|--|
| Continental Oil Co. | Wishkah No. 1         | Wishkah area. 909 ft. S., 1,000 ft. W. of NE. cor. sec. 1, (18-9W)<br>Elev. 395 ft. topo               | 8-20-54  | 4,248 | Very slight gas show. Bottom in Astoria fm. Log history, s.w. core desc., micro log, E log   |
| Continental Oil Co. | City of Hoquiam No. 1 | Hoquiam area. 1,621 ft. S., 1,211 ft. W. of N $\frac{1}{2}$ cor. sec. 3, (18-10W)<br>Elev. 140 ft. Gr. | 10-9-54  | 3,737 | No trace of oil or gas. Cowlitz fm. at 1,500 ft., interbedded volcanics below. Log and history, s.w. core desc., E log, dip-meter survey |
| Continental Oil Co. | Erkenbrecher No. 1    | Artic area. 1,622 ft. S., 2,038 ft. W. of NW. cor. sec. 19, (16-8W)<br>Elev. 135 ft. Gr.               | 11-6-54  | 1,004 | Dry hole. Hole caved. Salt water near bottom. Log history  |
| Continental Oil Co. | RA 1765               | Johns River area. 2,550 ft. S., 200 ft. E. of NW. cor. sec. 17, (16-9W)<br>Elev. 640 ft.               | 10-9-54  | 503   | Core hole. Driller's log   |
| Continental Oil Co. | RA 1764               | Johns River area. 1,350 ft. N., 1,200 ft. E. of SW. cor. sec. 25, (16-10W)<br>Elev. 440 ft.            | 10-3-54  | 1,257 | Core hole. Driller's log   |
| Continental Oil Co. | RA 1766               | Johns River area. 1,670 ft. S., 730 ft. W. of E $\frac{1}{2}$ cor. sec. 7 (16-9W)<br>Elev. 627 ft.     | 10-17-54 | 1,205 | Core hole. Driller's log   |
| Continental Oil Co. | RA 1767               | Johns River area. 2,000 ft. N., 2,000 ft. E. of SW. cor. sec. 17, (16-9W)<br>Elev. 610 ft.             | 10-20-54 | 1,050 | Core hole. Driller's log   |
| Continental Oil Co. | RA 1771               | Smith Creek area. 1,255 ft. S., 595 ft. E. of NW. cor. sec. 11, (15-8W)<br>Elev. 334 ft.               | 11-13-54 | 1,190 | Core hole. Driller's log   |
| Continental Oil Co. | RA 1772               | Smith Creek area. 860 ft. N., 5,015 ft. W. of SE. cor. sec. 3, (15-8W)<br>Elev. 602 ft.                | 11-19-54 | 1,050 | Core hole. Driller's log   |
| Continental Oil Co. | Hogan Estate No. 1    | Artic area. 853 ft. S., 703 ft. W. of NE. cor. sec. 22, (16-9W)<br>Elev. 120 ft.                       | 12-12-54 | 3,946 | Dry hole. Bottom in interbedded basalt and sediments. Top of basalt at 2,000 ft. Log and history, core desc., microlog, E log            |
| Continental Oil Co. | RA 1773               | Melbourne area. 800 ft. S., 1,450 ft. W. of NE. cor. sec. 24, (17-8W)<br>Elev. 54 ft.                  | 11-23-54 | 1,610 | Core hole. Gas reported in this hole. Driller's log  |
| Continental Oil Co. | RA 1774               | Melbourne area. 2,200 ft. N., 300 ft. W. of SE. cor. sec. 23, (17-8W)<br>Elev. 87 ft.                  | 12-3-54  | 1,047 | Core hole. Driller's log   |

| COMPANY                               | WELL NAME                 | LOCATION AND ELEVATION  | SPUDED   | DEPTH | REMARKS   |
|---------------------------------------|---------------------------|---|----------|-------|---|
| Continental Oil Co.                   | RA 1775                   | Melbourne area. 1,320 ft. N., 750 ft. E. of SW. cor. sec. 18, (17-7W)<br>Elev. 6 ft.                  | 12-9-54  | 1,194 | Core hole. Driller's log  |
| Continental Oil Co.                   | RA 1777                   | Montesano area. 650 ft. N., 2,500 ft. W. of SE. cor. sec. 35, (18-8W)<br>Elev. 18 ft.                 | 12-23-54 | 1,240 | Core hole. Driller's log  |
| Continental Oil Co.                   | RA 1776                   | Melbourne area. 2,200 ft. S., 1,700 ft. W. of NE. cor. sec. 18, (17-7W)<br>Elev. 11 ft.               | 12-14-54 | 1,200 | Core hole. Driller's log  |
| Continental Oil Co.                   | Griffin-Wagner Unit No. 1 | Still Creek area. 1,576 ft. S., 1,371 ft. W. of NE. cor. sec. 33, (19-7W)<br>Elev. 105 ft. R.T.       | 1-16-54  | 3,950 | Dry hole. Log and history, s.w. core desc., section gauge, microlog, E log                          |
| Continental Oil Co.                   | RA 1780                   | Melbourne area. 1,800 ft. S., 100 ft. E. of NW. cor. sec. 17, (17-7W)<br>Elev. 118 ft.                | 1-8-55   | 968   | Core hole. Driller's log  |
| Continental Oil Co.                   | RA 1778                   | Montesano area. 1,900 ft. N., 3,350 ft. W. of SE. cor. sec. 35, (18-8W)<br>Elev. 69 ft.               | 1-2-55   | 925   | Core hole. Driller's log  |
| Continental Oil Co.                   | RA 1779                   | Montesano area. 1,200 ft. S., 1,800 ft. E. of NW. cor. sec. 35, (18-8W)<br>Elev. 144 ft.              | 1-6-55   | 770   | Core hole. Driller's log  |
| Continental Oil Co.                   | Pitchford-McClymont No. 1 | SE. Artic area. 570 ft. N., 1,495 ft. E. of SW. cor. sec. 4, (15-8W)<br>Elev. 380 ft. topo            | 4-6-55   | 4,034 | Dry hole. Log and history, core desc., s.w. core desc., E log                                       |
| California-Washington Petroleum Corp. | Novolich No. 1            | Aberdeen area. 2,048 ft. N., 630 ft. W. of S $\frac{1}{2}$ cor. sec. 19, (17-9W)<br>Elev. 15 ft. topo | 7-29-55  | 7,005 | Dry hole. Bottom of hole in Crescent (?) volcanics. Well history and log, paleontology correlations |
| Shell Oil Company                     | Montesano core hole No. 1 | Montesano area. 4,400 ft. S., 3,500 ft. W. of NE. cor. sec. 4, (16-8W)<br>Elev. 332 ft. Gr.           | 10-3-55  | 1,000 | Core hole. Driller's log  |
| Shell Oil Company                     | Montesano core hole No. 2 | Montesano area. 1,750 ft. S., 100 ft. W. of NE. cor. sec. 8, (16-8W)<br>Elev. 168 ft. Gr.             | 10-13-55 | 1,033 | Core hole. Driller's log. Completed as a water well   |
| Shell Oil Company                     | Montesano core hole No. 3 | Montesano area. 3,350 ft. S., 3,900 ft. W. of NE. cor. sec. 8, (16-8W)<br>Elev. 113 ft. Gr.           | 10-17-55 | 1,072 | Core hole. Driller's log  |

## GRAYS HARBOR—Continued

| COMPANY                                 | WELL NAME                 | LOCATION AND ELEVATION   | SPUDED   | DEPTH | REMARKS  |
|---|---------------------------|--|----------|-------|--|
| Shell Oil Company                       | Montesano core hole No. 4 | Montesano area. 1,550 ft. S., 2,750 ft. W. of NE. cor. sec. 4, (15-7W)<br>Elev. 161 ft. Gr.          | 11-10-55 | 1,999 | Core hole. Driller's log. Completed as water well  |
| Utah Consolidated Oil Co.               | Swanson No. 22-1          | Ocean City area. 660 ft. S., 10 ft. E. of N $\frac{1}{4}$ cor. sec. 22, (18-12W)<br>Elev. 5 ft. topo | 4-12-57  | 4,381 | Oil and gas showing. E log, microlog   |
| J. W. Tanner-Sunshine Mining Co. et al. | Medina No. 1              | Ocean City area. 330 ft. N., 1,320 ft. W. of center sec. 15, (18-12W)<br>Elev. 10 ft. topo           | 6-19-57  | 4,140 | Good oil and gas showing. Results of 23-hr. production test; 10 hrs. $\frac{1}{2}$ -inch choke gave 86.25 bbl., 10 hrs. $\frac{3}{4}$ -inch choke gave 75.35 bbl. 38.9 API at 60° F. Daily drilling report, sample and core desc., core analysis, record of drill stem tests, temperature survey, gamma ray-neutron log, microlog, E log |
| J. W. Tanner-Sunshine Mining Co. et al. | Medina No. 2              | Ocean City area. 990 ft. N., 1,500 ft. W. of center sec. 15, (18-12W)<br>Elev. 10 ft. Gr.            | 9-27-57  | 5,125 | Three drill stem tests indicated good gas and oil shows  |

## ISLAND

|                    |                       |                                  |      |     |   |
|--------------------|-----------------------|----------------------------------|------|-----|---|
| City of Oak Harbor | Oak Harbor water well | Oak Harbor area. Sec. 2, (33-1E) | 1928 | 700 | Cable tools. Gas and salt water reported at 468 ft. Driller's log |
|--------------------|-----------------------|----------------------------------|------|-----|---|

## JEFFERSON

|  |                          |  |               |                 |   |
|--|--------------------------|--|---------------|-----------------|---|
| La Push Oil Co.  | La Push                  | La Push area. NW $\frac{1}{4}$ sec. 1, (27-15W)  | 1902          | 600             | Cable tools. Slight oil and gas showing reported. Bottom in Hoh fm.   |
| Jefferson Oil Co.  | Hoh Head No. 1           | Hoh Head area. SE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, (26-14W)  | 9-10-13       | 901             | Cable tools. Gas reported at various depths, oil at 691-901 ft. Driller's log   |
| Jefferson Oil Co.; Swastika Oil Co.  | Hoh Head No. 2           | Hoh Head area. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, (26-14W), 1,500 ft. S. of Sims No. 1                             | 1914;<br>1919 | 986;<br>1,120   | Cable tools. Good gas shows at 960 and 1,110 ft. Oil at 960 ft. Driller's log   |
| Leslie Petroleum Co.; Hoh River Oil and Gas Development Co. with General Petroleum Co. | Sims No. 1; Gilkey No. 1 | Hoh Head area. Center SE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, (26-14W), 1,500 ft. N. of Hoh Head No. 2 | 7-28-31       | 2,069;<br>2,155 | Cable tools. Good oil showings at 770-790 ft. and at 865 ft. Rotary continuation from 2,069 ft. to bottom showed additional gas and oil. The complete well is probably in Hoh fm. Driller's log, oil analysis |
| Hoh River Oil and Gas Development Co.  | Gilkey No. 2             | Center SE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, (26-14W), 2 ft. from Sims No. 1                         | 1933          | 866             | Good oil showings at 768 ft. and 865 ft. (Drilled to test Sims No. 1 oil zones). Abandoned because of crooked hole  |

| COMPANY  | WELL NAME  | LOCATION AND ELEVATION   | SUDDEN          | DEPTH              | REMARKS   |
|--|--|--|-----------------|--------------------|---|
| Hoh River Oil Co. or Mutual Exploration Co.                        | Lehman core hole No. 1 (Gilkey "A")                                | Hoh Head area. Approx. 750 ft. NE. of the Gilkey wells   | 1934            | 325                | Core hole. Driller's log  |
| Hoh River Oil Co. or Mutual Exploration Co.                        | Lehman core hole No. 2 (Gilkey "B")                                | Hoh Head area. Approx. 150 ft. NE. of core hole No. 1  | 1934            | 250                | Core hole. Driller's log  |
| Hoh River Oil Co. or Mutual Exploration Co.                        | Lehman core hole No. 3   | Hoh Head area. 10 ft. N., 800 ft. W. of E $\frac{1}{2}$ cor. sec. 12, (26-14W). About 200 ft. N. of core hole No. 2  | 1934            | 520                | Core hole   |
| Hoh River Oil Co. or Mutual Exploration Co.                        | Lehman core hole Milwaukee "A"                                     | (?)  | 1934            | 470                | Core hole. Driller's log  |
| Hoh River Oil Co. or Mutual Exploration Co.                        | Milwaukee No. 1  | Hoh Head area. 2,750 ft. N., 950 ft. W. of SE. cor. sec. 12, (26-14W)  | 1934            | 977                | Core hole. Driller's log  |
| Hoh River Oil Co. or Mutual Exploration Co.                        | Lacy No. 1   | Lower Hoh River area. NW $\frac{1}{4}$ sec. 11, (26-13W), at Lacy seep   | 1934            | 803                | Oil reported from sandstone near surface. Bottom of hole in shale   |
| Washington Oil Co., Ltd.; Consolidated Oil Co. of Washington, Inc. | Kipling No. 1; Gilkey No. 3  | Hoh Head area. SE. cor. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, (26-14W), about 140 ft. E. of Sims No. 1          | 4-5-36;<br>1937 | 316;<br>808        | Several good oil shows. Especially between 287-314 ft. Produced several bbl. oil per week for a considerable time. Lost hole because of mechanical difficulties. Driller's log, gas analysis, well cuttings |
| Washington Oil Co., Ltd.   | Kipling No. 2 (erroneously called Gilkey No. 2)                    | Hoh Head area. Near SE. cor. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, (26-14W), 200 to 300 ft. E. of Kipling No. 1 | 1936            | 656                | Dry hole. Well cuttings   |
| General Gas & Electric Co.   | State No. 1  | Lower Queets River area. W $\frac{1}{2}$ (?) sec. 29, (24-12W)   | 1936            | Shallow            | Cable tools. Rig was too light, could not get through the rocky overburden  |
| Consolidated Oil Co. of Washington, Inc.                           | Consolidated No. 2, Gilkey No. 5 (erroneously called Gilkey No. 2) | Hoh Head area. SE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, (26-14W), 150 ft. S. of Kipling No. 1     | 1937            | 1,070              | Good oil showing. Well never tested   |
| Hoh River Oil Co. or Mutual Exploration Co.                        | Churchill No. 1  | Hoh Head area. NW. cor. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, (26-14W), about 2 mi. NE. of Kipling No. 1        | 9-29-37         | 1,600 <sup>±</sup> | Cable tools. Some gas reported  |
| Oklatex Oil & Gas Co.  | Oklatex  | Steamboat Creek area. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 16, (25-13W)  | 1937            | (?)                | Cable tools. Depth unknown, probably very shallow   |
| Olympic Petroleum Co.  | C. C. Cook-Quinault No. 1  | Lower Queets River area. 867 ft. S., 572 ft. E. of N $\frac{1}{4}$ cor. SE $\frac{1}{4}$ sec. 35, (24-13W)           | 5-2-47          | 1,412              | Oil and gas showings. Abandoned because of mechanical trouble. Driller's log, core desc.  |

## JEFFERSON—Continued

| COMPANY                     | WELL NAME                                      | LOCATION AND ELEVATION   | SUDDDED | DEPTH | REMARKS   |
|-----------------------------|--|--|---------|-------|---|
| Olympic Petroleum Co.       | C.C. Cook-Quinault No. 2<br>(Wm. B. Sam No. 2) | Lower Queets River area. 867 ft. S., 672 ft. E. of N $\frac{1}{2}$ cor. SE $\frac{1}{4}$ sec. 35, (24-13W) | 7-23-47 | 3,010 | Oil and gas showings. Penetrated Miocene and Oligocene shales but no permeable sand. Driller's log, E log   |
| Union Oil Co. of California | Milwaukee Land Co. No. 1                       | Near mouth of Hoh River. 350 ft. S., 800 ft. W. of NE. cor. sec. 27, (26-13W)                              | 6-18-48 | 5,600 | Gas and oil showings at 1,284 ft. Thoroughly tested. Spudded in Astoria, bottom in Blakeley. Well history and log, core desc., core analysis, E log |
| Hill Bros. Land Co., Inc.   | Hill Bros. No. 1                               | Near mouth of Hoh River. 690 ft. N., 400 ft. W. of center sec. 1, (26-13W)<br>Elev. 315 ft. Gr.            | 1956    | (?)   | Results unknown   |

## KING

|   |                               |   |               |          |   |
|---|-------------------------------|---|---------------|----------|---|
| Pacific Oil Wells Co.                                       | Des Moines                    | Near Des Moines   | Prior to 1902 | (?)      | Details unknown   |
| Seattle & King County Oil Co.                               | (?)                           | Near South Park, on W. side of Duwamish River   | 1902          | 700+     | Cable tools. Details unknown  |
| Eugene Lawson   | coal test<br>(Flaming Geyser) | Black Diamond area. Near center S $\frac{1}{2}$ SE $\frac{1}{4}$ sec. 27, (21-6E)<br>Elev. 275 ft. topo | 1911          | 1,403    | Cable tools. Gas showings 900 to 1,000 ft. Encountered several carbonaceous shales and coal beds. Salt water below 1,000 ft. Driller's log, well cuttings, gas analysis |
| (?)   | Ballard                       | In Ballard  | 1913          | 2,800(?) | Cable tools. Results unknown  |
| Home Oil Co. of Seattle                                     | Oilfield                      | Seattle area. Sec. 12, (24-5E)  | 1914          | 316      | Cable tools. Results unknown  |
| Flaming Geyser Co.  | Geyser No. 1                  | Black Diamond area. 420 ft. S., 300 ft. W. of NE. cor. sec. 34, (21-6E)<br>Elev. 590 ft. topo           | 1928          | 2,362    | Cable tools. Bottom of glacial drift at 286 ft. Good gas showing. Driller's log   |
| Valley Dome Oil Co.   | Rainier No. 1                 | Rainier Valley at 6932 28th Ave. South, Seattle   | 1930(?)       | 450      | Cable tools. Gas and oil reported. Abandoned because of mechanical trouble  |
| Valley Dome Oil Co.   | Rainier No. 2                 | A few feet from Rainier No. 1   | 1930          | 450      | Cable tools. Gas and oil reported. No casing run  |
| Flaming Geyser Gas Co. & International Pipe Lines Co., Ltd. | Geyser No. 2                  | 250 ft. S. of Geyser No. 1  | 1931          | 100+     | Cable tools. Results unknown  |
| North Creek Oil & Gas Co.                                   | Woodinville No. 1             | Bothell area. Sec. 9, (26-5E)   | 1935          | 1,000+   | Cable tools. Gas, 78.5% methane, reported at 978 ft.  |

| COMPANY   | WELL NAME   | LOCATION AND ELEVATION  | SPUDED  | DEPTH    | REMARKS  |
|---|---|---|---------|----------|--|
| Washington-California Oil & Gas Co.;<br>Sound Cities Gas & Oil Co.,<br>Inc. | Bobb No. 1 (Sound Cities No. 1)                   | Black Diamond area. 350 ft. N., 100 ft. W. of E $\frac{1}{2}$ cor. sec. 34, (21-6E)<br>Elev. 535 ft. topo                                       | 1936    | 3,440    | Base of glacial drift at 294 ft. Good oil and gas showings. Thoroughly tested. Driller's log, well cuttings, gas analysis, E log       |
| Sound Cities Gas & Oil Co., Inc.  | Sound Cities No. 2 (Kraupa No. 1, Enumclaw No. 2) | Black Diamond area. 60 ft. N. of SW. cor. SE $\frac{1}{2}$ NW $\frac{1}{4}$ SE $\frac{1}{2}$ sec. 34, (21-6E) about 2,500 ft. SW. of Bobb No. 1 | 9-19-37 | 5,047    | Cable tools. Slight gas and oil showings. Driller's log, E log   |
| Felger & Jackson  | Cottage Lake                                      | Bothell area. Near center sec. 1, (26-5E)   | 1939    | 1,500(?) | Cable tools. Results unknown   |
| Panhandle Refining Co.  | Kraupa No. 2 (Sound Cities No. 3, Panhandle)      | Black Diamond area. Approx. 3,520 ft. S., 500 ft. W. of NE. cor. sec. 34, (21-6E)<br>Elev. 675 ft. Gr.  | 7-12-42 | 5,770    | Some traces of oil and gas. Driller's log, core analysis, E log  |
| The Sharples Corp.  | Buchmann No. 1                                    | Black Diamond area. 380 ft. E. of W $\frac{1}{4}$ cor. sec. 26, (21-6E)<br>Elev. 665 ft. R.T.   | 1943    | 4,016    | Traces of oil and gas. Driller's log, core desc., core analysis, well cuttings, E log  |
| Shell Oil Co.   | Pacific Coast Coal Co. No. 1                      | Black Diamond area. 320 ft. S., 1,498 ft. W. of NE. cor. sec. 14, (21-6E)<br>Elev. 755 ft. D.F.   | 10-1-47 | 4,319    | Several small gas showings, one small oil showing at 3,210 ft. Core desc., well history, s.w. core desc., ditch sample desc., E log    |
| Shell Oil Co.   | Bobb 73-34  | Black Diamond area. 3,624 ft. N., 990 ft. W. of E $\frac{1}{2}$ cor. sec. 34, (21-6E)<br>Elev. 618 ft. D.F.                                     | 9-22-48 | 3,509    | Bottom of glacial drift at 660 ft. Core from 900 ft. has oil odor. Core desc., well history, s.w. core desc, E log, ditch sample desc. |
| McCulloch Oil Exploration Co. of California, Inc.                           | Pasquier No. 1                                    | Enumclaw area. 990 ft. N., 990 ft. E. of SW. cor. sec. 34, (21-6E)<br>Elev. 565 ft. topo  | 4-30-57 | 6,023    | Several gas showings. Driller's log, micro log, baroid log, E log, dipmeter survey   |
| McCulloch Oil Exploration Co. of California, Inc.                           | Pasquier No. 2                                    | Enumclaw area. 330 ft. N., 330 ft. W. of S $\frac{1}{4}$ sec. 34, (21-6E)<br>Elev. 575 ft. topo   | 6-12-57 | 4,326    | Gas and oil showings. Driller's log, microlog, baroid log, E log, core desc., core analysis  |

## KITSAP

|   |             |  |      |       |   |
|---|-------------|--|------|-------|---|
| Kitsap Oil Development Co.;<br>J. T. Cain Oil Co. | Chico No. 1 | Bremerton area. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, (24-1E)  | 1913 | 1,840 | Cable tools. Oil and gas showings reported. Abandoned because of mechanical trouble |
| J. T. Cain Oil Co.                                | Chico No. 2 | Bremerton area. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 30, (24-1E) | 1927 | 1,450 | Oil showing reported. Abandoned because of mechanical trouble                       |



## KITSAP—Continued

| COMPANY  | WELL NAME           | LOCATION AND ELEVATION  | SPUDED   | DEPTH | REMARKS  |
|--|---------------------|---|----------|-------|--|
| G. N. Worden   | Worden water well   | Bremerton area. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 17, (24-2E)  | 1935     | 160   | Cable tools. Gas showing. Analysis reported 90.2 percent methane   |
| Mr. Orchard  | Orchard water well  | Port Gamble area. 250 ft. N., 730 ft. E. of W $\frac{1}{4}$ cor. sec. 17, (28-2E)<br>Elev. 69 ft. Gr.     | 1938     | 174   | Cable tools. Small gas with water showing at 174 ft  |
| A. S. Kincaid  | Kincaid water well  | Port Gamble area. 530 ft. N., 50 ft. E. of W $\frac{1}{4}$ cor. sec. 17, (28-2E)<br>Elev. 53 ft. Gr.      | 1939     | 190+  | Cable tools. Water with trace of gas at 120 ft.; more gas at 190 ft  |
| Puget Mill Co.   | Foulweather Bluff   | Port Gamble area. 200 ft. S., 400 ft. W. of E $\frac{1}{4}$ cor. sec. 18, (28-2E)<br>Elev. 109 ft. Gr.    | 12-5-39  | 206   | Cable tools. Several small gas showings. Best zone at 190 ft. Driller's log, gas analysis, well cuttings           |
| Evergreen Gas & Oil Co.  | (?)                 | Port Gamble area. SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 17, (28-2E)                     | 4-15-40  | 1,280 | Cable tools. Bottom of glacial drift at 1,105 ft. Slight gas showing. Driller's log, well cuttings                 |
| City of Sheridan   | Sheridan water well | Bremerton area. NW $\frac{1}{4}$ sec. 11, (24-1E)   | 1949     | 128   | Cable tools. Glacial drift - Blakeley contact at 40 ft. Gas showing at 116 ft. Analysis shows 98.4 percent methane |
| Union Oil Co. of California and Standard Oil Company of California | Hofert No. 1        | Belfair area. 502 ft. N., 553 ft. E. of center of SE $\frac{1}{4}$ sec. 11, (22-1W)<br>Elev. 468 ft. D.F. | 10-27-49 | 6,688 | Dry hole. Well history, core desc., mud log  |

## KITTITAS

|                            |             |   |      |      |   |
|----------------------------|-------------|---|------|------|---|
| Kittitas Oil Co.           | Hicks No. 1 | Near Ellensburg   | (?)  | 200+ | Cable tools. Dry hole. Well cuttings                          |
| Taneum Oil & Gas Corp.     | Kern No. 1  | Ellensburg area. N. center sec. 22, (18-17E), on Kern farm        | 1936 | 530  | Cable tools. Dry hole. Well cuttings                          |
| Washington Natural Gas Co. | Roza Dam    | Near Roza Dam on Yakima River. NW $\frac{1}{4}$ sec. 33, (15-19E) | 1940 | 913  | Cable tools. Good low-pressure gas showing. Basalt throughout |

## KLICKITAT

|               |                      |   |      |         |   |
|---------------|----------------------|---|------|---------|---|
| Gas-Ice Corp. | Carbon dioxide wells | Klickitat area. NE $\frac{1}{4}$ sec. 23, NW $\frac{1}{4}$ sec. 24, (4-13W) and NW $\frac{1}{4}$ sec. 19, (4-14W) | 1931 | various | Many developed springs and drilled wells producing carbon dioxide. Driller's log for gas-ice corp. wells No's. 8 & 10. Well cuttings from well No. 14 |
|---------------|----------------------|---|------|---------|---|

| COMPANY                 | WELL NAME                    | LOCATION AND ELEVATION                                  | SPUDED   | DEPTH | REMARKS  |
|-------------------------|------------------------------|---|----------|-------|--|
| Bluelight Gas & Oil Co. | Aldercreek No. 1 (Bluelight) | Alderdale area. Center E $\frac{1}{2}$ sec. 18, (5-22E) | 11-27-37 | 1,545 | Cable tools. Slight gas and poor oil showings reported. Driller's log, well cuttings |

LEWIS

|                               |                     |  |         |          |  |
|-------------------------------|---------------------|--|---------|----------|--|
| (?)                           | Mossyrock           | Mossyrock area. Near N $\frac{1}{4}$ cor. sec. 10, (12-2E)                             | 1913    | 900      | Details unknown  |
| M. D. Kennedy                 | Chehalis No. 1      | Chehalis area. Approx. 500 ft. SW. of Chehalis No. 2.                                  | 1926    | 3,000    | Oil showing at 1,400 ft. reported  |
| (?)                           | Chehalis No. 2      | Chehalis area. Near E $\frac{1}{4}$ cor. sec. 17, (14-3W)                              | 1927    | 1,600(?) | Cable tools. Results unknown. Driller's log                                      |
| Salzer Valley Prospecting Co. | Salzer Valley No. 1 | Chehalis area. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 22, (14-2W)                      | 1935    | 1,050    | Cable tools. Some gas showings. Bottom in Eocene                                 |
| Charles Bell                  | Silver Creek        | Cinebar area. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 4, (12-2E)                        | 2-16-37 | 475      | Cable tools. Oil showing reported  |
| Salzer Valley Oil & Gas Co.   | Salzer Valley No. 2 | Chehalis area. SE $\frac{1}{4}$ sec. 22, (14-2W), 1,500 ft. SW. of Salzer Valley No. 1 | 1940    | 1,800    | Cable tools. Gas showing reported below 1,600 ft., few oil colors. Well cuttings |
| The Texas Co.                 | Seifert No. 1       | Chehalis area. 1,197 ft. S., 1,007 ft. W. of center sec. 4, (14-3W)<br>Elev. 215 ft.   | 1946    | 155      | Core hole  |
| The Texas Co.                 | Seifert No. 2       | Chehalis area. 964 ft. S., 825 ft. W. of center sec. 4 (14-3W)<br>Elev. 212 ft.        | 1946    | 99       | Core hole  |
| The Texas Co.                 | Seifert No. 3       | Chehalis area. 810 ft. S., 569 ft. W. of center sec. 4, (14-3W)<br>Elev. 208 ft.       | 1946    | 240      | Core hole  |
| The Texas Co.                 | Seifert No. 4       | Chehalis area. 728 ft. S., 498 ft. W. of center sec. 4, (14-3W)<br>Elev. 205 ft.       | 1946    | 245      | Core hole  |
| The Texas Co.                 | Seifert No. 5       | Chehalis area. 730 ft. S., 361 ft. W. of center sec. 4, (14-3W)<br>Elev. 204 ft.       | 1946    | 114      | Core hole  |
| The Texas Co.                 | Seifert No. 6       | Chehalis area. 701 ft. S., 482 ft. W. of center sec. 4, (14-3W)<br>Elev. 204 ft.       | 1946    | 84       | Core hole  |
| The Texas Co.                 | Seifert No. 7       | Chehalis area. 652 ft. S., 561 ft. W. of center sec. 4, (14-3W)<br>Elev. 202 ft.       | 1946    | 75       | Core hole  |

## LEWIS—Continued

| COMPANY       | WELL NAME       | LOCATION AND ELEVATION   | SPUDED | DEPTH | REMARKS   |
|---------------|-----------------|--|--------|-------|-----------|
| The Texas Co. | Seifert No. 8   | Chehalis area. 633 ft. S.,<br>402 ft. W. of center sec.<br>4, (14-3W)<br>Elev. 200 ft. | 1946   | 60    | Core hole |
| The Texas Co. | Seifert No. 9   | Chehalis area. 579 ft. S.,<br>347 ft. W. of center sec.<br>4, (14-3W)<br>Elev. 200 ft. | 1946   | 57    | Core hole |
| The Texas Co. | Seifert No. 10  | Chehalis area. 522 ft. S.,<br>233 ft. W. of center sec.<br>4, (14-3W)<br>Elev. 200 ft. | 1946   | 106   | Core hole |
| The Texas Co. | Seifert No. 11  | Chehalis area. 400 ft. S.,<br>138 ft. W. of center sec.<br>4, (14-3W)<br>Elev. 221 ft. | 1946   | 82    | Core hole |
| The Texas Co. | Seifert No. 12  | Chehalis area. 112 ft. S.,<br>272 ft. W. of center sec.<br>4, (14-3W)<br>Elev. 200 ft. | 1946   | 45    | Core hole |
| The Texas Co. | Seifert No. 13  | Chehalis area. 462 ft. N.,<br>82 ft. W. of center sec. 4,<br>(14-3W)<br>Elev. 235 ft.  | 1946   | 90    | Core hole |
| The Texas Co. | Seifert No. 14  | Chehalis area. 442 ft. N.,<br>92 ft. W. of center sec. 4,<br>(14-3W)<br>Elev. 234 ft.  | 1946   | 80    | Core hole |
| The Texas Co. | Seifert No. 15a | Chehalis area. 465 ft. N.,<br>104 ft. W. of center sec.<br>4, (14-3W)<br>Elev. 234 ft. | 1946   | 84    | Core hole |
| The Texas Co. | Seifert No. 15b | Chehalis area. 5 ft. N.<br>42° W. of Seifert No. 15a                                   | 1946   | 75    | Core hole |
| The Texas Co. | Seifert No. 15c | Chehalis area. 442 ft. N.,<br>73 ft. W. of center sec. 4,<br>(14-3W)<br>Elev. 234 ft.  | 1946   | 80    | Core hole |
| The Texas Co. | Seifert No. 16  | Chehalis area. 312 ft. N.,<br>175 ft. W. of center sec.<br>4, (14-3W)<br>Elev. 227 ft. | 1946   | 123   | Core hole |
| The Texas Co. | Seifert No. 17  | Chehalis area. 315 ft. N.,<br>152 ft. W. of center sec.<br>4, (14-3W)<br>Elev. 228 ft. | 1946   | 124   | Core hole |
| The Texas Co. | Seifert No. 18  | Chehalis area. 335 ft. N.,<br>176 ft. W. of center sec.<br>4, (14-3W)<br>Elev. 228 ft. | 1946   | 120   | Core hole |

| COMPANY  | WELL NAME                      | LOCATION AND ELEVATION  | SUDDEN  | DEPTH | REMARKS   |
|--|--------------------------------|---|---------|-------|---|
| The Texas Co.                                      | Seifert No. 19                 | Chehalis area. 118 ft. N.,<br>293 ft. W. of center sec.<br>4, (14-3W)<br>Elev. 211 ft.            | 1946    | 97    | Core hole   |
| The Texas Co.                                      | Seifert No. 20                 | Chehalis area. 127 ft. N.,<br>264 ft. W. of center sec.<br>4, (14-3W)<br>Elev. 214 ft.            | 1946    | 100   | Core hole   |
| The Texas Co.                                      | Seifert No. 21                 | Chehalis area. 93 ft. N.,<br>282 ft. W. of center sec.<br>4, (14-3W)<br>Elev. 212 ft.             | 1946    | 91    | Core hole   |
| Selburn-Wash-<br>ington Oil Corp.                  | Wulz No. 1                     | Forest area. NE $\frac{1}{4}$ NE $\frac{1}{4}$<br>sec. 29, (13-1W)<br>Elev. 450 ft. topo          | 5-14-52 | 6,500 | Hit first volcanics at 2,310 ft.<br>Bottom in middle Eocene<br>McIntosh fm. Slight oil show-<br>ings at 4,630 and 5,110 ft.<br>Driller's log, paleontology re-<br>port, E log, core desc. |
| Northwest Oil &<br>Gas Development<br>Co., et. al. | Lowman-Standard<br>State No. 1 | Chehalis area. NE $\frac{1}{4}$ SW $\frac{1}{4}$<br>sec. 14, (14-3W)<br>Elev. 550 ft. topo        | 7-22-52 | 2,968 | Gas and oil showings. Salt<br>water at 2,955 ft. Bottom of<br>hole said to be in Stillwater<br>Creek volcanics. Driller's<br>log  |
| Standard Oil Co.<br>of California                  | Seifert No. 1                  | Chehalis area. 1,416 ft.<br>S., 769 ft. W. from center<br>sec. 4, (14-3W)<br>Elev. 298 ft. K.B.   | 4-14-53 | 4,010 | Dry hole. Top of first volcanics<br>at 2,840 ft. (?). Bottom of well<br>in volcanics. Strong salt water<br>flow at 2,904 ft. Well history,<br>E log, microlog, sample desc.               |
| Cowlitz Basin<br>Oil Co., Inc.                     | Wallace No. 1                  | Toledo area. 2,200 ft. S.,<br>1,200 ft. E. from NW.<br>cor. sec. 26, (11-2W)<br>Elev. 80 ft. topo | 2-18-54 | 881   | Cable tools. Drilling suspended<br>Showing of gas. Salt water<br>at 219 ft. Driller's log   |
| Seattle-Toledo<br>Oil Co., Inc.                    | Hoskins No. 1                  | Toledo area. 1,500 ft. S.,<br>2,800 ft. W. from NE.<br>cor. sec. 5, (11-1E)<br>Elev. 300 ft. topo | 3-2-54  | 920   | No evidence of gas or oil.<br>Driller's log   |
| Continental Oil<br>Co.                             | RA 1781                        | Forest area. 1,250 ft.<br>N., 1,300 ft. W. from SE.<br>cor. sec. 18, (13-1W)<br>Elev. 280 ft. Gr. | 1-12-55 | 530   | Core hole. Artesian fresh wa-<br>ter flow from 350 ft. caused<br>abandonment. Driller's log   |
| Continental Oil<br>Co.                             | RA 1782                        | Forest area. 1,970 ft. S.,<br>2,000 ft. E. from NW.<br>cor. sec. 19, (13-1W)<br>Elev. 289 ft. Gr. | 1-17-55 | 1,488 | Core hole. Driller's log  |
| Continental Oil<br>Co.                             | RA 1781A                       | Forest area. 1,600 ft. N.,<br>1,550 ft. W. from SE.<br>cor. sec. 18, (13-1W)<br>Elev. 310 ft. Gr. | 1-26-55 | 565   | Core hole. Artesian fresh<br>water flow at 440 ft. and 550 ft.<br>caused abandonment. Driller's<br>log  |
| Continental Oil<br>Co.                             | RA 1783                        | Forest area. 2,175 ft. N.<br>2,350 ft. W. from SE.<br>cor. sec. 17, (13-1W)<br>Elev. 285 ft. Gr.  | 2-26-55 | 1,595 | Core hole. Artesian fresh<br>water flow at 100-125 ft. and<br>550-625 ft. Driller's log   |

| COMPANY             | WELL NAME                      | LOCATION AND ELEVATION  | SUDDDED | DEPTH | REMARKS   |
|---------------------|--------------------------------|---|---------|-------|---|
| Continental Oil Co. | RA 1784                        | Forest area. 2,015 ft. S.,<br>2,015 ft. E. from NW. cor.<br>sec. 6, (13-1W)<br>Elev. 300 ft. Gr.    | 3-8-55  | 1,130 | Core hole. Artesian fresh water<br>at 585-650 ft. Driller's log   |
| Continental Oil Co. | RA 1787                        | Forest area. 2,200 ft. S.,<br>1,200 ft. E. from NW. cor.<br>sec. 20, (13-1W)<br>Elev. 323 ft. Gr.   | 3-24-55 | 1,645 | Core hole. Artesian fresh water<br>flow 535-595 ft. Driller's log |
| Continental Oil Co. | RA 1788                        | Forest area. 2,710 ft. N.,<br>500 ft. W. from SE. cor.<br>sec. 13, (13-2W)<br>Elev. 270 ft. Gr.     | 3-27-55 | 1,375 | Core hole. Artesian fresh water<br>flow 520-550 ft. Driller's log |
| Continental Oil Co. | RA 1789                        | Forest area. 450 ft. S.,<br>275 ft. W. from NE. cor.<br>sec. 25, (13-2W)<br>Elev. 292 ft. Gr.       | 4-15-55 | 1,190 | Core hole. Driller's log  |
| Shell Oil Co.       | Meskill core hole No.<br>1     | Boistfort area. 2,350 ft.<br>N., 1,350 ft. E. of SW.<br>cor. sec. 30, (13-3W)<br>Elev. 232 ft. Gr.  | 5-7-55  | 1,000 | Core hole. Driller's log  |
| Shell Oil Co.       | Meskill core hole No.<br>2     | Boistfort area. 1,500 ft.<br>S., 2,650 ft. W., of NE.<br>cor. sec. 36, (13-4W)<br>Elev. 240 ft. Gr. | 5-16-55 | 1,003 | Core hole. Driller's log  |
| Shell Oil Co.       | Meskill core hole No.<br>3     | Boistfort area. 150 ft.<br>N., 3,350 ft. W. of SE.<br>cor. sec. 36, (13-4W)<br>Elev. 246 ft. Gr.    | 5-24-55 | 1,003 | Core hole. Driller's log  |
| Continental Oil Co. | RA 1790                        | Forest area. 500 ft. S.,<br>630 ft. W. of NE. cor.<br>sec. 29, (13-1W)<br>Elev. 431 ft. Gr.         | 4-22-55 | 1,005 | Core hole. Driller's log  |
| Shell Oil Co.       | Meskill core hole No.<br>4     | Boistfort area. 1,600 ft.<br>N., 500 ft. E. of SW. cor.<br>sec. 1, (12-4W)<br>Elev. 255 ft. Gr.     | 5-29-55 | 1,003 | Core hole. Driller's log  |
| Shell Oil Co.       | Meskill core hole No.<br>5     | Boistfort area. 5,230 ft.<br>S., 2,700 ft. W. of NE.<br>cor. sec. 2, (12-4W)<br>Elev. 272 ft. Gr.   | 6-7-55  | 506   | Core hole. Driller's log  |
| Shell Oil Co.       | Meskill core hole No.<br>6     | Boistfort area. 1,600 ft.<br>S., 3,200 ft. W. of NE.<br>cor. sec. 11, (12-4W)<br>Elev. 280 ft. Gr.  | 6-14-55 | 927   | Core hole. Volcanics at 305 ft.<br>Driller's log                  |
| Shell Oil Co.       | Meskill core hole No.<br>No. 7 | Boistfort area. 1,850 ft.<br>S., 2,250 ft. E. of NW.<br>cor. sec. 14, (12-4W)<br>Elev. 300 ft. Gr.  | 6-20-55 | 943   | Core hole. Volcanics at 12 ft.<br>Driller's log                   |
| Shell Oil Co.       | Meskill core hole No.<br>8     | Boistfort area. 1,600 ft.<br>N., 600 ft. E. of SW. cor.<br>sec. 14, (12-4W)<br>Elev. 313 ft. Gr.    | 6-28-55 | 814   | Core hole. Driller's log  |

| COMPANY                        | WELL NAME                 | LOCATION AND ELEVATION  | SPUDED               | DEPTH           | REMARKS  |
|--------------------------------|---------------------------|---|----------------------|-----------------|--|
| Shell Oil Co.                  | Meskill core hole No. 9   | Boistfort area. 4,500 ft. S., 3,925 ft. W. of NE. cor. sec. 11, (12-4W)<br>Elev. 340 ft. Gr.  | 7-7-55               | 285             | Core hole. Driller's log   |
| Seattle-Toledo Oil Co., Inc.   | Hoskins No. 2             | Toledo area. 427 ft. N., 290 ft. E. of SW. cor. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, (11-1E), 955 ft. W. of Hoskins No. 1.<br>Elev. 170 ft. topo | 7-18-55;<br>10-11-56 | 4,712;<br>6,143 | Hit first basalt at 293 ft. Salt water below 6,000 ft. Driller's log, s.w. core desc., dipmeter, E log             |
| Producers Oil & Gas Co.        | State of Washington No. 1 | Chehalis area. 250 ft. S., 1,050 ft. W. of E $\frac{1}{4}$ cor. sec. 17, (14-3W)<br>Elev. 900 ft. topo  | 9-22-55              | 1,710           | Dry hole. Dipmeter, s.w. core desc., microlog, E log   |
| Earl F. Siler and J. W. Tanner | Kostick No. 1             | Chehalis area. 2,480 ft. S., 1,656 ft. W. of NE. cor. sec. 29, (14-2W)<br>Elev. 200 ft. topo  | 11-9-55              | 9,445           | Small gas showing. Driller's log, paleontology report, well history, E log   |
| Shell Oil Co.                  | Maroney No. 1             | Chehalis area. 300 ft. S., 1,774 ft. E. of W $\frac{1}{4}$ cor. sec. 5, (13-2E)<br>Elev. 957 ft. Gr.  | 2-11-56              | 3,485           | Dry hole. Salt water at 883 and 1,050 ft. Well history and log, core desc., dipmeter, gamma ray-neutron log, E log |
| Shell Oil Co.                  | Weyerhaeuser No. 1        | Doty area. 1,130 ft. S., 350 ft. E. of NW. cor. sec. 21, (14-5W)<br>Elev. 22 ft. D.F.   | 5-18-56              | 5,272           | Dry hole. Well history and log, core desc., gamma ray-neutron log, E log, composite log                            |
| O. W. Mineral Development Co.  | Pitlick No. 1             | Toledo area. Approx. 1,900 ft. N., 700 ft. W. of SE. cor. sec. 26, (12-1W)<br>Elev. 400 ft. topo  | 3-4-57               | 387             | Suspended at 387 ft.   |

## MASON

|                   |                |  |          |          |  |
|-------------------|----------------|--|----------|----------|--|
| Ohio Oil Co.      | Schaffer No. 1 | McCleary area. 250 ft. N., 250 ft. W. from SW. cor. sec. 22, (19-6W) | 12-19-26 | 1,802    | Cable tools. Dry hole. Hit basalt at 1,350 ft. |
| George A. Mottman | Mottman No. 4  | Matlock area. Sec. 4, (20-5W) at Lake Nahwatzel                      | 1931     | 1,100(?) | Cable tools. Results unknown                   |
| George A. Mottman | Mottman No. 5  | Matlock area. Sec. 11, (20-6W)                                       | 10-15-31 | 1,300(?) | Cable tools. Results unknown                   |
| George A. Mottman | Mottman No. 6  | Belfair area. Sec. 21, (23-2W), on old Jenet farm                    | 5-16-32  | 250      | Cable tools. Results unknown                   |
| George A. Mottman | Mottman No. 7  | Matlock area. Sec. 6, (21-6W)  | 12-9-32  | 2,350    | Cable tools. Results unknown                   |

## PACIFIC

| COMPANY   | WELL NAME                         | LOCATION AND ELEVATION   | SPUDED  | DEPTH | REMARKS  |
|---|-----------------------------------|--|---------|-------|--|
| Raymond Oil Co.<br>(?) or Willapa<br>Harbor Oil Co. | Willapa (Raymond)                 | Raymond area. NE $\frac{1}{4}$ sec.<br>30, (14-8W) (?)   | 8-29-14 | 1,865 | Cable tools. Reported oil showing at 1,005 ft. Gas at various depths. Driller's log                                |
| Union Oil Co. of<br>California                      | McGowan No. 1                     | Megler area. Center S $\frac{1}{2}$<br>sec. 22, (9-10W)<br>Elev. 6 ft. Gr.                                       | 2-19-29 | 4,385 | Cable tools to 2,880 ft., rotary to bottom. Slight gas showing reported. Driller's log, core desc., well cuttings. |
| Union Oil Co. of<br>California                      | Smith No. 1                       | Grayland area. 1,600 ft.<br>S.; 2,250 ft. W. from NE.<br>cor. sec. 31, (15-11W)<br>Elev. 10 ft. topo             | 4-19-48 | 4,927 | Slight gas showings. Hit first volcanics at 1,053 ft. Well history and log, core desc., E log                      |
| Long Beach Oil<br>Co.                               | Long Beach No. 1<br>(State No. 1) | Long Beach area. In projected sec. 20, 75 ft. S.,<br>3,302 ft. W. of N $\frac{1}{4}$ cor.<br>sec. 21, (10-11W)   | 6-30-53 | 2,103 | Dry hole. Lith log, E log  |
| W. H. Griffiths<br>& Associates                     | M. E. Halvorsen No. 1             | South Bend area. Approx.<br>700 ft. S., 2,900 ft. W.<br>from NE. cor. sec. 27,<br>(14-10W)<br>Elev. 100 ft. topo | 9-23-53 | 868   | Cable tools. Very small showing of oil reported  |
| Robert W. Overton<br>& Associates,<br>Inc.          | Pacific Co. No. 1                 | South Bend area. Approx.<br>2,900 ft. N., 600 ft. W.<br>from SE. cor. sec. 26,<br>(14-10W)<br>Elev. 220 ft. topo | 1-21-54 | 530   | Results unknown  |
| Long Beach Oil<br>Co.                               | State No. 2                       | Long Beach area. 1,150<br>ft. S., 600 ft. W. from NE.<br>cor. sec. 8, (10-11W)<br>Elev. 5 ft. Gr.                | 4-14-54 | 670   | Cable tools. Fresh water zone 50-55 ft. Trace of oil 340 and 388 ft. Driller's log, lith log                       |
| Continental Oil<br>Co.                              | RA 1745                           | Willapa area. 2,890 ft.<br>S., 3,960 ft. E. from NW.<br>cor. sec. 28, (14-7W)<br>Elev. 75 ft. Gr.                | 6-25-54 | 1,408 | Core hole. Driller's log   |
| Continental Oil<br>Co.                              | RA 1741                           | Willapa area. 200 ft. N.,<br>350 ft. E. from SW. cor.<br>sec. 21, (14-7W)<br>Elev. 70 ft. topo                   | 5-30-54 | 1,212 | Core hole. Driller's log   |
| Continental Oil<br>Co.                              | RA 1742                           | Willapa area. 3,620 ft.<br>N., 3,750 ft. W. from SW.<br>cor. sec. 21, (14-7W)<br>Elev. 66 ft. Gr.                | 6-7-54  | 1,085 | Core hole. Driller's log   |
| Continental Oil<br>Co.                              | RA 1743                           | Willapa area. 3,620 ft.<br>N., 1,210 ft. E. from SW.<br>cor. sec. 21, (14-7W)<br>Elev. 150 ft. Gr.               | 6-10-54 | 1,486 | Core hole. Driller's log   |
| Continental Oil<br>Co.                              | RA 1744                           | Willapa area. 4,730 ft.<br>S., 1,570 ft. W. from E $\frac{1}{4}$<br>cor. sec. 7, (14-7W)<br>Elev. 400 ft. topo   | 6-14-54 | 1,115 | Core hole. Driller's log   |
| Continental Oil<br>Co.                              | RA 1752                           | Westport area. 250 ft. N.,<br>850 ft. E. from SW. cor.<br>sec. 6, (14-7W)<br>Elev. 520 ft. topo                  | 8-12-54 | 1,302 | Core hole. Driller's log   |

| COMPANY                      | WELL NAME      | LOCATION AND ELEVATION   | SUDDDED | DEPTH | REMARKS                              |
|------------------------------|----------------|--|---------|-------|--------------------------------------|
| Continental Oil Co.          | RA 1753        | Willapa area. 1,320 ft. N., 1,700 ft. E. from SW. cor. sec. 26, (14-7W)<br>Elev. 120 ft. topo      | 8-20-54 | 1,356 | Core hole. Driller's log             |
| Continental Oil Co.          | RA 1754        | Willapa area. 210 ft. N., 280 ft. E. from W $\frac{1}{2}$ cor. sec. 8, (14-7W)<br>Elev. 84 ft. Gr. | 8-23-54 | 1,236 | Core hole. Driller's log             |
| Continental Oil Co.          | RA 1755        | Willapa area. 1,100 ft. S., 100 ft. E. from NW. cor. sec. 18, (14-7W)<br>Elev. 62 ft. Gr.          | 8-28-54 | 1,177 | Core hole. Driller's log             |
| Continental Oil Co.          | RA 1756        | Brooklyn area. 4,440 ft. S., 4,150 ft. E. from SW. cor. sec. 18, (15-6W)<br>Elev. 720 ft. (?) topo | 9-1-54  | 1,492 | Core hole. Driller's log             |
| Continental Oil Co.          | RA 1757        | Willapa area. 100 ft. N., 2,400 ft. W. from SE. cor. sec. 13, (14-8W)<br>Elev. 40 ft. topo         | 9-7-54  | 1,187 | Core hole. Driller's log             |
| Continental Oil Co.          | RA 1760        | Willapa area. 1,600 ft. N., 100 ft. E. from SW. cor. sec. 12, (14-8W)<br>Elev. 60 ft. topo         | 9-20-54 | 1,400 | Core hole. Driller's log             |
| Continental Oil Co.          | RA 1758        | Willapa area. 600 ft. S., 2,400 ft. E. from NW. cor. sec. 11, (14-8W)<br>Elev. 80 ft. topo         | 9-11-54 | 1,113 | Core hole. Driller's log             |
| Continental Oil Co.          | RA 1759        | Willapa area. 600 ft. S., 1,100 ft. W. from NE. cor. sec. 30, (14-7W)<br>Elev. 53 ft. Gr.          | 9-16-54 | 1,490 | Core hole. Driller's log             |
| Continental Oil Co.          | RA 1761        | Willapa area. 10 ft. N., 10 ft. E. from SW. cor. sec. 19, (14-7W)<br>Elev. 64 ft. Gr.              | 9-24-54 | 1,118 | Core hole. Driller's log.            |
| Continental Oil Co.          | RA 1762        | Willapa area. 900 ft. N., 100 ft. E. from SW. cor. sec. 24, (14-8W)<br>Elev. 35 ft. Gr.            | 9-29-54 | 1,158 | Core hole. Driller's log             |
| Continental Oil Co.          | RA 1763        | Willapa area. 100 ft. S., 1,600 ft. E. from NW. cor. sec. 14, (14-8W)<br>Elev. 30 ft. topo         | 10-1-54 | 1,198 | Core hole. Driller's log             |
| United Development Co., Inc. | Danny S. No. 1 | Nemah area. Sec. 14, (12-10W)<br>Elev. 40 ft. topo   |         |       | Permit issued but well never spudded |
| Continental Oil Co.          | RA 1770        | Smith Creek area. 260 ft. S., 70 ft. W. from NE. cor. sec. 25, (15-8W)<br>Elev. 56 ft. Gr.         | 11-5-54 | 1,582 | Core hole. Driller's log             |



## PACIFIC—Continued

| COMPANY             | WELL NAME               | LOCATION AND ELEVATION   | SPUDED   | DEPTH | REMARKS   |
|---------------------|-------------------------|--|----------|-------|---|
| Continental Oil Co. | RA 1768                 | Smith Creek area. 530 ft. S., 260 ft. W. from NE. cor. sec. 24, (15-8W)<br>Elev. 564 ft. Gr.     | 10-27-54 | 1,387 | Core hole. Driller's log  |
| Continental Oil Co. | RA 1769                 | Smith Creek area. 1,850 ft. N., 200 ft. W. from SE. cor. sec. 13, (15-8W)<br>Elev. 338 ft. Gr.   | 11-1-54  | 1,276 | Core hole. Driller's log  |
| Continental Oil Co. | Oysterville State No. 1 | Oysterville area. 662 ft. S., 357 ft. W. from center sec. 33, (13-11W)<br>Elev. 20 ft. Gr.       | 2-21-55  | 4,035 | Hole caved before any testing could be done. Log & history section gauge, E log, core desc., microlog |
| Continental Oil Co. | RA 1785                 | Willapa area. 2,250 ft. N., 900 ft. W. from SE. cor. sec. 13, (14-8W)<br>Elev. 40 ft. Gr.        | 3-14-55  | 1,600 | Core hole. Driller's log  |
| Continental Oil Co. | RA 1786                 | Willapa area. 700 ft. N., 1,800 ft. W. from SE. cor. sec. 12, (14-8W)<br>Elev. 420 ft. Gr.       | 3-17-55  | 1,007 | Core hole. Driller's log  |
| Shell Oil Co.       | Willapa core hole No. 3 | South Bend area. 1,000 ft. N., 2,300 ft. W. of SE. cor. sec. 2, (13-8W)<br>Elev. 34 ft. Gr.      | 8-25-55  | 1,003 | Core hole. Driller's log  |
| Shell Oil Co.       | Willapa core hole No. 2 | South Bend area. 3,500 ft. S., 2,500 ft. W. of NE. cor. sec. 2, (13-8W)<br>Elev. 45 ft. topo     | 8-29-55  | 1,002 | Core hole. Gas zone 953-957 ft. Driller's log   |
| Shell Oil Co.       | Willapa core hole No. 1 | South Bend area. 4,650 ft. S., 3,650 ft. W. of NE. cor. sec. 33, (13-7W)<br>Elev. 180 ft. Gr.    | 9-1-55   | 1,515 | Core hole. Salt water at 510 and 900 ft. Driller's log, widco E log                                   |
| Shell Oil Co.       | Willapa core hole No. 4 | South Bend area. 1,450 ft. S., 4,650 ft. W. of NE. cor. sec. 11, (13-8W)<br>Elev. 34 ft. Gr.     | 9-6-55   | 1,003 | Core hole. Driller's log  |
| Shell Oil Co.       | Willapa core hole No. 5 | South Bend area. 3,575 ft. S., 50 ft. W. of NE. cor. sec. 10, (13-8W)<br>Elev. 108 ft. Gr.       | 9-11-55  | 1,001 | Core hole. Driller's log  |
| Shell Oil Co.       | Willapa core hole No. 6 | South Bend area. 1,100 ft. S., 3,350 ft. W. of NE. cor. sec. 15, (13-8W)<br>Elev. 447 ft. Gr.    | 9-16-55  | 1,003 | Core hole. Completed as water well. Driller's log   |
| Shell Oil Co.       | Willapa core hole No. 7 | South Bend area. 4,500 ft. S., 2,500 ft. W. of NE. cor. sec. 15, (13-8W)<br>Elev. 372 ft. Gr.    | 9-22-55  | 1,003 | Core hole. Driller's log  |
| Shell Oil Co.       | Willapa core hole No. 8 | South Bend area. 1,850 ft. S., 3,350 ft. W. of NE. cor. of sec. 22, (13-8W)<br>Elev. 286 ft. Gr. | 9-27-55  | 628   | Core hole. Driller's log  |

| COMPANY       | WELL NAME                                     | LOCATION AND ELEVATION   | SPUDED   | DEPTH | REMARKS   |
|---------------|---|--|----------|-------|---|
| Shell Oil Co. | Willapa core hole No. 9                       | South Bend area. 4,125 ft. S., 875 ft. W. of NE. cor. sec. 5, (12-7W)<br>Elev. 231 ft. Gr.     | 10-20-57 | 1,421 | Core hole. Completed as water well. Driller's log       |
| Shell Oil Co. | Willapa core hole No. 10                      | South Bend area. 4,850 ft. S., 4,250 ft. W. of NE. cor. sec. 15, (13-8W)<br>Elev. 230 ft. Gr.  | 10-22-55 | 814   | Core hole. Driller's log                                |
| Shell Oil Co. | Camenzind No. 1<br>(Willapa core hole No. 11) | South Bend area. 3,650 ft. S., 2,450 ft. W. of NE. cor. sec. 25, (13-8W)<br>Elev. 100 ft. D.F. | 12-19-55 | 2,935 | Original core hole deepened. Driller's log, widco E log |

PIERCE

|                                 |                          |  |               |       |  |
|---------------------------------|--------------------------|--|---------------|-------|--|
| Pacific Oil Wells Co. of Tacoma | (?)                      | In Tacoma, near "C" Street at Borough Road, sec. 30, (21-3E)                     | Prior to 1902 | (?)   | Cable tools. Details unknown   |
| Tacoma Pacific Oil Co. (?)      | (?)                      | Orting area. Sec. 29 (?), (19-5E)  | 1915          | 2,600 | Cable tools. Good gas showing reported at 1,650 ft. Driller's log  |
| (?)                             | Water well               | Sumner area. Sec. 13, (20-4E)  | (?)           | 620+  | Cable tools. Hit "mineralized" water and gas at 620 ft.  |
| Mr. Swabodi                     | Swabodi water well No. 1 | Longbranch area. Short distance NW. of the S $\frac{1}{2}$ cor. sec. 23, (20-1W) | 1947          | 87    | Cable tools. Good gas showing at 80 ft. Gas had H <sub>2</sub> S odor. Shut in pressure 7 $\frac{1}{2}$ p. s. i. Bottom in drift |
| Mr. Swabodi                     | Swabodi water well No. 2 | Longbranch area. On same property, 100 ft. SW. from Swabodi water well No. 1     | 1947          | 165   | Cable tools. More gas than in first well but at same depth. Bottom in drift  |

SAN JUAN

|                   |                    |   |               |             |  |
|-------------------|--------------------|---|---------------|-------------|--|
| (?)               | (?)                | East central part of Waldron Island                         | Prior to 1927 | 1,500 $\pm$ | Cores found at the well sites indicated penetration of congl. and sandstone. |
| (?)               | water well         | At edge of False Bay. Probably sec. 33, (35-3W)             | 1947          | 100 $\pm$   | Small show of oil. Freak occurrence  |
| Wilbur H. Johnson | Johnson water well | On Orcas Island, in Crowe Valley between Orcas and East Bay | 1947          | 147         | Small show of oil. Freak occurrence  |

## SKAGIT

| COMPANY             | WELL NAME                              | LOCATION AND ELEVATION  | SPUDED        | DEPTH     | REMARKS   |
|---------------------|--|---|---------------|-----------|---|
| Pat Gibbons         | Bay View, or Pat Gibbons, or G. N. Ry. | Mt. Vernon area. SE $\frac{1}{4}$ sec. 31, (35-3E)                                | 1912          | 600       | Cable tools. Bottom in Pleistocene sediments. Reports of gas and oil were erroneous.  |
| Mr. Scott           | Scott water well                       | Samish Island. NE $\frac{1}{4}$ sec. 36, (36-2E), on Scott farm                   | Prior to 1930 | 52        | Cable tools. Oil seeped into well during dry season of 1930   |
| Merger Oil & Gas Co | Merger No. 1                           | Samish Island. NE $\frac{1}{4}$ sec. 36, (36-2E), 200 ft. SE. of Scott water well | 1-26-31       | 960       | Cable tools. Reported oil showings doubtful. Bottom in schist   |
| (?)                 | (?)                                    | North side of Samish Island. Probably sec. 26, (36-2E)                            | 1930(?)       | 165       | Cable tools. Bottom in Pleistocene sediments. No gas or oil   |
| (?)                 | Bay View water wells                   | On Bay View Ridge. T. 35 N., R. 3 E.  | Prior to 1934 | 200 $\pm$ | Cable tools. Gas showings in some of the 14 wells drilled. Bottom in Pleistocene sediments. Composite log from the 14 wells |
| H. S. Winters       | Winters water well                     | Hamilton area. SW $\frac{1}{4}$ sec. 30, (35-6E)                                  | 1934          | 30        | Dug with a posthole auger. Unusual gas occurrence. Well log, gas analysis   |
| W. C. Morris & Co.  | (?)                                    | Alger area. NW $\frac{1}{4}$ sec. 32, (36-4E)                                     | 8-18-37       | 932       | Cable tools. Base of Pleistocene at 700 ft., graphitic schist below. Well cuttings  |

## SKAMANIA

|                        |                  |   |         |     |  |
|------------------------|------------------|---|---------|-----|--|
| Columbia River Oil Co. | Kady-Olsen No. 1 | Skamania area. NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35, (2-6E) | 5-17-49 | 750 | Cable tools. Oil showing reported at 250 ft. Reported to have penetrated Columbia River basalt near 590 ft. Hit artesian fresh water flow at 750 ft. Oil analysis from nearby seep |
|------------------------|------------------|---|---------|-----|--|

## SNOHOMISH

|                         |                      |  |         |            |  |
|-------------------------|----------------------|--|---------|------------|--|
| John E. McManus         | (?)                  | Near Stanwood station, or at Machias (?)   | 1890(?) | 900 (800?) | Cable tools. First recorded oil test in state. Abandoned because of mechanical difficulties                            |
| Sound Oil Co.           | Goodwin No. 1        | Arlington area. NW. cor. NW $\frac{1}{2}$ SE $\frac{1}{2}$ SW $\frac{1}{4}$ sec. 22, (31-4E) | 1925    | 5,400      | Cable tools. Dry hole. Bottom of hole in Oligocene sediments. Stratigraphic column, paleontology report, driller's log |
| Sol Duc Oil Co.         | Sol Duc Delfel No. 1 | Snohomish area. Near center NW $\frac{1}{2}$ NE $\frac{1}{4}$ sec. 15, (28-6E)               | 1926    | 3,087      | Cable tools. Gas and oil showings reported. Driller's log  |
| Machias Development Co. | (?)                  | Snohomish area. Near center S. line SE $\frac{1}{4}$ sec. 10, (28-6E)                        | 1927    | 1,022      | Cable tools. Base of Pleistocene at 786 ft. Oil sand reported at 1,012 ft. Driller's log                               |

| COMPANY                          | WELL NAME                      | LOCATION AND ELEVATION  | SPUDED  | DEPTH  | REMARKS   |
|----------------------------------|--------------------------------|---|---------|--------|---|
| Sound Oil Co.                    | Goodwin No. 2                  | Arlington area. 1,320 ft. N., and 1,320 ft. E. from SW. cor. sec. 34, (31-4E)<br>Elev. 450 ft. topo | 5-6-30  | 5,959  | Dry hole. Bottom of hole in Oligocene sediments. Stratigraphic column, paleontology report, driller's log   |
| Florence Oil & Gas Co.           | Christenson No. 1 (Florence)   | Arlington area. SE $\frac{1}{2}$ SW $\frac{1}{4}$ sec. 8, (31-4E)                                   | 1931    | 1,220  | Cable tools. Showings of gas and oil reported. Driller's log  |
| Black Gold Oil Co.               | Cathcart No. 1                 | Snohomish area. Sec. 2, (27-5E)   | 1935    | 100±   | Cable tools. Bottom in glacial drift  |
| Graham Development Co.           | Snohomish No. 1 (Alston No. 1) | Snohomish area. 1,600 ft. NE. of Sol Duc Delfel No. 1, sec. 15, (28-6E)                             | 1936    | 1,688  | Showings of gas and oil reported. Driller's log, well cuttings  |
| Standard Oil Co. of California   | Alderwood No. 1                | South of Everett. 506 ft. N., 485 ft. E. from SW. cor. sec. 35, (28-4E)<br>Elev. 461 ft. D.F.       | 1-11-47 | 11,002 | Base of Pleistocene at 350 ft. Hit first basalt at 4,889 ft. Bottom of Oligocene at 5,150 ft. Bottom in middle lower Eocene marine sediments. High pressure salt water flow at 6,300 ft. Driller's log, core desc., E log |
| United Gas & Oil Development Co. | Molly Morrison No. 1           | Snohomish area. Approx. 1,470 ft. N., 150 ft. W. of center sec. 24, (28-6E)<br>Elev. 400 ft. topo   | 1955    | 465±   | Completed as a water well   |

## SPOKANE

|                      |                         |   |               |                       |  |
|----------------------|-------------------------|---|---------------|-----------------------|--|
| Garrett & Williamson | Wild Rose Prairie No. 1 | Spokane area. NE $\frac{1}{2}$ SW $\frac{1}{4}$ sec. 34, (28-42E)                   | 1901          | 2,227                 | Cable tools. Details unknown   |
| George Doerr         | George Doerr            | 2 mi. N. of Fairfield. SW $\frac{1}{4}$ sec. 14, (22-44E)<br>Elev. 2,520 ft. (?)    | 1908          | 1,463                 | Cable tools. Did not get through the basalt. Driller's log, well cuttings. |
| Garrett & Williamson | Wild Rose Prairie No. 2 | Spokane area. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, (28-42E)                   | 1911          | 600<br>or<br>1,600(?) | Cable tools. Details unknown   |
| (?)                  | Latah-Texas             | Spokane area. Approx. S $\frac{1}{2}$ cor. sec. 24, (25-42E)<br>Elev. 1,750 ft. (?) | 1919          | 2,060                 | Cable tools. Hit gneiss at 1,089 ft. Driller's log                         |
| United Oil Co.       | United No. 1            | Spokane area. 500 to 600 ft. S. of United No. 3, q.v.                               | 1922(?)       | 400±                  | Cable tools. In granite  |
| United Oil Co.       | United No. 2            | Spokane area. Approx. 200 ft. N. of United No. 3, q.v.                              | (?)           | 400±                  | Cable tools. In granite  |
| (?)                  | Manito Prairie wells    | Spokane area. Approx. sec. 28, (25-43E)   | Prior to 1925 | 1,400                 | Cable tools. Several wells in basalt. Stratigraphic column                 |

## SPOKANE — Continued

| COMPANY                         | WELL NAME               | LOCATION AND ELEVATION   | SPUDED        | DEPTH           | REMARKS  |
|---------------------------------|-------------------------|--|---------------|-----------------|--|
| Mead Oil & Gas Co., Inc.        | Mead No. 1 (D.T.T.)     | Spokane area. NW. cor. SE $\frac{1}{2}$ sec. 26, (27-43E)            | 1926(?)       | 5,280(?)        | Cable tools. In granite. Driller's log, well cuttings        |
| United Oil Co.; Palouse Oil Co. | United No. 3 (Denny)    | Spokane area. NW. cor. sec. 33, (24-45E)                             | 1932;<br>1937 | 1,681;<br>2,250 | Cable tools. Oil showings reported in granite. Well cuttings |
| Wild Rose Gas & Oil Co.         | Wild Rose Prairie No. 3 | Spokane area. 600 ft. S., 600 ft. E. from NW. cor. sec. 34, (28-42E) | 1944          | 3,600           | Cable tools. Hit granite at 3,000 ft.                        |

## STEVENS

|                     |                |  |               |        |  |
|---------------------|----------------|--|---------------|--------|--|
| (?)                 | (?)            | On Mill Creek, NE. of Colville                                     | Prior to 1902 | 1,100  | Cable tools. Drilled in limestone                                      |
| Indian Foot Oil Co. | Chewelah No. 1 | Chewelah area. NE $\frac{1}{2}$ NE $\frac{1}{2}$ sec. 10, (32-40E) | 1930          | 2,470+ | Cable tools. In Paleozoic meta-sediments. Driller's log, well cuttings |

## THURSTON

|                               |                               |   |         |          |  |
|-------------------------------|-------------------------------|---|---------|----------|--|
| Puget Sound Petroleum Co.     | (?)                           | Between Tenino and Grand Mound  | 1901    | 1,000+   | Cable tools. Results unknown   |
| Pacific States Oil Co.        | (?)                           | Centralia area. NE $\frac{1}{2}$ sec. 22, (15-3W)                     | 1914    | 1,600(?) | Cable tools. Traces of oil and gas reported. Driller's log   |
| Crescent Oil Co.              | (?)                           | Tenino area. Center S $\frac{1}{2}$ SE $\frac{1}{2}$ sec. 32, (16-2W) | 1915    | 2,125(?) | Cable tools. Traces of oil and gas reported. Driller's log   |
| Oregon-Washington Oil Co. (?) | (?)                           | Tenino area. NE $\frac{1}{2}$ NW $\frac{1}{2}$ sec. 19, (16-1W)       | 1915    | 1,400    | Cable tools. Traces of oil reported. Driller's log   |
| Hercules Sandstone Co.        | Scheel coal test              | Tenino area. NE $\frac{1}{2}$ sec. 20, (16-1W)                        | 1915(?) | 990      | Diamond drill. Oil showing reported at 900 ft. Driller's log   |
| Ohio Oil Co.                  | Weyerhaeuser Timber Co. No. 1 | Tenino area. 250 ft. S., 1,070 ft., W. of NE. cor. sec. 10, (16-1W)   | 5-4-26  | 2,760    | Cable tools. Chiefly basalt below 210 ft. Well history and log   |
| George A. Mottman             | Mottman Campbell No. 1        | Tenino area. Center SE $\frac{1}{2}$ sec. 12, (16-2W)                 | 3-19-26 | 4,035    | Cable tools. Glacial drift to 180 ft. Top of Eocene volcanics at 2,365 ft. Small oil showing reported at 4,000 ft. Driller's log |
| George A. Mottman             | Mottman No. 2                 | Tenino area. NW $\frac{1}{2}$ NE $\frac{1}{2}$ sec. 18, (16-1W)       | 1929    | 4,250    | Cable tools. Dry hole. Well cuttings   |

## THURSTON—Continued

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| COMPANY                         | WELL NAME              | LOCATION AND ELEVATION  | SPUDED   | DEPTH   | REMARKS  |
|---------------------------------|------------------------|---|----------|---------|--|
| George A. Mottman               | Mottman No. 3          | Olympia area. Sec. 6, (17-1E) at Lake St. Clair   | 1930     | 350     | Cable tools. Did not get through glacial drift   |
| George A. Mottman               | Mottman No. 8          | Olympia area. NE $\frac{1}{4}$ sec. 16, (18-1W)   | 1940     | Shallow | Cable tools. Results unknown   |
| Union Oil Co. of California     | Bannse No. 1           | Bucoda area. 880 ft. S., 1,520 ft. E. from NW.cor. sec. 22, (15-2W)<br>Elev. 250 ft. topo       | 11-1-48  | 4,330   | Dry hole. Hit igneous rock at 4,156 ft. Well history and log, core desc., core analysis, E.log |
| Mr. Thompson                    | Thompson water well    | Olympia area. SE. cor. sec. 10, (18-1W)   | 1949(?)  | 170     | Cable tools. Gas reported at 115 ft.   |
| Pacific Northwest Oil & Gas Co. | Dalton No. 1           | Rochester area. Approx. 650 ft. N., 3,000 ft. W. from SE. cor. sec. 28, (16-3W)                 | 1953     | 2,248   | Cable tools to 1,390 ft., rotary to bottom. Dry hole. Bottom in Eocene                         |
| Shell Oil Co.                   | Tenino core hole No. 1 | Tenino area. 4,300 ft.S., 5,050 ft. W. of NE. cor. sec. 19, (16-1W)<br>Elev. 269 ft. Gr.        | 7-9-55   | 916     | Core hole. Driller's log   |
| Shell Oil Co.                   | Tenino core hole No. 2 | Tenino area. 1,750 ft.S., 4,000 ft. W. of NE. cor. sec. 19, (16-1W)<br>Elev. 260 ft. Gr.        | 8-4-55   | 944     | Core hole. Completed as water well. Driller's log  |
| Shell Oil Co.                   | Tenino core hole No. 3 | Tenino area. 3,800 ft.S., 5,125 ft. W. of NE. cor. sec. 18, (16-1W)<br>Elev. 324 ft. Gr.        | 8-11-55  | 922     | Core hole. Driller's log   |
| Shell Oil Co.                   | Tenino core hole No. 4 | Tenino area. 550 ft. S., 5,320 ft. W. of NE. cor. sec. 18, (16-1W)<br>Elev. 287 ft. Gr.         | 8-19-55  | 378     | Core hole. Driller's log   |
| Shell Oil Co.                   | Tenino core hole No. 5 | Tenino area. Approx. 3,700 ft. S., 700 ft. W. of NE. cor. sec. 10, (16-1W)<br>Elev. 526 ft. Gr. | 9-14-56  | 723     | Core hole. Basalt at 241 ft. Driller's log   |
| Shell Oil Co.                   | Tenino core hole No. 6 | Tenino area. 4,400 ft.S., 4,800 ft. W. of NE. cor. sec. 11, (16-1W)<br>Elev. 466 ft. Gr.        | 9-22-56  | 737     | Core hole. Basalt at 642. Driller's log  |
| Shell Oil Co.                   | Tenino core hole No. 7 | Tenino area. 1,900 ft.S., 1,900 ft. W. of NE. cor. sec. 10, (16-1W)<br>Elev. 688 ft. Gr.        | 10-1-56  | 704     | Core hole. Basalt at 20 ft. Driller's log  |
| Shell Oil Co.                   | Tenino core hole No. 8 | Tenino area. 2,300 ft.S., 1,800 ft. W. of NE. cor. sec. 11, (16-1W)<br>Elev. 412 ft. Gr.        | 10-11-56 | 920     | Core hole. Basalt at 157 ft. Driller's log   |
| Shell Oil Co.                   | Tenino core hole No. 9 | Tenino area. 4,800 ft.S., 2,500 ft. W. of NE. cor. sec. 2, (16-1W)<br>Elev. 291 ft. topo        | 10-25-56 | 23      | Core hole. Driller's log   |

## THURSTON—Continued

| COMPANY       | WELL NAME               | LOCATION AND ELEVATION   | SPUDED   | DEPTH | REMARKS  |
|---------------|-------------------------|--|----------|-------|--|
| Shell Oil Co. | Tenino core hole No. 10 | Tenino area. 500 ft. S., 3,450 ft. W. of NE. cor. sec. 2, (16-1W)<br>Elev. 305 topo        | 10-27-56 | 640   | Core hole. Basalt at 390 ft. Driller's log                               |
| Shell Oil Co. | Tenino core hole No. 11 | Tenino area. 4,400 ft. S., 200 ft. W. of NE. cor. sec. 34, (17-1W)<br>Elev. 297 ft. Gr.    | 10-28-56 | 918   | Core hole. Completed as water well. Driller's log                        |
| Shell Oil Co. | Bonnell No. 1           | Tenino area. 2,122 ft. S., 1,058 ft. W. of NE. cor. sec. 10, (16-1W)<br>Elev. 669 ft. D.F. | 1-13-57  | 5,980 | Dry hole. Well history and log, core desc., gamma ray-neutron log, E log |

## WAHAKIUM

|                             |                    |  |         |           |  |
|-----------------------------|--------------------|--|---------|-----------|--|
| Oneida Oil Co.              | Grays River No. 1  | Oneida area. Possibly in NE $\frac{1}{4}$ sec. 31, (10-8W)   | 1907(?) | 250 $\pm$ | Details unknown  |
| Astoria-Grays River Oil Co. | Grays River No. 2  | Oneida area. Near S $\frac{1}{4}$ cor. sec. 28, (10-8W)  | 1926    | 1,275     | Cable tools. Small gas showing at 700 ft. reported   |
| George A. Mottman           | Grays River No. 3  | Oneida area. Near S $\frac{1}{4}$ cor. sec. 28, (10-8W), 300 ft. W. of Grays River No. 2                 | 1927    | 2,180     | Cable tools. Results unknown   |
| Richfield Oil Corp.         | Weyerhaeuser No. 1 | Grays Bay area. 1,569 ft. S., 1,739 ft. E. of W. $\frac{1}{4}$ cor. sec. 31, (10-8W)<br>Elev. 50 ft. Gr. | 8-20-55 | 9,110     | Dry hole. In volcanic flow rock below 8,450 ft. Well history and log, gamma ray-neutron log, microlog, dipmeter survey |

## WALLA WALLA

|                        |         |  |         |             |                              |
|------------------------|---------|--|---------|-------------|------------------------------|
| Columbia Basin Oil Co. | Attalia | Attalia area. SW $\frac{1}{4}$ sec. 4, (7-31E) | 1920    | 3,200 $\pm$ | Cable tools. Details unknown |
| Carl Kupers            | Kupers  | Attalia area. SW $\frac{1}{4}$ sec. 4, (7-31E) | 6-12-52 | 274         | Cable tools. Details unknown |

## WHATCOM

|                       |                          |   |      |        |                                   |
|-----------------------|--------------------------|---|------|--------|-----------------------------------|
| Mr. Clark             | Clark water well         | Bellingham area. SE $\frac{1}{4}$ sec. 7, (37-3E)                           | 1893 | 30     | Gas showing, discovery well.      |
| Pacific Oil Wells Co. | Happy Valley (Fairhaven) | Bellingham area. SE $\frac{1}{4}$ sec. 7, (37-3E) near the Clark water well | 1901 | 1,000+ | Cable tools. Gas showing reported |

| COMPANY  | WELL NAME                              | LOCATION AND ELEVATION   | SUDDEN        | DEPTH        | REMARKS   |
|--|--|--|---------------|--------------|---|
| National Oil & Gas Co.                             | Enterprise No. 1                       | Ferndale area. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6, (39-2E)                               | 1914          | 1,000+       | Cable tools. Results unknown. Abandoned because of crooked hole   |
| National Oil & Gas Co.; Canadian Oil & Venture Co. | Enterprise No. 2                       | Ferndale area. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6, (39-2E), 15 ft. from Enterprise No. 1 | 1914          | 2,411, 3,615 | Cable tools to 2,411 ft., diamond drill to bottom. Base of Pleistocene at 650 ft. Oil showing at 2,500 ft. and several gas showings reported. Salt water at 2,165 ft. Driller's log |
| (?)  | Holman water well No. 1                | Bellingham area. SW. cor. sec. 2, (38-3E), on Holman farm                                      | 1914?         | 160          | Cable tools. Poor gas showing. Gas analysis   |
| (?)  | Holman water well No. 2                | Bellingham area. SW. cor. sec. 2, (38-3E), 300 ft. N. of Holman No. 1                          | 1914          | 127          | Cable tools. Gas showing. Oil showing reported  |
| Bellingham Natural Gas Co.                         | Well No. 1                             | Deming area. Near N. line of NW $\frac{1}{4}$ sec. 33, (39-4E)                                 | 1917          | 78           | Cable tools. Gas showing  |
| Bellingham Natural Gas Co.                         | Well No. 2                             | Deming area. Near N. line of NW $\frac{1}{4}$ sec. 33, (39-4E)                                 | 1917          | 58           | Cable tools. Good gas showing. No water   |
| Bellingham Natural Gas Co.                         | Well No. 3                             | Deming area. $\frac{1}{4}$ mi. S. of N. line of NW $\frac{1}{4}$ sec. 33, (39-4E)              | 1917          | 102          | Cable tools. Good gas showing. No water   |
| W. T. Lange  | Lange coal test                        | Ferndale area. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, (39-2E)                              | 1920          | 168          | Cable tools. Hit gas and brackish water at 161 ft.  |
| (?)  | Anderson                               | Blaine area. Near center W $\frac{1}{2}$ sec. 32, (40-1E), on old Anderson farm                | 1927          | 250          | Cable tools. Gas, 55 p. s. i. at 250 ft.; used domestically   |
| N. H. Jepson                                       | Jepson water well                      | Bellingham area. SW. cor. sec. 10, (38-3E), on Jepson farm                                     | Prior to 1930 | 270          | Cable tools. Gas at 210 ft., used domestically. Base of Pleistocene at 90 ft. Gas analysis, driller's log   |
| Henry Luce   | Luce water well                        | Bellingham area. At Geneva. NE $\frac{1}{4}$ sec. 34, (38-3E) (?)                              | 1930          | 450+         | Cable tools. Gas at 235 ft. Gas analysis  |
| Home Petroleum Co.                                 | Home No. 1                             | Blaine area. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 31, (40-1E), on Irwin farm                 | 11-12-30      | 650          | Cable tools. Results unknown  |
| Home Petroleum Co.                                 | Birch Bay No. 1                        | Blaine area. Sec. 32, (40-1E) 200 ft. E. of Auburn well  | 5-31-30       | 268          | Gas showings at 140 and 210 ft. Driller's log, gas analysis   |
| International Pipe Lines Co., Ltd.                 | International No. 6 (California Creek) | Blaine area. On W.R. Allen farm on California Creek  | 1930          | 300+         | Cable tools. Results unknown  |



## WHATCOM—Continued

| COMPANY  | WELL NAME                          | LOCATION AND ELEVATION   | SPUDED | DEPTH           | REMARKS   |
|--|------------------------------------|--|--------|-----------------|---|
| International Pipe Lines Co., Ltd.                   | International No. 4 (Goshen)       | Nooksack area. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, (39-3E) on Graetzer farm                   | 1930   | 1,206           | Cable tools. Results unknown  |
| Acme Oil & Gas Co.                                   | Acme No. 1                         | Ferndale area. S $\frac{1}{2}$ SE $\frac{1}{4}$ sec. 13, (39-1E)                                     | 1930   | 310             | Cable tools. Gas showing reported   |
| Acme Oil & Gas Co.                                   | Acme No. 2, also called Acme No. 1 | Ferndale area. S $\frac{1}{2}$ SE $\frac{1}{4}$ sec. 13, (39-1E), 20 ft. from Acme No. 1             | 1930   | 1,241           | Cable tools. Gas and oil showings reported. Driller's log   |
| Kulshan Natural Gas & Oil Co.; M. & M. Gas & Oil Co. | Lange No. 1                        | Ferndale area. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, (39-2E), about 50 ft. from Lange coal test | 1930   | 1,180           | Cable tools. Gas showings from various depths   |
| International Pipe Lines Co., Ltd.                   | International No. 5 (Laurel)       | Near Laurel. May be in sec. 19, (39-3E)  | 1930   | 970             | Cable tools. A continuation of 383 ft. water well. Gas showing reported at 630 ft. Driller's log  |
| International Pipe Lines Co., Ltd.                   | International No. 3 (Jepson No. 1) | Bellingham area. Probably near SW. cor. sec. 10, (38-3E), on Jepson farm                             | 1930   | 1,000(?)        | Cable tools. Results unknown  |
| Ives Gas & Oil Corp.                                 | Ives No. 1                         | Nooksack area. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 21, (40-4E), on H. O. Brown farm               | 1931   | 275             | Cable tools. Results unknown  |
| International Pipe Lines Co., Ltd.                   | Ridge No. 1                        | Bellingham area. Center sec. 15, (38-3E), on Alabama Ridge   | 1931   | 1,625           | Cable tools. Gas showing at 685 ft. Three feet of glacial drift. Driller's log  |
| Ives Gas & Oil Corp.; Curtis Natural Gas Co.         | Ives No. 2                         | Nooksack area. Sec. 21, (40-4E) on H. O. Brown farm  | 1931   | 1,000;<br>1,350 | Cable tools. Gas showing at 990 ft. Driller's log from 1,024 ft. to bottom  |
| M. & M. Oil & Gas Co.                                | Lange No. 2                        | Ferndale area. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, (39-2E), 14 ft. E. of Lange coal test      | 1931   | 2,008           | Rotary to 450 ft. Cable tools below. Base of Pleistocene at 154 $\pm$ . Several gas showings; used domestically. Driller's log, gas analysis, well cuttings |
| Geo. Cowden et al.                                   | Ridge No. 2                        | Bellingham area. Probably near center sec. 15, (38-3E)   | 1931   | 420             | Cable tools. Results unknown  |
| Olsen-Orloff Syndicate                               | Molin No. 1                        | Bellingham area. Sec. 7, (38-4E), on Molin farm  | 1931   | 110+            | Cable tools. Results unknown  |
| Grate-McDonald                                       | Ross No. 1                         | Bellingham area. Sec. 17, (38-4E), on Ross farm  | 1931   | 100 $\pm$       | Cable tools. Results unknown  |
| Grate-McDonald                                       | Jensen No. 1                       | Bellingham area. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, (38-4E), on H. W. Jensen farm            | 1931   | 200             | Cable tools. Hit nitrogen gas at 125 ft.  |

## WHATCOM—Continued

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| COMPANY                   | WELL NAME                                   | LOCATION AND ELEVATION  | SPUDED   | DEPTH | REMARKS  |
|---------------------------|---|---|----------|-------|--|
| Greenacres Memorial Park  | Greenacres water well                       | Ferndale area. Near SW. cor. SE $\frac{1}{2}$ sec. 22, (39-2E)  | 1932     | 775   | Cable tools. Gas showing at 530 ft. Driller's log  |
| Whatcom Natural Gas Corp. | Whatcom No. 1 (Lange No. 3)                 | Ferndale area. E $\frac{1}{2}$ cor. sec. 28, (39-2E), on Lange farm   | 1933     | 175   | Cable tools. Good gas showing at 175 ft.; used domestically. Driller's log, well cuttings, gas analysis          |
| Whatcom Natural Gas Corp. | Lingbloom No. 1 (Chamber of Commerce No. 1) | Ferndale area. NW $\frac{1}{2}$ SW $\frac{1}{2}$ NW $\frac{1}{2}$ sec. 27, (39-2E), on J. E. Lingbloom farm | 11-12-33 | 171   | Cable tools. Good gas showing at 171 ft.; used domestically. Driller's log, gas analysis                         |
| Whatcom Natural Gas Corp. | Lingbloom No. 2 (Chamber of Commerce No. 2) | Ferndale area. SW $\frac{1}{2}$ SW $\frac{1}{2}$ NW $\frac{1}{2}$ sec. 27, (39-2E), on O. H. Lingbloom farm | 1933     | 172   | Cable tools. Good gas showing at 172 ft.; used domestically. Gas analysis  |
| Whatcom Natural Gas Corp. | Lingbloom No. 3 (Chamber of Commerce No. 3) | Ferndale area. NE $\frac{1}{2}$ SW $\frac{1}{2}$ NW $\frac{1}{2}$ sec. 27, (39-2E), on J. E. Lingbloom farm | 1933     | 212   | Cable tools. Dry hole  |
| Van-Bell Holding Co.      | Bettsinger No. 2                            | Ferndale area. SE $\frac{1}{2}$ NE $\frac{1}{2}$ SW $\frac{1}{2}$ sec. 27, (39-2E), on E. Bettsinger farm   | 1933     | (?)   | Cable tools. Results unknown   |
| Whatcom Natural Gas Corp. | Whatcom No. 2 (Lange No. 4)                 | Ferndale area. 650 ft. W. of E $\frac{1}{2}$ cor. sec. 28, (39-2E), on Lange farm                           | 1934     | 216   | Cable tools. Dry hole  |
| Whatcom Natural Gas Corp. | Lingbloom No. 4 (Chamber of Commerce No. 4) | Ferndale area. SE $\frac{1}{2}$ SW $\frac{1}{2}$ NW $\frac{1}{2}$ sec. 27, (39-2E), on O. H. Lingbloom farm | 1934     | 166   | Cable tools. Good gas showing at 166 ft.; used domestically. Gas analysis  |
| Whatcom Natural Gas Corp. | Chamber of Commerce No. 5                   | Ferndale area. SW. cor. sec. 27, (39-2E), on F. E. Brown farm   | 1934     | 701   | Cable tools. Poor gas showing with salt water at 696 ft. Driller's log, well cuttings                            |
| Abbotsford Oil & Gas Co.  | Beyers No. 1                                | Ferndale area. Near the SE. cor. NE $\frac{1}{2}$ NW $\frac{1}{2}$ SW $\frac{1}{2}$ sec. 27, (39-2E)        | 1934     | 238   | Cable tools. Dry hole. Driller's log   |
| Van-Bell Gas & Oil Co.    | Cowden No. 1                                | Ferndale area. Near center SE $\frac{1}{2}$ NE $\frac{1}{2}$ sec. 28, (39-2E), 75 ft. E. of Livermore No. 1 | 1934     | 390   | Cable tools. No gas; reported oil doubtful   |
| Van-Bell Gas & Oil Co.    | Cowden No. 2                                | Ferndale area. Near E $\frac{1}{2}$ cor. sec. 28, (39-2E), 200 ft. N. of Whatcom No. 1                      | 1934     | 205   | Cable tools. Dry hole  |
| Van-Bell Holding Co.      | Bettsinger No. 1 (Van-Bell No. 1)           | Ferndale area. SE $\frac{1}{2}$ NE $\frac{1}{2}$ SW $\frac{1}{2}$ sec. 27, (39-2E), on E. Bettsinger farm   | 1934     | 603   | Cable tools. Poor gas showing; reported oil showing doubtful. Salt water at 500 ft. Driller's log, well cuttings |
| A. W. Hunter              | Harden No. 1 (Hunter No. 1)                 | Ferndale area. SW. cor. NE $\frac{1}{2}$ SW $\frac{1}{2}$ sec. 27, (39-2E), on L. W. Harden farm            | 1934     | 193   | Cable tools. Good gas showing, 193 ft.; used domestically. Driller's log   |

## WHATCOM—Continued

| COMPANY                                 | WELL NAME                          | LOCATION AND ELEVATION   | SPUDED              | DEPTH     | REMARKS   |
|---|------------------------------------|--|---------------------|-----------|---|
| A. W. Hunter                            | Harden No. 2<br>(Hunter No. 2)     | Ferndale area. NW $\frac{1}{4}$ SE $\frac{1}{4}$<br>SW $\frac{1}{4}$ sec. 27, (39-2E), 650<br>ft. S. of Harden No. 1 | 1934                | 415 $\pm$ | Cable tools. Gas showing at<br>200 ft. Well cuttings  |
| A. W. Hunter                            | Hunter No. 3                       | Ferndale area. Near SE.<br>cor. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 27,<br>(39-2E)                                | 1934                | 330       | Cable tools. Good gas showing<br>at 330 ft. reported  |
| Abbotsford Oil<br>& Gas Co.; W.<br>Hale | King No. 1<br>(Hale No. 1)         | Ferndale area. SE $\frac{1}{4}$ SE $\frac{1}{4}$<br>SW $\frac{1}{4}$ sec. 27, (39-2E), on<br>C.C. King farm          | 1934                | 1,370     | Cable tools. Bottom of Pleisto-<br>cene at 342 ft. Gas showing<br>with salt water at 780-800 ft.;<br>970-1,010 ft.; 1160-1,370 ft.<br>Pressure 470 p.s.i. Driller's<br>log, gas analysis, well cuttings |
| Shale Oil & Gas<br>Co.                  | Shale Oil & Gas No. 1              | Bellingham area. SE $\frac{1}{4}$ NW $\frac{1}{4}$<br>NW $\frac{1}{4}$ sec. 3, (38-2E), on<br>Harry Brown farm       | 1934                | 251       | Cable tools. Dry hole. Driller's<br>log   |
| Van-Bell Hold-<br>ing Co.               | Holman No. 3                       | Bellingham area. SW.cor.<br>sec. 2, (38-3E), 30 ft. E.<br>of Holman No. 1  | 1934                | 151       | Cable tools. Dry hole.<br>Driller's log   |
| Covey-Baus                              | Hanson No. 1<br>(Covey-Baus No. 1) | Ferndale area. NW $\frac{1}{4}$ NE $\frac{1}{4}$<br>sec. 35, (39-2E), on Han-<br>son farm                            | 1934                | 300 $\pm$ | Cable tools. Dry hole. Well<br>cuttings   |
| (?)                                     | water well                         | Bellingham area. SW $\frac{1}{4}$ SW $\frac{1}{4}$<br>sec. 2, (38-3E)  | Prior<br>to<br>1935 | 28        | Gas showing at 28 ft.   |
| (?)                                     | Selien No. 1                       | Blaine area. Center E $\frac{1}{2}$<br>sec. 22, (40-1E), on R.<br>Selien farm  | Prior<br>to<br>1935 | 335       | Cable tools. Dry hole. Top of<br>Chuckanut 155 ft. Driller's log  |
| (?)                                     | water well                         | Ferndale area. NE $\frac{1}{4}$ NW $\frac{1}{4}$<br>sec. 6, (38-4E)  | Prior<br>to<br>1935 | 156       | Cable tools. Poor gas showing<br>with water, 156 ft.  |
| (?)                                     | diamond drill hole                 | Bellingham area. SE $\frac{1}{4}$<br>sec. 6, (38-4E)   | Prior<br>to<br>1935 | 962       | Gas showing, 495 ft. Driller's<br>log   |
| Mr. Green                               | Green water well                   | Deming area. NW $\frac{1}{4}$ sec.<br>33, (39-4E), on Green<br>farm  | Prior<br>to<br>1935 | 68+       | Cable tools. Gas showing, 68<br>ft. Gas analysis  |
| Mr. Erickson                            | Erickson water well                | Deming area. Near N.<br>line of NW $\frac{1}{4}$ sec. 33,<br>(39-4E) (?)   | Prior<br>to<br>1935 | 61        | Cable tools. Gas, 61 ft; used<br>domestically. Gas analysis   |
| Mr. Barnhart                            | Barnhart water well                | Deming area. SW $\frac{1}{4}$ sec.<br>32, (39-4E) (?) about 1 mi.<br>SW. of Erickson farm                            | Prior<br>to<br>1935 | 80+       | Cable tools. Gas showing, 80<br>ft. Deepened for water  |
| (?)                                     | water well                         | Deming area. Near S.<br>line of SW $\frac{1}{4}$ sec. 28,<br>(39-4E)   | Prior<br>to<br>1935 | (?)       | Cable tools. Gas with fresh<br>water  |

| COMPANY  | WELL NAME   | LOCATION AND ELEVATION   | SPUDED        | DEPTH  | REMARKS  |
|--|---|--|---------------|--------|--|
| (?)  | water well  | Deming area. Near center E $\frac{1}{2}$ sec. 32, (39-4E)  | Prior to 1935 | 80     | Cable tools. Fresh water and gas at 80 ft.   |
| Mr. Sinnes   | Sinnes water well   | Ferndale area. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 24, (39-2E), on Sinnes farm  | Prior to 1935 | 492    | Cable tools. Poor gas showing. Bottom of Pleistocene at 325 ft.  |
| (?)  | Livermore No. 1   | Ferndale area. Near center SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, (39-2E), about 300 ft. S. of Lange No. 1   | Prior to 1935 | 225    | Cable tools. Dry hole. Driller's log   |
| West Coast Oil & Gas Co.   | Russler No. 1   | Bellingham area. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, (39-3E) on Jennie Russler farm   | 10-21-35      | 4,175  | Cable tools. Base of Pleistocene at 57 ft. Several gas showings reported. Driller's log, well cuttings                                   |
| Dome Holdings, Ltd.  | Stewart-Hamilton  | Bellingham area. NW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, (38-3E)   | 10-6-36       | 965    | Cable tools. Base of Pleistocene at 353 ft. Dry hole. Driller's log  |
| Peoples Gas & Oil Development Co.  | Peoples No. 1 (P.G.O. Lingbloom No. 1)                          | Ferndale area. NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 27, (39-2E), on Lingbloom farm, 200 ft. NW. of Lingbloom No. 2 | 1937          | 1,085  | Cable tools. Gas at 174 and 1,044 ft.; used domestically. Base of Pleistocene at 342 ft. Well cuttings                                   |
| Peoples Gas & Oil Development Co.; Pelican Petroleum Co.                   | Peoples No. 6 (called No. 5 after original No. 5 was abandoned) | Ferndale area. SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 28, (39-2E)   | 1938          | 1,195+ | Cable tools. Several poor gas showings. Well cuttings  |
| North Coast Oil & Gas Co.  | North Coast No. 1   | Ferndale area. Near SE. cor. NE $\frac{1}{4}$ sec. 28, (39-2E) 30 ft. N. of Whatcom No. 1  | 1938          | 200±   | Cable tools. Dry hole  |
| Peoples Gas & Oil Development Co.  | Peoples No. 2 (originally Peoples No. 1)                        | Ferndale area. NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 34, (39-2E), S. of County farm  | 1938          | 1,785  | Cable tools. Bottom of Pleistocene at 240 ft. Salt water at 756 ft. Gas used domestically. Well cuttings                                 |
| Peoples Gas & Oil Development Co.  | Peoples No. 3   | Ferndale area. Near N $\frac{1}{4}$ cor. sec. 34, (39-2E)  | 1938          | 560    | Cable tools. Gas; used domestically. Well cuttings   |
| Peoples Gas & Oil Development Co.  | Peoples No. 4   | Ferndale area. NE. cor. SW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, (39-2E)  | 1938          | 880    | Cable tools. Gas, 660 ft.; used domestically. Well cuttings  |
| Peoples Gas & Oil Development Co.  | Peoples No. 5   | Ferndale area. SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, (39-2E), 650 ft. SW. of Peoples No. 4                                       | 1938          | 160    | Cable tools. Abandoned because of mechanical trouble.  |
| Peoples Gas & Oil Development Co.; Pelican Petroleum Co.; Northern Oil Co. | Pelican Dome No. 1  | Bellingham area. 200 ft. NW. of SE. cor. sec. 32, (38-3E)  | 1938          | 5,458  | Cable tools to 1,088 ft., rotary below. Gas showings at various depths. Metamorphics below 5,385 ft. Stratigraphic column, well cuttings |

## WHATCOM—Continued

| COMPANY  | WELL NAME                | LOCATION AND ELEVATION   | SPUDED   | DEPTH       | REMARKS  |
|--|--------------------------|--|----------|-------------|--|
| Standard Oil Co. of California   | Ferndale community       | Ferndale area. 330 ft. S. and 1,650 ft. W. of NE. cor. sec. 5, (39-1E)                             | 11-12-45 | 6,231       | Dry hole. Well history and log, core desc., well cuttings and cores, E log                                     |
| Pleasant Valley Gas and Oil Co.  | Hillje No. 1             | Blaine area. SW. cor. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 32, (40-1E)                           | 1947     | 432         | Cable tools. Small gas showings at 132, 170, and 400 ft. Bottom of Pleistocene at 165 ft. Gas analysis         |
| Meridian Oil Corp.   | Hillebrecht No. 1        | Ferndale area. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6, (39-3E)<br>Elev. 65 ft. topo              | 1947     | 3,492       | Gas showings at 790 and 1,200 ft. Well history, driller's log, core desc., well cuttings, E log, core analysis |
| Pleasant Valley Gas and Oil Co.  | Dahle No. 1              | Blaine area. Center SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 32, (40-1E)                             | 1950     | 380         | Cable tools (?). Good gas showing from three zones. Bottom of Pleistocene at 217 ft. Driller's log             |
| Pleasant Valley Gas and Oil Co.  | Mills No. 1              | Blaine area. SE. cor. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 31, (40-1E)                           | 1951     | 300         | Cable tools. Dry hole  |
| Puget Sound Development Co.  | Soderberg No. 1          | Ferndale area. E $\frac{1}{2}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 11, (39-1E)                  | 12-13-51 | 1,902 $\pm$ | Cable tools. Suspended. Oil reported. Salt water from near bottom. Oil analysis                                |
| Pleasant Valley Gas and Oil Co.  | Hart No. 1               | Blaine area. 330 ft. S., 330 ft. E. from W $\frac{1}{4}$ cor. sec. 33, (40-1E)                     | 1952     | 400 $\pm$   | Results unknown  |
| Pleasant Valley Gas and Oil Co.  | Dahle No. 2              | About 100 ft. NE. of Dahle No. 1   | 1952     | 204         | Cable tools. Good gas showing  |
| Pleasant Valley Gas and Oil Co.  | Hillje No. 2             | About 400 ft. NE. of Hillje No. 1  | 1952     | 356         | Cable tools. Good gas showing; used domestically   |
| Pleasant Valley Gas and Oil Co.  | Seline No. 1             | Blaine area. 640 ft. N., 480 ft. W. from E $\frac{1}{4}$ cor. sec. 32, (40-1E)                     | 1952     | 350+        | Cable tools. Poor gas showing reported   |
| Pleasant Valley Gas and Oil Co.  | Heinrich No. 1           | Blaine area. SE. cor. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 32, (40-1E)                           | 1952     | 400 $\pm$   | Cable tools. Dry hole  |
| Pleasant Valley Gas and Oil Co.  | Johnson No. 1            | Blaine area. NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, (40-1E)                   | 1952     | 400 $\pm$   | Cable tools. Poor gas showing  |
| Lynden Gas & Oil Development Co. and Pacific Gas & Oil Development Co. | Thom No. 1               | Lynden area. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 14, (40-4E)                                    | 1-5-53   | 1,173       | Cable tools. Some gas reported   |
| Evergreen Gas and Oil Co.  | Ridgeway-Heppner No. 1   | Lynden area. 50 ft. N., 400 ft. W. from SE. cor. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 1, (41-3E) | 1953     | 200-        | Abandoned because of mechanical difficulties   |
| Evergreen Gas and Oil Co.  | Ridgeway-Heppner No. 1-A | Lynden area. About 15 ft. E. of Ridgeway-Heppner No. 1.<br>Elev. 145 ft. topo                      | 1953     | 1,650       | Results unknown  |

| COMPANY                     | WELL NAME              | LOCATION AND ELEVATION   | SPUDED | DEPTH | REMARKS                                    |
|-----------------------------|------------------------|--|--------|-------|--|
| Kris Petroleum Ltd.         | Ridgeway-Heppner No. 2 | Lynden area. 55 ft. W. of Ridgeway-Heppner No. 1-A                                     | 1953   | 2,853 | Results unknown                            |
| Kris Petroleum (Wash.) Inc. | Kris Whatcom No. 1     | Delta area. 350 ft. S., 630 ft. W. from NE. cor. sec. 1, (40-2E)<br>Elev. 125 ft. topo | 4-4-55 | 5,710 | Suspended. Lith log from 960 ft. to bottom |

## YAKIMA

|                              |                         |   |               |       |   |
|------------------------------|-------------------------|---|---------------|-------|---|
| City of Mabton               | Mabton water well No. 1 | Within the city of Mabton. Elev. 718 ft. topo   | Prior to 1922 | 1,140 | Cable tools. Good gas showing with water. Stratigraphic column, gas analysis, driller's log             |
| Simcoe Oil Co.               | Simcoe No. 1            | Wapato area. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 24, (11-17E)  | 1924(?)       | 2,760 | Cable tools. Reported oil showing questionable. Flowed warm water. Well cuttings                        |
| Miocene Petroleum Co.        | Union Gap               | Yakima area. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 17-(12-19E)   | 1929          | 3,810 | Cable tools. Gas and tar-like oil showings. Driller's log, well cuttings                                |
| Denny Oil Co.                | Denny No. 1             | Wapato area. 7 mi. W. of town   | 1930          | 615   | Cable tools. Reported oil and gas showings questionable   |
| Kamiakin Oil & Gas Co.       | Laura Lee No. 1         | Grandview area. Sec. 21, (9-23E)  | 1930          | 1,230 | Cable tools. Gas showing reported   |
| Campbell Petroleum Co.       | Campbell No. 1          | Mabton area. 400 ft. NE. of Mabton water well   | 9-21-30       | 583   | Cable tools. Results unknown. Driller's log   |
| City of Mabton               | Mabton water well No. 2 | Within the city of Mabton. 100 ft. No. of Mabton water well No. 1   | 1935          | 1,188 | Cable tools. Good gas showing with water. Driller's log, stratigraphic column, well cuttings            |
| Northwestern Natural Gas Co. | Sun Valley No. 1        | Mabton area. S $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 36, (9-22E)                           | 1937          | 1,250 | Cable tools. Gas and tar-like oil reported. Driller's log, well cuttings                                |
| Mr. Denny                    | (?)                     | Near Selah  | 1939          | (?)   | Results unknown   |
| Paul John Hunt               | Snipes No. 1            | Sunnyside area. Near center sec. 33, (10-22E)   | 1944          | 1,408 | Cable tools. Gas showing. Driller's log, gas analysis, well cuttings                                    |
| E. Dewey Bailey              | Bailey No. 1            | Naches area. NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, (14-17E)<br>Elev. 1,610 ft. topo | 1946          | 446   | Water well deepened from 270 ft. Low-pressure gas at 445 ft. Driller's log, well cuttings, gas analysis |
| E. Dewey Bailey              | Bailey No. 2            | Naches area. 120 ft. E. of Bailey No. 1.<br>Elev. 1,600 ft. topo  | 1947          | 525   | Low-pressure gas at 423 ft. Driller's log, well cuttings, gas analysis                                  |

## YAKIMA—Continued

| COMPANY         | WELL NAME                    | LOCATION AND ELEVATION  | SPUDED  | DEPTH | REMARKS   |
|-----------------|------------------------------|---|---------|-------|---|
| Leo E. Harrigan | water well                   | Horse Heaven Hills<br>10 mi. ESE. of Mabton   | 1947    | (?)   | Strong gas flow at 866 ft.                          |
| Leo Oil Co.     | Phillips & Haggerty<br>No. 1 | Yakima Ridge. Approx.<br>100 ft., S., 1,000 ft. E. of<br>NW. cor. sec. 23, (13-23E)<br>Elev. 2,140 ft. topo | 3-11-55 | 1,023 | Diamond drill hole. In basalt<br>from top to bottom |

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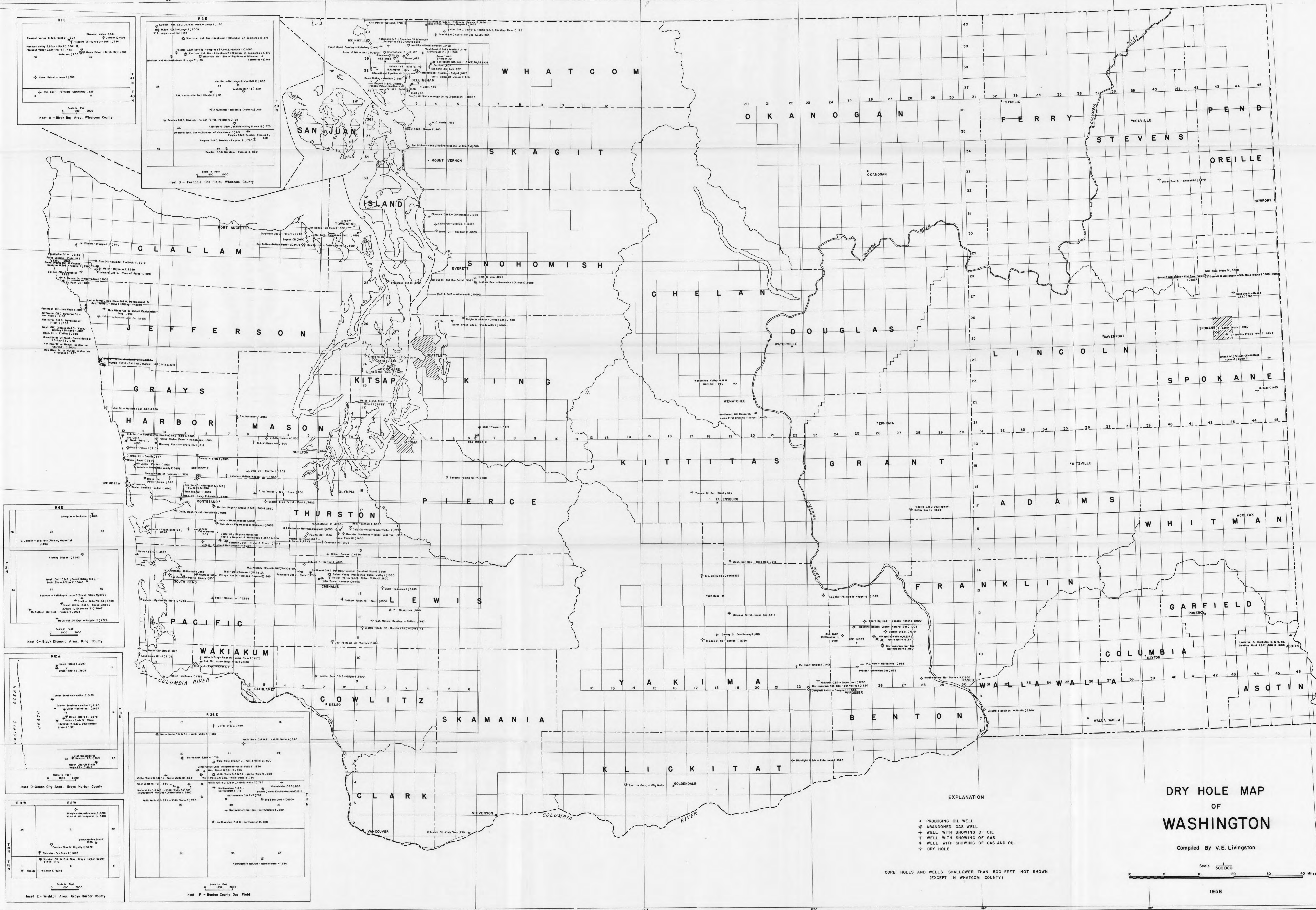
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DRY HOLE MAP  
OF  
WASHINGTON

Compiled by V.E. Livingston

Scale 1" = 50 Miles  
CORE HOLES AND WELLS SHALLOWER THAN 500 FEET NOT SHOWN  
(EXCEPT IN WHATCOM COUNTY)

