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I - 22970

DP 1285-8

(12)

SANDIA REPORT

SAND85-1532 • Unlimited Release • UC-92

Printed August 1985

Subsidence Due to Fluid Withdrawal: A Survey of Analytical Capabilities

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Prepared by
Sandia National Laboratories
Albuquerque, New Mexico 87185 and Livermore, California 94550
for the United States Department of Energy
under Contract DE-AC04-76DP00789

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Printed in the United States of America
Available from
National Technical Information Service
U.S. Department of Commerce
5285 Port Royal Road
Springfield, VA 22161

NTIS price codes
Printed copy: A06
Microfiche copy: A01

SAND85-1532
Unlimited Release
Printed August 1985

SAND--85-1532

DE85 017883

**SUBSIDENCE DUE TO FLUID WITHDRAWAL:
A SURVEY OF ANALYTICAL CAPABILITIES**

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ABSTRACT

An extensive review of the literature was conducted in the area of land subsidence due to the withdrawal of fluids. A method of categorizing the citations was developed to facilitate identification of references relating to specific fields of interest. A brief review of the materials represented by the bibliography indicates the state-of-the-art within this area. The bibliography (containing 1,225 citations) is presented in its categorized form.

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INTRODUCTION

Since early in the 20th century it has been recognized that removal of fluids from subterranean reservoirs can cause sinking of the land surface. The decrease in hydrostatic pressure due to the removal of fluid increases the load on the sediments, which then compact and the land (surface) subsides. Both vertical and horizontal displacements of the land surface occur, resulting in many forms of damage: structural failure of buildings, pipelines, and railroads; flooding of tidal areas; changes in the gradient and capacity of waterways, sewers, drains, and streams; failure of well casings. A less obvious effect is the permanent reduction in reservoir capacity by irreversible compaction of sediments. Both Venezuela and the United States have experienced these problems and therefore have mutual interests in alleviating the effects. Under the purview of the Energy Research and Development Agreement of 1980, an Implementation Agreement in the Area of Subsidence Due to Withdrawal of Fluids was promulgated. One of the planned tasks in the Implementation Agreement provides for "an exhaustive review of the literature to establish the state-of-the-art with respect to conceptual and mathematical theories of compaction and its relation to subsidence." A voluminous mass of literature has accumulated within this sphere of interest and the acquisition and review of each document, within a reasonable time, is infeasible. Furthermore, the sphere of interest is very broad, but can be subdivided into narrower fields that are of specific interest to individual investigators.

On-line information services provide a means for rapidly compiling lists of references pertaining to any selected field of interest. The services consist essentially of a series of computerized databanks listing references to published documents, each reference accompanied by an abstract or a list of keywords. By specifying keywords and phrases, the on-line services can rapidly search a particular databank and identify all references that contain those keywords or phrases. Sandia National Laboratories (SNL) has completed a search of nine on-line databanks and has compiled a bibliography of the literature pertaining to land subsidence due to the withdrawal of fluids. Since there undoubtedly exist some documents that are not listed in these databanks, the bibliography is, to that extent, incomplete. Nevertheless, it is felt that the list provides full representation of every professionally treated aspect of the field. This report describes the methodology used to develop and edit the list of citations, explains the scheme for classifying and categorizing the citations, and presents the categorized bibliography.

METHODOLOGY

Use of the Information Services

The DIALOG and TIC on-line information service were used to generate a basic list of documents. The specific files that were searched are shown in Table 1. Each file was searched for the keywords contained in two lists: (1) words relating to subsidence, (2) words relating to types of reservoirs. Each search defined the set of citations within the file that used the keyword for that search. By taking the union of all sets defined by keywords from list 1, a set of citations dealing with land subsidence was defined. Likewise, for list 2, a set was defined for those citations mentioning types of reservoirs. The intersection of these latter two sets yielded the bibliography of all documents in the file relating to both land subsidence and reservoirs. A simple example of the procedure is shown in Table 2. The nine citation lists extracted from the nine files were consolidated into a single list that was then extended by adding references to papers presented at recent conferences that were not yet entered in the on-line information services files. In order to ensure that all relevant documents contained in the files were identified and included in the consolidated list, the search methodology was very broad. As a result, many documents not strictly relevant to the mutual interests of Venezuela and the U.S. were contained in the consolidated list. Also, since many documents appeared in more than one file, some duplication occurred. After editing to eliminate duplications and irrelevant references, the consolidated list contained 1,184 entries.

Description of Perspectives: Resource, Analytical, End-Use

The document list was so long that selection of references pertaining to a specific narrow field of interest was a burdensome task. To facilitate use of the bibliography the list was divided into categories, each category containing documents relating to a narrow subfield of interest. The categories were defined by selecting three perspectives, within each of which the documents could be classified into one of three fields. The three perspectives are (1) the resource, or industry, from which the document was generated, (2) the analytical methods applied by the document, and (3) the end-use intended for the document. The classification fields within each perspective are shown in Table 3.

The Resource Perspective -- The mutual interests of Venezuela and the U.S., pertaining to energy resources, are centered on the petroleum industry; however, the subject of compaction due to fluid withdrawal overlaps with the water and geothermal industries. Also, the principles applicable to land subsidence are the same regardless of the type of

Table 1

Files Searched for References

<u>Information Service</u>	<u>File Searched</u>	<u>Description</u>
Dialog	Compendex	The COMPENDEX database is the machine-readable version of Engineering Index (Monthly/ Annual), which provides abstracted information from the world's significant engineering and technological literature. It provides world-wide coverage of approximately 3500 journals, publications of engineering societies and organizations, papers from the proceedings of conferences, and selected government reports and books.
Dialog	GEOREF	GEOREF provides comprehensive access to more than 4,500 international journals, plus books, conference papers, government publications, dissertations, theses, and maps concerned with all aspects of geology, geochemistry, geophysics, mineralogy, paleontology, petrology, and seismology. Approximately 40% of the indexed publications originate in the U.S. and the remainder from outside the U.S. Publications of international organizations make up about 7% of GEOREF.
Dialog	Engineering Meetings	The Ei ENGINEERING MEETINGS database covers significant published proceedings of engineering and technical conferences, symposia, meetings, and colloquia. Each meeting included is indexed in a main conference record; in addition, all papers from the meeting are individually indexed. Records in Ei ENGINEERING MEETINGS do not contain abstracts. The file is produced by Engineering Information, Inc. SHE (Subject Headings for Engineering) controlled vocabulary and CAL codes are used for subject indexing. Ei ENGINEERING MEETINGS covers all disciplines of engineering including civil engineering, environmental engineering, geological engineering, bioengineering, electrical engineering, electronics, control devices and principles, applied mathematics and physics and more.
Dialog	Conference Papers	CONFERENCE PAPERS INDEX provides access to records of more than 100,000 scientific and technical papers presented at over 1,000 major regional, national, and international meetings each year. CONFERENCE PAPERS INDEX provides a centralized source of information on reports of current research and development from papers presented at conferences and meetings; it provides titles of the papers as well as the names and addresses (when available) of the authors of these papers. Also included in this database are announcements of any publications issued from the meetings; in addition to available preprints, reprints, abstract booklets, and proceedings volumes, including dates of availability, costs and ordering information. Primary subject areas covered include the life sciences, chemistry, physical, sciences, geosciences, and engineering.
Dialog	Government Printing Office	The GPO MONTHLY CATALOG is the machine-readable equivalent of the printed Monthly Catalog of United States Government Publications. The GPO MONTHLY CATALOG contains records of reports, studies, fact sheets, maps, handbooks, conference proceedings, etc., issued by all U.S. federal government agencies, including the U.S.

Table 1 (Continued)

Files Searched for References

<u>Information Service</u>	<u>File Searched</u>	<u>Description</u>
		Congress. Also included in this database are records of all the Senate and House hearings on private and public bills and laws. The GOP MONTHLY CATALOG contains a wealth of information on a wide range of topics including agriculture, economics, energy research, public policy, tax reform, business law, health, etc. The GPO MONTHLY CATALOG provides access to legislative reports, standards and safety studies, production and distribution statistics, industry reports and projections, labor standards requirements, and state of the art summaries on every major issue and technology from human rights to hydraulic geometry.
Dialog	National Technical Information Service	The NTIS (National Technical Information Service) database consists of government-sponsored research, development, and engineering plus analyses prepared by federal agencies, their contractors or grantees. It is the means by which unclassified, publicly available, unlimited distribution reports are made available for sale from such agencies as NASA, DDC, DOE, HUD, DOT, Department of Commerce and other government agencies. NTIS includes material on technical applications, business procedures and regulatory matters. Many broad subject areas are represented such as pollution, energy, technology transfer, behavioral/societal problems, and urban and regional planning.
Technical Information Center	Tulsa	The Tulsa Data Base contains comprehensive bibliographic information from worldwide technical literature and patents related to the exploration, development, and production of oil and natural gas. This includes all information, except abstracts, as announced in the weekly abstract publication Petroleum Abstracts, published by the Information Services Department, University of Tulsa.
Technical Information Center	Water Resources Abstracts	The WRA data base corresponds to the monthly abstracting journal, Selected Water Resources Abstracts (SWRA). It covers the water-related aspects of the life, physical and social sciences as well as related engineering and legal aspects of the characteristics, conversation, conservation, control, use, or management of water. Monographs, journal articles, reports and other publication formats are covered.
Technical Information Center	Energy Data Base	The EDB File contains all unclassified energy-related scientific and technical information processed at the Technical Information Center, including nuclear information. This includes information announced in Energy Abstracts for Policy Analysis and Energy Research Abstracts as well as the monthly current awareness journals Current Energy Patents, Energy and the Environment, Fossil Energy Update, Fusion Energy Update, Geothermal Energy Update, Solar Energy Update, and the Reactor Safety, and Radioactive Waste Management. Beginning with Volume 7 (1976), information announced in Atomindex is also included in EDB. For nuclear information processed prior to June 1976, see the NSA file.

Table 2
Example of Search Procedure

<u>Set</u>	<u>Keyword</u>	<u>Number of Citations</u>	<u>Comment</u>
1	Subsidence	4,685	Set 1 consists of 4,685 citations of documents within the file that use the keyword "subsidence."
2	Compaction	1,928	
3	1 + 2	5,409	The union of set 1 and set 2. This set uses at least one of the words in LIST 1.
4	Oil Field	10,716	LIST 2
5	Groundwater	42,196	
6	4 + 5	50,314	
7	3 * 6	2,028	The intersection of sets 3 and 6. This set uses at least one keyword from both LIST 1 and LIST 2.

Table 3
Classification Fields within Each Perspective

<u>RESOURCE</u>	<u>ANALYTICAL</u>	<u>END-USE</u>
Petroleum	Field observation	Descriptive
Water	Laboratory experiment	Predictive
Geothermal	Theory	Prescriptive

fluid extracted; therefore, the classification by resource may seem superfluous. However, the characteristics of the reservoir can strongly affect the magnitude of the land subsidence and the dimensions of the affected area. For example, petroleum reservoirs are usually in older and more consolidated geologic structures at a greater depth and smaller extent than water reservoirs. The pressure reductions within petroleum reservoirs are much greater than in water reservoirs. The resulting land subsidence associated

with petroleum extraction often affects a smaller area but with greater horizontal and vertical differential movement. Similar statements apply to geothermal fields with the added complication of large thermal flows from the reservoir. The classification by resource was retained as an indicator of these characteristics.

The Analytical Perspective -- The analytical perspective identifies the type of analysis used to generate the information in the document. The "field" classification indicates direct observation at a field site. The information may relate to geologic formations, well locations, pressure readings, etc. The "laboratory" classification indicates that data were generated from a laboratory experiment. The citation would be classified "laboratory" even if the experiment involved samples from a specific site (e.g., an article reporting laboratory porosity measurements of limestone obtained from Savannah, GA). Papers that report development of functional relationships or simulation programs were placed in the "theory" classification. The "theory" classification was imposed even if the functional relation or simulation program had been adjusted to represent a specific field site. The classification criterion invoked is that the information was derived from theoretical considerations: its possible validation by experiment or field observation did not change the classification.

The End-Use Perspective -- This perspective has its basis in the nature of the end result of the analysis. That is, the focus for this perspective is on the capabilities of the methodologies used to generate results for each document. These capabilities are classified as "descriptive," "predictive," or "prescriptive," and imply a capacity to determine what has happened, what will happen, and what should happen, respectively, in a fluid-withdrawal operation. In general, these capabilities are increasingly more ambitious in scope and in that sense more difficult to synthesize. That is, a predictive capability is essentially an extrapolative application of a descriptive capability, and a prescriptive capability entails a normative extension of a predictive capability. Graphically:

descriptive + extrapolative → predictive
predictive + normative → prescriptive

Thus, prescription builds on prediction, which builds on description.

The most voluminous area of documentation of subsidence due to fluid withdrawal falls within the category of descriptive information. This information is largely anecdotal in nature, describing land subsidence at specific field sites.

Predictive documents use more complex information processing such as the synthesis of functional relationships, the regression of data to determine coefficient values, and the development of mathematical models. From these a numerical simulation program is often developed for which the input is data representing the physical environment (e.g., geological structure, density, porosity) and the extractive process (e.g., number, location and depth of wells, extraction and injection rates). The output can be the predicted subsidence as a function of space and time. In its simplest form, prediction is merely a numerical or graphical extrapolation of time-series data.

The prescriptive process is an extension of the predictive capability. In fact, a predictive simulation program can be used for prescriptive purposes by repeated running of the program and varying the input for each run. For example, by inputting a range of extraction rates, one can identify the maximum extraction rate that yields an acceptable subsidence. A more complex prescriptive capability can be achieved by an inversion of the predictive model. The inverted model would take input data describing the physical environment and the tolerable subsidence and would furnish an output prescribing the extraction and injection processes..

The Categorization Matrix

Since each document is classified into 1 of 3 fields within each of 3 areas, 27 distinct categories result. This is pictorially represented in Figure 1 as a three-dimensional, 3 x 3 x 3, matrix.

The information available from the databanks consisted of the author's name, the document title, an abstract, and/or a keyword list. This information was generally sufficient to provide a positive categorization for each document. When the abstract was missing, categorization was sometimes questionable, but these cases were few and should not affect the usefulness of the categorization scheme. Some documents relate to more than one category and therefore appear in each of those categories.

The perspectives chosen here have several important implications on the final document list. First, general theories for consolidation/fluid withdrawal have been excluded. Even though these theories form the theoretical basis for reservoir analysis, we have chosen to include only those formulations that have been specialized to subsidence phenomenology due to fluid withdrawal.

Second, we have chosen to exclude dynamic (earthquake) excitations. This class of investigations is considered to be outside our current range of interest, and dynamic

Figure 1. Categorization Matrix

excitations usually do not affect, significantly, subsurface reservoir consolidation.

Many documents that originated within the coal mining industry were generated from the searches. These were not arbitrarily excluded from the bibliography. If the information available clearly indicated that the document treated land subsidence due to lowering of the water table (caused, in turn, by coal mining operations), then it was retained as a water-related document.

RESULTS

The distribution of citations with the resource perspective is shown in Figure 2. Documents relating to the water resource are predominant in this perspective with a total of 735 references. Part of this predominance is because of the addition of references that actually originated within the coal industry but deal primarily with compaction and subsidence resulting from a lowering of the water table. The geothermal industry is the smallest group within this classification with 164 references. The renewal of interest in geothermal development has been accompanied by many recent contributions. The petroleum industry is represented by 285 citations.

Figure 2. Distribution of Citations within the Resource Perspective

The distribution of citations within the analytical perspective is shown in Figure 3. This distribution was skewed with 776 citations in the "field" classification; nearly all of these were further classified as descriptive. Only 49 references were classified as being generated from laboratory experiments. This suggests that the databanks searched were not the prime sources for reports on engineering experiments. Expanding the search field to include databanks containing materials on soil mechanics, and structural and foundation engineering may remedy this deficiency.

Figure 3. Distribution of Citations within the Analytical Perspective

The theoretical classification contained 359 references. Of these, 217 were further classified as predictive. Numerical models using finite difference and/or finite element methods are generally used for prediction. The models incorporate one-, two-, and three-dimensional theories of consolidation often with layered media. Most of the numerical techniques use an iteration technique between fluid flow analysis and consolidation analysis. The solution scheme involves solving each of these segments independently and uses the iteration scheme to couple the two solutions. In some of these formulations, both elastic and

plastic compression of the matrix are treated. In other formulations, fluid flow is coupled with matrix consolidation. Several unified analysis techniques have been proposed for the combined flow/consolidation problem. These schemes are primarily founded in the continuum theory of mixtures.

Some of these analyses also include overburden analysis and time/rate effects (e.g. creep) and fluid production rates as factors influencing the stress and pressure distributions. Most models treat the fluid-bearing matrix as a single-porosity media, but the concept of multiple porosity is discussed and several numerical models incorporate the capability of analyzing double-porosity materials. Both single- and multiphase flow through soil and rock are treated, and, for some geothermal studies, the effects of thermal flow on temperature and pressure distributions is treated. Surface phenomena caused by differential vertical displacement such as fault-type crack propagation, tensile cracks, horizontal strain, and surface curvature are treated.

Classification by end-use (descriptive, predictive, or prescriptive) produced a skewed distribution with two-thirds (789) of the references in the descriptive classification. Most of these (617) were descriptions of land subsidence at field sites. Subsidence due to ground-water withdrawal is described for many sites in the U.S. and Japan and for sites in England, Italy, Mexico, Taiwan, Thailand, and South Africa. Subsidence due to petroleum extraction is described for the U.S., Japan, Italy, and Venezuela. Geothermal sites are described in the U.S., Italy, New Zealand, and Mexico.

The predictive classification was limited to those documents that predicted land subsidence, not just some contributing factor such as stress, strain, or compressibility. There are 323 references classified as predictive and two-thirds of those are further classified as theoretical.

Only 72 references were generated in the prescriptive classification and 64 of those dealt with field activities intended to prevent subsidence. Of the remainder, seven were further classified as theoretical. The only prescriptive methods described are cessation of fluid extraction and/or injection of a replacement fluid. There are no other methods mentioned in the entire reference list for correcting the effects of land subsidence. The distribution of citations within the end-use perspective is shown in Figure 4.

Figure 4. Distribution of Citations within the End-Use Perspective

COMMENTARY

The state-of-the-art of analytical capabilities relative to subsidence due to fluid withdrawal is illustrated graphically in Figure 5. In the figure, the resource perspective classifications are on the ordinate and the analytical perspective classifications on the abscissa. Distances are proportional to the number of citations. The end-use perspective is shown by shading. Each rectangle represents a category. The area of each rectangle is proportional to the number of citations in that category.

Figure 5. Distribution of Citations among Categories

Figure 5 clearly shows the heavy emphasis on descriptive material; two-thirds of the citations are descriptive in content. One-half of the citations are not only descriptive but pertain to a specific field site.

Of the 323 references classified as predictive, two-thirds (214) are theoretical and nearly all the remainder apply to specific field sites. The lack of references dealing with laboratory experiments may be due to the selective content of the databanks that were searched and may not represent an actual lack of experimental data.

Perhaps the most significant limitation to the existing analytical capabilities is the paucity of (prescriptive) information useful for mitigating the effects of land subsidence due to the withdrawal of fluids. In only a few cases has subsidence been slowed or halted, and this has been achieved only by slowing or halting the fluid withdrawal or by injection of replacement fluids. Possibly the most fertile area for R&D is in the development and application of analytical techniques for optimizing the effects of subsidence due to fluid withdrawal. Development and implementation of prescriptive capabilities, with a clear orientation toward defining operations and mitigation measures, could dramatically improve the ability to mitigate the effects of subsidence due to fluid withdrawal.

SUMMARY

Nine files from two on-line information services were searched for citations relating to land subsidence due to fluid withdrawal. A bibliography of 1,184 references was generated. The bibliography was sorted into 27 categories representing specific fields of interest defined by classifications within the applicable resource, analytical method, and end-use of each document. Each of the three resources considered (petroleum, water, and geothermal) are strongly represented in the bibliography. Among the three analytical methods considered (field work, laboratory experiment, and theory), field work predominates, and theory is strongly represented, but laboratory experiment is weakly represented. Within the end-use perspective, descriptive papers predominate and predictive papers are strongly represented, but there are only a few prescriptive documents. The categorized bibliography will facilitate access to the large amount of material available within this sphere of interest.

BIBLIOGRAPHY OF REFERENCES RELATING TO SUBSIDENCE DUE TO FLUID WITHDRAWAL

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BIBLIOGRAPHY OF REFERENCES RELATING TO SUBSIDENCE DUE TO FLUID WITHDRAWAL

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Petroleum/Field/Descriptive

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