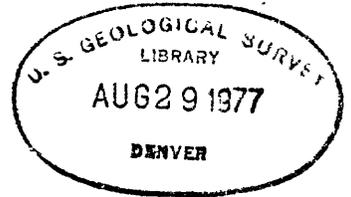


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UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY



WELL-SAMPLE AND CORE REPOSITORIES

OF THE

UNITED STATES AND CANADA

By

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This report is preliminary and
has not been edited or reviewed
for conformity with Geological
Survey standards and nomenclature.

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Introduction

Background

The original data gathering and compilation of the first index for well-sample and core repositories were done by the Committee on Preservation of Samples and Cores of the AAPG. The Committee, whose members realized the urgent need for preservation of these materials, was composed of 13 dedicated geologists of industry, academia, and government, Ralph E. Taylor, Chairman. The efforts of that group resulted in the publication of the index entitled "Sample and Core Repositories of the United States, Alaska, and Canada" in April 1957. Complimentary copies of this publication were made available to all interested individuals by Core Laboratories, Inc.

Realizing that this index was nearly 20 years old, the task of up-dating it was undertaken by the USGS. The original index provided the background data necessary to solicit new information concerning the repositories of the United States and Canada. All repositories listed in the index were contacted by mail, and the supervising officer was requested to complete a questionnaire which would provide new data on location, policies, materials available, and so forth. This new index has been expanded to include individual State policies concerning the preservation of subsurface data and rock materials. These policies, as outlined, are summaries of more detailed regulations, and an individual State agency should be contacted if more information is required. Names of repositories, which were developed subsequent to the original index, were supplied by members of the existing AAPG sample committee. Data were gathered from these facilities to make this publication as complete as possible.

An integrated nationwide repository system

The USGS, because of its relationship with State geological surveys, petroleum industry, and universities is well suited to help develop and administer a program for the establishment of a nationwide system for the preservation or cataloging of rock materials recovered from wells drilled for petroleum, mining, water, construction, waste-disposal, environmental, or other purposes. Such a program could be initiated and coordinated using existing non-commercial repositories -- State and University -- as the basic network for the system.

These existing repositories (fig. 1) have done an excellent job of maintaining sample libraries on their own initiative and at their own expense, whereas in some State areas, preservation policies have been neglected and need specific attention. Where needed, State Surveys and Universities could be given technical and financial assistance to expand their facilities. Using grants or contracts, Federal funding on a joint basis with each State could provide the support needed for these programs. The USGS would suggest standards for operation of these facilities, which would guide the use and preservation of materials and provide for a uniform and integrated index and catalog system. Using Federal funds, the USGS would develop and coordinate a nationwide, interconnecting, computerized information file of available sample and core material. Retrieval from the file would provide information on the location and nature of available materials. A nationwide repository system based on such a program would not be developed in competition with commercial repositories now involved in sample and core storage for profit, but the plan would endeavor to coordinate the function of preservation and storage of whole-core material not now being preserved by these commercial data banks.

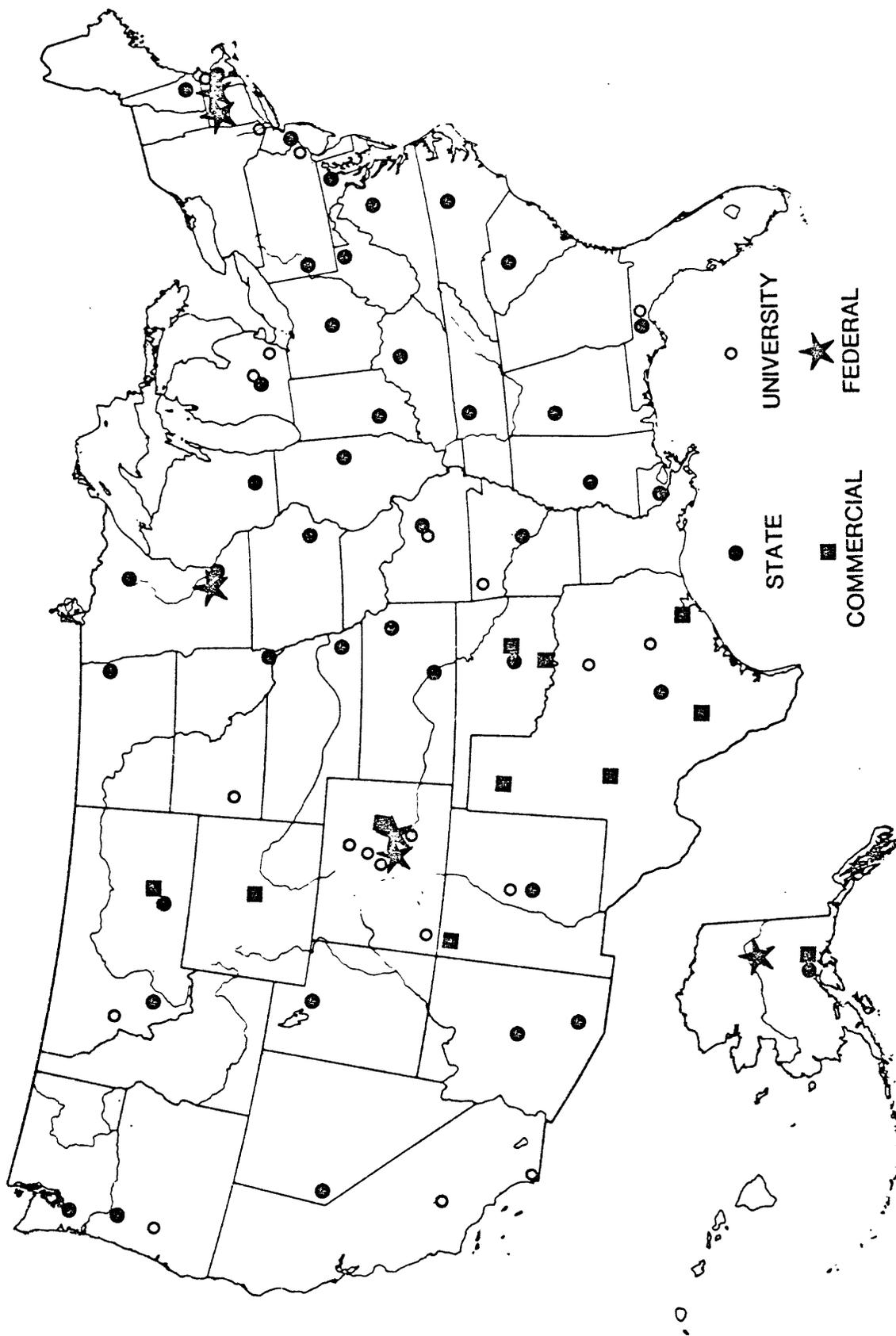


FIGURE 1.-SAMPLE AND CORE REPOSITORIES

1976

A study of the kind of rock material that has been preserved shows that full-length cores, either slabbed or full diameter, have not usually been retained. Core repositories commonly preserve $\frac{1}{2}$ -inch "core chips," which are usually taken at 1-foot intervals along the full length of the core. The complete core has not been preserved because of the expense of handling, processing, and maintenance and the volume of space required for storage. These core chips are adequate only for general determinations of rock type and often are useless for measurements related to secondary and tertiary recovery. Therefore, the prime concern of this plan should be to support, improve, or establish, where needed, well sample and core libraries in which to preserve full-length cores and make them readily available as a source of basic physical and chemical data for studies and research required to fully develop the national energy base. The U.S. Geological Survey would like to encourage and participate in the development of an integrated nationwide repository system.

Acknowledgments

We wish to recognize the original work done by the AAPG Committee on Preservation of Well Samples and Cores. Their publication of April 1957 provided the essential background data for the new up-date index; and, if it had not been available, the task would have been extremely difficult. That Committee was composed of R. E. Taylor, Chairman, and Elwood Atherton, O. L. Bandy, F. W. Beales, H. H. Bybee, J. H. Clement, J. C. Hazzard, L. W. Hough, R. L. Miller, J. G. Mitchell, J. R. Pow, C. D. Smith, and H. S. Thomas. Appreciation is also expressed to John F. Harris, chairman of the present AAPG Committee, for his enthusiastic support of this index and his continued expression of urgency in the completion of the project.

UNITED STATES

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- State Oil and Gas Board - Rule B-5 of regulations require "a complete set of cuttings or cores, if taken, correctly labeled and identified as to depth, shall be filed with the Supervisor within six (6) months after completion or abandonment of every such well". It is a policy of the Board to request and require such on every well drilled in the State of Alabama.

Alabama Geological Survey - It is a policy of the Alabama Water Wells Standards Board to require its' members to collect cuttings and cores and, upon request of the State Geologist, to supply cuttings and complete reports for water wells drilled in the State to the Survey.

B. DOCUMENTS

Rule B-5 states that "during the drilling of every well, except seismic, core, or other wells drilled for geological data, the owner, operator, contractor, driller or other person responsible for the conduct of drilling operations, shall keep at the well a detailed and accurate record of the well, ---". The rule further states "the well record shall describe progressively the strata, water, oil or gas encountered in drilling a well with such additional information as to gas volumes, pressures, rate of fill-up, water depth, casing strata, casing record, shooting, perforating, chemical treatment, etc. as are usually recorded in the normal procedure of drilling." And "any electrical logging or surveying of the well shall also be recorded and copy be furnished to the Board within thirty (30) days after completion".

C. CONFIDENTIAL PERIOD

Well logs, electrical logs, cuttings, cores and all well records shall be kept confidential if the operator so requests in writing for a period to be determined by the Board, but not less than six (6) months after the filing of the log or cutting or cores. In addition, confidentiality may further be requested for an additional six (6) months.

The above regulations primarily concern the drilling for oil or gas.

REPOSITORY NAME

Geological Survey of Alabama and State Oil and Gas Board

Location, Telephone

State Oil and Gas Board Building
University of Alabama Campus
Tuscaloosa, AL 35486

Correspondence to: P.O. Drawer 0, University Alabama 35486
Telephone: (205) 349-2852

Organization

The Sample and Core Library is a cooperative effort of the Geological Survey of Alabama and State Oil and Gas Board under Philip E. LaMoreaux, State Geologist and Oil and Gas Supervisor. The submittal of representative drill cutting samples and cores from oil and gas test wells is required by law. Drill cutting samples from water wells are submitted upon request of the State Geologist. The Sample and Core Library is supervised by Charles W. Copeland, Chief, Geologic Division.

Storage Methods

Washed and unwashed cuts of the drill cuttings are stored in coin and sand sample envelopes in standard cutting file boxes that are identified by file number, operator and well name, county, State Oil and Gas Board permit number and contained sample intervals. Cutting samples and cores are stored in appropriate containers on steel shelving. Cross-referenced card file indexes of all stored materials are maintained.

Availability; Policies Of Use

Cutting samples and core materials are available for study during regular office hours in the State Oil and Gas Board Building and associated warehouse facilities. A few hours advance notice of visit is recommended.

Examination Facilities/Equipment

Laboratory space, microscopes, lamps and common reagents are provided.

Extent of Coverage

Sample and Core Library contains materials from 2000 oil test wells, 1800 water wells and 500 miscellaneous stratigraphic test holes and mineral exploration bore holes. The samples are from throughout the State and date back to 1904.

OUT-OF-STATE REPOSITORIES

Mississippi Geological Economic & Topographical Survey - See Mississippi
Petro-Core Service Company - See Texas
Virginia Polytechnic Institute & State University - See Virginia
U.S. Bureau of Mines - See Minnesota

PRIVATE REPOSITORIES

Amoco Production Company - New Orleans, LA
Cities Service Oil Company - Jackson, MS
Cities Service Oil Company - Tulsa, OK
Continental Oil Company - Ponca City, OK

PRIVATE REPOSITORIES (contd.)

Exxon Company, USA - Houston, TX
Getty Oil Company - New Orleans, LA
Gulf Oil Company - New Orleans, LA
Mobil Oil Corporation - Houston, TX
Murphy Oil Company - El Dorado, AR
Shell Oil Company - New Orleans, LA
Texaco, Inc. - New Orleans, LA
Union Oil Company of California - Houston, TX

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings -- Whenever required by the Oil and Gas Conservation Committee (usually only on exploratory wells) a well operator must submit a washed and dried set of legibly labeled samples of all well cuttings caught by the operator. The samples must be caught in accordance with good geological practices or as specified on the Permit to Drill. This material must be submitted within thirty (30) days after the well is suspended, completed or abandoned.

Cores -- Core chips taken from each foot of recovered core shall be submitted within thirty (30) days after the well is suspended, completed or abandoned.

B. DOCUMENTS

Mud log or lithology log and all electrical logs run (except experimental logs, dipmeter surveys and velocity surveys). A completion report including DST records and cored intervals are required to be submitted within thirty (30) days after the well is suspended, completed or abandoned.

C. CONFIDENTIAL PERIOD

Twenty-four (24) months for all materials.

REPOSITORY NAME

State of Alaska, Division of Oil and Gas

Location, Telephone

3001 Porcupine Drive
Anchorage, AK 99501

Telephone: (907) 279-1433

Organization

A public service of the State Division of Oil and Gas, Department of Natural Resources.

Storage Methods

Washed and dried well cuttings recovered from exploratory wells are indexed and filed in cardboard boxes. When cores are taken, a chip representative of each foot recovered is maintained with the cuttings. A catalog is available free-of-charge at the above address.

Availability; Policies Of Use

State regulations provide for a period of twenty-four (24) months confidentiality following the well completion. Upon release, all material must be examined in the Anchorage office between the hours of 8:00 a.m. and 4:30 p.m. There is no charge.

Examination Facilities/Equipment

Chairs, tables and electricity are provided in heated, lighted office space.

Extent of Coverage

Entire State except N.P.R. 4. Approximately 320 sets are available.

Remarks

Foraminifera, palynology, nannonplankton, maturation slides and thin sections of ditch samples and core chips are available for study in our offices for selected wells. Catalog available at above address.

REPOSITORY NAME

American Stratigraphic Company

Location, Telephone

4540 Business Park Road
Anchorage, AK 99503

Telephone: (907) 277-3122

Organization

Established in 1947 as the Denver Sample Log Company in Golden, Colorado, the Company now has its home office in Denver, Colorado. The office in Anchorage was opened in 1960 to provide diversified services to the minerals industry. Sample processing and library services have been offered since the establishment of this office with special processing and cutting services included to satisfy unique or proprietary situations.

Storage Methods

Well cuttings and core chips are packaged in 3" x 5" tin tie envelopes and stored in cardboard boxes on wooden shelves. Each well is indexed with a unique file number. A card index of all available material is maintained by well location.

Availability; Policies Of Use

Well cuttings are available on a rental basis. The current fee is \$12.00 per box for thirty (30) days, minimum \$20.00 per well, plus shipping charges.

Examination Facilities/Equipment Available

No examination facilities or microscopes are available. A table may be provided for a short period if requested in advance.

Extent of Coverage

The State of Alaska including off-shore areas. There are 250 wells in the library system.

REPOSITORY NAME

USGS Coreshed

Location, Telephone

Railroad Industrial Area
Fairbanks, AK

(Note: In the near future this core material will be moved to Anchorage)

For Information Contact

Geologist-in-charge
Branch of Alaskan Geology
U.S. Geological Survey
Box 80586
College, AK 99701

or

Thomas Ovenshine
Branch of Alaskan Geology
U. S. Geological Survey
345 Middlefield Road
Menlo Park, CA

Telephone: (907) 479-7245

(415) 323-8111

Organization

The coreshed was established in about 1947 and is operated by the U.S. Geological Survey, Branch of Alaskan Geology; responsible persons listed above.

Storage Methods

Washed cuttings are stored in glass vials or paper envelopes and cores are contained in wooden boxes. Index to material is available locally.

Availability; Policies of Use

Naval Petroleum Reserve No. 4 material is on "open file" and is available to the general public. Material from privately drilled wells is available for internal USGS use only. Arrangements to examine the open file can be made by contacting the Geologist-in-charge at the College office listed above.

Examination Facilities/Equipment

Cores may be examined on tables in the coreshed. Washed samples may be taken to the College office for microscopic examination. Because of the lack of heat and water in the coreshed, winter examination is not recommended.

Extent of Coverage

Approximately 55,000 feet of core and 144,000 feet of cutting samples obtained by drilling in Naval Petroleum Reserve No. 4 in northern Alaska from 1944 through 1953 are included in the collection. Also, samples from shot holes, some picked fossils, reports, logs, descriptions and porosity and permeability data are available. In addition, many samples washed and unwashed, of privately drilled test wells in Alaska are stored.

OUT-OF-STATE REPOSITORIES

None

PRIVATE REPOSITORIES

Amoco Production Company - Denver, CO
Atlantic Richfield Company - Anchorage, AK
British Petroleum - Anchorage, AK
Cities Service Oil Co. - Tulsa, OK
Continental Oil Co. - Ponca City, OK
Exxon Oil Co., USA - Denver, CO
Marathon Oil Co. - Littleton, CO
Phillips Petroleum - Bartlesville, OK
Shell Oil Co. - Bakersfield, CA
Sun Oil Co. - Richardson, TX
Texaco, Inc. - Los Angeles, CA
Union Oil Co. of California - Santa Fe Springs, CA
Western Operations, Inc. (Standard of California) - Richmond, CA

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- Samples at a maximum interval of ten (10) feet and representative core chips shall be furnished to the Oil and Gas Conservation Commission within twenty (20) days of the completion or abandonment of the well from which said samples were taken. All samples and cores for the Commission shall be handled as follows:

1. All samples shall be properly washed and dried
2. An amount, the equivalent of two tablespoons, of each sample shall be placed in envelopes or other suitable wrapping and clearly identified as to the depth at which it was taken.
3. Samples shall be properly packaged for transporting in a manner that will protect the individual samples; each pack of samples shall contain the identification of the well from which the samples originated, the complete location of the well and Commission's permit number.
4. Samples of all wells shall be shipped or mailed, charges prepaid, to: Oil & Gas Conservation Commission, Phoenix Office. And to: Arizona Bureau of Mines, University of Arizona, Tucson, AZ 85721.

B. DOCUMENTS

A completion report on a form prescribed by the Commission (Form 4) shall be filed with the Commission within thirty (30) days after the completion of a well. Immediately thereafter the Commission shall, if such a well is a producing well, classify the well as an oil well or a gas well. All logs and surveys of any description, if taken, and drillers' logs, certified as to their correctness, shall be filed within thirty (30) days after the completion of any well drilled.

C. CONFIDENTIAL PERIOD

Rock samples -- Samples which the operator desires to keep confidential may be furnished to the Commission at its office within six (6) months after completion or abandonment of the well. The Commission may, at its discretion, grant an operator an additional six (6) months' confidentiality period for holes drilled expressly for stratigraphic information.

Documents -- Upon request, the Commission shall keep electrical surveys or logs confidential for a period not exceeding six (6) months from the date of completion of the well. If such electrical and radioactive logs are not run, the drillers' log shall be provided the Commission. The Commission may, at its discretion, grant an operator an additional six (6) months' confidentiality period for holes drilled expressly for stratigraphic information.

Geothermal resource exploration -- If requested by operator, the Commission shall keep rock samples and documents confidential for a period not exceeding two (2) years from the date of completion of the well.

REPOSITORY NAME

Arizona Bureau of Mines

Location, Telephone

University of Arizona
Tucson, AZ 85721

Telephone: (602) 884-2733

Organization

Well cuttings stored in this facility were originally maintained in a library by the U.S. Geological Survey, Tucson. Regulations now require a set of cuttings from wells drilled for oil, gas, helium, potash, salt and geothermal resources be submitted to the Bureau of Mines and the Oil and Gas Commission, Phoenix. Water well cuttings are stored when received from the USGS, City of Tucson and Department of Soils, Water and Engineering of the University.

Storage Methods

Well cuttings are kept in small clear plastic bottles and stored in cabinet drawers. Full cores are not required, however, representative core chips are required on all oil, gas, helium and geothermal wells. In some cases, representative partial core segments are kept. Limited space requires considerable discrimination in the selection of core material. A card file is maintained and an index is available which covers most material.

Availability; Policies of Use

All sample materials are available for study by any interested party. Particularly, studies by graduate students are encouraged. Samples may be studied on the premises. On special request, samples may be shipped but not as a matter of policy. As a permanent library facility, this agency endeavors to protect sample materials from unnecessary destructive methods of use.

Examination Facilities/Equipment

An examination room with furniture is available. Binocular microscopes and lights are available on a limited basis.

Extent of Coverage

All wells drilled for oil, gas, helium and geothermal resources in the State of Arizona. Most of these are on the plateau area of northern Arizona. Cuttings from water wells are scattered throughout the State with concentrations in the urban and agricultural areas. There are sample sets from approximately 800 oil, gas, etc. wells and 3000 water wells.

Remarks

Repositories formerly maintained at the Museum of Northern Arizona and the State Land Dept. have been closed.

REPOSITORY NAME

Arizona Oil and Gas Conservation Commission

Location, Telephone

8686 North Central Avenue
Phoenix, AZ 85020

Telephone: (602) 271-5161

Organization

Since 1970 this agency has been one of two repositories in the State for samples of cores and cuttings. The rules and regulations of the Commission require that samples of cores and cuttings of all wells drilled for oil, natural gas, helium, potash, salt, and geothermal resources, and wells drilled for structural or stratigraphic information (maximum interval of 10 feet) shall be furnished to the Commission and the Arizona Bureau of Mines. Samples of cores and cuttings of oil and gas test wells and water wells previously in the repository maintained by the Museum of Northern Arizona, Flagstaff, Arizona, are now in the repository maintained by the Commission.

Storage Methods

Well cuttings and core chips are preserved in glass bottles (older wells) and in sample envelopes which are kept in cardboard boxes filed on steel shelving. Indexes of samples and cuttings of wells drilled in Arizona, southwestern Colorado, northwestern New Mexico, and southeastern Utah are available from the Commission.

Also, a repository is maintained by the Bureau of Mines, at the University of Arizona which contains core chips and cuttings of numerous wildcat wells in Arizona.

Availability; Policies of Use

Samples must be examined during the hours of 9:00 a.m. to 5:00 p.m. Mondays through Fridays at the offices of the Commission. In the case of duplicate sets of samples, however, arrangements may be made for off-premises examination. For off-premises examination the borrower must agree that the samples will not be cut, contaminated, or damaged and that all expenses, postage or express charges will be paid.

Examination Facilities/Equipment

An examination room with furniture is provided. If needed, a binocular microscope and light can be furnished.

Extent of Coverage

State of Arizona and those portions of Colorado, New Mexico, and Utah within the Four Corners area.

Arizona: Cuttings and core chips

Wells drilled for oil, natural gas, helium, and geothermal resources, for information pertaining to stratigraphy, structure, potash, halite, helium, and aquifers approximately 450. Wells drilled for water in the Colorado Plateau province approximately 360.

Adjacent States of Four Corners area: Wells drilled for oil and gasapproximately 360.

Full Diameter Cores: Potash core holes, Permian evaporite basin, south-central Apache and Navajo Counties, Arizona, 39 holes, approximately 8,050 linear feet of core.

OUT-OF-STATE REPOSITORIES

American Stratigraphic Company - See Colorado
Four Corners Sample Cut Association - See New Mexico
U.S. Bureau of Mines - See Colorado

PRIVATE REPOSITORIES

Amoco Production Co. - Denver, CO
Atlantic Richfield Co. - Denver, CO
Cities Service Oil Co. - Tulsa, OK
Continental Oil Co. - Ponca City, OK
El Paso Natural Gas Co. - Farmington, NM
Exxon Company, USA - Denver, CO
Phillips Petroleum Co. - Bartlesville, OK
Shell Oil Co. - Denver, CO
Sun Oil Co. - Richardson, TX
Superior Oil Co. - Midland, TX
Tenneco Oil Co. - Denver, CO
Texaco, Inc. - Denver, CO
Union Oil Co. of California - Casper, WY
Bear Creek Mining Co. - 2502 N. Huachuca Dr., Tucson, AZ 85705
Hanna (Coastal) Mining Co. - 3539 - 41 E. Speedway Blvd., Tucson, AZ 85716

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- There are no regulations requiring these materials to be filed with any State agency. The Arkansas Geological Commission maintains a library of cuttings and some core from voluntary contributions.

B. DOCUMENTS

It is not required that an electric log be run, but if one is, a copy must be filed with the Arkansas Oil and Gas Commission, El Dorado, Arkansas. These logs then become a public record and can be examined or copied by any interested party.

C. CONFIDENTIAL PERIOD

Rock samples - - None

Documents - - Ninety (90) days if requested for electric logs filed with the Arkansas Oil and Gas Commission.

REPOSITORY NAME

Arkansas Geological Commission

Location, Telephone

3815 West Roosevelt Road
Little Rock, AR 72204

Telephone: (501) 371-1488

Organization

Established as a part of the activities of the Arkansas Geological Commission which is the responsible group. It is operated at no charge to the user.

Storage Methods

Well cuttings are preserved in sample envelopes which are kept in cardboard boxes filed on steel or wooden shelving. Samples are washed and cut at the State Laboratory. Duplicate sets of samples are saved where sample volume permits. With few exceptions the samples on file are available for loan. Express charges both ways are assumed by the organization borrowing the samples. Most cores on file are in the form of chips.

Availability: Policies of Use

All samples are available for examination at the sample library. When duplicate samples are available they may be shipped to responsible applicants.

Examination Facilities/Equipment

Laboratory facilities are available for sample examination.

Extent of Coverage

Samples are limited to Arkansas with 1932 wells on file.

REPOSITORY NAME

Department of Geology

Location, Telephone

University of Arkansas
Fayetteville, AR 72701

Telephone: (501) 575-3355

Organization

Well cuttings have been contributed by various oil companies. Primarily samples are used for teaching petroleum geology.

Storage Methods

Well cuttings are kept in paper envelopes and stored in cardboard boxes in basement of Geology Building. The limited number of wells does not require an elaborate catalog system.

Availability: Policies Of Use

Available to all interested students and general public.

Examination Facilities/Equipment

Standard student microscopes can be made available. There are no special facilities.

Extent of Coverage

Approximately 350 wells in southern Arkansas. On many wells only partial sample sets are available.

Remarks

This facility is not an operating sample repository. The Arkansas Geological Commission, Little Rock, is established as a repository and maintains a catalog of wells available.

OUT-OF-STATE-REPOSITORIES

U.S. Bureau of Mines - See Minnesota

PRIVATE REPOSITORIES

Amoco Production Co. - Ft. Worth, TX

Cities Service Oil Co. - Tulsa, OK

Continental Oil Co. - Ponca City, OK

Exxon Company, USA - Tyler, TX

McAlester Fuel Company - P.O. Box 10, Magnolia, AR 71753

Murphy Oil Company - 200 N. Jefferson, El Dorado, AR 71730

Shell Oil Co. - Midland, TX

Shell Oil Co. - New Orleans, LA

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
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A. ROCK MATERIALS

Cuttings/cores -- There are no regulations requiring these materials to be filed with any State agency.

B. DOCUMENTS

Sections 3210 through 3216 of Division 3 California Public Resources Code requires that complete and accurate records be kept and filed with the Division of Oil and Gas. The code states in part "upon the completion or abandonment of any well, true copies of the log, core record and history and if made, true and reproducible copies of all electrical, physical, or chemical logs, tests, or surveys in duplicate and in such form as the supervisor may approve shall be filed".

C. CONFIDENTIAL PERIOD

Rock Samples -- None

Documents -- Presently confidential unless released by operator. New law in effect January 1, 1976, will open all records except some offshore and geothermal two (2) years after completion or abandonment.

REPOSITORY NAME

California Well Sample Repository

Location, Telephone

California State College, Bakersfield
9002 Stockdale Highway
Bakersfield, CA 93309

Telephone: (805) 833-2221

Organization

The well sample and core repository was established in 1975 as a result of the cooperative efforts and financing of the Western Oil and Gas Association, the California State College at Bakersfield, California State Agencies, and the U.S. Geological Survey. It is located on the campus of the California State College, Bakersfield and is operated and administered by the CSCB Foundation.

An Advisory Board, composed of representatives from industry, professional societies, college faculty and administration, private education and the State of California will advise the Project Director on general policy regarding by-laws, fund raising, collecting, and storage of materials, user fees, personnel and general use and operation.

The repository is housed in a 60'x100' metal building which includes office space and an examination room equipped with work tables. Core materials and well samples have been contributed by the petroleum industry from existing libraries. The repository will accept non-confidential currently drilled wells.

Storage Methods

At the time of data gathering and the compilation of this Index, it was anticipated that core storage would be on wooden shelving contributed by the industry. The materials will be retained in the original boxes until such time as funding and operational procedure should permit the establishment of standardization of boxes and metal shelving.

An index card file will be developed as core and sample material is recieved. From this file, it is planned to produce a catalog of available material which can be up-dated yearly.

Availability: Policies of Use

All core and sample material received by the repository will be available for study by geoscientists of industry, academia and government. A daily fee will be established and will apply to all users except properly identified and qualified students. All material is to be examined at the repository during established hours. Repository policies regarding confidentiality of contributed material will be established by the Advisory Board in accordance with legislation enacted by the State.

Examination Facilities/Equipment

The amount and type of equipment will be limited in the first stages of repository development. As the facility progresses and funding improves, available equipment for users will be increased. An examination room will be maintained and made available on a continuing basis.

Extent of Coverage

Well sample and core material from the State of California will be maintained. As the facility expands, significant outcrop material will be added to provide representative stratigraphic sequences of the State.

When drilling expands off-shore, this repository will expand its scope to include outer continental shelf materials of the west coast area.

Remarks

This new repository building was dedicated in March 1976. Policies and regulations for the initial operation of the facility have been developed and permanent policies will be formulated through the experience of operation.

REPOSITORY NAME

Department of Geology & Geophysics
Museum of Geology

Location, Telephone

Earth Science Building
University of California
Berkeley, CA 94720

Telephone: (415) 642-4330

Organization

The Museum of Geology is a small research museum within the Department of Geology & Geophysics. The museum geologist is responsible for all cataloging and organization. Interested researchers must contact the museum geologist, in advance at (415) 642-4330, room 349, Earth Sciences Building.

Storage Methods

Samples are stored in cardboard trays in drawers. Well cores are not indexed separately from other research specimens since they make up a very small part of the research material. Present indexing is by collector, area, and rock type.

Availability: Policies of Use

Samples are generally available for study by qualified researchers. Priority is given to persons associated with the department.

Examination Facilities/Equipment

The department does not have facilities for use by outside researchers.

Extent of Coverage

Unknown. Estimated coverage is approximately ten areas in California and a few miscellaneous areas (some published).

REPOSITORY NAME

Department of Geological Sciences
University of Southern California

Remarks

All well sample and core materials maintained in this repository have been transferred to the California Well Sample Repository at the California State College, Bakersfield. The move of this material took place in late 1975 or early 1976.

OUT-OF-STATE REPOSITORIES

U.S. Bureau of Mines - See Colorado
Harvard University - See Massachusetts
University of Texas, Arlington - See Texas

PRIVATE REPOSITORIES

Amoco Production Company - Denver, CO
Atlantic Richfield Company - 4121 South "H" Street, P.O. Box 147, Bakersfield,
CA 93302
Cities Service Oil Company - Tulsa, OK
Continental Oil Company - Ponca City, OK
Exxon Company, USA - (Bakersfield) Contact: Box 120, Denver, CO 80201
Marathon Oil Company - Littleton, CO
Mobil Oil Corporation - Sample Warehouse, 10737 Shamrock, Santa Fe Springs, CA
90670
Phillips Petroleum Company - Bartlesville, OK
Shell Oil Company - 1600 Norris Rd., Bakersfield, CA 93300
Sun Oil Company - Richardson, TX
Texaco, Inc. - Geological Laboratory, 3350 Wilshire Blvd. Los Angeles, CA 90010
Union Oil Co. of California - Regional Paleontologist, Box 2212, Santa Fe Springs,
CA 90670
Facilities: Orcutt, Bakersfield, Compton, Santa Fe Springs

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- There are no regulations requiring these materials to be filed with any State agency.

B. DOCUMENTS

The Oil and Gas Conservation Commission requires a well completion or recompletion report and logs (includes mechanical logs, drillers' logs DST reports, formation tops) be filed within thirty (30) days. Fluid analysis records, mud logs, sample and core descriptions, etc. are optional.

C. CONFIDENTIAL PERIOD

Rock materials -- None

Documents -- Upon request logs of exploratory or wildcat wells will be held confidential for six (6) months after filing.

REPOSITORY NAME

American Stratigraphic Company

Location, Telephone

6280 E. 39th Avenue
Denver, CO 80207

Telephone: (303) 399-2746

Organization

Established in 1947 as the Denver Sample Log Company in Golden, Colorado, the Company now has its southern Rocky Mountain and home office in Denver. The northern Rocky Mountain area is served by offices in Casper, Wyoming and Billings, Montana. All three offices have well sample libraries and two of these offices have sample processing services. A subsidiary, the Canadian Stratigraphic Service Ltd. in Calgary, Alberta, does not maintain a sample library or processing service.

Storage Methods

Well cuttings and core chips are washed and packaged in 3" x 5" tin-tie envelopes and stored in cardboard boxes on wooden shelves. Each well is indexed with a unique file number and a card index of all available material is maintained by well location.

A processing fee of 1½ cents per drilled foot is charged each operator for a permanent cut of samples to be placed in the library. Also, sets of cuttings are obtained from the Four Corners Sample Cut Association.

Availability: Policies of Use

Samples are available on a rental basis. The current fee is \$8.50 per box, plus shipping charges for a thirty (30) day period with a minimum charge of \$15.00.

Examination Facilities/Equipment

No examination facilities or microscopes are available. With sufficient notice, a table may be provided for a short period of time.

Extent of Coverage

This library facility contains sets of cuttings as follows: Arizona - 350, Colorado - 8100, Kansas - 13, Nebraska - 2700, Nevada - 57, New Mexico - 800, Utah - 1800.

REPOSITORY NAME

Geology Department

Location, Telephone

Colorado College
Colorado Springs, CO 80903

Telephone: (303) 473-2233

Organization

The Geology Department established this library for use primarily in academic work. These materials have been contributed over a period of many years. The Department maintains this facility and can make these materials available to other interested parties. John H. Lewis is Chairman, Department of Geology.

Storage Methods

Samples are stored in envelopes filed in cardboard boxes. The boxes are kept in the geology department storage area in the basement of Palmer Hall on the Colorado College campus. A part of the samples are stored unwashed. No card file is available.

Availability: Policies of Use

Materials may be borrowed upon request to the Chairman, Department of Geology.

Examination Facilities/Equipment

Laboratory or examination space is limited and its availability will depend on the time of year.

Extent of Coverage

These sets of cuttings represent scattered wells throughout the Rocky Mountain Region. There are approximately 40 wells mostly from Colorado, Wyoming and Montana.

REPOSITORY NAME

Colorado School of Mines Well Sample and Core Library

Location, Telephone

Colorado School of Mines
Berthoud Hall & Green Center
Golden, CO 80401

Telephone: (303) 279-0300

Organization

This repository has been developed over a period of many years from materials contributed by Industry. It is primarily for academic use, however no charge is made for examination of samples by other parties. The examiner is requested to check with Geology Department Secretary, Berthoud Hall. The well location cards are retained in the Geology Department and in the Green Center core library.

Storage Methods

Older sample cuttings are filed in cardboard vials - 80 to a box. The newer samples are filed in standard paper envelopes. Slabbed cores are stored in cardboard boxes. The Colorado School of Mines lists these wells in the catalog of their sample library. This catalog is titled "LIST OF WELLS, WELL SAMPLE COLLECTION, THE COLORADO SCHOOL OF MINES, GOLDEN, COLORADO." Samples on 430 Wyoming wells are included in the collection.

Availability: Policies of Use

All material is available for examination by qualified individuals. To arrange access to the cuttings and cores all examiners are requested to obtain permission from the Secretary, Department of Geology, Berthoud Hall.

Examination Facilities/Equipment

The examiner must supply his own microscope and lamp. Working space is available.

Extent of Coverage

The samples are from wells in New Mexico, Colorado, Wyoming, Montana, and the Dakotas. Over 1,800 wells are involved. Core, mostly Cretaceous, are from 195 Colorado and 47 Wyoming wells.

Remarks

The entire sample-cuttings library of the Midwest Refining Company was presented to the Colorado School of Mines, Golden, Colorado, at the time of dissolution of that company in 1930. The Midwest Refining Company had drilling operations in most of the Rocky Mountain states, including Wyoming, and collected samples from other companies' wells in addition to saving cuttings from their own wells.

REPOSITORY NAME

Department of Earth Resources

Location, Telephone

Colorado State University
Fort Collins, CO 80523

Telephone: (303) 491-6307

Organization

Informally established in the 1960's with cores and cuttings from Rocky Mountain states provided by American Stratigraphic Company, Sunray DX Oil Company, and Phillips Petroleum Co. The Dept. of Earth Resources, Geology Programs Section, is responsible for the materials which are used primarily for instruction and graduate research.

Storage Methods

Cuttings are stored, filed and are accessible for use. Cores presently are stored but not readily accessible because of temporary University storage problems.

Availability: Policies of Use

No formal policies for use. Samples have been used on campus but no restrictions are envisioned for use off campus with proper credentials and checkout.

Examination Facilities/Equipment

Space and microscopes available.

Extent of Coverage

Representative cuttings and cores from Rocky Mountain states. Extensive collection of cuttings from numerous Cenozoic borings in southeastern Wyoming.

REPOSITORY NAME

Department of Geological Sciences

Location, Telephone

University of Colorado
Boulder, CO 80302

Telephone: (303) 492-8141

Organization

This repository established for teaching purposes and has had a limited development because of space limitations. Materials are available to outside professional geologists upon request. The Department will grant permission for examiners to use the samples and cores in the Department..

Storage Methods

Shelf storage is by state and county. There is no up-to-date catalog or index.

Availability: Policies of Use

The department is willing to lend sample sets from its collection to professional geologists for examination in the department. Examiners must provide personal microscope, lamp, and other equipment; and must be responsible for bringing samples from the storage warehouse (about 1½ miles away) to the department and returning samples to the warehouse. Samples cannot be taken out of the department.

Examination Facilities/Equipment

No special facilities available. Department will try to provide space in laboratory for work, but cannot guarantee free space without advance notice of at least a week. No equipment is available.

Extent of Coverage

Rocky Mountain Region -- about 400 sample sets. Mostly old wells with very few cores. Space limitations require the Department to be selective in accepting cuttings/cores from new wells.

REPOSITORY NAME

Department of Geology

Location, Telephone

Fort Lewis College
Durango, CO 81301

Telephone: (303) 247-7767

Organization

In the 1960's the Department of Geology was given a large collection of cores, cuttings and well logs by several of the oil companies in the Four Corners area. These have been maintained as a teaching and research library for the students. Limited space requires selection of new material.

Storage Methods

Cuttings are kept in paper envelopes stored in cardboard boxes on wooden shelves, cataloged with a card file by township and range and shelf location.

Availability: Policies of Use

Available to all qualified investigators.

Examination Facilities/Equipment

Very limited work area. No equipment.

Extent of Coverage

Generally that portion of Arizona, Colorado, New Mexico and Utah which is considered to be the Four Corners area. There are approximately 1,000 wells.

REPOSITORY NAME

U. S. Bureau of Mines Core Library

Location, Telephone

Intermountain Field Operation Center
Building 20
Denver Federal Center
Denver, CO 80225

Telephone: (303) 234-3918

Organization

Core library maintained by Intermountain Field Operation Center of the Bureau of Mines. The library is under the supervision of C. N. Speltz, who works under Raymond L. Lowrie, Chief, IFOC.

The library offers study material in the form of drill core from the Western States. Core from the Eastern and Central States is at the Bureau of Mines core library at Minneapolis.

Storage Methods

Core is stored in large metal racks requiring a fork lift and at least two laborers for removal and inspection.

A card catalog/index is maintained in the offices of the Intermountain Field Operation Center. No public index, catalog, or publication is available.

Availability: Policies of Use

Core is available for study by anyone having a bona fide interest in the property. Persons examining core must provide labor to help remove core boxes from storage, open and close boxes, and replace them after examination. Sampling of core is not permitted.

Examination Facilities/Equipment

Limited work space is available. There is no equipment.

Extent of Coverage

In excess of 525,000 feet from various Western States.

Remarks

The core library, although not particularly well adapted to the users, is available on request. Bureau of Mines is considering what it should do about its core libraries at Denver and Minneapolis. Possibly some combination of effort with the Geological Survey might be acceptable.

REPOSITORY NAME

USGS Energy Resources Core Library

Location, Telephone

418 Orchard Street
Golden, CO 80401

Correspondence to: Box 25046 MS 940
Denver Federal Center
Denver, CO 80225

Telephone: (303) 234-2328 or 234-5105

Organization

This repository was established in 1974 through the Branch of Oil and Gas Resources. Funding for the continued operation is by a limited budget within the Oil and Gas Branch. Primarily this facility will provide a storage repository for all core material which is not required by individual State Agencies within the Rocky Mountain area. All materials are available to qualified geoscience investigators.

Storage Methods

All material stored in the permanent core file is slabbed and arranged in three tray cardboard boxes which are 11½" x 40" x 1½". Each box will hold 10 feet or 3 meters of core material. The boxes are taped and filed on edge on metal shelves. A card index system is maintained by state, township and range filing. Each well given a unique number for storage location. A catalog is not yet available.

Several hundred other cores are stored on palets in "bulk storage" area. These will be processed and placed in the permanent file as time permits. All slabbed core will be photographed and 8x10 prints will be available at cost.

Availability: Policies of Use

All material is available for examination unless a written request is made to retain a core as confidential for a period of one (1) year. Any core held in bulk storage will be processed for examination upon request.

The permanent file material is available for examination but not sampling. The Core Library has established rules for operation which are available to each user. All core material placed in the permanent file is the property of the Core Library.

Examination Facilities/Equipment

An examination work room is being developed which will accommodate 6-to-8 investigators. Adequate tables and chairs are available in lighted and heated space. Users should make arrangements at least 24 hours in advance. Equipment is limited but will be increased. When necessary supplies can be made available.

Extnet of Coverage

The permanent file contains 600 wells. The number of wells kept in bulk storage is unknown but represents core material contributed by Wyoming Oil and Gas Commission, several major and independent oil companies and operators currently drilling in the Rocky Mountain area. Also, represented are cores for oil shale,

uranium, coal and other mineral evaluation projects. Approximately 85% of the core material is oil and gas core from Wyoming. As the library progresses, cores from all Rocky Mountain States will be added as they become available.

OUT-OF-STATE REPOSITORIES

Arizona Oil and Gas Conservation Commission - See Arizona
Four Corners Sample Cut Association - See New Mexico
Kansas Geological Survey - see Kansas

PRIVATE REPOSITORIES

Amoco Production Company - Security Life Bldg., Denver, Co 80202
Atlantic Richfield Company - 501 Lincoln Tower, Denver, Co 80203
Chevron Oil Company - 1700 Broadway, Box 599, Denver, CO 80201
Cities Service Oil Company - Tulsa, OK
Continental Oil Company - Ponca City, OK
El Paso Natural Gas Company - Farmington, NM
Exxon Company, USA - Box 120, Denver, CO 80201
Marathon Research Center - Box 269, Littleton, CO 80120
Marathon Oil Company - Casper, WY
Mobil Oil Corporation - Midland, TX
Mountain Fuel Supply Company - Salt Lake City, UT
Phillips Petroleum Company - Bartlesville, OK
Shell Oil Company - 1700 Broadway, Denver, CO 80202
Sun Oil Company - Richardson, TX
Tenneco Oil Company - 1200 Lincoln Tower Bldg., 1860 Lincoln, Denver, CO 80203
Texaco, Inc. - Denver Division, Biostratigraphic Laboratory, Box 2100, Denver, CO 80201
Union Oil Company of California - Casper, WY

Climax Molybdenum Mine - Climax, CO 80429
Henderson Mine of AMAX Inc. - Empire, CO 80438

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

- A. ROCK MATERIALS
Cuttings/cores -- There are no regulations requiring these materials to be filed with any State agency.

- B. DOCUMENTS
Drillers of water wells are required to file logs. There are no other regulations.

- C. CONFIDENTIAL PERIOD
Rock materials and documents -- None

REPOSITORY NAME

No data have been received which indicate the operation and maintenance of any core and sample repositories in the State of Connecticut.

OUT-OF-STATE REPOSITORIES

Department of Geology, Harvard University - See Massachusetts

U.S. Bureau of Mines - See Minnesota

U.S. Corps of Engineers - See Massachusetts

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- The State Geological Survey can request, through the State permit system, that samples of all kinds be submitted to their library. The request is usually made in an area where information is lacking and for all wells over 100 feet deep.

B. DOCUMENTS

These materials are covered by the same general statement as above.

C. CONFIDENTIAL PERIOD

Rock materials and documents -- Held confidential for as long as requested by the donor.

REPOSITORY NAME

No data have been received which indicate the operation and maintenance of any core and sample repositories in the State of Delaware.

OUT-OF-STATE REPOSITORIES

Academy of Natural Science of Philadelphia - See Pennsylvania
University of Texas, Arlington - See Texas

PRIVATE REPOSITORIES

Amoco Production Company - New Orleans, LA
Exxon Company, USA - New Orleans, LA (Paradis, LA)
Gulf Oil Company - New Orleans, LA
Shell Oil Company - New Orleans, LA

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALSCuttings/cores

1. For water wells, core tests, disposal wells this material is submitted voluntarily.
2. For oil test wells, cuttings and representative core sections are required by Rule 16C-2.05-Authority F.S. 377.22 to be delivered to the Florida Bureau of Geology, Tallahassee, Florida.

B. DOCUMENTS

For oil test wells, all electric or mechanical logs, drillers' logs and well record containing a summary of DST records are required to be filed. Mud logs and fluid analysis records may be requested.

C. CONFIDENTIAL PERIOD

Rock materials and documents -- Confidential for six (6) months with an extension to two (2) years upon request. The exceptions are public hearing record approvals (plugging records and transporters certificates) which are open file.

REPOSITORY NAME

Bureau of Geology

Location, Telephone

903 W. Tennessee Street
Tallahassee, FL 32304

Telephone: (904) 488-4191

Organization

The sample repository was established in 1907 and operated under the name Florida Geological Survey. The organization has undergone several name changes through state reorganizations and is currently the Bureau of Geology, Department of Natural Resources

Storage Methods

The rock cuttings and core chips are permanently stored in coin envelopes which are placed in cardboard boxes. A portion of most of the rock cuttings has been washed and both washed and unwashed samples are available. A card index system that gives the well number, the owner or operator's name, depth, elevation, and other pertinent data, is maintained. Additionally, geologic logs are available on those wells which have been worked.

Availability: Policies of Use

Samples are available to all interested persons, in the offices of the Bureau of Geology. No sample cuts may be made without the written permission of the Bureau Chief, C. W. Hendry, Jr. A copy of the analyses performed may be required to be left with the Bureau of Geology.

Examination Facilities/Equipment

Space will be made available to persons interested in studying subsurface samples, however, because of limited space, interested persons should contact the Bureau of Geology prior to visiting the repository. Equipment such as microscopes and lamps is the responsibility of the individual carrying out the investigation.

Extent of Coverage

The sample repository consists of approximately 13,000 wells, including water wells, oil wells, and core tests from the State of Florida.

Remarks

The water well drillers of the State have cooperated generously in furnishing the Bureau of Geology with rock cuttings. All oil well drilling contractors must furnish this department with complete selections of cores and samples of rock cuttings. Occasional core holes are available that have been acquired with the Bureau of Geology drilling rig. The distribution of the above-mentioned wells can be acquired from maps which are maintained at the Bureau of Geology.

REPOSITORY NAME

Antarctic Marine Geology Research Facility and Core Library
Florida State University
Tallahassee, FL 32306 - See Special Section

OUT-OF-STATE REPOSITORIES

Mississippi Geological Economic & Topographical Survey - See Mississippi
Petro-Core Service Company - See Texas
University of Texas, Arlington - See Texas
Virginia Polytechnic Institute & State University - See Virginia

PRIVATE REPOSITORIES

Amoco Production Company - New Orleans, LA
Cities Service Oil Company - Jackson, MS
Cities Service Oil Company - Tulsa, OK
Continental Oil Company - Ponca City, OK
Exxon Company, USA - Houston, TX (Friendswood, TX)
Getty Oil Company - New Orleans, LA
Gulf Oil Company - New Orleans, LA
Mobil Oil Corporation - Houston, TX
Shell Oil Company - New Orleans, LA
Sun Oil Company - Richardson, TX
Texaco, Inc. - New Orleans, LA
Union Oil Company of California - Houston, TX

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

- A. ROCK MATERIALS
Cuttings/cores -- Retained by law to be filed with the Georgia Geological Survey from all oil tests and all bore holes deeper than 1800 feet. May be requested from selected deep water-wells and engineering test holes.
- B. DOCUMENTS
Generally, the mechanical logs, drillers' logs, DST records, etc. are required by law for all oil test wells.
- C. CONFIDENTIAL PERIOD
Rock materials and documents -- Confidential for six (6) months with a renewal option if the operator is still drilling.

REPOSITORY NAME

No data have been received which indicate the operation and maintenance of any core and sample repositories in the State of Georgia.

OUT-OF-STATE REPOSITORIES

Academy of Natural Sciences of Philadelphia - See Pennsylvania
Mississippi Geological Economic & Topographic Survey - See Mississippi
University of Texas, Arlington - See Texas
U.S. Bureau of Mines - See Minnesota
Virginia Polytechnic Institute & State University - See Virginia

PRIVATE REPOSITORIES

Amoco Production Company - New Orleans, LA
Exxon Company, USA - Houston, TX (Friendswood, TX)
Gulf Oil Company - New Orleans, LA
Mobil Oil Corporation - Houston, TX
Shell Oil Company - New Orleans, LA
Texaco, Inc. - New Orleans, LA
Union Oil Company of California - Houston, TX

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- There are no regulations requiring these materials to be filed with any State agency.

B. DOCUMENTS

A driller's report is required for the Division of Water and Land Development (DOWALD Form 71(1)).

C. CONFIDENTIAL PERIOD

The document filed is confidential for ninety (90) days after the well completion.

REPOSITORY NAME

Division of Water and Land Development

Location, Telephone

Department of Land and Natural Resources
State Office Building
1151 Punchbowl Street
Honolulu, HI 96813

Telephone: Not available

Organization

Information not available

Storage Methods

Well cuttings are kept in small plastic vials which are stored and filed in cardboard boxes.

Availability: Policies of Use

Available for inspection during office hours, Monday through Friday.

Examination Facilities/Equipment

Information not available

Extent of Coverage

Samples are available from several dozen wells drilled by the Division throughout the State.

REPOSITORY NAME

Hawaii Institute of Geophysics

Location, Telephone

University of Hawaii
525 Correa Road
Honolulu, HI 96822

Telephone: (808) 948-8760

Organization

Information not available

Storage Methods

The cores are in dry storage at the University of Hawaii Pier 18 harbor facilities. They are boxed in approximately 5-foot lengths, with cored interval indicated on box.

Availability: Policies of Use

Cores are available for inspection or sampling with the permission of the USGS (Midway) or Department of Geology and Geophysics, University of Hawaii (Ewa).

Examination Facilities/Equipment

Laboratory facilities available for sample study in Department of Geology and Geophysics, University of Hawaii.

Extent of Coverage

Midway Atoll (2 deep borings)

Ewa, Oahu, Hawaii (2 deep borings)

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

There are no regulations requiring these materials to be filed with any State agency.

B. DOCUMENTS

Within thirty (30) days after completion or recompletion of a well drilled for oil or gas, a prescribed form report shall be filed with the Oil and Gas Conservation Commission which will include a driller's log, mechanical logs, DST records, lithologic description of any cores, and such other information as the Commission may require.

C. CONFIDENTIAL PERIOD

Upon request, the documents may be held confidential for one (1) year.

REPOSITORY NAME

College of Mines, Department of Geology

Location, Telephone

University of Idaho

Moscow, ID 83843

Telephone: (208) 885-6192

Organization

University of Idaho, College of Mines initiated a program to collect characteristic core from various parts of the State of Idaho. No funding or State regulations require the deposition of core.

Storage Methods

Stored in core boxes that are not easily accessible because of the lack of facilities. The warehouse is on the Campus.

Availability: Policies of Use

Available at all times to qualified individuals. It is necessary to move boxes to locate cores of interest.

Examination Facilities/Equipment

Study facilities are non-existent except those that are customary in any teaching institution. Thin section machine, microscopes, and so forth would be available for limited use.

Extent of Coverage

Coverage extremely limited with very few complete wells. Most of the core is selected representative samples.

Remarks

The State of Idaho has not initiated a program requiring that core samples be placed on file with any of its state agencies. Several of the state agencies have initiated limited programs for storage.

OUT-OF-STATE RESPOSITORIES

American Stratigraphic Company - See Wyoming
U.S. Bureau of Mines - See Colorado

PRIVATE REPOSITORIES

Amoco Production Company - Denver, CO
Exxon Company, USA - Denver, CO
Marathon Oil - Casper, WY
Shell Oil Company - Denver, CO
Texaco, Inc. - Denver, CO

Idaho Mining Company - Blackbird Mine, Cobalt, ID 83229

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- Under the provisions of the Illinois Oil, Gas and Coal Act (original Act 1941, with later amendments), the State Mining Board in the Illinois Department of Mines and Minerals has the authority to make rules and regulations requiring "the filing of logs ...and the lodgment in the office of the State Geological Survey of typical drill cuttings or cores, if cores are taken, within thirty (30) days from the time of the completion of any well." Under Rules and Regulations of the Illinois Department of Mines and Minerals for the Oil and Gas Division, a well completion report shall be filed with the Department, and "the Mining Board shall notify the person or persons to whom any permit is issued, at the time of the issuance thereof, either to collect or not to collect for the State Geological Survey, drill cuttings representing each run drilled in cable tool wells and each ten (10) feet of distance drilled and the drilling time in rotary wells."

B. DOCUMENTS

"The Mining Board requires the owner or manager of any well drilled under the provisions of the Act, to file with the State Geological Survey, Urbana, Illinois, within thirty (30) days of completion of the well, a log of strata encountered and all geophysical logs including electric logs except velocity, sonic and dipmeter surveys made in the well. The Mining Board also requires that a drilling time log shall be filed with the Survey when so specified on the permit."

C. CONFIDENTIAL PERIOD

"When requested in writing by the owner, any or all information contained in any such log hereby required will be kept confidential until released in writing by the owner thereof or his legal representatives after its lodgment in the office of the State Geological Survey; however, no such information shall be kept confidential for more than one (1) year from the date of issue of the drilling permit for the particular well."

REPOSITORY NAME

The Geological Sample Library
Illinois Geological Survey

Location, Telephone

Natural Resources Studies Annex
Griffith at Hazelwood Drive
University of Illinois
Urbana, IL 61801

Telephone: (217) 333-3567 or 344-1481

Organization

The Geological Samples Library was established shortly after the founding of the present Survey in 1905, when the U. S. Geological Survey gave several sets of sample cuttings from Illinois water wells to the Illinois State Geological Survey. This facility has been maintained continuously since that date. The library is an integral part of the research and public service activities of the State Geological Survey. The Survey is a Division of the State Department of Registration and Education.

Storage Methods

About 80 percent of the cores are abbreviated and filed as biscuits or chips taken at one foot intervals. Others have been condensed to 10 or 20 percent of their original length. A number of those of stratigraphic significance are saved in their entirety. Approximately 2 oz. samples from well cuttings are preserved in envelopes and filed in cardboard boxes. All materials are stored in steel cabinets and shelving units. The samples and cores are indexed by index number and location (county, township, range, and section). The availability of sample sets is also noted on drill hole records in the Geological Records Section of the Survey. No catalog of holdings of cores and samples is available. Bi-monthly listings of current additions are available at no charge.

Availability: Policies of Use

All sample and core materials on open file are available to the public for appropriate examination. Samples are not lent for use outside the Survey facilities. A small number of washed well sample sets are available for donation to academic institutions.

Examination Facilities/Equipment

A small laboratory for study of subsurface samples is maintained for visitors. A limited number of microscopes and an ultraviolet illuminator are available. Tables, etc. are provided for use in examining complete cores. Facilities are open to the public during regular office hours, 8:00 a.m. - 5:00 p.m., Monday through Friday. In most instances advance appointments are not required.

Extent of Coverage

Cuttings are on file from over 60,000 drill holes in the State of Illinois; 70 percent are from oil tests and the remainder are from water wells, gas storage tests, etc. Cores are from oil tests, coal and other mineral tests, and gas storage tests. The samples are from test drillings distributed in all 102 counties. Some samples and cores are on file from adjacent states.

Remarks

In 1972 the Illinois State Geological Survey and the Illinois State Natural History Survey occupied a newly constructed Natural Resources Studies Annex. The Geological Survey's portion of the building includes a 13,800 sq. ft. warehouse, in which well samples, cores, and thousands of miscellaneous rock and mineral samples are stored. Also, the building includes processing, study, and laboratory facilities.

OUT-OF-STATE REPOSITORIES

Indiana Geological Survey - See Indiana
Kentucky Geological Survey - See Kentucky
University of Missouri, Rolla - See Missouri
U.S. Bureau of Mines - See Minnesota

PRIVATE REPOSITORIES

Amoco Production Company - Ft. Worth, TX
Cities Service Oil Company - Tulsa, OK
Continental Oil Company - Ponca City, OK
Exxon Company, USA - Midland, TX
Shell Oil Company - Midland, TX
Sun Oil Company - Richardson, TX
Texaco, Inc. - Tulsa, OK

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- When the Commission notifies the person or persons to whom any permit is issued, at the time of the issuance thereof, to collect for the Commission, drill cuttings representing each run drilled in cable tool wells and each ten (10) feet of distance in rotary wells, and provide core samples when cores are taken, such cuttings shall be furnished to the representative of the Commission at the well or at some convenient place designated. In all other cases cuttings are not required.

B. DOCUMENTS

The Commission shall require any owner or manager, as defined in this Act, of any well drilled for oil, gas or gas storage purposes or any well associated therewith, or the recompletion of a well into a different source of supply or where the producing interval is changed, to file a log of strata encountered and/or a completion report, and also an electric log, if one has been made and a time log, if requested, in the office of the Division of Oil and Gas, Department of Natural Resources, Indianapolis, Indiana, immediately upon the completion of said well.

C. CONFIDENTIAL PERIOD

Rock materials and documents -- Upon the request of the permittee, all records, logs, samples and other information and material furnished to the Commission shall be considered confidential for a period of one (1) year after the completion of the well and shall not be opened to the public inspection during such period.

All records and information furnished to the Commission about Geological or Structure tests wells shall upon the request of the permittee be considered confidential and held until notified by the permittee to release; however no such information shall be kept confidential for more than two (2) years from the date of issue of the drilling permit for the particular well or test. Only those records accompanied by a letter from the operator requesting such, shall be placed in the confidential file.

REPOSITORY NAME

Indiana Geological Survey

Location, Telephone

611 North Walnut Grove
Bloomington, Indiana 47401

Telephone: (812) 337-5412

Organization

The sample repository is an integral part of the Indiana Geological Survey, which is directed by the State Geologist, Dr. John B. Patton. Maintenance of the repository is the responsibility of the Petroleum Section of the Indiana Geological Survey. Mr. Leroy Becker is head of the Petroleum Section.

Storage Methods

Well cuttings are preserved in paper envelopes, which are stored in indexed cardboard boxes on steel shelving in the sample library in the Geological Survey building. A cross index is available for each well. Almost all samples are acquired from a sample cut service and have been washed when received. In addition to the normal filing methods, lithologic strips (cardboard strips on which samples are glued) have been made for about 5,000 sample sets. Cores are split -- one-half going to analytical procedures, and one-half being stored in cardboard boxes at the core library, which is located about 3 blocks from the Geology Building. A complete index is available and a sample curator can provide assistance in examining cores.

Availability: Policies of Use

Samples and cores are available for study at the Petroleum Section. Cores and sample sets are not loaned. Offices are open 8:00 a.m. to 5:00 p.m., Monday through Friday.

Examination Facilities/Equipment

Microscopes, lights, trays and tables are available in study areas.

Extent of Coverage

Samples and cores are available for wells drilled throughout Indiana. The sample library contains sample sets from approximately 10,000 wells; the core library has cores from about 540 wells. Samples from about 400 out-of-state wells, principally in adjacent states, are on file

OUT-OF-STATE REPOSITORIES

Kentucky Geological Survey - See Kentucky

Michigan State University, Geology Department - See Michigan

PRIVATE REPOSITORIES

Amoco Production Company - Ft. Worth, TX

Cities Service Oil Company - Tulsa, OK

Continental Oil Company - Ponca City, OK

Exxon Company, USA - Midland, TX

Shell Oil Company - Midland, TX

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVAION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings -- Sample cuttings shall be taken at 5-foot intervals and at each change of formation, if less than 5 feet thick, in wells drilled for oil or gas, for geological information, for storage of dry natural gas, or casinghead gas, and for the development of reservoirs for the storage of liquid petroleum gas. Cuttings are to be submitted within six (6) months after completion of the well to the State Geologist.

Contractors of municipal and industrial water wells which produce in excess of 5000 gpm are also normally required to submit sample cuttings on a similar basis as stipulated in a permit issued by the Iowa Natural Resources Council.

Cores -- The operator of any well drilled as provided in the foregoing paragraph concerning oil and gas wells shall, during the drilling, or immediately following completion of any given well, advise the State Geologist, or his representative, of all intervals that are to be cored, or that have been cored, and such cores as are taken shall be preserved and forwarded to the office of the State Geologist. This rule shall not be construed as prohibiting the operator from taking such samples of the core as he may desire for identification and tests pertaining to oil and gas.

B. DOCUMENTS

The Iowa Natural Resources Council acting through the State Geologist has the authority to require the making and filing of all mechanical well logs and the filing of directional surveys if taken, and the filing of reports on well location, drilling and production within six (6) months after completion or abandonment of any well drilled for oil and gas, for geological information for storage of dry natural gas, or casinghead gas, and for the development of reservoirs for the storage of liquid petroleum gas.

C. CONFIDENTIAL PERIOD

All records, samples and logs must be filed with the State Geologist within six (6) months after completion of the program set forth in the original permit application. If the Company so requests in writing, these records, samples and logs shall be kept confidential for an additional period of one year after the filing.

REPOSITORY NAME

Iowa Geological Survey

Location, Telephone

Trowbridge Hall
Iowa City, IA 52240

Telephone: (319) 338-1173

Organization

The repository is an integral part of the Iowa Geological Survey and for a period was operated cooperatively with the U.S. Geological Survey, Ground Water Branch. The operations are now supervised by Donald L. Koch, Chief, Subsurface Geology.

Storage Methods

The drill cuttings are stored in small envelopes in cardboard boxes and kept on wooden shelves. There is a reference index available but no catalog has been prepared. Core material is stored in cardboard and wooden containers on metal shelving.

Availability: Policies of Use

All core and cutting material is available for study at the facility. Core splits are available for destructive studies under certain conditions. When a duplicate set of cuttings is in storage, a split can be obtained. Thin section preparation is available for cores contributed to the repository.

Examination Facilities/Equipment

The repository has a heated study room, but equipment is not available. Users of this facility should provide their own microscope, light, etc.

Extent of Coverage

There are sets of cuttings from approximately 23,500 wells within the State. Core material is generally limited to the following counties: Lyon, Sioux, Clay, Cerro Gordo, Clayton, Webster, Dallas, Johnson, Louisa, Linn, and Washington.

There are many sets of samples from wells drilled for gas storage in aquifer sandstones of central Iowa and many Mississippian Keokuk structural control wells. Cores are from storage fields and prospects.

OUT-OF-STATE REPOSITORIES

U.S. Bureau of Mines - See Minnesota

PRIVATE REPOSITORIES

Amoco Production Company - Ft. Worth, TX

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings -- Upon request, cuttings from wells drilled for oil or gas must be filed with the Kansas Geological Survey, 4150 Monroe St., Wichita, Kansas, 67209. Samples are ordered from wells one mile or more from production and from pool wells if samples are not on file from wells within $\frac{1}{2}$ mile. Intervals are not specified. Rule 82-2-125, Kansas Corporation Commission.

Cores -- No regulations concerning core. Voluntary contributions of full core are preserved at the Survey in Lawrence, Kansas.

B. DOCUMENTS

Rule 82-2-125 requires a copy of electric logs, radioactivity logs, and similar wireline logs or surveys run by operators on all boreholes (excluding seismic holes), which shall be delivered to the above address within 90 days following the running of such logs or surveys. Copies of drillers' logs, prepared on a form prescribed by the Kansas Corporation Commission, shall be completed and filed with the Kansas Geological Survey within 90 days after completion of the well.

C. CONFIDENTIAL PERIOD

Rock materials and documents -- Held confidential for one year upon request. A second year of confidentiality may be obtained by request. Additional confidentiality may be obtained through a hearing with the Corporation Commission.

REPOSITORY NAME

Kansas Geological Survey

Location, Telephone

1930 Avenue "A", Campus West
Lawrence, KS 66044

Telephone: (913) 864-4991

Wichita Well Sample Library
4150 Monroe Street
Wichita, KS 67209

Telephone: (316) 943-2344

Organization

Kansas Geological Survey - responsible for storing samples required by ruling of Kansas Corporation Commission. Prior to the establishment of the required ruling, the Survey was very successful in receiving well samples and cores from the industry on a voluntary basis.

Storage Methods

Cores are stored in Lawrence, Kansas, facility in numbered cardboard boxes with card-file and printout index.

Samples are stored in Wichita, Kansas, facility in envelopes inside numbered cardboard boxes with card-file index.

Both collections are stored on steel shelving in warehouses without climate control.

Availability; Policies of Use

Samples and cores are available from 8:00 a.m. to 5:00 p.m., Monday through Friday, in Wichita and Lawrence facilities, respectively. Wichita facility, managed by a geologist, two clerks and two part-time students, also houses the sample-cut service of the Kansas Geological Society. Subsurface Geology Section manages the core collection in Lawrence.

Upon request samples or cores are loaned, for \$1.00 per box, to responsible parties. Freight charges both ways and insurance against loss is paid by borrower. The customary loan period is 30 days, and may be extended upon request.

Examination Facilities/ Equipment

The Wichita facility has limited desk space available for examination of samples in an office area adjacent to the storage warehouse.

The Lawrence facility has limited lay-out space available in the warehouse where cores are stored (near Survey offices). Handling of 45 lb. core boxes is by hand. There is poor lighting, no temperature control, and no comfort-facility in this building.

Extent of Coverage

The sample and core collections are primarily from Kansas wells. Selected sets of samples are from states bordering Kansas.

OUT-OF-STATE REPOSITORIES

Department of Geology & Geophysics, University of Missouri - See Missouri

PRIVATE REPOSITORIES

Amoco Production Company - Denver, CO
Chevron Oil Company - Denver, CO
Cities Service Oil Company - Tulsa, OK
Continental Oil Company - Ponca City, OK
Exxon Company, USA - Midland, TX
Marathon Oil Company - Casper, WY
Phillips Petroleum Company - Bartlesville, OK
Shell Oil Company - Midland, TX
Sun Oil Company - Richardson, TX
Tenneco Oil Company - Midland, TX
Texaco, Inc. - Tulsa, OK

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings -- Upon request by the Department any person to whom a permit is issued shall save for the Kentucky Geological Survey samples of all cuttings from the well drilled or deepened pursuant to the permit for a period of ninety (90) days after completion thereof.

Cores -- Not specified, but generally preserved by voluntary contribution upon request of the Survey. (Kentucky Revised Statutes 353.660).

B. DOCUMENTS

Any person to whom a permit is issued pursuant to KRS 353.500 to 353.720 shall file, within ninety (90) days after termination of operations conducted under the permit, with the Department for transmittal to the Kentucky Geological Survey on forms to be furnished by the Department the following information relating to the well:

- (a) A copy of the drillers' log certified to be true and accurate.
- (b) The depth and thickness of all water zones encountered and logged;
- (c) The depth of all showings of oil or gas;
- (d) The depth and thickness of all coal seams encountered;
- (e) A true copy of all electrical surveys and similar logs and surveys taken.

C. CONFIDENTIAL PERIOD

Upon request by any person furnishing information under this section, the information shall be kept confidential, for a period of one (1) year after the information is furnished by such person.

This section shall not apply to wells drilled or deepened as geological or structure test holes.

REPOSITORY NAME

Kentucky Geological Survey

Location, Telephone

Office: Mineral Industries Bldg.
University of Kentucky Campus
120 Graham Ave.
Lexington, KY 40506

Telephone: (606) 257-1792

Repository: Reynolds Building
University of Kentucky Campus
670 S. Broadway
Lexington, KY 40506

Telephone: (606) 257-1677

Organization

Kentucky Geological Survey, University of Kentucky, under the general supervision of Dr. Wallace W. Hagan, Director and State Geologist.

Storage Methods

Well cuttings and cores are stored in cardboard boxes on steel shelving, with well cuttings placed in standard sand sample envelopes. Indexes by geographic location (county and state) are maintained at both the repository and the Survey's main offices. A catalog (Kentucky Geological Survey, Information Circular 19, 1970) lists well sample and core sets processed through April 1969; cost is \$2.35 postpaid.

Availability; Policies of Use

Well samples and cores are available for visual inspection at the repository unless restricted by the contributor as provided by Kentucky statutes. Repository open from 8:00 a.m. - 12 Noon and 1:00 p.m. - 5:00 p.m. Monday through Friday, except designated University holidays.

Examination Facilities/Equipment

Visual inspection at repository. Study space and microscopes available on a first-come basis. Microscopes, lights, and accessory equipment are limited; therefore, users of the repository are encouraged to supply their own study equipment whenever possible.

Extent of Coverage

Approximately 13,000 sets of well samples and approximately 300 cores, principally from Kentucky. A few sets of well samples from neighboring states also on file.

OUT-OF-STATE REPOSITORIES

Indiana Geological Survey - See Indiana

U.S. Bureau of Mines - See Minnesota

Virginia Polytechnic Institute and State University - See Virginia

PRIVATE REPOSITORIES

Amoco Production Company - Ft. Worth, TX

Exxon Company, USA - New Orleans, LA

Shell Oil Company - Midland, TX

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings -- A complete set of cutting samples must be furnished upon request to the District Office, Department of Conservation, within ten (10) days after completion of the well.

Cores -- Not specified, but generally preserved by voluntary contribution upon request of the Survey. (Dept. of Conservation Order 19-B, July 1943)

B. DOCUMENTS

Drillers' and electrical logs of all test wells, or wells drilled in search of oil, gas, sulphur and other minerals must be mailed, in triplicate to the District Office, Department of Conservation, within ten (10) days after completion of the well. The drillers' log shall be filed on forms furnished by the Department of Conservation.

C. CONFIDENTIAL PERIOD

Rock materials -- Confidential until released by operator.

Documents -- (Act 4, Extraordinary Session, 1973)

"B. All electric logs produced from wells drilled in search of oil and gas which are filed with the Commissioner of Conservation shall remain confidential upon the request of the owner so filing for periods as follows:

For wells shallower than 15,000 feet a period of one year, plus one additional year when evidence is submitted to the Commissioner of Conservation that the owner of the log has a leasehold interest in the general area in which the well was drilled and the log produced; for wells 15,000 feet deep or deeper, a period of two years, plus two additional years when evidence is submitted to the Commissioner of Conservation that the owner of the log has such an interest in the general area in which the well was drilled and the log produced; provided however that no release will be required of logs produced from wells drilled in the offshore area.

At the expiration of time in which any logs or log shall be held as confidential by the Commissioner of Conservation as provided for above said log or logs shall be placed in the open files of the Department of Conservation and any party or firm shall have the right to examine and/or reproduce, at their own expense, copies of said log or logs by photography or other means not injurious to said records."

REPOSITORY NAME

Louisiana Geological Survey Sample Repository

Location, Telephone

Geology Building
Louisiana State University
Baton Rouge, LA 70803

Telephone: (504) 389-5812

Organization

The establishment of a state operated well sample and core repository was begun in the late 1930's with the collection and storage of a rather large number of samples and cores.

In 1964 a concentrated effort was begun to provide a functional repository whereby members of the oil industry and others could make use of the many thousands of samples available to them. Organization and maintenance of the well sample and core repository is a function of the Louisiana Geological Survey under the direction of Leo W. Hough, State Geologist. The operation and organization of the repository is under the supervision of H. L. Roland, Jr., Asst. State Geologist.

Storage Methods

The well cuttings and cores are stored in sacks and/or boxes as received from the oil company. The samples are cross-indexed on file cards containing all of the pertinent data available for that well. In addition most of the samples have been audited to show the intervals represented by cuttings and/or cores. This information is on the back of each index card.

Availability: Policies of Use

The samples are available for study in the offices of the Louisiana Geological Survey. In some instances, the samples are available on a loan basis.

Examination Facilities/Equipment

Space can be provided on a short term basis to examine the samples. Equipment is available on a limited basis.

Extent of Coverage

The well samples represent the entire State of Louisiana. The repository contains samples and/or cores from 3608 wells. Yet, 794 wells of this total have not been sorted and entered into the repository.

OUT-OF-STATE REPOSITORIES

Mississippi Geological Economic & Topographical Survey - See Mississippi
Petro-Core Service Company - See Texas

PRIVATE REPOSITORIES

Amoco Production Company - Ft. Worth, TX
Amoco Production Company - P. O. Box 50879, New Orleans, LA 70150
Cities Service Oil Company - Jackson, MS

Cities Service Oil Company - Tulsa, OK
Continental Oil Company - Ponca City, OK
Exxon Company, USA - P.O. Box 61812, New Orleans, LA 70161 (Paradis, LA)
Exxon Company - Houston, TX (Friendswood, TX)
Getty Oil Company - P.O. Box 53386, New Orleans, LA 70153
Gulf Oil Company - Offshore Exploration District, P.O. Box 61590, New Orleans, LA 70161
Gulf Oil Company - Eastern Offshore District, Saratoga Bldg., 212 Loyola Ave.
New Orleans, LA 70112

Mobil Oil Corporation - Houston, TX
Murphy Oil Corporation - El Dorado, AR
Phillips Petroleum Company - Bartlesville, OK
Shell Oil Company - P.O. Box 60775, New Orleans, LA 70160
Sun Oil Company - Richardson, TX
Superior Oil Company - P.O. Box 51108, O.C.S., Lafayette, LA 70501
Tenneco Oil Company - (Paleo Group) P.O. Box 51345, Lafayette, LA 70501
Texaco, Inc. - P.O. Box 60252, New Orleans, LA 70160
Union Oil Company of California - Houston, TX

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVAION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- " --- the State of Maine Oil and Gas Act includes the preservation and storage of any test and development core (and cuttings) with the Maine Geological Survey (which is the administrator for the Oil and Gas Act)."

The Maine Geological Survey has an informal agreement with mining companies that will permit a record of the location of drill core with come description of the core log for the records. In some cases where the drill core has geologic or economic information of critical importance, the core is stored in an appropriate place. There is no law or regulation regarding this drill core.

B. DOCUMENTS

No data

C. CONFIDENTIAL PERIOD

No data

REPOSITORY NAME

None located in the State of Maine

OUT-OF-STATE REPOSITORIES

Dept. of Geology, Harvard University - See Massachusetts

Dept. of Geology, University of Texas, Arlington - See Texas

U.S. Bureau of Mines - See Minnesota

U.S. Corps of Engineers - See Massachusetts

PRIVATE REPOSITORIES

Amoco Production Company - New Orleans, LA

Knox Mining Corp. - Box 668, Rockland, ME 04841

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVAION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

- A. ROCK MATERIALS
Cuttings/cores -- "---and the owner must also furnish to the Department samples of cuttings taken from the well at every bailing of the well when the well is drilled with cable tools, and at such intervals as the Department may prescribe on the permit when the well is drilled by the rotary drilling method." (Core material not specifically included) Annotated Code of Maryland, Article 66C, Section 66C, Section 675 and 689.
- B. DOCUMENTS
"Within thirty (30) days after the completion of a well the owner shall furnish to the Department a completion report on the well which shall include (a) a complete log of the well, (b) the initial open flow or volume of the well, and (c) the closed in pressure of the well;---"
- C. CONFIDENTIAL PERIOD
No specific data available concerning confidential materials.

REPOSITORY NAME

Maryland Geological Survey

Location, Telephone

214 Latrobe Hall
Johns Hopkins University
Baltimore, MD 21218

Telephone: (301) 235-0771

Organization

The Maryland Geological Survey, as an agency of the Department of Natural Resources, State of Maryland, operates the repository.

Storage Methods

Well cuttings washed and stored in envelopes; envelopes filed in cardboard boxes which are stored on metal shelving. Selected core stored on wooden boxes. No catalog available.

Availability: Policies of Use

Samples are generally not loaned; however, facilities are available for the study of samples on the premises.

Examination Facilities/ Equipment

Work area (tables, sink etc.) available in an adjacent lab. Necessary equipment should be provided by the user.

Extent of Coverage

Approximately 500 wells from throughout the State.

OUT-OF-STATE REPOSITORY

Academy of Natural Sciences of Philadelphia - See Pennsylvania
Dept. of Geology, University of Texas, Arlington - See Texas
U. S. Bureau of Mines - See Minnesota

PRIVATE REPOSITORIES

Amoco Production Company - New Orleans, LA
Gulf Oil Company - New Orleans, LA
Shell Oil Company - New Orleans, LA

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

- A. ROCK MATERIALS
There are no regulations. This applies to all forms of drilling within the State except soil samples and cores taken during highway construction. These are maintained by the Department of Public Works for as much as ten (10) years.
- B. DOCUMENTS
One law existing applies to water well drilling and specifies "---well logs must be submitted showing type of rock-depth-elevation and pumping capacity."
- C. CONFIDENTIAL PERIOD
All materials are public information but permission of the Chief Engineer is required to examine.

REPOSITORY NAME

Department of Geological Sciences

Location, Telephone

Harvard University
Cambridge, MA 02138

Telephone: (617) 495-2351

Organization

This repository is for cores drilled during the period 1963 - 1968 for studies of terrestrial heat flow. Reference: J. Geophys. Res. 73, 5207-5221, 1968.

Storage Methods

Mostly 4 cm cores of crystalline rock. This material is adequately boxed and indexed. Locations of holes are recorded in above reference. These core holes are approximately 200 m deep with a recover of 80 - 90 percent.

Availability: Policies of Use

Requests may be sent to the above address. To select samples and examine materials it may be necessary to visit Cambridge.

Examination Facilities/Equipment

Work space and equipment are limited. Investigators are requested to provide their own microscopes, etc. Some thin sections and polished discs are available.

Extent of Coverage

About ten holes, mostly in crystalline rocks, from New York and New England plus individual holes from California and elsewhere in western U.S.

REPOSITORY NAME

Massachusetts Department of Public Works

Location, Telephone

Research and Materials Division
99 Worcester Street
Wellesley Hills, MA 02181

Telephone: (617) 237-9110

Organization

This Repository is under the direction of Research and Materials Engineer. All soil samples and rock core borings taken by State and contract drill crews for highway and other miscellaneous purposes are on file. Materials from off-shore research done by the State are given to the State Geologist for the use of joint study groups. Samples and cores from inland mining and deep projects may be given to the State Geologist voluntarily. The State Geologist's office is a part of the Massachusetts D.P.W.

Storage Methods

Stored by Town and cross referenced by contract number.

New law system not yet perfected. All water wells in State now require a log, location map and chip samples. Program is run by Water Resources Commission in the Department of Natural Resources - 100 Cambridge St. Boston, MA. Charles Kennedy, Director.

Availability: Policies of Use

Core has also been given to Mr. Robert Oldale - USGS in Falmouth, MA. for joint advanced studies with WHOI and the Marine Biology Lab. Materials when available may be examined by interest investigators. When engineering projects are completed, rock material may be disposed of. Requests should be directed to Joseph A. Sinnott, State Geologist, 100 Nashua Street, Boston, MA.

Examination Facilities/ Equipment

Examination facilities are limited and equipment should be provided by the user.

Extent of Coverage

Entire State - unknown number of wells.

REPOSITORY NAME

Metropolitan District Commission of Boston

Location, Telephone

Coldbrook Springs
Barre, MA

Organization

This Commission is responsible for water supply routes to Boston. Coring and sampling is done along planned aqueduct routes or water distribution tunnels.

Storage Methods

A garage is maintained on Route 122. Cores and samples are kept from the 24.6 mile Quabbin to Wachusett aqueduct tunnel which was constructed in the 1930's. Also cores are maintained which were taken in the early 1970's from the planned Northfield to Quabbin aqueduct tunnel.

Availability: Policies of Use

Could be made available to qualified investigators with planned projects.

Examination Facilities/Equipment

Space is limited. Equipment should be provided by the user.

REPOSITORY NAME

New England Division
U.S. Army Corps of Engineers

Location, Telephone

424 Trapelo Road
Waltham, MA 02154

Telephone: (617) 894-2400

Organization

Maintained as a part of the Corps of Engineers data gathering system for construction projects in the New England States.

Storage Methods

Limited access storage facilities. Stored and cataloged by project. Cores retained for only a short time after completion of the project.

Availability: Policies of Use

Samples may be examined by contacting A. Mancini, Division Laboratory. Request one week notice to allow proper arrangements for examination.

Examination Facilities/Equipment

Limited examination facilities at the storage site.

Extent of Coverage

Coverage of the New England States and the immediate off-shore areas.

REPOSITORY NAME

Soil Conservation Service
U.S. Department of Agriculture

Location, Telephone

29 Cottage Street
Amherst, MA 01002

Telephone: (413) 549-0650

Organization

Maintained as a part of the Soil Conservation Service information gathering system for special construction projects.

Storage Methods

These materials are primarily cores which are stored in boxes. All material is in good condition and well labeled. There is a plan view of most sites which locates borings. Also, logs of the borings are kept.

Availability: Policies of Use

Core materials are available at the storage facility in Amherst for examination. Following completion of individual projects, materials may be moved to other storage repositories.

Examination Facilities/Equipment

Work space is limited and interested individuals should provide their own equipment.

Extent of Coverage

Primarily from within Massachusetts.

REPOSITORY NAME

Office of Marine Geology

Location, Telephone

U. S. Geological Survey
Branch of Atlantic-Gulf of Mexico
Woods Hole, Mass. 02543

Telephone: (617) 548-8700

Organization

U. S. Geological Survey, John Behrendt, Branch Chief. Wayne Ferrebee, Core Curator.

Storage Methods

The cores are cut to five (5) foot lengths, split longitudinally, and stored in plastic D-tubes or plastic sleeving. Other samples are stored in jars, boxes, or plastic bags. Drilled cores are in cold storage. Vibrocores and other samples are stored on steel shelves. A computer data file is being prepared which cross-references any analysis performed, collection data, sampling location, and water depth.

Availability: Policies of Use

Arrangements can be made for examining samples or cores by contacting the Core Curator. Subsampling is possible, subject to the approval of the Core Curator and the collecting scientist. All sampling requests must be made in writing and all data produced from the samples must be published or returned to the U. S. Geological Survey for public examination.

Examination Facilities/Equipment

Facilities for megascopic examination are available. If subsampling is desired, all sampling apparatus must be provided by the investigator.

Extent of Coverage

Samples in this collection are from the United States Atlantic Margin from Georges Bank to Blake Plateau. Approximately 20 drilled cores, 150 vibrocores, 100-200 grab samples are in the collection.

OUT-OF-STATE REPOSITORIES

Dept. of Geology, University of Texas, Arlington - See Texas

PRIVATE REPOSITORIES

. Amoco Production Company - New Orleans, LA
Gulf Oil Company - New Orleans, LA

MICHIGAN

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings -- Well cuttings of exploratory, development or wildcat oil and gas wells are required to be collected and saved according to Rule 310 of Act 61. Well cuttings may be required for other wells drilled under Act 315 (Part 6 of rules).

Because of limited storage facilities, the Michigan Survey is highly selective in the well cutting samples it acquires for storage.

Cores -- Core acquisition is not required by statute. Only a limited amount has been collected because of limited storage facilities.

B. DOCUMENTS

All types of records i.e. mechanical logs, drillers logs, DST records, Core/Fluid analysis records, hydrocarbon logs (mud logs), etc. are required to be collected and/or filed with the Michigan Geological Survey according to Rules 309, 311 and 312 of Act 61 and Part 6 of Rules of Act 315.

C. CONFIDENTIAL PERIOD

Rock materials and documents -- a maximum of 90 days after completion of any well drilled under Act 61. A maximum of ten (10) years for certain well records covered by Act 315.

REPOSITORY NAME

Michigan Geological Survey Division

Location, Telephone

Department of Natural Resources

Stevens T. Mason Bldg.

Lansing, MI 48926

Telephone: (517) 373-1256

Organization

The Sample Library is a part of the Michigan Geological Survey, Arthur E. Slaughter, State Geologist. Samples are received by the Oil Well Sample Service, Mt. Pleasant, Michigan, a privately owned service. Sample sets are sold to interested oil companies and to the Michigan Geological Survey. The Survey chooses the sample sets it needs on a very selective and limited basis. The samples are washed, dried, and transferred to glass vials, $\frac{1}{2}$ inch in diameter and $2\frac{1}{4}$ inches long. Each vial is labeled with the well permit number and footage. The vials are then filed in open cardboard trays holding 25 vials. The library, which is in the Petroleum Geology Unit, is supervised by Richard T. Lilienthal, Geologist.

Storage Methods

The sample sets for individual wells, which consists of one or more trays of vials, are filed in open steel shelves. Because of limited storage facilities in the Stevens T. Mason Bldg., sample sets are periodically moved to permanent storage in the State Records Center, Lansing, Michigan. Sets stored at the Records Center are keyed to Lot Number 12, 353, 94, 105, 434, 183, 218, 226, 124, 92, and 273. These sets are available for inspection but permission and access must be obtained through the Geological Survey Division. Each tray has an end label which shows the permit number, operator, farm name; section, township, and range numbers; the township and county names and the footage contained in the tray. A 3" x 5" index card is made showing all pertinent data. The set is also posted in a County Inventory Book and assigned to a permanent location on the shelves. The Index Cards are arranged according to location on the shelf. The County Books are arranged alphabetically by counties and by townships. This system allows a cross-index so that any sample set may be found, provided part of the basic information is known. A map is kept posted to date which shows by color-symbol the deepest formation for which samples are available in any section of any county in the State. The Survey has a very limited core library in Escanaba in the Upper Peninsula of Michigan. Many cores are available at the University of Michigan, Michigan State University, and other universities in the State. There is no repository sample catalog for distribution.

Availability: Policies of Use

Samples may be examined in the offices of the Survey and, under specified circumstances, may be loaned to companies or individuals provided the samples are not taken out of Michigan. There is no charge for this loan service. An examination fee may be charged in the future.

Examination Facilities/Equipment

A microscopic investigation of the samples can be conducted in the Survey offices or at the Record Center. A stereoscopic microscope is available for public use for this purpose. Individuals are encouraged to provide their own microscope and other examination equipment.

Extent of Coverage

Samples from approximately 8500 oil and gas test wells are on file - more than 7000 of which are wildcat wells. In addition about 1200 core test samples are available for inspection. All counties of the Southern Peninsula are represented by samples.

Remarks

This sample library is possible only because of the cooperative efforts of many people in the industry. Special thanks are due to the men on the rig floor who save the samples and to the scouts and company men who help to transport samples to the washing laboratory. The library has received many valuable sets by the contribution of samples from companies who no longer need them. These sets are incorporated into the library and made available to the entire geological profession.

REPOSITORY NAME

Department of Geology Sample Library

Location, Telephone

Michigan State University
East Lansing, MI 48824

Telephone: (517) 355-4626

Organization

This library was established by the Department about 1955. All materials have been donated to the Department by oil companies. It is maintained primarily as an aid to teaching.

Storage Methods

Cuttings are stored in glass vials, envelopes (some sacks). Cores are stored in 3 foot boxes.

All samples are in stacks and accessible by index card entry. Samples and cores are located in a building (Central Services Bldg.) on campus separate from Department.

Availability: Policies of Use

Available to anyone who has a purposeful use for them. Used mostly by students, faculty and oil company personnel operating in the Michigan Basin.

Examination Facilities/Equipment

Work space for study is limited at present; however, samples may be taken to Geology Dept. where additional space, facilities and equipment for study are available. Samples may be used for experimental purposes as long as individual samples are not depleted.

Extent of Coverage

We have the entire well sample collections (cuttings) of Gulf Oil Co., Humble Oil Co. (Exxon Company, USA) and Marathon Oil Company for the Michigan Basin, including some from northern Indiana and Ohio. There are about 10,000 wells including approximately 80 cores totaling close to 10,000 feet. Most of the samples and cores are pre-1965.

REPOSITORY NAME

The Subsurface Laboratory

Location, Telephone

Department of Geology & Mineralogy
1007 C. C. Little Bldg.
University of Michigan
Ann Arbor, MI 48109

Telephone: (313) 764-2324

Organization

Established in 1942 by K. K. Landes and G. M. Cohee of the U. S. Geological Survey for subsurface studies in the Michigan Basin. A division of the Department of Geology and Mineralogy; Louis I. Briggs, Professor Geology, Director.

Storage Methods

Core is stored in cardboard boxes on wooden pallets in the basement of adjacent parking structure. Approximately 3/4 of the 422 well cores are slabbed and ready for geological studies. Samples are in part mounted on cardboard strip logs (approximately 3900 wells) and the logs stored in cardboard boxes in the basement of the Subsurface Laboratory. Unmounted well cuttings in paper bags (1300) are stored in cardboard boxes with well cores. In addition there are 2263 electric logs and over 15,000 descriptive logs for the Michigan Basin and nearby areas. All are on computer files available through retrieval with the Subsurface Laboratory cosmic program. Catalogs are available.

Availability: Policies of Use

All materials in the Subsurface Laboratory are available for professional use by geologists and other professionals at the Subsurface Laboratory.

Examination Facilities/Equipment

Examination tables, lights, microscope and cosmic materials are available at the Subsurface Laboratory. Prospective users are requested to call ahead to assure that the appropriate materials, equipment and space are available at the time of their visit.

Extent of Coverage

Most of the material is restricted to the Michigan Basin. However, there are numerous well cuttings and mechanical logs from adjacent states outside the Michigan Basin. There are materials on over 10,000 wells in the Michigan Basin and descriptive logs on over 15,000 wells.

Remarks

Collections are continually added to and up-graded. A modest fee is charged for technical assistance and core handling to industrial and other geologists with financial support. Students and other professionals without financial support use the laboratory without charge. Almost all of the cores, cuttings, and logs have been donated free of charge by the petroleum companies and industrial mineral companies. Most of the descriptive logs were donated by the Michigan Geological Survey.

OUT-OF-STATE REPOSITORIES

Indiana Geological Survey - See Indiana
U. S. Bureau of Mines - See Minnesota

PRIVATE REPOSITORIES

Amoco Production Company - Ft. Worth, TX
Exxon Company - New Orleans, LA
Shell Oil Company - Midland, TX
Sun Oil Company - Richardson, TX
Cleveland-Cliffs Iron Co. - Diamond Drill Department, 504 Spruce Street,
Ishpeming, MI 49801
Hanna Mining Co. - Nashwauk, MN
Hanna Mining Co. - Groveland Mine, Star Route 1, Box 131, Iron Mountain, MI 49801
Inland Steel Co. - Ishpeming, MI 49849
Jones Laughlin Steel Co. - P. O. Box 669, Negaunee, MI 49866
Pickands Mather & Co. - Hibbing, MN

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings --- The Minnesota Geological Survey through Minnesota Statutes, Chapter 156A can require that water-well drilling contractors submit cuttings from wells deeper than 50 feet. Similarly under Minnesota Statutes, Chapter 105, the Minnesota Department of Natural Resources can require that cuttings be submitted from wells providing water to more than 25 persons or from wells drilled for irrigation purposes.

Cores --- The Minnesota Department of Natural Resources requires that at least $\frac{1}{4}$ portion of the total length of all core drilled on State-held mineral leases be submitted to the State.

B. DOCUMENTS

Drillers' logs for all water wells drilled deeper than 50 feet are required by the Minnesota Department of Health through Minnesota Statutes, Chapter 156A. A copy of logs is kept on file with the Minnesota Geological Survey. The Department of Natural Resources requires that a log and assay data be submitted for all holes drilled on State-held mineral leases.

CONFIDENTIAL PERIOD

Rock materials --- Water-well cuttings are rarely considered confidential but core material is held confidential until the mineral lease is terminated or until released by the donor.

Documents -- Water-well drillers' logs are not considered confidential. Driller logs and assay data for exploration and test wells are held confidential until the mineral lease is terminated or until released by the donor.

REPOSITORY NAME

Minnesota Department of Natural Resources

Location, Telephone

Division of Waters, Soils and Minerals

Box 567

1525 Third Avenue East

Hibbing, MN 55746

Telephone (218) 263-7545

Organization

The sample library is a part of the Minerals Section of the Division. It is a repository for a portion of all exploration drilling conducted on state owned mineral lands and covers iron, gabbro and greenstone formations.

Samples and related information accrue from year to year, and a geologist or engineer supervises the recording and filing.

Storage Methods

Whole or split core and churn drill cuttings from exploration drilling are filed in metal or cardboard boxes, size 2" x 1.5" x 12" for iron ores and 1.75" x 10" x 26" for gabbro/greenstone. These are stored on steel shelving in two separate buildings.

Files are coded and a Kardex file in the office contains complete information. A listing of open file information is available on request.

Availability: Policies of Use

"Open File" samples are available for inspection on properties not under lease. When the subject property is under lease, samples may be visually inspected with the permission of the lessee. The repository is open Monday through Friday (except holidays) and welcomes those companies, individuals or agencies interested in evaluating mineral potential in Minnesota.

Examination Facilities/Equipment

Each of the two storage areas has a heated, well-lighted classification area, allowing several hundred feet of core to be laid out at one time. Platform hand trucks are used to transport the core from the warehouse area to the classification room. Sample preparation room and the microscopic laboratory may be available under proper supervision.

Extent of Coverage

The samples represent exploratory drilling on state mineral lands located in the northern half of the state. There is 1.2 million feet of iron ore and .33 million feet of gabbro/greenstone exploration samples on file.

REPOSITORY NAME

Minnesota Geological Survey

Location, Telephone

University of Minnesota
1633 Eustis Street
St. Paul, MN 55108

Telephone: (612) 373-3372

Organization

Part of a central file of geologic data pertaining to the State of Minnesota. Survey Director is Matt Walton

Storage Methods

Cuttings are preserved in two parts; (1) an unwashed fraction in a 3" x 5" kraft-paper envelope, and (2) a washed fraction in a 2½" x 3½" kraft paper envelope. The smaller envelope is stored inside the larger envelope and both are stored upright in 15" x 5¼" cardboard boxes. The samples are cataloged, indexed, and logged; approximately 50 percent of the original drillers' logs are also available.

Diamond drill cores of some holes also are stored at the above address, but approximately 70,000 feet of Minnesota Geological Survey core is stored by the Core Storage Library, U. S. Bureau of Mines, Twin Cities Research Center, Minneapolis, Minnesota.

Availability: Policies of Use

Samples are available to the public and can be examined week days from 8:00 a.m. to 5:00 p.m., but they may not be removed without the written permission of the Director. Some cuttings are held as confidential material until the well is placed into production.

Examination Facilities Equipment

Drillers' logs and Survey prepared lithic logs summarizing rock type, color, dominant grain or crystal size, sorting, and other secondary rock types are available for many of the cuttings. A binocular microscope and work space are available for those interested in preparing their own descriptions.

Extent of Coverage

Approximately 750 sets of cuttings currently are available. Approximately two-thirds of these are from water-wells or test holes drilled in the Twin Cities area in southeastern Minnesota. Other sets are scattered throughout the State with some concentration along the north shore of Lake Superior. Most of the diamond drill cores are from the Precambrian terrane of northern and north-eastern Minnesota.

Remarks

Cuttings samples are stored; (1) if they have particular scientific value (2) if samples are taken at five-foot intervals and at every change in rock types, and (3) if they meet sample distribution requirements of one set of samples per township in rural areas or one set of samples per section in urban areas.

REPOSITORY NAME

U.S. Bureau of Mines
Twin Cities Core Storage Library

Location, Telephone

Twin Cities Mining Research Center
P.O. Box 1660
Twin Cities, MN 55111

Telephone: (612) 725-4500

Organization

The core storage library is operated and maintained by the U.S. Bureau of Mines under the direction of Galen G. Waddell, Research Director, Twin Cities Mining Research Center. The library was established in 1954 when cores from several smaller storage warehouses were consolidated in one warehouse to create a permanent central storage location with facilities for examining core. The cores are intended to provide valuable resource information for evaluating mineral deposits of current and future importance; this is the basic purpose of the library. The stored core is from the eastern and central states (with a few exceptions).

Until the spring of 1975, cores were accepted from anyone who wished to ship them to the library. The present policy is to not accept core for storage; however, because the core storage library system is under study, it is suggested that anyone wishing to store core write to the above address stating the amount of core, date available, and any restrictions.

The library will continue to be operated and maintained for those who wish to examine core.

Storage Methods

Core is stored in a fireproof steel building with aluminum siding. The building is 60 feet wide and 200 feet long, and has a core storage capacity of 1.5 million feet. As of September 1976, the amount of stored core is equivalent to about 80 percent of this capacity. Core received in cardboard boxes is placed in metal trays and stored on racks of steel shelving. The trays are 12 inches wide and 2½ feet in length, with depths ranging from 1¼ to 2¼ inches depending upon core size. There are 42 metal storage racks in the building; each rack is 5 feet wide, 23 feet long, and 7 feet high. Racks are placed in twos to form a storage section 10 feet wide, with 6-foot aisles between sections.

Core trays are stored and assigned serial numbers according to the states from which they originated. Tray number, together with the hole number, property or company name, state, and county are marked on the box. This information is recorded on data sheets in office files and cross indexed according to location and company or property name.

Availability: Policies of Use

Cores are available to the public for examination. In general, representatives of mining companies and those who donated core, university personnel, and representatives from state and Federal agencies have been the only substantive examiners.

All core is on open file. The only restriction is that anyone wishing to take samples for analysis must have permission in writing from the Research Director, Twin Cities Mining Research Center. The Bureau also requests that any data obtained through analysis or logging be made available for its records.

Examination Facilities/Equipment

Cores may be examined by prearrangement at the library annex, a heated, lighted room attached to the warehouse for this purpose. There is no equipment available.

Extent of Coverage

As of September 1976 the library contains 1,202,482 feet of core in permanent storage. Ten states account for about 94 percent of this core as follows:

<u>State</u>	<u>Footage of Core</u>
Minnesota	415,707
Michigan	350,738
Missouri	100,200
Wisconsin	79,921
New York	75,887
Maine	49,301
Virginia	19,520
Pennsylvania	14,934
Alabama	14,850
Arkansas	12,670
	<u>1,133,728</u>

The following list of 17 states and Canada account for the remaining footage, in decreasing order:

Illinois, South Dakota, North Carolina, New Jersey, Georgia, Kentucky, Texas, New Hampshire, Tennessee, South Carolina, Maryland, Vermont, Nevada, Iowa, West Virginia, North Dakota, and Connecticut.

Remarks

Anyone wishing to examine core in the library should contact the Bureau of Mines at the address given in section I. A core footage reference index in the library is available to assist in locating core.

The Bureau of Mines operates and maintains another core storage library in Denver. Interested persons should contact the Chief, Intermountain Field Operation Center, Building 20, Denver Federal Center, Denver, Colorado 80225 (Telephone: (303) 234-3918) for further details.

OUT-OF-STATE REPOSITORIES

None listed

PRIVATE REPOSITORIES

Amoco Production Company - Ft. Worth, Texas

Hanna Mining Company - P.O. Box 218, Hibbing, MN 55746

Hanna Mining Company - Research Laboratory, P.O. Box 67, Nashwauk, MN 55769

Jones & Laughlin Steel Co. - P.O. Box 941, Virginia, MN 55792

Knox Mining Corporation - Rockland, ME 04841

Pickands Mather & Co. - Hibbing Research Laboratory, Hibbing, MN 55746

MISSISSIPPI

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

- A. ROCK MATERIALS
Cuttings/cores -- There are no regulations requiring these materials to be filed with any State agency.
- B. DOCUMENTS
There are no regulations requiring these materials to be filed with any State agency.
- C. CONFIDENTIAL PERIOD
Rock materials -- None
Documents -- Any log material provided the State Survey will be held confidential for one (1) year, if requested. Material from stratigraphic tests is confidential for an indefinite period.

REPOSITORY NAME

Mississippi Geological Economic & Topographic Survey

Location, Telephone

2525 N. West Street
P.O. Box 4915
Jackson, MS 39216

Telephone: (601) 354-6228

Organization

The sample and core repository is an integral part of the State Survey, William H. Moore, Director. Edwin E. Luper is in charge of the repository and correspondence should be directed to Mr. Moore or Mr. Luper.

Storage Methods

Cores and samples are received from anyone drilling a well in the State of Mississippi and from the adjacent counties in states adjoining the State of Mississippi. Washed and dried samples are placed in manila envelopes 3 x 4 5/8 inches. These envelopes are placed in fiber-board boxes, 18 x 5 x 3 7/8 inches. The boxes are labeled with a distinct number as well as the well name and placed on metal shelves. A card is typed with the same information and kept in a card file. Cores are quartered with a rock saw and placed in boxes able to hold 10 feet of core. The boxes are labeled as above and a card file is maintained. No catalog is available at this time.

Availability: Policies of Use

It is the policy of the survey that all samples and cores be examined at the office at 2525 N. West Street, Jackson, Mississippi. Special arrangements with the Director may be made for examination at locations other than the office in Jackson.

Examination Facilities/Equipment

Fluoroscope, microscopes, micro-photographic equipment, adequate lighting and tables are available at the office at 2525 N. West Street, Jackson, Mississippi.

Extent of Coverage

Sample coverage is as follows:		Core coverage is as follows:	
Mississippi	5307	Mississippi	238
Alabama	157	Alabama	15
Florida	19	Louisiana	2
Louisiana	21		
Tennessee	2		
Georgia	1		

OUT-OF-STATE REPOSITORIES

Petro-Core Service Company - See Texas

Virginia Polytechnic Institute and State University - See Virginia

PRIVATE REPOSITORIES

Amoco Production Company - New Orleans, LA
Cities Service Oil Company - 4785 I-55 North, P.O. Box 12026, Jackson, MS 39211
Cities Service Oil Company - Tulsa, OK
Continental Oil Company - Ponca City, OK
Exxon Company, USA - Houston, TX
Getty Oil Company - New Orleans, LA
Gulf Oil Company - New Orleans, LA
Murphy Oil Company - El Dorado, AR
Phillips Petroleum Company - Bartlesville, OK
Shell Oil Company - New Orleans, LA
Texaco, Inc. - New Orleans, LA
Union Oil Company of California - Houston, TX

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings -- There are no regulations requiring drillers or operators to save this material. There are requirements for selective saving of core and cuttings if related to production of or exploration for oil or gas. These requirements for samples (core) are outlined at the time the permit is applied for.

There is legislation which makes it mandatory for the Missouri Survey to receive and examine all water well samples from wells which will ultimately result in a public water supply (for casing depth determination). Routine private water well and mineral tests are sent voluntarily and the Survey has maintained good relations with Missouri drillers by giving them a log of cuttings as soon as possible.

Cores -- These are voluntary contributions. Some have long periods of confidentiality, others none. The Missouri Survey has maintained excellent cooperation with Missouri mining companies with this voluntary program.

B. DOCUMENTS

A small mechanical log file is a direct result of the 1966 legislation which created the Oil and Gas Council. Certain data from oil and gas tests are required.

There is an extensive file of drillers' logs (14,000) and 27,000 logs made by Survey geologists.

C. CONFIDENTIAL PERIOD

Most drill cuttings are open file, however, some mineral tests and oil tests have as high as 10 years confidentiality. Core is kept on a "closed file" basis, however, the Survey uses lithology in a given region without divulging the company name or exact location.

REPOSITORY NAME

Department of Geology & Geophysics

Location, Telephone

University of Missouri - Rolla
Rolla, MO 65401

Telephone: (314) 341-4616

Organization

This repository was established as a part of the teaching facility in the University. It is maintained by the Department. The samples were donated to the Department by various petroleum companies. They represent duplicate material, at least in part.

Storage Methods

The samples are stored in paper envelopes in narrow labeled drawers and are arranged in consecutive order. They are stored in the Petroleum Laboratory, Room 303, Norwood Hall.

Availability: Policies of Use

The material is available for examination by contacting the Department Secretary in Room 208, Norwood Hall.

Examination Facilities/ Equipment

Microscope and examination tables are available for the study of the samples.

Extent of Coverage

About 92 wells are available which represent the states of Illinois, Oklahoma, and Kansas.

REPOSITORY NAME

Division of Research and Technical Information

Location, Telephone

Missouri Department of Natural Resources
Office of the State Geologist
P.O. Box 250
Rolla, MO 65401

Telephone: (314) 364-1752

Organization

Samples and core are given to the division either for general use or with certain confidentiality attached. Most drill cuttings are rotary or churn drill in origin. Samples may be studied here by contacting K. H. Anderson, Chief Subsurface Geologist, Oil and Gas Section.

Storage Methods

Core is mostly NX stored on shelves in cardboard core boxes. Samples stored in glass vials in drawers. No catalog. Samples stored by file number and are easily retrieved. There are approximately 3,000,000 insoluble residue samples and 100,000- feet of core.

Availability: Policies of Use

Most samples are available to the public for examination. Generally, samples may not be removed from the repository. Only a portion of core is available for study.

Examination Facilities/Equipment

All types except x-ray, microprobe, etc. Work space is available and most types of equipment can be made available (except x-ray, etc.).

Extent of Coverage

Core mostly from southeastern Missouri mining area and nearly all in upper Cambrian. Samples well scattered over southern Missouri. Fewer in northern Missouri.

OUT-OF-STATE REPOSITORIES

Kansas Geological Survey - See Kansas

U.S. Bureau of Mines - See Minnesota

PRIVATE REPOSITORIES

Amoco Production Company - Ft. Worth, TX

Shell Oil Company - Midland, TX

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- When drilling or deepening a well for oil, gas or stratigraphic information the operator must deliver, prepaid, to the Board of Oil and Gas Conservation at Billings, Montana, a complete set of the cuttings, and a complete and representative set of core chips or cores within a period of six months after the completion or abandonment of the well. The Board may relieve any operator from the obligation to so deliver the above material.

B. DOCUMENTS

Within thirty (30) days after the completion, reworking or abandonment of any well drilled to known productive horizons within a delineated field, the operator shall deliver to the Board of Oil and Gas Conservation three (3) copies of Form 4 or Form 2 as appropriate, three (3) original copies of all well logs, drill stem test survey reports, sample and core description logs, core analysis reports, water analyses reports and all other logs, surveys and reports run or made.

For a wildcat, exploratory or stratigraphic well the operator must transmit the above material within a period of six (6) months to the Board of Oil and Gas Conservation.

C. CONFIDENTIAL PERIOD

Rock material and documents -- Three years from date of abandonment or completion unless prior consent of operator is obtained.

REPOSITORY NAME

American Stratigraphic Co.

Location, Telephone

17 North 31st Street
Billings, MT 59101

Telephone: (406) 259-7647

Organization

Established in 1947 as the Denver Sample Log Company in Golden, Colorado, the Company now has its southern Rocky Mountain and home office in Denver. The northern Rocky Mountain area is served by offices in Casper, Wyoming and Billings, Montana. All three offices have well sample libraries and two of these offices have sample processing services. A subsidiary, the Canadian Stratigraphic Service Ltd. in Calgary, Alberta, does not maintain a sample library or processing service.

Storage Methods

Well cuttings and core chips are washed and packaged in 3" x 5" tin-tie envelopes and stored in cardboard boxes on wooden shelves. Each well is indexed with a unique file number and a card index of all available material is maintained by well location.

A processing fee of 1½ cents per drilled foot is charged each operator for a permanent cut of samples to be placed in the library. A part of the stored samples are maintained in the repository in the Denver office.

Availability: Policies of Use

Samples are available on a rental basis. The current fee is \$8.50 per box, for a thirty (30) day period, plus shipping charges, with a minimum charge of \$15.00.

Examination Facilities/Equipment

No examination facilities or microscopes are available. With sufficient notice, a table may be provided for a short period of time.

Extent of Coverage

This library facility contains sets of cuttings as follows: Montana - 4500, North Dakota - 3000, South Dakota - 400.

REPOSITORY NAME

Board of Oil and Gas Conservation

Location, Telephone

15 Poly Drive
Billings, MT 59101

Telephone: (406) 252-5109

Organization

The office at Billings represents the technical and southern field office of the Board of Oil and Gas Conservation which is under the jurisdiction of the Montana Department of Natural Resources and Conservation, Gary Wicks, Director. The Billings office is under the Supervision of Judson Sweet, Petroleum Engineer.

Storage Methods

Well cuttings are preserved in envelopes and stored in cardboard boxes on steel shelves. Approximately 9265 sets are in the collection. Where cores were cut, chips taken at 5 foot intervals are stored with the cuttings. In addition, some full diameter cores are in the collection.

Availability: Policies of Use

Samples may be examined at the Billings office but cannot be loaned out to the general public. Any person or company who has contributed material may, at any time, withdraw his own samples for study.

Examination Facilities/Equipment

Laboratory facilities are available at the Billings repository.

Extent of Coverage:

Only wells from Montana are stored in the repository at Billings.

REPOSITORY NAME

Montana Bureau of Mines and Geology

Location, Telephone

Montana College of Mineral Science and Technology
Department of Geological Engineering
Butte, MT 59701

Telephone: (406) 792-8321

Organization

The Montana Bureau of Mines and Geology maintains this repository facility at the College. These materials are slim cores (AX, BX etc) from mining exploration studies. Further information may be obtained from Mr. Willis Johns, Chief Geologist, Butte, MT 59701

Storage Methods

Core material is maintained in boxes on wooden shelves. The Montana Bureau is presently cataloging all available material.

Availability: Policies of Use

Interested investigators should contact the Office of the Chief Geologist of the Bureau.

Examination Facilities/Equipment

There is limited space available and users should provide their own equipment.

Extent of Coverage

This facility contains 2800 boxes of core material from the mining areas of Montana.

REPOSITORY NAME

Department of Geology

Location, Telephone

University of Montana
Missoula, MT 59801

Telephone: (406) 243-2341

Organization

Materials in this repository are used primarily for teaching and student research. Wells selected as representative subsurface samples by Dr. James Peterson. Oil companies, stratigraphic companies and student research have provided these sets of well cuttings.

Storage Methods

Cores listed and stored by geology department. List of samples and cores maintained by Geology Department Curator. Listed by section, township and range where information is available. Detailed logs of some wells.

Availability: Policies of Use

Available for research by qualified personnel.

Examination Facilities/Equipment

Microscopes, x-ray diffraction units, thin section lab and preparatory atomic absorption unit, infrared spectrophotometer, geochemistry lab, photographic lab including Leitz Ultraphot, petrographic reference collection.

Extent of Coverage

Montana - 160 wells, principally east of continental divide.

OUT-OF-STATE REPOSITORIES

U.S. Bureau of Mines - See Colorado

PRIVATE REPOSITORIES

Amoco Production Company - Denver, CO
Atlantic Richfield Company - Denver, CO
Chevron Oil Company - Denver
Cities Service - Tulsa, OK
Continental Oil Company - Ponca City, OK
Exxon Company, USA - Denver, CO
Marathon Oil Company - Casper, WY
McAlester Fuel Co. - Magnolia, AR
Mountain Fuel Supply Co. - Salt Lake City, UT
Phillips Petroleum Company - Bartlesville, OK
Shell Oil Company - Denver, CO
Sun Oil Company - Richardson, TX
Tenneco Oil Company - Denver, CO
Texaco, Inc. - Denver, CO
Union Oil Company of California - Casper, WY

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- The Nebraska Oil and Gas Conservation Commission will notify operators when samples from a well are requested by the Nebraska Geological Survey. When indicated on Form 2, a systematic interval of sample cuttings shall be saved and submitted to the Nebraska Geological Survey, in accordance with their request, within ninety (90) days following completion or deepening of a well.

B. DOCUMENTS

All wells drilled for oil and/or gas shall be adequately logged with appropriate mechanical, electrical or radiation devices, unless excepted, and submitted within thirty (30) days to the Oil and Gas Conservation Commission. A drillers' log for cable tool wells and drill stem tests reports must be submitted. Copies of other surveys (core analysis, water analysis, mud logs) may be submitted at operators option.

C. CONFIDENTIAL PERIOD

Rock material and documents -- May be held confidential not more than twelve (12) months.

REPOSITORY NAME

Nebraska Geological Survey

Location, Telephone

Conservation and Survey Division
University of Nebraska
901 North 17th Street
Lincoln, NE 68508

Telephone: (402) 472-3471

Organization

The storage facility is funded by the State to collect natural resource data. There is statutory requirement that samples from deep wells be filed. This effort is coordinated through the Oil and Gas Commission.

Storage Methods

Cores stored in cardboard boxes. Rotary samples in labeled, metal flap envelopes. The labeled cardboard boxes are keyed to a card file indexed by county and legal description. There is no published catalog.

Availability: Policies of Use

Samples may be examined at no charge in our office during normal office hours. No loan service.

Examination Facilities/Equipment

There are no facilities and only a limited number of microscopes available.

Extent of Coverage

Nearly 8,000 deep wells and 3,500 shallow tests. Statewide coverage of nearly all wildcat and many field wells.

OUT-OF-STATE REPOSITORIES

American Stratigraphic Co. - See Colorado
Kansas Geological Survey - See Kansas

PRIVATE REPOSITORIES

Amoco Production Company - Denver, CO
Atlantic Richfield Company - Denver, CO
Chevron Oil Company - Denver, CO
Cities Service Oil Company - Tulsa, OK
Continental Oil Company - Ponca City, OK
Exxon Company, USA - Denver, CO
Exxon Company - Midland, TX
Marathon Oil Company - Casper, WY
Phillips Petroleum Company - Bartlesville, OK
Shell Oil Company - Denver, CO
Shell Oil Company - Midland, TX
Texaco, Inc. - Denver, CO
Union Oil Company of California - Casper, WY

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings -- Must be collected at 10-foot intervals and submitted to Nevada Bureau of Mines and Geology (NW. Oil & Gas Conservation Commission regulation)

Cores -- Pieces of each core must be submitted to Nevada Bureau of Mines and Geology (NOGCC regulation).

B. DOCUMENTS

Two (2) copies of all logs must be submitted to the Nevada Oil and Gas Conservation Commission; one set is placed in Nevada Bureau of Mines and Geology files.

C. CONFIDENTIAL PERIOD

Rock materials and documents -- Upon request, these materials can be held confidential for six (6) months.

REPOSITORY NAME

Nevada Bureau of Mines and Geology

Location, Telephone

University of Nevada
Reno, NV 89507

Telephone: (702) 784-6691

Organization

Established by State law as a division of the University of Nevada.

Storage Methods

Cuttings filed in paper envelopes in cardboard boxes and maintained on shelves. Cores are in core boxes in racks. All material is indexed in a card file at the Bureau office. No printed catalog is available.

Availability: Policies of Use

Samples and cores are available to all interested and qualified investigators by contacting the Bureau for an appointment.

Examination Facilities/Equipment

Lighted space is limited with tables and chairs. There is no examination equipment.

Extent of Coverage

Nevada - 50 oil and gas wells; 50 mineral exploration holes

Remarks

Supporting data (logs, reports, etc.) is on file for most oil and gas wells.

OUT-OF-STATE REPOSITORIES

American Stratigraphic Co. - See Colorado
Four Corners Sample Cut Association - See New Mexico
U. S. Bureau of Mines - See Colorado
U. S. Bureau of Mines - See Minnesota

PRIVATE REPOSITORIES

Amoco Production Company - Denver, CO
Atlantic Richfield Company - Denver, CO
Exxon Company USA - Denver, CO
Shell Oil Company - Denver, CO
Tenneco Oil Company - Denver, CO
Texaco, Inc. - Los Angeles, CA
Western Operations, Inc. (Standard of California) - Richmond, CA
Union Oil Company of California - Santa Fe Springs, CA

Kennecott Copper Corp. - Ruth, NV 89319

NEW HAMPSHIRE

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

REPOSITORY NAME

New Hampshire Department of Public Works and Highways

Location, Telephone

Materials and Research Division
Stickney Avenue
Concord, NH 03301

Telephone: (603) 271-3151

Organization

All cores and samples are held by:
Soils and Foundation Section
Materials and Research Division
New Hampshire Department of Public Works and Highways

These materials are taken for study and research on all proposed public works projects.

Storage Methods

Rock cores and samples from preliminary explorations for highway and bridge construction projects are normally stored until project is complete.

Availability: Policies of Use:

Cores and samples are available for inspection by interested parties.

Examination Facilities/Equipment

There is no equipment available. Work space can be made available with sufficient notice, however it is very limited.

Extent of Coverage

Statewide coverage for state projects. When construction is completed, materials are generally discarded.

OUT-OF-STATE REPOSITORIES

Harvard University, Dept. of Geology - See Massachusetts
University of Texas, Arlington, Geology Dept. - See Texas
U. S. Bureau of Mines - See Minnesota
U. S. Corps of Engineers - See Massachusetts

PRIVATE REPOSITORIES

Amoco Production Company - New Orleans, LA
Gulf Oil Company - New Orleans, LA
Shell Oil Company - New Orleans, LA

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- Only a New Jersey licensed driller may drill a well in the State. Under the well drilling law, which covers wells for water, oil, gas or for the disposal of these and other liquids, samples may be requested by the Bureau of Geology and Topography when the permit-to-drill is issued. Sample intervals are specified for each instance. There are no regulations specifically for oil and gas exploration.

B. DOCUMENTS

Within ninety (90) days after completion of a well, the driller must complete and file a well report form to the Bureau. All other documents (i.e. logs, records, etc.) if made available are maintained in the Bureau file.

C. CONFIDENTIAL PERIOD

Rock material and documents -- None, unless specifically requested for a valid reason.

REPOSITORY NAME

New Jersey Bureau of Geology and Topography

Location, Telephone

Department of Environmental Protection

Division of Resources

Box 2809

Trenton, NJ 08625

Telephone: (609) 292-2506

Organization

State Geological Survey established 1863 and operated under various State Divisions continuously since; charged with making information about the State's resources available to the public.

Storage Methods

There is a minimal storage of samples and water well cuttings. There are some 70,000 water well records. We do not have cores, indexes, or catalogs but can supply records based on geographic location.

Availability: Policies of Use

All materials are available for interested parties, however, they must be examined in the office under the supervision of a staff geologist.

Examination Facilities/Equipment

Work space is available. Equipment is limited to one binocular microscope.

Extent of Coverage:

About 7,000 square miles in the State of New Jersey; about 70,000 well records at the present time. Off-shore exploration materials will be included in the State's repository.

OUT-OF-STATE REPOSITORIES

Academy of Natural Sciences of Philadelphia - See Pennsylvania

University of Texas, Arlington, Geology Dept. - See Texas

U.S. Bureau of Mines - See Minnesota

PRIVATE REPOSITORIES

Amoco Production Company - New Orleans, LA

Gulf Oil Company - New Orleans, LA

Shell Oil Company - New Orleans, LA

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- There are no regulations requiring these materials to be filed with any State agency.

All voluntary contributions or State acquired materials in library facility.

B. DOCUMENTS

The New Mexico Oil Conservation Commission requires mechanical logs, drillers' logs and DST records. Core analysis records and hydrocarbon logs (mud logs) are not required. Fluid analysis records are not ordinarily required but may be in special cases.

C. CONFIDENTIAL PERIOD

Rock material -- No policy in effect, however the Bureau of Mines and Minerals when requested, will hold samples confidential for period up to two (2) years. Documents -- The New Mexico Oil Conservation Commission will keep documents confidential for ninety (90) days if requested in writing by the owner of the well. Otherwise, documents are not kept confidential.

REPOSITORY NAME

Department of Geology

Location, Telephone

University of New Mexico
Albuquerque, NM 87131

Telephone: (505) 277-4204

Organization

This repository established for course work by the Geology Dept. through the efforts of S. A. Wengerd, R. V. Anderson and C. T. Siemers.

Storage Methods

Cuttings are stored in basement and are poorly organized with no index or catalog available.

Availability: Policies of Use

Available only for courses in geology.

Examination Facilities/Equipment

NONE

Extent of Coverage

Scattered wells from New Mexico and West Texas

REPOSITORY NAME

Four Corners Sample Cut Association

Location, Telephone

641 W. Broadway
P.O. Box 899
Farmington, NM 87401

Telephone: (505) 325-9232

Organization

Organized as a cooperative non-profit corporation and operated by member companies active in the Four Corners area. A board of directors is elected annually to govern the Cuts' activities. The immediate supervisor and manager is Mrs. Jo Ratcliff.

Storage Methods

Well cuttings and core chips are packaged in coin size envelopes with well name, location and footage marked. These are filed in cardboard boxes and maintained in a library system. A card index file giving the operator, location, etc. is maintained in the office. A catalog is available to all interested parties.

Availability: Policies of Use

All wells are held confidential until released by the operator. When being processed, cuts may be purchased by interested parties.

Sample rentals from the library are available as follows:

1. Members - \$5.00 per box with a maximum of \$25.00 per well.
2. Non-members - \$15.00 per box with a maximum of \$75.00 per well
3. An operator of record may borrow his own well at no charge.

All shipping or mailing costs are to be paid by the borrower. Rental rates are for a one (1) month period excluding travel time. A charge of \$1.00 per box per day is made for all wells kept over the one month period.

Memberships are preferred but not required. If not one of the organizing companies, a membership is available by subscription.

Examination Facilities/Equipment

Work space is extremely limited and all users are encouraged to take sample sets out to examine. No equipment is available.

Extent of Coverage

Arizona, Colorado, Nevada, New Mexico, Utah, Wyoming. The library contains over 2,000 wells.

REPOSITORY NAME

New Mexico Library of Subsurface Data

Location, Telephone

The New Mexico Institute of Mining and Technology
Campus Station
Socorro, NM 87801

Telephone: (505) 835-5402

Organization

This permanent repository is maintained by the New Mexico Bureau of Mines and Mineral Resources. The collection of well samples was begun about 1940.

Storage Methods

Permanent storage for cuttings and/or core chips is in coin envelopes and half-pound paper bags placed in cardboard boxes 15 inches or 2 feet long. A card index system is kept giving the location in section, township, and range, county, operator's name, well number, lease, total depth, depth range of samples and box (shelf) number. The cards are filed by township, range, and section. Permanent metal shelving has been erected for storage. A catalog listing the samples on file is available.

Availability: Policies of Use

Samples are readily available during regular working hours at the Bureau offices in Socorro. Samples will be loaned for short periods of time to

reliable individuals and organizations provided that they are not cut or otherwise damaged or depleted. Permission must be obtained before material which cannot be replaced is removed from the samples for paleontological identification, thin sections, or chemical analysis. Permission is usually granted provided that copies of the identifications or analyses are furnished to the Bureau for its sample record.

Examination Facilities/Equipment

Facilities are provided at the Bureau offices in Socorro for the microscopic examination of well cuttings. Such facilities include a place to work, mineral light and, if necessary, a binocular microscope.

Extent of Coverage

The bulk of the samples represent both wildcat and field wells drilled in New Mexico. Though only a small proportion of the total field wells drilled are represented at present, every effort is made to secure samples from wildcat tests. With a few exceptions, duplicate sample sets are not kept. In addition to New Mexico wells, a number of sample sets from wells drilled in Southwest Colorado, Southeast Utah, Arizona, and West Texas are available. A number of sample sets from water wells and uranium exploration drilling are included in the collection. As of January 1, 1975 there were 9500 sample sets on file occupying 32,000 boxes.

Remarks

Because of limited storage facilities, no effort is made at present to obtain and store whole cores. However, core chips from a great many San Juan Basin wells are filed with the cuttings.

'OUT-OF-STATE REPOSITORIES

American Stratigraphic Company - See Colorado
Arizona Oil and Gas Conservation Commission - See Arizona
U. S. Bureau of Mines - See Colorado

PRIVATE REPOSITORIES

Amoco Production Company - Denver, CO
Amoco Production Company - Ft. Worth, TX
Atlantic Richfield Company - Denver, CO
Atlantic Richfield Company - Midland, TX
Chevron Oil Company - Denver, CO
Cities Service Oil Company - Tulsa, OK
Continental Oil Company - Ponca City, OK
El Paso Natural Gas Co. - P. O. Box 990, Farmington, NM 87401
El Paso Natural Gas Co. - Midland, TX
Exxon Company, USA - Denver, CO
Exxon Company, USA - Midland, TX
Marathon Oil Company - Casper, WY
Mobil Oil Corporation - Midland, TX
Phillips Petroleum Company - Midland, TX
Phillips Petroleum Company - Bartlesville, OK
Shell Oil Company - Denver, CO

Shell Oil Co. - Midland, TX
Superior Oil Company - Midland, TX
Tenneco Oil Company - Denver, CO
Tenneco Oil Company - Midland, TX
Texaco Oil, Inc. - Denver, CO
Texaco Oil, Inc. - Midland, TX
Union Oil Company of California - Casper, WY
Union Oil Company of California - Midland, TX

Bear Creek Mining Co. - Tucson, AZ

NEW YORK

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

REPOSITORY NAME

Lamont-Doherty Geological Observatory

Location, Telephone

New Core Laboratory
Palisades, NY 10964

Telephone: (914) 359-2900

Organization

See Special Category

OUT-OF-STATE REPOSITORIES

Academy of Natural Sciences of Philadelphia - See Pennsylvania

Harvard University, Dept. of Geology - See Massachusetts

Pennsylvania Geological Survey - See Pennsylvania

University of Texas, Arlington, Geology Dept. - See Texas

U. S. Bureau of Mines - See Minnesota

U. S. Corps of Engineers - See Massachusetts

PRIVATE REPOSITORIES

Amoco Production Company - Ft. Worth, TX

Exxon Company - New Orleans, LA

Shell Oil Company - Midland, TX

Jones & Laughlin Steel Corp. - Benson Mines, Star Lake, NY 13690

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- The Petroleum Division of the Department of Natural and Economic Resources requires " --- When such are recovered in the course of drilling, cuttings (cores not specified) shall be taken at intervals of approximately thirty (30) feet and furnished to the department."

The Department of Water and Air Resources requires samples for ten (10) foot intervals and/or depths of significant formation change from a) all wells requiring a permit, b) all exploratory, test or water supply wells and c) all exploratory, test or injection wells drilled for disposal or recharge purposes.

B. DOCUMENTS

The Petroleum Division requires a daily record (drillers' log) be maintained of drilling activities and it should be filed, on prescribed form, fifteen (15) days after completion, with the Department. Also, copies of any electrical, geophysical, etc. surveys should be filed with the Department within thirty (30) days.

Basically, the same information, logs, etc. are required by the Dept. of Water and Air Resources on all wells drilled for water supply, injection or disposal purposes.

C. CONFIDENTIAL PERIOD

Rock materials -- Status of this material not specifically stated. Rules concerned with documents could be interpreted to apply.

Documents -- The well records (drillers' log) will be held confidential, if requested in writing, for a period not to exceed one hundred eighty (180) days after completion of the well. An extension of this period of an additional (180) days is possible in sixty (60) day increments.

REPOSITORY NAME

Mineral Resources Section

Location, Telephone

Division of Resources Planning and Evaluation
Department of Natural & Economic Resources
Raleigh, NC 27611

Telephone: (919) 829-3833

Organization

Well sample repository is operated and maintained as function of the North Carolina Oil and Gas Conservation Act, which requires the operator to file a set of sample cuttings from each petroleum exploration well drilled in the state.

Storage Methods

Washed well cuttings are preserved in manila envelopes, stored in cardboard boxes and filed on steel shelving. Also, duplicate sets of unwashed cuttings are available. Each set of cuttings is assigned an API number and filed by county. Catalog of wells available on request. Limited number of cores, from throughout state, have been obtained as donations from completed mineral exploration programs. Cores preserved in wooden or cardboard boxes and stored on steel shelving.

Availability: Policies of Use

Well cuttings and cores available for examination and study by qualified persons. Cuttings and cores are not available for loan.

Examination Facilities/Equipment

Work space and binocular microscope are available on a prearranged basis.

Extent of Coverage

Collection consists principally of cuttings from approximately 100 petroleum exploration wells drilled in Coastal Plain region since 1946.

OUT-OF-STATE REPOSITORIES

Academy of Natural Sciences of Philadelphia - See Pennsylvania
University of Texas, Arlington, Geology Dept. - See Texas
U. S. Bureau of Mines - See Minnesota

PRIVATE REPOSITORIES

Amoco Production Company - New Orleans, LA
Exxon Company, USA - New Orleans, LA
Gulf Oil Company - New Orleans, LA
Shell Oil Company - New Orleans, LA

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings -- Rule 206. "Sample cuttings of formations, taken at regular intervals, in all wells drilled for oil or gas or geological information in the state of North Dakota, shall be carefully identified as to operator, well name and location, and depth of sample, and shall be shipped free of cost to the State Geologist, if requested."

Cores -- Rule 206. "----advise the State Geologist, or his representative, of all intervals that are to be cored or have been cored, and such cores as are taken shall be preserved and forwarded to the State Geologist, free of cost, when such are requested by him. In the event the State Geologist does not desire the core, the operator shall advise him of the final disposition of the core."

B. DOCUMENTS

Rule 117 -- "Within thirty (30) days after the completion of a well drilled for oil or gas, or the recompletion of a well into a different source of supply, a completion report shall be filed with the State Geologist on a form prescribed by the Commission. The logs on such wells shall be forwarded to the State Geologist, without cost to him, and shall be confidential for a period of six (6) months when so requested by the operator in writing."

C. CONFIDENTIAL PERIOD

Rock materials and documents -- Upon request, cuttings/cores from oil and gas tests will be held confidential for six (6) months. On stratigraphic tests six (6) months with an additional one (1) year if requested. Other mineral tests one (1) year; coal evaluation data, two (2) years with an extension to seven (7) years, if requested.

Note: All of the above information from The Industrial Commission of North Dakota.

REPOSITORY NAME

North Dakota Geological Survey

Location, Telephone

University of North Dakota
University Station
Grand Forks, ND 58202

Organization

The sample repository is an integral part of the North Dakota Geological Survey; E. A. Noble, State Geologist. The sample repository is in charge of S. B. Anderson, Geologist and is supervised by Palmer G. Roos, Technician. Regulations of the North Dakota State Industrial Commission require the well operator to provide the State Survey with a set of drill cuttings and the cores.

Storage Methods

Well cuttings are preserved in envelopes holding 1 to 2 oz. or less of sample and are kept in cardboard boxes on wooden shelving. Cores are stored as complete entities as received. Most of these cores are preserved in three foot cardboard boxes. Cores that are received in boxes in bad condition are reboxed. Both samples and cores are indexed. At the present time catalogues are out of print and are unavailable.

Availability: Policies of Use

Samples and cores are available for study during office hours at the repository. They are not loaned out or shipped.

Examination Facilities/Equipment

Facilities are provided for studying the samples at the State Geological Survey. Certain equipment is available.

Extent of Coverage

Coverage is statewide and consists of samples from approximately 4,500 oil tests, and 3,500 water wells. The water well samples are for the most part provided by the State Water Commission. In addition to the sample coverage, approximately 40,000 boxes of oil well core are stored in the library.

Remarks

The collection was established in the early 1920's, but the majority of the samples have been accumulated since April, 1951. Also, the Survey files contain electric radioacitve and some sample logs along with other documentary data.

OUT-OF-STATE REPOSITORIES

American Stratigraphic Company - See Montana
U. S. Bureau of Mines - See Minnesota

PRIVATE REPOSITORIES

Amoco Production Company - Denver, CO
Atlantic Richfield Company - Denver, CO
Chevron Oil Company - Denver, CO

PRIVATE REPOSITORIES (Cont'd.)

Cities Service - Tulsa, OK
Continental Oil Company - Ponca City, OK
Exxon Company, USA - Denver, CO
Marathon Oil Company - Casper, WY
Phillips Petroleum Company - Bartlesville, OK
Shell Oil Company - Denver, CO
Sun Oil Company - Richardson, TX
Tenneco Oil Company - Denver, CO
Texaco, Inc. - Denver, CO
Union Oil Company of California - Casper, WY

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings -- "Upon request, in writing, by the Chief of the Division of Geological Survey prior to the beginning of drilling of the well, the person drilling the well shall make available a complete set of cuttings ..."

Cores -- Ohio has no regulations for the preservation of cores. Generally operators make cores available to the geological survey on a voluntary basis.

B. DOCUMENTS

"Any electric log, or radioactivity log, or other geophysical log, if made in connection with the well shall be filed with the division (of oil and gas) and the chief shall transmit such logs to the division of geological survey."

C. CONFIDENTIAL PERIOD

Rock samples-- None provided for by law, however, if requested by the operator the Survey will hold cuttings/cores for one (1) year.

Documents -- "(geophysical) logs may be retained by the owner for a period of not more than six months, or such additional time as may be granted by the chief (of the division of oil and gas) in writing, after the completion of the well substantially to the depth shown in the application (for permit to drill a well).

REPOSITORY NAME

Ohio Division of Geological Survey

Location, Telephone

Fountain Square
Columbus, OH 43224

Telephone: (614) 466-5344

Organization

Subsurface section of Geological Survey

Storage Methods

Samples: There are approximately 3300 sets. Samples are washed and stored in envelopes. Samples received and processed through 1967 have been indexed in Information Circulars 31 and 35.

Cores: Approximately 90 sets of core. In addition, 26 sets (as of January 1975) are stored at the Department of Geology, University of Toledo.

Availability: Policies of Use

Samples and cores are available for examination to qualified persons. Contact the Subsurface Section of the Survey.

Examination Facilities/Equipment

Work space is available for examination work. All equipment necessary should be provided by the investigator.

Extent of Coverage

3300 wells in Ohio represented by samples and cores; a few selected sample sets are from surrounding states.

OUT-OF-STATE-REPOSITORIES

Indiana Geological Survey - See Indiana
Kentucky Geological Survey - See Kentucky
Michigan State University, Geology Dept. - See Michigan
Pennsylvania Geological Survey - See Pennsylvania

PRIVATE REPOSITORIES

Amoco Production Company - Ft. Worth, TX
Exxon Company, USA - New Orleans, LA
Shell Oil Company - Midland, TX

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

- A. ROCK MATERIALS
Cuttings/cores -- There are no regulations requiring these materials to be filed with any State agency.
- B. DOCUMENTS
Only requirements are:
1. File completion report form 1002A within 30 days after completion of operations.
 2. Within 60 days after completion of any formation evaluation wire line log, except dip and velocity log, file copy thereof.
 3. Well survey of a controlled directionally drilled well must be filed. Prior approval of commission is required for such a well.
- C. CONFIDENTIAL PERIOD
1. Rock samples: not applicable
 2. Documents: Formation evaluation wire line logs may be withheld for a period of up to three (3) years after being filed in a sealed envelope attached to the required form 1002A.

REPOSITORY NAME

Ardmore Sample Cut and Library

Location, Telephone

104 H Street NW
P.O. Box 542
Ardmore, OK 73401

Telephone: (405) 223-8884 (office) or 223-2195 (residence)

Organization

The Library is operated in conjunction with the Sample Cut, and both are a private organization owned by J. Elbert King. The Sample Cut was organized in 1932 by a few major oil companies. The Library was started May 1, 1946 with samples from approximately 10,000 wells donated by: Gulf Oil, Phillips Oil Co., Texaco Inc., Sinclair Oil & Gas, California Co., and Samedan Oil Co.

Storage Methods

Washed samples are placed in 3" x 5" sample envelopes and filed in cardboard boxes. Each box is assigned an individual file number. A card index file is maintained by section, township, range and section spot and each card records the operator, well number, lease, depth range of the sample cuttings and the file number. A backup listing is kept in chart form. No printed catalog is available.

Availability: Policies of Use

The sample cut and library are supported by the memberships of major companies. A membership in the Sample Cut is \$100 per month, and for the Library \$75 per month. At the present time we have 13 companies that are members of the Sample Cut and six of these are members of the Library. Rental fees for non-members is \$25 per well or any portion of a well. Non-member support of this facility is important to its continued operation.

Examination Facilities/Equipment Available

A room is available for sample examination work. Each library user should provide his own equipment.

Extent of Coverage

Oklahoma - The area covered includes township south, ranges east and west. In the north and west range materials are received from the Anadarko Basin as far north as the Elk City Field.
Texas - Some wells are processed and available from Cooke, Grayson, and Montague Counties.

The repository contains materials from approximately 50,000 wells.

REPOSITORY NAME

The University of Oklahoma
Core and Sample Library

Location, Telephone

Oklahoma Geological Survey
2725 Jenkins Avenue
Norman, OK 73069

Telephone: (405) 325-4386

Organization

This repository is an integral part of the Oklahoma Geological Survey at the University of Oklahoma, Norman, Oklahoma. Charles J. Mankin, Director and John F. Roberts, Supervisor.

Storage Methods

The sample cuttings are placed in 3" x 5" envelopes which are filed in cardboard boxes. The boxes are numbered and an index card is kept for each well giving operator, location of well by section, township and range.

The cores are stored in various types of containers. Each box has a file number and depth interval, and the index cards are filed by section, township and range.

Availability: Policies of Use:

Cores and samples may be examined at the library for a charge of \$1.00 per box. When shipped to the borrower the fee is \$1.50 per box for 21 days. The borrower pays all shipping charges. Permission should be obtained to rent in excess of 21 days, otherwise a charge of \$1.50 per box will be made for each additional 21 days or part thereof. Minimum charge \$5.00.

Examination Facilities/Equipment

The library has a saw and cores may be slabbed at the borrowers expense. An examination room and one microscope is available.

Extent of Coverage

Library materials are from the State of Oklahoma and includes sample cuttings from 40,000 wells, cores from 1650 oil and gas wells and cores from U.S. missile sites, dam sites and mining companys.

REPOSITORY NAME

Oklahoma Well Sample Service, Inc.

Location, Telephone

Masonic Temple Building
9th and Bell Streets
Shawnee, OK 74801

Telephone: (405) 273-3426

Organization

Established in 1946, as a privately owned sample library, it is supported by fees from member subscriptions, individual well rentals and individual company proprietary materials storage. Wayne L. Zorger, President; A.T. Davis, Sr., Vice-President; Elsie M. Zorger, Secretary-Treasurer.

Storage Methods

Permanent storage for well cuttings is in paper envelopes filed in corrugated boxes each holding approximately 2000 feet of samples. The boxes are maintained in the library on wooden shelves designated alphabetically by sections. Each well is assigned the section letter plus a number as filing position. A card is maintained for each well in an index file. All data pertaining to the well is kept on the card which includes operator, well number, lease, location data, dates of initial and final receiving, unique file number, etc. The card index file is maintained by section, township, and range.

This library contains approximately 70,000 wells in the permanent storage. During the early years, many wells were donated by the oil companies from throughout the state.

Availability: Policies of Use

The library materials are available to all interested investigators on either a monthly subscription basis or individual well rentals. Monthly subscription rates are available through the library office. Non-subscriber rental fees by a company or individual are 1) first well in the month is \$25.00 2) each additional well in the same month is \$20.00 per well. Sample sets are loaned for a 12 day period. Samples may be examined at the library or shipped. All shipping charges are the responsibility of the borrower.

Examination Facilities/Equipment

Work space for sample examination is maintained with tables and chairs. There is no examination equipment.

Extent of Coverage

The library contains approximately 70,000 wells from throughout the State. The most complete coverage is for the area north of the Canadian River to the Kansas border. Wells are primarily wildcats and significant pool wells. New sample sets are obtained from the Shawnee Sample Cut.

OUT-OF-STATE-REPOSITORIES

Kansas Geological Survey - See Kansas
University of Missouri, Rolla, Geology Dept. - See Missouri

PRIVATE REPOSITORIES

Amoco Production Company - Denver, CO
Chevron Oil Company - Denver, CO
Cities Service Oil Company - Research Laboratory, 1133 N. Lewis, P. O. Box 50408
Tulsa, OK 74150
Continental Oil Company - Research Division, 1000 South Pine, Ponca City, OK 74601
Exxon Company, USA - Midland, TX
Marathon Oil Company - Casper, WY
Mobil Oil Corporation - Sample Warehouse, 1013 E. Madison St., Oklahoma City, OK
73111
Phillips Petroleum Company - Research Center, Bartlesville, OK 74004
Shell Oil Company - Midland, TX
Sun Oil Company - Richardson, TX
Tenneco Oil Company - Midland, TX
Texaco, Inc. - P. O. Box 2420, Tulsa, OK 74102
Union Oil Company of California - 4th Street Warehouse, Oklahoma City, OK 73106
Union Oil Company of California - Midland, TX

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- Representative samples are required from oil/gas and geothermal drilling. They are not required from seismic, shallow temperature or shallow auger test holes. Representative core chips are required. (Oregon Revised Statutes 520.095 and 522) The State Engineer may require the driller of a water well to furnish samples. (ORS 537.765)

B. DOCUMENTS

All records pertaining to a well drilled for oil and gas or geothermal evaluation are required to be filed with the Department of Geology & Mineral Industries within thirty (30) days after completion or abandonment. In some cases, drillers' logs are required for shallow drillings where ground water is likely to be encountered.

C. CONFIDENTIAL PERIOD

Rock samples -- Two years from date of completion or abandonment.
Documents -- Two years from date of completion or abandonment.

REPOSITORY NAME

Department of Geology and Mineral Industries

Location, Telephone

1069 State Office Building
1400 S.W. 5th Avenue
Portland, OR 97201

Telephone: (503) 229-5580

Organization

The State Survey was established in 1937 and is responsible for geological mapping of state, mineral studies, engineering geological studies, mined land reclamation, regulation of drilling for oil and gas, geothermal activity, geological library and sample library.

Storage Methods

The Department maintains a separate warehouse for the storage of all core and sample material. No index except in miscellaneous Paper No. 8. Wells and samples are listed by section, township, and range within each county. API unique numbers have been assigned to all wells under our jurisdiction.

Availability: Policies of Use

Samples may be studied at the Portland office if given two days notice so they can be transferred from the warehouse. Cuttings and cores are loaned for short period of time with special permission.

Examination Facilities/Equipment

A binocular microscope is available for use in our Portland office. Foram slides of a few wells are available for study. The slides may be loaned in certain instances. Adequate and comfortable work space is provided.

Extent of Coverage

Samples are available on wells drilled after 1954, approximately 60 wells.

REPOSITORY NAME

Department of Geology

Location, Telephone

University of Oregon
Eugene, OR 97403

Telephone: (503) 686-4573

Organization

Rock specimens, thin sections, and other materials used by graduate students in their thesis research are stored in the Department of Geology. The departmental technician is responsible for cataloging and organizing the samples.

Storage Methods

The samples are stored in sample drawers and cardboard boxes in various storage facilities of the Department. There is no comprehensive card index of the samples, however, we plan to prepare such an index in the near future.

Availability, Policies of Use

Samples are available in the Department of Geology, University of Oregon to all interested students and geologists. Samples are not to be removed from the department.

Examination Facilities/Equipment

Microscopes and working space available on a limited basis.

Extent of coverage

The Department has no coverage of well cores or cuttings. Thesis materials from numerous areas in Oregon, Washington, and California are available.

OUT-OF-STATE-REPOSITORIES

U.S. Bureau of Mines - See Colorado

PRIVATE REPOSITORIES

Amoco Production Company - Denver, CO

Exxon Company, USA - Bakersfield, CA

Shell Oil Company - Bakersfield, CA

Texaco, Inc. - Los Angeles, CA

Union Oil Company of California - Santa Fe Springs, CA

Western Operation Inc. (Standard of California) - Richmond, CA

Hanna Mining Co. - Riddle, OR 97469

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- There are no regulations requiring these materials to be filed with any State agency.

Regular voluntary contributions of these materials are made by the industries (petroleum, mining, etc.) to the Pennsylvania Geological Survey.

B. DOCUMENTS

Deep, wildcat, mechanical logs if taken by the operator, must be filed within one (1) year of the well completion date; shallow and deep drillers' logs must be filed within thirty (30) days; shallow mechanical logs are voluntary; deep, development well, mechanical logs must be filed within ninety (90) days.

C. CONFIDENTIAL PERIOD

Rock materials -- none

Documents -- The above time limits for filing specified documents provide the only period of confidentiality available.

REPOSITORY NAME

Academy of Natural Science of Philadelphia

Location, Telephone

19th and Parkway
Philadelphia, PA 19103

Telephone: (215) 567-3700

Organization

Part of the Department of Geology and Paleontology, Earl A. Shapiro,
Supervisor.

Storage Methods

The samples are kept in either glass vials or paper envelopes which are stored in pasteboard boxes. Most of the collection is housed in steel cases and is arranged by locality. A card index of the collection is currently in preparation.

Availability: Policies of Use

Samples are available for either loan or inspection at the Museum during regular Museum hours (9-5, Monday through Friday). Loans are made to either institutions or companies but not to individuals. Access to the collection is free for academic consultation of the collection. There is a usage charge for profit-making organizations, however, the rate is reduced for contributors to the Academy's Atlantic Coastal Plain Project.

Examination Facilities/Equipment

Desk space and a binocular microscope are available for examination of the samples.

Extent of Coverage

Atlantic Coastal Plain from Long Island, New York to Georgia. There are approximately 1,000 wells in the collection.

Remarks

We are currently reorganizing the collection and in the near future we plan to place the data from the collection into an electronic data processing system.

REPOSITORY NAME

Pennsylvania Geological Survey
Well Sample and Core Library

Location, Telephone

Oil and Gas Geology Division
Room 1201 Kossman Building
100 Forbes Avenue
Pittsburgh, PA 15222

Telephone: (412) 565-5030

Organization

The library was started in 1933 with the drilling of the first wells that produced from the Lower Devonian. Samples have been collected since then on a large number of the wildcat wells and on some of the development wells. The Oil and Gas Geology Division is charged with the responsibility of selecting wells and intervals for which samples are requested, obtain the samples, prepare cuts, and place in the library. William S. Lytle, Chief of the Division, is in charge of the library.

Storage Methods

The well cuttings are preserved in envelopes and filed in cardboard boxes 24" long and stored on shelving. Some of the older sets are in glass vials and filed in drawers. The cores are stored in wooden boxes approximately 4 feet long and filed on shelves or stacked on the floor. As time permits, the cores are slabbed and the slabbed core is placed in a heavy envelope and filed in a cardboard box on shelving. The Survey's publication I.C. 16 is a catalogue of deep well samples and geophysical logs collected up to January 1, 1959. This publication is available at the Department of Property and Supplies, Bureau of Publications, P.O. Box 1365, Harrisburg, PA 17125 at a cost of 35 cents plus 6% sales tax for Pennsylvania residents with check made payable to Commonwealth of Pennsylvania. A complete up-to-date listing can be obtained from the above Division at a duplicating cost of about \$8.50. A card index file contains pertinent data on each sampled well, and also available is a large index map.

Availability: Policies of Use

The cuttings and cores are available at the Oil and Gas Geology Division's office for examination study during office hours from 8:00 a.m. to 4:30 p.m. Monday through Friday. The cuttings are not loaned out. Appointments to use the library materials should be made in advance.

Examination Facilities/Equipment

Laboratory facilities are available for examination and study of the cuttings and cores. Each investigator must furnish a microscope if needed.

Extent of Coverage

Most of the library samples are from wells drilled in Pennsylvania. Sampled wells are located in all counties in the Commonwealth except those in the extreme southeastern section. A few of the samples are from wells in surrounding States. Drill cuttings are available from a total of approximately 1200 wells. In most cases the well samples are from top to bottom. A few wells were sampled only from specific intervals.

OUT-OF-STATE REPOSITORIES

Ohio Division of Geological Survey - See Ohio
U.S. Bureau of Mines - See Minnesota

PRIVATE REPOSITORIES

Amoco Production Company - Ft. Worth, TX
Exxon Company, USA - New Orleans, LA
Shell Oil Company - Midland, TX

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

1. ROCK MATERIALS

Cuttings/cores -- There are no regulations requiring these materials to be filed with any State agency.

3. DOCUMENTS

Tabulated in specific reports.

3. CONFIDENTIAL PERIOD

Rock material and documents -- There are no regulations requiring these materials to be filed with any State agency.

REPOSITORY NAME

No repositories located in the State of Rhode Island

OUT-OF-STATE REPOSITORIES

Harvard University, Geology Department - See Massachusetts

U.S. Corps of Engineers - See Massachusetts

PRIVATE REPOSITORIES

Amoco Production Company - New Orleans, LA

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- There are no regulations requiring these materials to be filed with any State agency.

A repository has been established by voluntary contributions of this material from exploration and water well drillers. Cores are voluntarily contributed through an active requesting program.

B. DOCUMENTS

Drillers' logs, and other records or logs filed, are kept on file at the Geology Division office. There are no regulations requiring these materials to be filed with any State agency.

C. CONFIDENTIAL PERIOD

Rock material and documents -- Upon request, these materials will be held confidential for a period of one (1) year.

REPOSITORY NAME

Subsurface Samples Repository
Division of Geology

Location, Telephone

South Carolina State Development Board
Harbison Forest Road
Columbia, SC 29210

Telephone: (803) 758-6431

Organization

The repository is operated as a Section of the Division of Geology, S.C. State Development Board. Financial aid is provided by the South Carolina District Office Water Resources Division, USGS. William H. Abbott is responsible for cores and cuttings.

Storage Methods

Cores are stored in standard core boxes, and cuttings are kept as washed and unwashed samples per interval, according to location. All material is indexed on county maps.

Availability: Policies of Use

All samples are available for inspection by qualified individuals. Special arrangements can be made for certain types of laboratory analysis provided a copy of results is submitted to the Division of Geology. It is preferred that sampling be done in person by the individual requesting material. Advanced arrangements are requested for use of the library,

Examination Facilities/Equipment

A small office in the repository is provided exclusively for investigators. Microscopes are available.

Extent of Coverage

Approximately 300 wells covering most of the South Carolina counties.

Remarks

The library does not have a curator, therefore, samples and related information cannot always be sent as requested. Future plans include employing a curator and development of computer storage and retrieval capabilities.

OUT-OF-STATE REPOSITORIES

Academy of Natural Sciences of Philadelphia - See Pennsylvania
University of Texas, Arlington, Geology Dept. - See Texas
U.S. Bureau of Mines - See Minnesota

PRIVATE REPOSITORIES

Amoco Production Company - New Orleans, LA
Exxon Company, USA - New Orleans, LA
Gulf Oil Company - New Orleans, LA
Shell Oil Company - New Orleans, LA

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- "A systematic interval of washed sample cuttings and all cores after testing shall be saved from all wildcat wells, and if specified on the Permit, from field or development wells. Said cuttings and cores are to be submitted to the Office of the State Geologist, ---"

B. DOCUMENTS

All mechanical well logs, directional surveys, and reports on well locations, drilling, and production must be filed in the office of the State Geologist within thirty (30) days after completion or abandonment of well.

C. CONFIDENTIAL PERIOD

Rock material and documents -- Upon written request, all materials filed with the State Geologist's office will be held confidential for six (6) months after completion or abandonment. An additional six (6) months may be granted if requested.

REPOSITORY NAME

Division of Geological Survey

Location, Telephone

Department of Natural Resources Development
Science Center
University Campus
Vermillion, SD 57069

Telephone: (605) 624-4471 Office
(605) 624-2651 Laboratory

Organization

The repository is an integral part of the South Dakota Geological Survey.

Storage Methods

Samples are kept in standard 3" x 5" manila sample envelopes and stored in two-foot cardboard cartons on steel shelving. Cores are in wooden or cardboard boxes. An index of available material can be obtained on request and payment of photocopying costs.

Availability: Policies of Use

The cuttings and cores are not for public inspection, but can be used by properly trained and capable geologists. Cuttings logged by Survey personnel and on file are available for public use.

Examination Facilities/Equipment

Space and microscopes can be made available. Incidental tools and equipment are not available and should be provided by the investigator.

Extent of coverage

There are approximately 750 sample sets in the library which cover the entire State.

REPOSITORY NAME

Department of Geological Engineering

Location, Telephone

South Dakota School of Mines and Technology
Rapid City, SD 57701

Telephone: (605) 394-2461

Organization

The repository is a part of the Department of Geological Engineering, John C. Michelson, Chairman. It is supervised by J. P. Gries, Professor of Geological Engineering.

The sample library was established in 1910, but remained very small until about 1935.

Most of the samples are filed in the Mineral Industries Building, which houses the Department of Geological Engineering.

Storage Methods

Well cuttings are filed in standard sand envelopes, and stored in cardboard boxes. Older sets are in glass vials and jars. Samples are received from drillers, oil companies, sample cuts and government agencies. Sets are filed chronologically, and are adequately cross indexed. Electric logs are on file for most sets, together with any other available information relative to the drilling and completion of the well. An index is available upon request.

Availability: Policies of Use

The repository is operated as a public service. Contributions of samples, cores and logs are solicited. Samples are not loaned unless a duplicate set is on file.

Examination Facilities/Equipment

Working space is available within the Department for examination of the cuttings and cores.

Extent of Coverage

Most of the 625 sets on file represent oil tests and deeper water wells in South Dakota. There are about 50 representative sets from the North Dakota part of the Williston Basin. Representative sets are available for Northwestern Nebraska, Wyoming and Eastern Montana.

Several diamond cores have been filed after exploration programs for uranium, gold and silver, lead and pegmatite minerals. Most of these are of stratigraphic interest.

OUT-OF-STATE REPOSITORIES

American Stratigraphic Co. - See Montana
U. S. Bureau of Mines - See Minnesota

PRIVATE REPOSITORIES

Amoco Production Company - Denver, CO
Atlantic Richfield - Denver, Co
Chevron Oil Company - Denver, CO
Cities Service - Tulsa, OK
Continental Oil Company - Ponca City, OK
Exxon Company, USA - Denver, CO
Marathon Oil Company - Casper, WY

Phillips Petroleum Company - Bartlesville, OK
Shell Oil Company - Denver, CO
Tenneco Oil Company - Denver, CO
Texaco, Inc. - Denver, CO
Union Oil Company of California - Casper, WY

Homestake Mining Co. - Lead, SD 57754

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- When requested by the State Oil and Gas Supervisor as indicated on the well permit, these materials should be submitted within thirty (30) days after reaching total depth. All wildcat tests and some development wells are included. There are no requirements for cores from mineral core tests.

B. DOCUMENTS

For all oil and gas tests the following is required within thirty (30) days after reaching total depth:

Two final copies of "all electrical logs and other downhole surveys".

One copy of a driller's log on Well History Form (R-WH-1), drilling time log, DST, and core analyses.

C. CONFIDENTIAL PERIOD

Rock material and documents -- Upon written request, all materials submitted will be held a maximum of six (6) months from the date total depth was reached.

Note: The above data from "Rules of Tennessee State Oil and Gas Board, Order No. 2, Chapter 1040-2-10.

REPOSITORY NAME

Tennessee Division of Geology

Location, Telephone

G-5 State Office Building
Nashville, TN 37205

Telephone: (615) 741-2726

Organization

The library is under the immediate supervision of Robert E. Hershey, State Geologist. Collecting is the responsibility of H. C. Milhous, Assistant State Oil and Gas Supervisor. Processing and storing of the samples and cores is the responsibility of Anthony T. Statler, Geologist 3.

Storage Methods

Cuttings are received in cloth sample bags. Each drilled interval is washed and placed in small manila envelopes labeled as to depth and sample set number. These are stored in pasteboard boxes on shelves at the Division office. Insoluble residues of some samples are stored in 2-dram glass vials. Cores are stored in wooden core boxes and are kept in outside storage provided by the Department of Conservation, State of Tennessee.

Availability: Policies of Use

Samples may have a confidential period at the option of the operator; otherwise, the samples, cores and logs are available at our office for study. Records, and logs when available, are filed by counties, well name and set number. Copies of all records may be obtained from the Division office at the cost of reproduction.

Examination Facilities/Equipment

Working space is provided for any one wishing to study the samples. Sample sets and cores are not loaned. Equipment should be provided by the investigator.

Extent of coverage

Approximately 2,000 sample sets and cores are available for study.

OUT-OF-STATE RESPOSITORIES

Mississippi Geologic Economic and Topographic Survey - See Mississippi
U. S. Bureau of Mines - See Minnesota
Virginia Polytechnic Institute and State University - See Virginia

PRIVATE REPOSITORIES

Amoco Production Company - Ft. Worth, TX
Exxon Company, USA - New Orleans, LA
Shell Oil Company - Midland, TX

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- There are no regulations requiring these materials to be filed with any State agency. All material is provided through voluntary contributions.

B. DOCUMENTS

The Texas Railroad Commission requires a drillers' log on all wells and mechanical logs on discoveries and dual completions. For discovery wells, they can be filed within six (6) months. On dual completion wells, these materials are required with the application to dual complete. All other data are to be made available to the Commission if needed.

C. CONFIDENTIAL PERIOD

Rock material -- none

Documents - - generally on open file.

Data for discoveries is not required for six (6) months which constitutes a confidential period. An additional six (6) months may be granted through a special meeting of the Commissioners.

REPOSITORY NAME

Amarillo Sample Cut & Library

Location and Telephone

2611 East 10th Avenue
Amarillo, TX 79104

Telephone: (806) 376-7057

Organization

Leo and Lucille Dwight established the sample cut in 1944 and the library in October 1954. The business was left in trust in 1966 and continued to operate with Edith Quine as Manager and one employee. The repository functions through the voluntary contributions of well sample materials by the industry. The Sample Cut and Library charges a fee for the service of placing a washed and packaged cut of each well in the permanent library file.

Storage Methods

All samples since 1954 have been washed and packaged using 3 types of containers - - coin envelopes, candy sacks and now, 3" x 5" tin-tie sample envelopes. These are stored in boxes (containing approximately 1000 feet) appropriate for the envelope size and filed on shelves with a unique number for each well. Cores are represented by one foot chips or chips on lithology changes. A card index system is maintained which records location, county, state, operator, well number and lease, sample intervals and the library number. No complete catalog is available. A processing fee is charged the operator for each well placed in the permanent file. In 1969, the Panhandle Geological Society helped establish the following rates for the storage fee:

1. Sustaining Member - 10¢ per sample plus envelope and box cost.
2. Non-member - .15¢ per sample plus envelope and box cost.

A membership is \$15.00 per month.

A cut of the samples and core chips may be purchased if a request is made at the time the well is drilled.

Availability: Policies of Use

All sample sets are available for rental by qualified investigators and will be shipped. All shipping costs are the responsibility of the borrower. Rental fees are as follows:

1. Sustaining members - \$6.00 per thousand feet
2. Non-members - \$8.00 per thousand feet

Examination Facilities/Equipment

Limited space is available at the library. Equipment necessary for sample examination should be provided by each individual.

Extent of Coverage

There are an undetermined number of wells from the panhandles of Texas and Oklahoma and also, a few wells from adjacent parts of Texas, New Mexico, Colorado, Kansas and Oklahoma. This library includes cable tool samples from wells drilled in the early 1920's in the Panhandle Field.

REPOSITORY NAME

Bureau of Economic Geology
Well Sample and Core Library

Location, Telephone

University of Texas, Austin
Balcones Research Center
Route 4, Box 189
Austin, TX 78757

Telephone: (512) 836-0440, Ext. 212

Organization

The Well Sample and Core Library was authorized by the State Legislature in 1937 and in 1945 it opened its present location at Balcones Research Center. The Library is under the administration of the Bureau of Economic Geology of The University of Texas at Austin. Douglas Ratcliff is directly responsible for the operation of the Library.

Storage Methods

Storage facilities consist of three separate buildings with permanent shelving installed. Each well is assigned a unique index number when received and this number is marked on all boxes and a catalog card is produced containing all available information. At the present time cores are slabbed as received and a project has been initiated to slab all older stored cores.

A new index to the holdings of the Library is being published. Acquisition of this index can be made by writing to the Bureau of Economic Geology.

Availability: Policies of Use

The Library is open Monday through Friday from 7:30 a.m. to 5:00 p.m. In general, use of materials is limited to the Library premises, however special arrangements for off-premises use are sometimes made.

Examination Facilities/Equipment

Contained within the Library facility is ample air conditioned offices for examination and staff purposes. The staff consists of two full-time employees and three student assistants who are available to assist interested persons. Microscopes are also available.

Extent of Coverage

The Library covers the entire State of Texas, plus a few out of state wells. At the present time the Library contains 61,000 sets of drill cuttings, and 1,584 well cores. In addition to this is an extensive file of drillers' and strip logs.

Remarks

The Bureau of Economic Geology is presently evaluating the possibility of constructing a large storage facility for the Library. Computerization of the holdings is in progress which will provide rapid retrieval of information.

REPOSITORY NAME

Department of Geology

Location, Telephone

Texas A & M University
College Station, TX 77843

Telephone: (713) 845-2451

Organization

A collection of selected, full-diameter cores was begun in 1967 by Professor Robert R. Berg for use in teaching and research in the Department of Geology.

Storage Methods

A major part of the core collection is in storage at the Texas A & M Research Annex located about 15 miles from the main campus. Cores are full-diameter either uncut or slabbed, and in standard cardboard core boxes. No complete index or catalogue of wells is available at the present time. A relatively small number of cores have been slabbed and mounted on 3-ft plywood boards and are filed in the Geology Building, Main Campus.

Availability: Policies of Use

Cores may be examined by geologists and geology students by contacting D. W. Stearns, Head, Department of Geology.

Examination Facilities/Equipment

A limited amount of space is available for the examination of cores, but equipment such as microscopes and lamps are not provided.

Extent of coverage:

Cores represent selected reservoirs in Texas (Frio, Wilcox, Smackover, Edwards), Wyoming (Muddy), and other states. Approximately 200 wells are represented.

REPOSITORY NAME

I.C.O.N.S. Repository of C.E.R.C.

Location, Telephone

Department of Geology
University of Texas, Arlington
Arlington, TX 76019

Telephone: (817) 273-2987

Organization

The I.C.O.N.S. (Inner Continental Shelf Sediment and Structure) Repository of CERC (Coastal Engineering Research Center) was established at the University of Texas at Arlington by the Corps of Engineers in May 1973. The Dept. of Geology operates the storage center. Dr. Charles F. Dodge is Department Chairman.

Storage Methods

In 1975, approximately 1200 cores from the east coast of North America and 100 cores from the coast of California were stored at this repository. These are Vibro-cores which vary in length from 18 inches to 40 feet and are stored in 2½ inch, 3 inch or 4 inch plastic tubes. Each core is marked to indicate top and bottom, and they are grouped on wooden storage racks by areas. Shipboard descriptions tabulate water depth, location, and length and can be obtained from the repository. Also available are location maps showing distribution of the core holes by areas.

Availability: Policies of Use

The ICONS core material is available for inspection and sampling by any U.S. citizen. For research projects, publication of data obtained from the cores is restricted by CERC until after their release by the Corps of Engineers, Jacksonville District. Prospective investigators should contact the Department of Geology to determine which cores have been released for research and publication.

The cores are in plastic tubes and most have been drilled at one foot intervals. for samples. To study this material, it is necessary to saw each tube lengthwise to see and sample the core. Upon completion of the study, each tube is resealed. The following charges have been established to cover the costs of handling, sawing, retaping, etc:

1. Student labor, handling, etc. - \$5.00 per hour
2. Plastic tube sawing, less than 10 feet - \$1.00
greater than 10 feet - \$2.00
3. Shipboard core descriptions, location logs,
first copy - .55¢
each additional copy - .15¢
4. Location maps - \$1.00 each

It is necessary to do all studies at the repository.

Examination Facilities/Equipment

Working space is available in the repository where cores are handled and tubes are sawed. Equipment for examination work should be provided by the investigator.

Extent of Coverage

From Saco River, Maine, south to mouth of Chesapeake, Virginia. Coverage starts again at Cape Lookout and goes to South Carolina line. Then from St Mary's River south to Miami, Florida, West coast coverage is off-shore California.

REPOSITORY NAME

Midland Sample Library

Location, Telephone

707 South Connell Street
Box 1914
Midland, TX 79701

Telephone: (915) 682-2682

Organization

Founded by E. Russell Lloyd and John Hills, February 1, 1946 and now owned and maintained by Giles E. Wimberly. The samples for the library are received from the Midland Oil Scouts Sample Cut and voluntary contributions from the industry. Also, samples from the Abilene Sample Cut and Library were incorporated into this library as well as the files of several oil companies.

Storage Methods

Cuttings and core chips are kept in 1/2 lbs. Kraft sacks, rolled and filed in kraftboard boxes 15" x 5" x 4" in size. The boxes are labeled with county, operator, well number, lease, intervals and are maintained in the library by an individual serial number on each box. They are stored on permanent shelving in several storage buildings which occupy 21,000 square feet. There are 335,000 plus boxes. Some older samples are stored in bottles.

A card file index is maintained by well location and the cards contain the operator, number, lease, intervals, etc. There is no catalog.

Availability: Policies of Use

Cuttings and core chips are available for use on a subscription basis or individual well rental. All rentals are for a 30 day period - travel time for shipping is permitted extra.

1. Subscription fees is \$110.00 per month and permits the use of all materials at no cost -- except shipping charges.
2. Rental fees for non-subscribers are \$7.50 service charge per well plus \$7.50 per box plus shipping charges.

All samples retained beyond the 30 day time period are renewed for another 30 day period. Rental fees are charged for the second 30 day period on the same basis. All shipping charges are the responsibility of the borrower.

Examination Facilities/Equipment

There are no examination facilities or equipment at the library.

Extent of Coverage

There is complete well coverage in the Permian Basin area and fairly complete in southeastern New Mexico. Also some wells are available from other areas of New Mexico, Texas, and Oklahoma. The library contains over 335,000 boxes of cuttings and core chips.

REPOSITORY NAME

Montgomery's Stratigraphic Service

Location, Telephone

Milam Building
San Antonio, TX 78205

Telephone: (512) 223-9861

Organization

The sample library is an integral part of the stratigraphic logging service of the company. The library was established in 1959 however many of the sets of cuttings are from earlier wells contributed by the industry from older libraries. Facilities for working and cutting samples are available and cuts are made for the industry at the library.

Storage Methods

There is a total of 1,500 square feet of library space. Well cuttings are preserved in envelopes which have the county, well name and depth on the envelope. They are placed in boxes 3½" x 5" x 15". Most are washed samples. A card catalogue is maintained.

Availability: Policies of Use

Samples are available on a rental basis.

Examination Facilities/ Equipment

There are no examination facilities or equipment.

Extent of Coverage

The coverage includes Paleozoic, Mesozoic, and Cenozoic wildcat tests in the South Texas area. There is a total of approximately 2,400 wells and about 14,000,000 feet of samples.

REPOSITORY NAME

Petro-Core Service Company

Location, Telephone

Office:
P.O. Box 19207
Houston, TX 77024

Warehouse:
Route 3
Schulenberg, TX 78956

Telephone: (713) 523-9888

Organization

The repository was established originally as a core analysis service company. By industry request, these services progressed into the processing of well samples for paleo and litho cuts. Further developments and expansion became necessary when the industry requested Petro-Core to act as a storage facility for their well samples and core materials. The repository was then established when the warehouse was built at Schulenburg, Texas. Many of the major and large independent companies have contracts with Petro-Core Service for the handling of their well sample libraries. The permanent repository has been developed through the acquisition of the older libraries and current well samples from independent operators. John Richard Garrott is President.

Storage Methods

Well samples from older libraries have been kept in their original boxes, placed in bins and made accessible by the donors code or file number system. A master card index of all well material available is maintained by location, county, company code number, etc. for retrieval of sample sets for rental purposes. One complete set is maintained in the permanent file and excess raw cuts, cores, or duplicates are sold. The storage facility occupies a 30' x 300' located on 10 acres. There is no catalog.

Availability: Policies of Use

All sample and core material in the library is available for examination by qualified investigators. Samples may not be altered by removing part of the material; however, duplicate or excess bulk material may be available for purchase.

Sample sets are leased on a monthly basis. Fees for library use are \$10 per month, per well, plus \$2.00 per thousand feet per month. Core chips are sold at 50 cents per foot and washed samples may be purchased at 30 cents for paleo cuts and 15 cents for litho cuts.

Examination Facilities/Equipment

Convenient work space is available at the warehouse for sample study work. All necessary equipment should be provided by the investigator.

Extent of Coverage

Well samples are available from Texas, Louisiana, Mississippi, Florida and offshore Bahamas. Primarily the coverage is from the Gulf Coast area with 75 percent of the material from Texas and Louisiana. There are approximately 175,000 wells in the library.

OUT-OF-STATE REPOSITORIES

Ardmore Sample Cut and Library - See Oklahoma

University of New Mexico, Dept. of Geol. (West Texas) - See New Mexico

U.S. Bureau of Mines - See Minnesota

PRIVATE REPOSITORIES

Amoco Production Company - 1300 E. Fourth, Fort Worth, TX 76102
Atlantic Richfield Company - 105 N. Fort Worth St., Midland, TX 79701
Chevron Oil Company - Denver, CO
Cities Service Oil Company - Tulsa, OK
Continental Oil Company - Ponca City, OK
El Paso Natural Gas Co. - 1800 Wilco Bldg., Midland, TX 79701
716 Bank of Southwest Bldg.
2101 Civic Circle
Amarillo, TX 79109
Exxon Company, USA - (Gulf Coast - Friendswood, TX)
Box 2180
Houston, TX 77001
(East Texas)
Box 2025
Tyler, TX
(South Texas)
Willson Tower
Corpus Christi, TX 78401
(West Texas)
Box 1600
Midland, TX 79701
Marathon Research Center - Littleton, CO
McAlester Fuel Co. - Magnolia, AR
Mobil Oil Corporation - Geological Dept., 3 Greenway Plaza E, Suite 800,
Houston, TX 77046
Box 633, Midland, TX 79701
Phillips Petroleum Company - Bartlesville, OK
(Sample Laboratory)
600 S. Pecos, Midland, TX 79701
Shell Oil Company - Midland Sample Warehouse, P. O. Box 1509, Midland, TX 79701
- New Orleans, LA
Sun Oil Company - 503 N. Central Expressway, Richardson, TX 75080
Superior Oil Co. - 3701 Andrews Highway, Midland, TX 79701
Tenneco Oil Company - Lafayette, LA
Texaco - Houston Division Geologic Lab, P.O. Box 36650, Houston, TX 77036
(Sample Warehouse)
603 South Connell St.
P.O. Box 3109, Midland, TX 79701
- New Orleans, LA
Union Oil Company of California - 46535 Southwest Freeway, Houston, TX 77027
- 500 N. Marienfeld, P.O. Box 671, Midland, TX 79701

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- There are no regulations requiring these materials to be filed with any State agency. All material is provided through voluntary contributions.

B. DOCUMENTS

A permit is required from Division of Oil, Gas and Mining to drill oil and gas tests. Complete data on well (excepting dipmeter and CDM logs) must be filed with Division of Oil, Gas and Mining within 4 months.

Core holes, stratigraphic tests and potash tests require permits from Division of Oil, Gas and Mining but locations and other data are held confidential unless release is authorized in writing by operator.

Permit is required from Division of Water Rights, to drill water wells. A driller must file a log of the well with State Engineer, Division of Water Rights upon completion. If the well is completed as a water well, the user must establish water right and declare water use through State Engineer.

CONFIDENTIAL PERIOD

Rock material -- As requested by operator but not exceed three (3) years.

Documents -- Required data is to be filed within four (4) months and may be held confidential for three (3) months. On core holes, strat tests and potash tests locations and other data are held confidential unless release is authorized by operator.

REPOSITORY NAME

Utah Geological and Mineral Survey

Location, Telephone

606 Black Hawk Way
Salt Lake City, UT 84108

Telephone: (801) 581-6831
(801) 581-6531 Library

Organization

Originally established by Geology Dept., University of Utah. Since 1959, under the auspices of Utah Geological and Mineral Survey - (formerly a division of the University, now a division of the State Dept. of Natural Resources. Sample library curator is Robert S. Bacon.

Storage Methods

Stored on shelves primarily - some cores stacked on floor. Most material readily accessible; some material housed in a gravel-floored quonset building. Samples kept primarily in paper envelopes stored in cardboard boxes.

Index: complete and maintained

Catalog: available: UGMS Circular #55, \$3.00

Most recent publication dated May 1973.

Catalog denotes locations at which core or core chips are available.

Availability: Policies of Use

Material available to all borrowers free of charge. Borrower must pay shipping/ mailing charges, if any. Loans are for three weeks unless otherwise specifically requested.

Examination Facilities/ Equipment

Work space is a premium. However, we do accommodate clients who do not have their own facilities.

Extent of Coverage:

Utah (98%), also eastern Nevada and Idaho. A few wells along the borders of the other four states.

We have approximately 2200 locations represented, about 1700 of which are related to oil and gas exploration, followed by mining exploration, water wells, and surface sections. We are currently making space for incoming materials by "skeletonizing" (reducing) to one well per Twp. all fields.

OUT-OF-STATE REPOSITORIES

American Stratigraphic Co. - See Colorado

Arizona Oil and Gas Conservation Commission - See Arizona

Four Corners Sample Cut Assoc. - See New Mexico

U.S. Bureau of Mines - See Colorado

PRIVATE REPOSITORIES

Amoco Production Company - Denver, CO

Atlantic Richfield Company - Denver, CO

PRIVATE REPOSITORIES (Continued)

Chevron Oil Company - Denver, CO
Cities Service Oil Company - Tulsa, OK
Continental Oil Company - Ponca City, OK
El Paso Natural Gas Company - Farmington, NM
Exxon Company, USA - Denver, CO
Marathon Oil Company - Casper, WY
Mobil Oil Corporation - Midland, TX
Mountain Fuel Supply Co. - P.O. Box 11368, Salt Lake City, UT 84139
Phillips Petroleum Company - Bartlesville, OK
Shell Oil Company - Denver, CO
Tenneco Oil Company - Denver, CO
Texaco, Inc. - Denver, CO
Union Oil Company of California - Casper, WY
Union Oil Company of California - Durango, CO
Union Oil Company of California - Santa Fe Springs, CA

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

- A. ROCK MATERIALS
Cuttings/cores -- There are no regulations requiring these materials to be filed with any State agency.

- . DOCUMENTS
There are no regulations requiring these materials to be filed with any State agency.

- . CONFIDENTIAL PERIOD
No regulations.

REPOSITORY NAME

No repository within the State of Vermont.

OUT-OF-STATE REPOSITORIES

Dept. of Geology, Harvard University - See Massachusetts

U. S. Bureau of Mines - See Minnesota

U. S. Corps of Engineers - See Massachusetts

PRIVATE REPOSITORIES

Amoco Production Company - New Orleans, LA

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings - - Cuttings for oil and gas tests are received by the Division of Mineral Resources through cooperation with the Division of Mines and Quarries. The Division of Mineral Resources has no regulatory powers concerning water wells but by agreement with the State Water Control Board sample drill cuttings from some water wells are delivered to the Division of Mineral Resources for placement in the repository. Oil, gas, and water well cuttings are preserved permanently in the Division repository.

Cores -- Occasionally received on a voluntary basis.

B. DOCUMENTS

Various documents for oil and gas tests are received by the Division of Mineral Resources through cooperation with the Division of Mines and Quarries. The Division of Mineral Resources has no regulatory powers to require submittal of water-well documents. Some water-well completion forms are received for water wells for which samples are received.

C. CONFIDENTIAL PERIOD

Rock materials and documents - - Ninety (90) days for oil and gas tests upon request of the operator.

REPOSITORY NAME

Department of Conservation and Economic Development

Location, Telephone

Division of Mineral Resources
McCormick Road
P.O. Box 3667
Charlottesville, VA 22903

Telephone: (804) 293-5121

Organization

The sample repository is an integral part of the Virginia Division of Mineral Resources. Dr. James L. Calver, Commissioner and State Geologist.

Storage Methods

Samples are preserved in 3" x 5" envelopes and packed in closed cardboard boxes 15" long. Many of the samples have been washed; washed and unwashed samples of each interval are stored. Chip samples of core are stored. A location index by county is maintained.

Availability: Policies of Use

Samples are available for study by professional geologists at the repository and are not loaned. The samples are studied by staff members of the Division of Mineral Resources for stratigraphic, structural, paleontological and economic evaluation, by thin section, binocular examination, X-ray and other standard techniques.

Examination Facilities/Equipment

Visitors are encouraged to bring their own microscopes and other equipment. Work space is available.

Extent of Coverage

State-wide coverage. In September 1975 the repository contained samples from 4250 wells. These include oil, gas, exploratory and water wells.

REPOSITORY NAME

Department of Geological Sciences

Location, Telephone

Virginia Polytechnic Institute and State University
Blacksburg, VA 24061

Telephone: (703) 951-6521

Organization

Supervision: M. C. Gilbert, Chairman of Department

The original repository had to be abandoned due to space problems but is now being reactivated. Samples fall into five categories:

1. Thesis collections -- largely of Virginia and the Southeastern United States
2. Age-dated by the Isotope Geology Laboratory -- largely of the Piedmont and Blue Ridge but also of sea floor and ridge basalts
3. Geophysics -- those used as reference material for seismic, gravity, magnetic and heat flow studies.

4. Coals -- mostly Eastern U.S.
5. General -- mostly from wells drilled in S. W. Virginia

Storage Methods

Samples are stored in Departmental facilities mostly off the central campus

Availability: Policies of Use

Material is available for study. Inquiries are welcome. Use of Departmental equipment for study does require prior approval.

Examination Facilities/Equipment

Mineralogic, petrographic, paleontologic and geophysical facilities are available. Laboratories include staining, acidizing, binocular scopes, petrographic microscope (transmitted and reflected light), X-ray diffraction (powder and single crystal), electron microprobe, mass spectrometer, thermal conductivity, heat production, and sonic wave.

Extent of Coverage

Virginia and Southeastern United States.

OUT-OF-STATE REPOSITORIES

Academy of Natural Science of Philadelphia - See Pennsylvania
U.S. Bureau of Mines - See Minnesota
University of Texas, Arlington, Geology Dept. - See Texas

PRIVATE REPOSITORIES

Amoco Production Company - New Orleans, LA
Exxon Company, USA - New Orleans, LA
Gulf Oil Company - New Orleans, LA
Shell Oil Company - New Orleans, LA

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores - - There are no regulations requiring these materials to be filed with any State agency.

B. DOCUMENTS

All down hole surveys are required to be filed with the Division of Geology and Earth Resources following completion or abandonment of a well. This includes mechanical logs, drillers' logs, DST, core analysis, mud logs. etc.

C. CONFIDENTIAL PERIOD

Rock materials - - An operator may request the voluntary contribution of these materials be held confidential until released by him. The average time held has been two to three (2-3) years.

Documents - - Electric, sonic, neutron logs, etc. are held eighteen (18) months. Core and cutting descriptions, drillers' logs, etc. are held thirteen (13) months.

REPOSITORY NAME

Division of Geology and Earth Resources

Location, Telephone

Department of Natural Resources
Olympia, WA 98504

Telephone: (206) 753-6183

Organization

Sample repository is an integral part of the Division of Geology and Earth Resources primarily provided for by the Oil and Gas Conservation Act, supervised by V. E. Livingston, State Geologist and D. M. Ford, Deputy Oil and Gas Supervisor.

Storage Methods

Samples consist of oil well cores and ditch samples. The bulk of the ditch samples are washed and preserved in 3" x 5" plastic envelopes. An index is maintained in Division offices. Some samples and cores not related to oil and gas are maintained.

Availability: Policies of Use

Samples are available on a loan basis.

Examination Facilities/Equipment

Very limited facilities are available for nondivision examination of samples. Facilities are very limited for use by industry and investigators are encouraged to check out materials.

Extent of Coverage

There are approximately 300 oil and gas wells covering the State of Washington. The bulk are from the western part of the state.

OUT-OF-STATE REPOSITORIES

U. S. Bureau of Mines - See Colorado

PRIVATE REPOSITORIES

Amoco Production Company - Denver, CO
Exxon Company, USA (Bakersfield) - Denver, CO
Shell Oil Company - Bakersfield, CA
Texaco, Inc. - Los Angeles, CA
Union Oil Company of California - Santa Fe Springs, CA
Western Operations, Inc. (Standard of California) - Richmond, CA

Bear Creek Mining Co. - Box 9, Dishman Ranch, Spokane, WA 99213

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- There are no regulations requiring these materials to be filed with any State agency.

B. DOCUMENTS

Within ninety (90) days after completion of a deep well (defined below) the operator must submit a copy of the drillers' log and copies of all mechanical logs run. In addition, as soon as practicable, operators are required to file all other data pertaining to the drilling of the well that were compiled in the ordinary course of business (includes lithologic log or sample description).

Drillers' logs are required to be filed within ninety (90) days after completion of a shallow well (defined below).

C. CONFIDENTIAL PERIOD

Rock materials -- All materials submitted on a voluntary basis, will be held confidential for one (1) year upon request.

Documents -- All deep well data will be held confidential for one (1) year after the date of required filing. The Oil and Gas Conservation Commissioner may extend the period one (1) year for good cause as shown by the operator. The total period of confidentiality shall not exceed three (3) years.

Note: Definition of a deep/shallow well is as follows: The State of West Virginia, by enactment of a recent Oil and Gas Conservation Act, has legally defined a deep well as being one which penetrated the top of the Middle Devonian Onondaga Limestone, or a depth of 6,000 feet, whichever is shallower. All other wells are legally shallow wells.

REPOSITORY NAME

West Virginia Geological Survey

Location, Telephone

West Virginia University

White Hall

P.O. Box 879

Morgantown, WV 26505

Telephone: (304) 292-6331

Organization

The sample library is operated by the West Virginia Geological Survey. Peter C. Kline, Assistant Geologist, is in charge.

The Survey began collecting rock samples from oil and gas wells in 1897. With this early start and great volume of activity, two storage facilities are necessary to accommodate all the cuttings and full cores.

Storage Methods

Well cuttings are stored in envelopes holding 1 to 2 ounces of sample. These are packed in cardboard boxes 30 inches long and filed on steel shelving. Most of the older cuttings were washed before filing, and all new donations are washed before being placed in the envelopes. An index card file and catalog are available.

Availability: Policies of Use

Well cuttings are available for examination at the Survey by industry geologists and students working on subsurface theses or dissertations. Samples are not loaned.

Examination Facilities/ Equipment

Space will be provided at our survey annex for the samples to be examined. Most geologists prefer to bring their own microscopes, lamps, and trays, but these could be supplied in limited numbers.

Extent of Coverage

There are samples for more than 4000 wells distributed throughout the productive areas in West Virginia. In addition, there are 7,500 feet of cores from oil and gas wells and 1000 feet of shallow core material taken by the Survey. Some cores have been slabbed.

OUT-OF-STATE REPOSITORIES

Kentucky Geological Survey - See Kentucky

Pennsylvania Geological Survey - See Pennsylvania

U.S. Bureau of Mines - See Minnesota

Virginia Polytechnic Institute and State University - See Virginia

PRIVATE REPOSITORIES

Amoco Production Company - Ft. Worth, TX

Exxon Company, USA - New Orleans, LA

Shell Oil Company - Midland, TX

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

A. ROCK MATERIALS

Cuttings/cores -- There are no regulations requiring these materials to be filed with any State agency.

The Department of Natural Resources requires a driller to obtain a permit for a water well which will extract 100,000 gallons or more per day. In this case, well cuttings are required to be taken at five (5) foot intervals and at formation changes and to be submitted to the Geological and Natural History Survey.

B. DOCUMENTS

There are no regulations requiring these materials to be filed with any State agency.

C. CONFIDENTIAL PERIOD

Not applicable.

REPOSITORY NAME

Wisconsin Geological and Natural History Survey

Location, Telephone

1815 University Avenue
Madison, WI 53706

Telephone: (608) 262-1705

Organization

Integral part of Wisconsin Geological and Natural History Survey. State regulations require that samples from water wells be submitted. Samples are forwarded directly by drillers and each well is assigned an identifying number. A log is prepared for each set of samples to show well number, name, driller, date drilled, location, elevation, stratigraphic section, geologic formations, casing record, pump setting, static water level, and results of pumping tests reported by driller.

Storage Methods

Well samples are filed in 2-oz. glass and plastic bottles grouped 94 per metal tray. Over 95 percent of the samples are cable tool cuttings, collected by well drillers and unwashed except in rare cases. Duplicate samples are not kept. County Indexes indicating well number, name, driller, location, elevation, formation names and thickness, and total depth are available. A limited number of cores from structure tests and mineral exploration tests are kept on file.

Availability: Policies of Use

Geophysical logs are available for a limited number of wells. Samples and cores may be examined at the Survey office but are not loaned. Logs prepared from binocular examination are available for all sample sets on file and may be obtained for 10¢ per page.

Examination Facilities/Equipment

Facilities for examination of samples and cores are available at the Survey. Microscopes and other equipment are not available.

Extent of Coverage

Coverage is statewide and includes samples from over 5,000 wells. Samples are collected every five feet or at change of formation. Department of Natural Resources regulations require that cuttings from all public supply water wells and private wells pumping 70 gallons or more per minute be submitted to and logged by the Survey.

OUT-OF-STATE REPOSITORIES

U.S. Bureau of Mines - See Minnesota

PRIVATE REPOSITORIES

Amoco Production Company - Ft. Worth, TX

Hanna Mining Co. - Nashwauk, MN

Inland Steel Co. - Ishpeming, MI

Jones & Laughlin Steel Co. - Negaunee, MI

Pickands Mather & Co. - Hibbing, MN

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

- A. ROCK MATERIALS
Cuttings/cores -- There are no regulations requiring these materials to be filed with any State agency.
- B. DOCUMENTS
Two (2) sets of all mechanical logs, drillers' logs, DST records, core/fluid analysis, mud logs, etc. are required to be submitted to the Wyoming Oil and Gas Commission office and the second set is on file at the Geological Survey of Wyoming, Laramie, Wyoming.
- C. CONFIDENTIAL PERIOD
Rock material -- None
Documents -- To be held confidential for a period of six (6) months from date of completion.

REPOSITORY NAME

American Stratigraphic Co.

Location, Telephone

524 E. Yellowstone Ave.
Casper, WY 82601

Telephone: (307) 237-8140

Organization

Established in 1947 as the Denver Sample Log Company in Golden, Colorado, the Company now has its southern Rocky Mountain and home office in Denver. The northern Rocky Mountain area is served by offices in Casper, Wyoming and Billings, Montana. All three offices have well sample libraries and two of these offices have sample processing services. A subsidiary, the Canadian Stratigraphic Service Ltd. in Calgary, Alberta, does not maintain a sample library or processing service. The Chemical and Geological Laboratory's library and log business was purchased by Amstrat in 1954.

Storage Methods

Well cuttings and core chips are washed and packaged in 3" x 5" tin-tie envelopes and stored in cardboard boxes on wooden shelves. Each well is indexed with a unique file number and a card index of all available material is maintained by well location.

A processing fee of 1½ cents per drilled foot is charged each operator for a permanent cut of samples to be placed in the library.

Availability: Policies of Use

Samples are available on a rental basis. The current fee is \$8.50 per box, plus shipping charges for a thirty (30) day period with a minimum charge of \$15.00.

Examination Facilities/Equipment

No examination facilities or microscopes are available. With sufficient notice, a table may be provided for a short period of time.

Extent of Coverage

This library facility contains sets of cuttings as follows: Idaho - 19,
Wyoming 11,000.

OUT-OF-STATE REPOSITORIES

Four Corners Sample Cut Assoc. - See New Mexico
Texas A & M University, Geology Dept. - See Texas
U. S. Bureau of Mines - See Colorado

PRIVATE REPOSITORIES

Amoco Production Company - Denver, CO
Atlantic Richfield - Denver, CO
Chevron Oil Company - Denver, CO
Cities Service - Tulsa, OK
Continental Oil Company - Ponca City, OK
El Paso Natural Gas Co. - Farmington, NM

Exxon Company, USA - Denver, CO
Marathon Oil Co. - Exploration Division, P.O. Box 120, Casper, WY 82601
Mountain Fuel Supply Co. - Salt Lake City, UT
Phillips Petroleum Company - Bartlesville, OK
Shell Oil Company - Denver, CO
Sun Oil Company - Richardson, TX
Tenneco Oil Company - Denver, CO
Texaco, Inc. - Denver, CO
Union Oil Company of California - Exploration Department, P. O. Box 2620, Casper, WY
82601
USGS Energy Resources Core Library - See Colorado

SPECIAL CATEGORY

REPOSITORY NAME

Antarctic Marine Geology Research Facility and Core Library

Location, Telephone

Florida State University Campus
Woodward Avenue and West Tennessee St.
Tallahassee, FL 32306

Telephone: (904) 644-2407

Organization

The Antarctic Marine Geology Research Facility and Core Library is an NSF established curatorial and research activity designed specifically as a national repository for geological materials collected in polar regions. Particular emphasis is given to materials retrieved from the floor of the ocean in antarctic and subantarctic waters aboard the USNS Eltanin, the oceanographic vessels participating in the Deep Freeze and International Weddell Sea Oceanographic Expeditions, and the drill cores of the joint United States-New Zealand-Japan Dry Valley Drilling Project on the continent of Antarctica. The Department of Geology has maintained the marine geology coring program aboard the USNS Eltanin during its entire period of operation from 1962 until 1972, and is now involved in the retrieval program of southern ocean sediments aboard cruises of this vessel (renamed Islas Orcadas) as a part of the jointly funded U.S. - Republic of Argentina project designed to complete the southern ocean circumpolar survey. In addition, The Core Library serves as a storage and research facility for a variety of northern ocean and miscellaneous U. S. continental shelf sediments, taken aboard research vessels for individually funded projects. The Facility also participates in the cruises of the Deep Sea Drilling Project's vessel, Glomar Challenger.

Storage Methods

Liner-encased piston, trigger, phleger and hydrocast cores, and standard H, N or P boxed drill cores are stored in a unique temperature controlled environment consisting of 5,050 square feet of refrigerated storage area, which comprises approximately one-half of the total area of the Facility. There are two storage rooms, one of 450 square feet, for low temperature storage, maintained at -23°C , and another of 4,600 square feet maintained at 2°C . Low temperature storage is utilized primarily for the ice-cemented DVDP materials, with other materials being stored at 2°C . Split gravity cores are stored flat in individual shelving "slots", with drill cores, and dredge, trawled, and grabbed being stored on bulk storage racks. Catcher and cutter samples, as well as a variety of processed sample residues are stored in a variety of cabinets and tray containers. Indexes to these materials are available on request. The Facility maintains a sample inventory of specimens removed from the collections.

Availability: Policies of Use

Samples are available upon request to the Curator of the Antarctic Research Facility. In certain cases, such as requests for unusually large amounts of limited material, the Curator will solicit the approval of the National Science Foundation's Office of Polar Programs. Approximately 120,000 samples have been distributed thus far from the collections of the Facility. Visitors to the Facility, for purposes of sample inspection and selection, are encouraged and welcomed. Assistance in sampling is provided.

Examination Facilities/Equipment

Extensive facilities are provided for the routine investigation of core material including a variety of light microscopes, transmission and scanning electron microscopes, X-ray diffractometry, and fluorescence, alpha, beta and gamma spectrometry, particle analysis, and the use of the Antarctic Reference Library.

Extent of Coverage

The bulk of the Antarctic collection consists of 1,133 Eltanin piston cores from the southern ocean, an approximately equal number of Eltanin trigger and phleger cores, the dredged, grabbed and otherwise obtained Eltanin bottom samples, the Deep Freeze and IWSOE antarctic shelf sediments, and all sedimentary materials recovered by the Dry Valley Drilling Project. These, and other projects, are described within the references which may be obtained upon request.

Remarks

A list of references which will provide more detailed information concerning the operation and the collection of this Facility may be obtained upon request.

REPOSITORY NAME

Lamont-Doherty Geological Observatory

Location, Telephone

New Core Laboratory
Palisades, NY 10964

Telephone: (914) 359-2900

Organization

Oceanographic research laboratories in marine geology, geophysics, geochemistry and biology for Columbia University.

Dr. Neil Opdyke, Senior Curator; Dr. Floyd W. McCoy, Core Curator

Storage Methods

Entire cores of deep-sea sediment kept in 8 ft. long trays, 2-5 trays per core, stored in wire cage racks. Dredge haul samples of rocks stored in large containers on wooden storage racks. Core samples previously used for paleomagnetic studies (approximately 45,000) stored in paper cups in wooden cabinets. All core and dredge information - shipboard logs and descriptions, as well as laboratory core descriptions and photographs and sampling records available from Curator's Office. World maps showing core and dredge locations also available, as well as typed location and depth listings.

Availability: Policies of Use

Materials are available for examination and sampling. A detailed copy of the policies and procedures which govern the use and sampling of these materials may be obtained upon request to the above address.

Examination Facilities/Equipment

Large area for examination and sampling of cores, other laboratory space available for short-term microscopic studies of sediments.

Extent of Coverage

World-wide coverage from all oceans and major seas; over 8,000 piston cores and approximately 650 dredged samples.

Remarks

All requests for sample material or for permission to sample should be addressed to Dr. Floyd W. McCoy, Core Curator; entire collection is now being inventoried with many of the cores to be withdrawn from further sampling by investigators not affiliated with Lamont-Doherty Geological Observatory.

REPOSITORY NAME

West Coast Repository
Deep Sea Drilling Project A-031
Scripps Institution of Oceanography
University of California at San Diego
La Jolla, California 92093

East Coast Repository
Lamont-Doherty Geological Observatory
Palisades, New York 10964

Note: Address all inquiries to the Curator, DSDP, at Scripps

Telephone: (714) 452-3532

(914) 359-5427

Organization

Established by a National Science Foundation contract with the University of California, Scripps Institution of Oceanography. Operated by the Deep Sea Drilling Project under policies set by NSF through JOIDES. Mr. William R. Riedel, Curator; Ms. Linda Garifal, Assistant Curator; Mr. Dennis Bohrer, Repositories Manager.

Storage Methods

Cores are stored in standard 1/2 section sealed containers, 5 feet in length either wet-refrigerated, dry-unrefrigerated or hard-frozen, depending on the type of core and/or its intended use. All data relative to the cores, e.g., core logs, samples, data resulting from studies of DSDP samples, etc. may be obtained by writing to:

Dr. John L. Usher
Associate Chief Scientist for Science Services
DSDP A-031, Scripps Institution of Oceanography
La Jolla, CA 92093

*Availability: Policies of Use

Samples are available upon request to the Curator. A copy of the NSF Sample Distribution Policy may be obtained upon request.

Examination Facilities/Equipment

Facilities are available for sampling only. DSDP does not provide any analytical facilities, only storage and sampling area. A staff of qualified technicians routinely conduct all sampling at the two repositories. Reference materials, data and microscopes are available to aid investigators in selection of samples.

Extent of Coverage

Coverage: 417 drill sites throughout all major and most minor ocean basins of the world, plus deep penetration into the ocean crust in the Atlantic and Pacific Oceans. Refer to the Initial Reports of the Deep Sea Drilling Project for specific details of sites.

Remarks

*For some requests, a service charge is required for duplication of the data. There is approximately 80,000, 1/2 core sections, 5 feet long housed in the repositories.

CANADA

BRIEF STATEMENT OF REQUIREMENTS FOR THE PRESERVATION OF SUBSURFACE
MATERIAL AND DATA

PLEASE REFER TO STATE REGULATIONS FOR DETAILS

In general, any company or individual, upon initiating new exploration activity of any kind, should inquire of the Provincial Government and the Federal Government for details of requirements concerning the preservation of subsurface materials and data.

ALL CATEGORIES OF MATERIALS AND DATA

In most cases, the Provincial Governments of Canada have regulations which require subsurface rock material and documentary data be submitted to the individual Province agency for permanent preservation in their repository. Where preservation is not required by Provincial regulation, the Federal Government through the Geological Survey of Canada does require these materials and data be filed with the Institute of Sedimentary and Petroleum Geology. In some cases this is appropriate for off-shore and other remote drilling programs.

The Western Canada Provinces, in particularly Alberta and Saskatchewan, have very complete and comprehensive regulations for the preservation of these subsurface materials and data. As a result, data availability are unsurpassed on the North American Continent.

REPOSITORY NAME

Energy Resources Conservation Board
Core Storage Center

Location, Telephone

3507 - 33rd Street NW
Calgary, Alberta T2L 2A7

Telephone: (403) 289-6636

Organization

The Core Storage Center was established in 1962 as the result of a brief from the Alberta Society of Petroleum Geologists. It functions as a branch of the Energy Resources Conservation Board of the Province of Alberta under L. A. Falkenberg, Geology Department Manager and A. H. Shepard, Core Storage Center Supervisor.

Storage Methods

Core is packaged in cardboard cartons containing an average of 5 feet of material and stored in 14 foot high steel racks.

Drill cutting samples are preserved in glass vials containing about 1 oz. of material. Cardboard trays of 60 vials each are stored in steel shelving 14 feet high. Samples are machine washed on the premises in duplicate. One set is stored the other is supplied to the Geological Survey of Canada on a cost sharing arrangement.

Drilling and completion reports are also stored at the Center for patron examination.

Well land-location indexed cards are used to control core and sample storage. The Center does not publish a general catalog, in its place area lists are produced at cost on request.

Availability: Policies of Use

Core, samples and drilling records are available for patron examination at the prevailing fees. A letter of release from the well licensee is required to examine material from exploratory wells less than one year old. Removal of any core material must be approved and is closely controlled to prevent abuse or excessive depletion of geological evidence. Core may be borrowed at the prevailing fee to accomplish specific laboratory tests. Drill cuttings and reports are available for examination only, however copies of reports may be obtained.

Examination Facilities/Equipment

Examination facilities consist of eighteen roller top tables for core, and 28 booths for drill cuttings and drilling reports. All material for examination is requested at the general office and is delivered by the staff. Each of the three examination rooms is provided with air change ventilation to control acid fumes as a health precaution. Equipment storage lockers are also provided. It is necessary for all investigators to provide their own microscopes, etc.

Extent of coverage

In excess of 2 million feet of core are in storage. This represents approximately 80% of all pre-1962 and essentially all Oil and Gas cores cut in the Province of Alberta since that date. In addition there are cores from selected Athabasca Oil Sands wells, experimental test wells and coal exploration holes. Between 10 to 16 thousand boxes of core are added annually.

Approximately 5 million vials of drill cutting samples are in storage. These represent the significant strata of most exploratory wells and sufficient development wells to maintain geological control. Samples from surface are stored for some virgin area wells where uphole geology is particularly significant. From 100 to 300 thousand vials are processed into storage annually.

Drilling reports from the 48,000 wells drilled in Alberta are stored at the Center. Reports from currently drilled wells are added as they are received.

Remarks

A custom core cutting service is available to industry at cost whereby small core samples may be cut or the cores sliced longitudinally.

REPOSITORY NAME

Institute of Sedimentary and Petroleum Geology

Location, Telephone

3303 - 33rd Street NW
Calgary, Alberta T2L 2A7

Telephone: (403)284-0110

Organization

The Institute of Sedimentary and Petroleum Geology is a Division of the Geological Survey of Canada, a Branch of the Department of Energy, Mines and Resources. The repository is an integral part of the Institute, which conducts geological investigations between the Precambrian Shield and the Cordilleran Divide from the Forty-ninth Parallel to northern Ellesmere Island. D.F. Scott is the Director.

Storage Methods

Cores are stored in standard cardboard containers on steel racking. Drill cuttings, washed by various provincial agencies, are stored in glass vials holding about 10 gm per sample. Unwashed cuttings residues are retained for special studies in standard core boxes. Core and drill cuttings for Northwest Territories and Yukon are indexed in the Department of Indian and Northern Affairs Schedule of Wells. Other indexes are provided by provincial schedules, Offshore Exploration Issues and Offshore Reports of the Resource Management and Conservation Board of the Department of Energy, Mines and Resources.

Availability: Policies of Use

Core and drill cuttings are released for public examination on expiration of the confidential period. The confidential period for Northwest Territories, Yukon and offshore exploratory wells is two years, for the four western provinces, one year. Northwest Territories and Yukon core and cuttings and the Institute's cut of western provinces' samples may be examined by the public free of charge, except Alberta samples, which are available at the neighboring Alberta provincial facility. Specific regulations and requirements are established concerning sampling procedures.

Examination Facilities/Equipment

Roller layout tables and microscope carriers are provided for core examination and microscope tables for drill cuttings study, with special arrangements for confidential material. These facilities are free of charge.

Extent of coverage

The Institute maintains a core and cuttings repository for the Northwest Territories and Yukon by arrangement with the Department of Indian and Northern Affairs which administers conservation regulations. The Institute repository has both cores and cuttings from exploratory wells of the Northwest Territories and Yukon only, and cuttings samples only from exploratory wells of the four western provinces of Manitoba, Saskatchewan, Alberta and British Columbia, and from the eastern and western continental shelf offshore areas. Exceptions are some wells drilled in Saskatchewan and Manitoba between 1930 and 1950, and in British Columbia between 1930 and 1954.

Remarks

Core material is available at ISPG only for Yukon and Northwest Territories (including the Arctic Islands). Core for other areas is stored by the appropriate federal offshore or provincial agencies.

OUT OF PROVINCE REPOSITORIES

None

PRIVATE REPOSITORIES

Amerada Minerals Corporation - 540 5th Ave. SW, Calgary, Alberta
Amoco Canada Geological and Geophysical Storage - 630 7th Ave. SE, Calgary, Alberta
Chevron Standard Co. - 400 5th Ave. SW, Calgary, Alberta, T2P0L7
Canada Cities Service, Ltd. - 550 6th Ave. SW, P.O. Box 2727, Calgary, Alberta, T2P2M7
Gulf Oil Canada, Research Lab. - 330 9th Ave., Calgary, Alberta
Mobil Oil Canada, Ltd.- Box 800, Calgary, Alberta, T2P2J7
Texaco Geological Laboratory - 932 6th Ave. SW, Calgary, Alberta

REPOSITORY NAME

Sample Library
British Columbia Department of Mines

Location, Telephone

Victoria, British Columbia

Telephone: unknown

Because data are lacking, it is unknown if this repository is still in operation.

OUT OF PROVINCE REPOSITORY

Institute of Sedimentary and Petroleum Geology - See Alberta

PRIVATE REPOSITORIES

Amerada Minerals - Calgary, Alberta
Amoco Canada Geological and Geophysical Storage - Calgary, Alberta
Chevron Standard - Calgary, Alberta
Canada Cities Service - Calgary, Alberta
Mobil Oil Corporation - Calgary, Alberta
Texaco Geological Laboratory - Calgary, Alberta

MANITOBA

EPOSITORY NAME

Core and Sample Library
Manitoba Department of Mines
Resources & Environmental Management

Location, Telephone

%Exploration & Geological Survey Branch
993 Centruy Street
Winnipeg, Manitoba

Telephone: (204) 786-7931

Library: Fort Garry Campus
University of Manitoba

Organization

Geological Survey Section; Exploration and Geological Survey Branch, W. D. McRitchie
Acting Chief. Samples and cores are under the direct supervision of H.R. McCabe.

Storage Methods

Samples are stored in 3 dram plastic or glass vials, 55 to a tray and filed in wooden cabinets. Cores are stored in cardboard boxes, each containing 6 feet, stacked in steel racks. Representative cores from each field, and almost all wildcat cores are on file. The remainder of the drill core is stored under company supervision (principally Chevron) in Virden. Storage locations are recorded on cards and a published Index of Core and Sample Storage is available from the Branch.

Availability: Policies of Use

Facilities of the Library are available free of charge. Duplicate sets of cuttings for all wildcat and selected field wells are sent to the Geological Survey of Canada, Institute of Sedimentary and Petroleum Geology, Calgary.

There is no permanent staff present at the library on the Fort Garry Campus, University of Manitoba. Users should contact the office personnel shown above, one or two days in advance.

Examination Facilities/Equipment

Although the Library is not permanently staffed, assistants are available anytime the facilities are required. Heated lab space includes core lay-out area and sample examination room, as well as limited laboratory facilities.

Extent of coverage

Cores and/or samples for all wildcat oil and gas exploration wells in Manitoba, as well as selected field wells are acquired by the Branch, including samples from the onshore portion of the Hudson Bay Basin area. In addition, a large amount of Phanerozoic core from the Mines Branch Stratigraphic Core Hole Program is on file along with selected core from mineral exploration drill holes where these holes have drilled through Phanerozoic strata.

Core and/or samples are on file for approximately 1500 wells.

OUT OF PROVINCE REPOSITORY

Institute of Sedimentary and Petroleum Geology - See Alberta

PRIVATE REPOSITORIES

Amerada Minerals Corp. - Calgary, Alberta

Chevron Standard- Calgary, Alberta

Canada Cities Service - Calgary, Alberta

Mobil Oil Canada, Ltd. - Calgary, Alberta

Texaco Geological Lab. - Calgary, Alberta

REPOSITORY NAME

Mineral Resources Branch
Department of Natural Resources

Location, Telephone

Bathurst Core Repository
495 Riverside Drive
P.O. Box 50
Bathurst, N.B.

Telephone: (506) 546-6600 546-6609

Fredericton Core Repository
College Hill Road
P.O. Box 6000
Fredericton, N.B.

Telephone: (506) 453-2206

Southern Regional Office Core Repository
P.O. Box 1590
Sussex, N.B. EOE 1P0

Telephone: (506) 433-4317

Organization

The core and sample repositories are part of the Mineral Resources Branch and under the supervision of the Regional Geologist offices. Correspondence should be directed to the Regional Geologist at the above addresses.

Storage Methods

Selected diamond drill core of holes drilled by private and government agencies are stored in one of the three repositories. In the Bathurst repository, core is largely from the Bathurst mining camp. Generally core taken from holes drilled north of parallel 47°00'00" N latitude is stored in Bathurst and core taken from holes drilled south of parallel 46°00'00" N latitude is stored in the southern regional office core repository. Diamond drill core taken between these two parallels of latitude and chip samples from holes drilled for petroleum are stored in Fredericton.

Availability: Policies of Use

Core may be examined at the appropriate Regional office by appointment during office hours.

Examination Facilities/Equipment

Core may be examined directly in storage area or removed to an office for detailed study. In the northern and southern repositories a core splitter, binocular microscope, diamond saw and photographic equipment are available. In the Fredericton repository there is a core splitter and binocular microscope.

Extent of Coverage

Bathurst	250,000 ft.
Fredericton	150,000 ft.
Sussex	50,000 ft. (room to expand)

Remarks

Core is stored according to geological region in southern New Brunswick. In Bathurst, storage of core is based upon structural and metallogenic zones and according to the National Topographic Grid.

OUT OF PROVINCE REPOSITORIES

None

PRIVATE REPOSITORIES

Amerada Minerals Corp. - Calgary, Alberta
Chevron Standard - Calgary, Alberta
Canada-Cities Service, Ltd. - Calgary, Alberta
Texaco Geological Laboratory - Calgary, Alberta

REPOSITORY NAME

Energy Resources Division

Location, Telephone

Department of Mines and Energy
95 Bonaventure Ave.
St. Johns, Newfoundland AIC 5T7

Telephone: (709) Unknown

Organization

The Energy Resources Division has responsibility for all energy developments within the Province. At present its efforts are concentrated on petroleum exploration.

Provincial regulations governing offshore exploratory drilling require that washed well cuttings, as well as certain other data, be deposited with the Energy Resources Division. For onshore operations, the regulations require that at least one half of any core taken must also be deposited.

Storage Methods

Washed well cuttings are in glass vials in trays. An index is available.

Availability: Policies of Use

Core and samples, like all well data, remain confidential for a period of two years after rig release date. At the end of that period they are available to all for non-destructive examination on the premises.

Examination Facilities/Equipment

Limited

Extent of coverage

Washed well cuttings from the 43 wells drilled offshore in Newfoundland waters since 1971.

Core, washed and unwashed well cuttings from Union-Brinex Anguille H-98, the sole well drilled onshore to-date.

REPOSITORY NAME

Mineral Development Division

Location, Telephone

Department of Mines and Energy
95 Bonaventure Ave.
St. Johns, Newfoundland AIC 5T7

Organization

Primarily concerned with the preservation of subsurface material resulting from mineral development.

Storage Methods

Storage at Springdale, Nfld. - core in boxes are maintained in racks.

Storage at St. John's, Nfld. - core in boxes are maintained in stacks.

Availability: Policies of Use

Available for inspection with approximately two weeks notice required.

Examination Facilities/Equipment

Limited space is available for microscopic inspection.

Extent of coverage

Mainly from this Province. Core stored is primarily from government sponsored drilling programs. Some core from private programs.

OUT OF PROVINCE REPOSITORY

None

PRIVATE REPOSITORIES

Amoco Canada Geological and Geophysical Storage - Calgary, Alberta

Amerada Minerals - Calgary, Alberta

Chevron Standard - Calgary, Alberta

Canada Cities Service - Calgary, Alberta

Mobil Oil Corporation - Calgary, Alberta

Texaco, Inc. - Calgary, Alberta

NORTHWEST TERRITORIES
(INCLUDES ARCTIC ISLANDS)

REPOSITORY NAME

None

OUT OF PROVINCE

Institute of Sedimentary and Petroleum Geology - See Alberta

PRIVATE REPOSITORIES

Amerada Minerals - Calgary, Alberta

Amoco Canada - Calgary, Alberta

Canda Cities Service - Calgary, Alberta

Chevron Standard - Calgary, Alberta

Mobil Oil - Calgary, Alberta

Texaco, Inc. - Calgary, Alberta

NOVA SCOTIA

DEPOSITORY NAME

Nova Scotia Centre for Geological Sciences

Location, Telephone

Antigonish, Nova Scotia

Telephone: (902) Unknown

This material taken from 1957 Edition. No new data available at this time.

Organization

Organized under the Deputy Minister of Mines, Department of Mines, Halifax, N.S. Correspondence should be directed to the Executive Secretary to the Board of Governors, Nova Scotia Centre for Geological Sciences, P.O. Box 26, University P.O., Antigonish, N.S.

Storage Methods

Almost all of the cores now stored at the N.S. Centre for Geological Sciences were obtained from coal companies drilling within the province. When the material obtained from a given locality has been studied, and the results recorded by a competent individual, the cores are thrown away. If, however, certain sections of core reveal something of exceptional interest, those sections are placed on display in the museum at the Centre.

Availability: Policies of Use

Unknown

Examination Facilities/Equipment

Unknown

Extent of coverage

Unknown

REPOSITORY NAME

McMaster University

Location, Telephone

Department of Geology

Hamilton, Ontario L8S 4M1

Telephone: (416) 525-9140 Ext. 4513/4518

Organization

This repository is supervised by the Chairman, Department of Geology

Storage Methods

No permanent long term storage as a reference collection.

Availability: Policies of Use

Limited numbers of cores for teaching and research.

Examination Facilities/Equipment

None available

Extent of coverage

Selected for material suitable for teaching.

REPOSITORY NAME

Petroleum Resources Laboratory

Location, Telephone

Ministry of Natural Resources

458 Central Ave.

London, Ontario

Telephone: (519) 433-8431

Organization

Originally established by the Geological Survey of Canada, the collection was moved from Ottawa to its present location. Samples and cores from all drilling of oil and gas wells in Ontario are submitted, processed and made available at the end of the required confidential period.

Storage Methods

Samples are stored in glass vials on trays. The tray number is published on well cards available in yearbook form or on microfilm. Although only 2 foot representative core chips are required to be submitted, in practice, full core is available. This is fully slabbed and stored in AX size core boxes.

Availability: Policies of Use

Cores and samples are available for use by any interested party. Because of the relatively small amounts stored, samples for destructive analysis cannot be made available. There is presently no charge for examining either core or samples.

Examination Facilities/Equipment

A sample examination room with space for four people is available. One microscope can be made available but it is preferred that the examiner bring his own. Commonly used chemicals and or ultra-violet light box may be used. There is an extensive library of Ontario geology at the location.

Extent of coverage

Samples are available for the three sedimentary areas of the province -- Southwestern Ontario, the Ottawa Lowlands, and the Hudson Bay Lowlands. Approximately 1500 wells are represented, mainly those from the last 30 years. Cores on approximately 700 wells are available.

REPOSITORY NAME

University of Western Ontario

Location, Telephone

Department of Geology
London, Ontario N6A 5B7

Organization

The repository is under the direction of the Chairman of the Department of Geology.

Storage Methods

Chip samples from cable tool drilling are kept in glass bottles. Existing storage is inadequate for ready accessibility. Few cores are kept in "dead storage".

Availability: Policies of Use

Limited. These materials maintained for teaching and research.

Examination Facilities/Equipment

Bench space and a microscope could be provided during summer months.

Extent of coverage

200 wells

OUT OF PROVINCE REPOSITORY

None

PRIVATE REPOSITORIES

Amerada Minerals - Calgary, Alberta
Canada Cities Service - Calgary, Alberta
Chevron Standard - Calgary, Alberta
Mobil Oil Corporation - Calgary, Alberta
Texaco, Inc. - Calgary, Alberta

PRINCE EDWARD ISLAND

REPOSITORY NAME

None

Note: No data available

OUT OF PROVINCE REPOSITORY

None

PRIVATE REPOSITORIES

Amerada Minerals - Calgary, Alberta

Canada Cities Service - Calgary, Alberta

Chevron Standard - Calgary, Alberta

Texaco, Inc. - Calgary, Alberta

QUEBEC

REPOSITORY NAME

Quebec Department of Natural Resources

Location, Telephone

1620 boul. de l'Entente
Quebec 6, G1S 4N6

Telephone: (418) 643-7801

Organization

In charge of the Geological Exploration Service (Dr. O.D. Maurice, Director) of the Quebec Department of Natural Resources (Dr. André F. Laurin, Director of Geology Services).

Storage Methods

Storage is provided for samples from wells drilled for oil or gas in the Province of Quebec, and for surface samples collected in connection with geological field investigation.

Well samples are washed at the Branch and portions for permanent record are preserved in glass vials stored in trays. The bulk of any sample is stored indefinitely in the original cloth or paper sample bags in labeled wooden storage boxes.

A representative suite of hand specimens covering most field investigations sponsored by the Quebec Department of Natural Resources is stored. Thin-sections are prepared and filed.

Availability: Policies of Use:

Geological logs are prepared by the Branch for all wells. Surface samples are cataloged as to geologist, area, and year filed in thin-section boxes with accompanying geologist's descriptions and indexed on individual, area maps. The samples may be examined at the Branch offices.

Examination Facilities/Equipment

Most information available on microfilm with rapid retrieval and reading facilities provided. Core and sample examination possible.

Extent of coverage:

For oil exploration:

Gaspé Peninsula (91 wells) St. Lawrence Lowlands (174 wells) Anticosti Island (9 wells) Magdalen Islands (1 well) Golfe of St. Lawrence (1 well).

OUT OF PROVINCE REPOSITORIES

None

PRIVATE REPOSITORIES

Amerada Minerals - Calgary, Alberta
Canada Cities Service - Calgary, Alberta
Chevron Standard - Calgary, Alberta
Texaco, Inc. - Calgary, Alberta

SASKATCHEWAN

DEPOSITORY NAME

Department of Mineral Resources
Subsurface Geological Laboratory

Location, Telephone

201 Dewdney Avenue East
Regina, Saskatchewan S4N 4G3

Telephone: (306) Unknown

Organization

Established under the Oil and Gas Conservation Act 1952. Well cuttings and cores taken from all wells in Saskatchewan must be submitted to the Dept. of Mineral Resources for permanent storage. Laboratory is part of the Sedimentary Geology Division (J.E. Christopher, Chief), Saskatchewan Geological Survey Branch (D.R. Francis, Director), Department of Mineral Resources (J.G. Wotherspoon, Deputy Minister).

Storage Methods

Cores are stored in their entirety in cartons on racks. Well cuttings are washed, bottled in vials and labeled by 10 foot intervals. Core and sample indexes are maintained on cards and in the computer system.

Availability: Policies of Use

Wildcat wells are kept confidential for one year, wells in field areas for one month. Certain pilot potash cores maintain confidentiality for an indefinite period. While confidential, written permission of the owner is required to examine the materials, other wise facilities are open to public. A nominal charge per well is made for this service.

Type of Examination Facilities/Equipment

Examination facilities other than optical equipment are provided. Cores are taken out of storage and placed on roller-rack for examination. The roller rack tables are well equipped with a study table which moves above the core material.

Extent of coverage

All of the sedimentary area of Saskatchewan with cuttings and cores from over 20,000 wells.

Remarks

Cores from the Precambrian area of northern Saskatchewan are stored at the Precambrian Core Laboratory, La Ronge, Saskatchewan. Similar material from the lignite fields and water wells are stored by the Geology Division, Saskatchewan Research Council, Saskatoon, Saskatchewan.

OUT OF PROVINCE REPOSITORIES

Institute of Sedimentary and Petroleum Geology - See Alberta

PRIVATE REPOSITORIES

Amerada Minerals - Calgary, Alberta
Amoco Canada - Calgary, Alberta
Canada Cities Service - Calgary, Alberta
Chevron Standard - Calgary, Alberta
Texaco - Calgary, Alberta

REPOSITORY NAME
NONE

OUT OF PROVINCE REPOSITORY

Institute of Sedimentary and Petroleum Geology - See Alberta

PRIVATE REPOSITORY

Amerada Minerals - Calgary, Alberta
Canada Cities Service - Calgary, Alberta
Chevron Standard - Calgary, Alberta
Mobil Oil Corporation - Calgary, Alberta
Texaco, Inc. - Calgary, Alberta