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LBL

BACA GEOPHYSICAL  
INFORMATION CENTER

LISTING

10-28-82

Without WELL-BY-WELL LISTINGS:

- o DAILY TESTING REPORTS
- o TEMPERATURE & PRESSURE GRADIENT RECORDS
- o FLOWTEST # \_\_\_\_\_
- o WATER INJECTION
- o PRODUCED FLUIDS AND GAS ANALYSIS
- o OTHER (FLOWTEST PRODUCTION GEOCHEMISTRY)  
DIRECTIONAL SURVEYS
- o INTERFERENCE PRESSURE DATA
- o DEEPWIND

BACA FILES  
REPORTS ON HAND

- Allied Geophysics Inc., 1974, "Mercury Soil Gas Survey Baca Prospect".
- Behrman, P.B. and Knapp, R.B., Jan. 1980, "Structure of the Redondo Creek Area, Baca Prospect: Implications Concerning the Nature of Permeability and Control of Production", 43 pp. w/plates.
- Bureau of Indian Affairs, March 1980, "Geothermal Hydrology at Jemez Mtns.- Ion Balance and Flow Depletion".
- Chasteen, A.J., Aug. 1974, "Baca Project Interim Report of Test Results".
- Controls for Environmental Pollution, Inc., Nov. 1974, "Baca Ranch Geothermal Site Geothermal Radiological Monitoring Program".
- Core Laboratories, Inc., 1975, "Special Core Analysis Study for Union Oil Company Baca No. 13 Well, Redondo Creek Field, New Mexico".
- Dondanville, R.F., 1971, "Hydrothermal Geology of the Valles Caldera, New Mexico.
- Earth Resources Operations, North American Rockwell Corp., 1972, "Airborne Infrared Geothermal Exploration--Valles Caldera, New Mexico".
- Group Seven, Inc., 1972, "Electrical Resistivity Survey in Valles Caldera, New Mexico".
- Group Seven, Inc., 1972, "Additional Data--Electrical Resistivity Survey in the Valles Caldera, New Mexico".
- Gulati, M.S., June 1975, "Baca Reservoir Studies".
- Hartz, J.D., Nov. 1976, "Geothermal Reservoir Evaluation of the Redondo Creek Area, New Mexico".
- Hartz, J.D., 1977, "Baca No. 5A - Pressure Falloff and Injection".
- Hartz, J.D., 1977, "Baca No. 15 - Production Test and Reservoir Evaluation".
- Laughlin, A.W., 1981, "The Geothermal System of the Jemez Mtns. NM and its Exploration", in Rybach, L., and Muffler, L.J.P, editors: Geothermal Systems, Principles, and Case Histories, Chapter 11, p. 295-320.
- McPhar, 1973, "Reconnaissance Resistivity Survey Baca Property".
- McPhar, 1973, "Supplemental Report--Reconnaissance Resistivity and Schlumberger Depth Sounding Surveys Baca Property".
- Segar, R.L., 1974, "Quantitative Gravity Interpretation Valles Caldera Area, New Mexico".

BACA FILES  
REPORTS ON HAND

- Slodowski, T.R., 1976, "Geothermal Geology of the Redondo Creek Area Baca Location".
- Slodowski, T.R., 1977, "Geological Resume of the Valles Caldera".
- Southwest Environmental Research and Development Corporation, Oct. 1974, "The Biota of Redondo Creek Canyon, Sandoval County, New Mexico, with Emphasis on Big Game Species and Rare, Endangered or Threatened Species".
- Stearns-Roger, Inc., June 1975, "Second Progress Report Meteorological and Hydrogen Sulfide Background Observations, Baca Location No. 1, New Mexico".
- Stearns-Roger, Inc., Oct. 1975, "Third Progress Report Meteorological and Hydrogen Sulfide Monitoring Programs, Baca Location No. 1, New Mexico".
- Stearns-Roger, Inc., Dec. 1975, Preliminary Ground-Level Hydrogen Sulfide Concentration Estimates, Baca Location No. 1, New Mexico".
- Stearns-Roger, Inc., Dec. 1975, "Preliminary Investigation Hydrogen Sulfide Background Levels, Baca Location No. 1, New Mexico".
- Stearns-Roger, Inc., Feb. 1976, "Annual Report Meteorological and Air Quality Monitoring Programs, Baca Location No. 1, New Mexico".
- Union Geothermal Company, "Temperature Gradient Hole Data 1970, 1972-1974 and Location Map".\*
- U.S. Department of Energy, July 1979, Draft EIS: Geothermal Demonstration Program - 50 MWe Power Plant - Baca Ranch, Sandoval and Rio Arriba Counties, New Mexico, USDOE/EIS-0049-D.
- Water Resources Associates, 1977, "Hydrology of the Region Surrounding the Valles Caldera".
- Water Resources Associates, 1977, "Appendices II and III to Hydrology of the Region Surrounding the Valles Caldera".
- Water Resources Associates, Inc., 1977, "Model of Streamflow Depletion of the Jemez River by Geothermal Development in the Valles Caldera, New Mexico" - Addendum to Hydrology, Jemez Mountains, New Mexico, 1977.
- Whitford Ecological Consultants, 1975(?), "Studies of Rare and/or Endangered Species on the Union-Baca Geothermal Lease and Surrounding Area with Discussion on Other Species".
- Whitford Ecological Consultants, May 1975, "Report on Reconnaissance of Redondo Creek, Redondo Boarder, Sulfur Canyon, Alamo Canyon and Valle Seco Areas with Proposals and Budget Estimates for Biological Baseline Studies".

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\* Transfer and release predicated upon Union Geothermal Company obtaining permission to disclose the subject data.

BACA FILES  
REPORTS ON HAND

Whitford Ecological Consultants, Aug. 1975, "Winter Activity and Habitat Use by Elk in the Redondo Creek Area with Comments on Activities and Relative Abundance of Other Species".

Whitford Ecological Consultants, Nov. 1975, "The Biota of the Baca Geothermal Site".

BACA FILES

ADDITIONAL REPORTS ON HAND

- Bodvarsson, G.S.; VonderHaar, S.P.; Wilt, M.J.; Tsang, C.F., 1980. Preliminary estimation of the reservoir capacity and the longevity of the Baca geothermal field, New Mexico. SPE Paper 9273, Lawrence Berkeley Laboratory Report LBL-10656.
- Christensen, W.; Atkinson, P., 1981. Baca-20, Redondo Creek Field: Summary and analysis of flowtests 1 through 4; 8/80 to 1/81.
- Energy Resources Exploration, Inc., 1980. Water: Occurrence, supply and application at Jemez Pueblo with assessment of geothermal activities, Baca location. Prepared for council of Energy Resource Tribes, Englewood, Colorado.
- Geonomics, 1976. Magnetotelluric-Telluric profile survey, Valles Caldera prospect. (Reprocessed by QEB, Inc. 1978.)
- Goldstein, N.E.; Holman, W.R.; Molloy M.W., 1982. "Final report of the Department of Energy Reservoir Definition Review Team for the Baca Geothermal Demonstration Project. Lawrence Berkeley Laboratory Report LBL-14132, 52pp.
- Goupillaud, P.L.; Rice L.F.; Mason, B.F., April 1981. Baca geothermal demonstration project-geological and geophysical data file-topical report. Systems, Science and Software, La Jolla, CA. Report no. DOE/ET/27163-13. 2 copies
- Grant, M.A.; Garg, S.K., 1981. Baca geothermal demonstration project: Interpretation of downhole data from the BACA geothermal field. Systems, Science and Software Report DOE/ET/27163-13. 112 pp.
- Los Alamos Scientific Laboratory, September 1978. 1978 International Symposium on the Rio Grande Rift, Santa Fe, New Mexico, October 8-17, 1978, Program and Abstracts. Los Alamos Scientific Laboratory Report, LA-7487-C.
- Morrison, H.F.; Corwin R.F.; deMouilly, G.; Durand, D., 1978. Semi-annual technical progress report: Interpretation of Self-Potential data from geothermal areas. USGS Geothermal Research Project Contract 14-08-0001-16546, 35 pp.
- Rice, L.F., June 1981. Baca geothermal demonstration project-Reservoir data file: status as of June 2, 1981, Systems, Science and Software, La Jolla, CA Report no. DOE/ET/27163-15. 2 copies
- Rice, L.F. and Garg, S.K., 1982. Interference tests data and analysis for Baca wells in the Redondo Creek area. S-Cubed Report SSS-R-82-5325, 81 pp.

BACA FILES  
BIBLIOGRAPHIES

Webster Services, Inc.: Executive Summaries Reports 1→61,\*

Baca Geothermal Demonstration Project - 2 copies

Science, Systems & Software, Baca Library Listing as of 6/30/81 - 2 copies

# BACA FILES

## LOGS

BACA #4	Drilling Logs (Lithology)	09-11-70
BACA #5A	Drilling Logs (Lithology)	08-13-71
BACA #6	Drilling Logs (Lithology)	07-08-72
BACA #8	Drilling Logs (Lithology)	08-16-72
BACA #9 & 9 REDRILL	Drilling Logs (Lithology)	09-15-72
BACA #10	Drilling Logs (Lithology)	07-05-73
	Gamma Ray	09-12-73
	Cement Bond Log	09-15-73
	Temperature Log	09-14-73, 09-15-73
BACA #11	Drilling Logs (Lithology)	09-09-73
BACA #12	Drilling Logs (Lithology)	09-05-81
	Casing Inspection Caliper Log	07-17-76
	Temperature Log	07-07-77
BACA #13	Perforating Depth Control	05-15-81
	Engineering Production Logging	05-15-81
	Fullbore Flowmeter	05-15-81
	Temperature Log	05-15-81
	Dual-Induction-SFL	
	w/Linear Correlation Log	09-18-74, 10-28-74
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	Dual-Induction-Laterolog	
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BACA #14	Drilling Logs	11-16-74
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#17 REDRILL #1:	Induction-Gamma Ray Log	11-10-78
	Dual-Induction-Laterolog	
	w/Linear Correlation Log	08-31-78
	Temperature	09-22-78, 10-12-78
	Cement Bond Log (Gamma Ray)	09-29-79
	Borehole Geometry (Caliper)	09-22-78

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	Dual-Induction-Laterlog	
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	Temperature	01-01-79, 03-08-79
	Fracture ID Log	
	w/Correlation Log	01-01-79
BACA #19	Drilling Logs	10-03-79, 10-12-79, 10-30-79
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	w/Linear Correlation Log	10-30-79
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BACA #20	Fracture ID Log	
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	Simultaneous Compensated	07-16-80, 08-01-80,
	Neutron-Formation Density	08-13-80
	High Resolution Temperature	08-01-80
	Borehole Compensated	
	Sonic Log	07-16-80
BACA #21	Fracture ID Log	
	w/Correlation Log	09-28-80
	Dual-Induction-SFL	
	w/Linear Correlation Log	09-18-80
	Simultaneous Dual Laterolog	09-28-80
	Simultaneous Compensated	
	Neutron-Formation Density	09-28-80
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	Induction-Gamma Ray Log	11-17-80
	Fracture ID Log	
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	Density	12-10-80
	Dual Laterolog	10-21-80, 12-11-81



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Fracture ID Log w/Correlation Log	02-10-81
Temperature Log	02-10-81
Compensated Neutron-Formation Density	12-10-81
Induction-Gamma Ray Log	02-18-81
Dual-Induction-SFL w/Linear Correlation Log	01-23-81

BACA #24

Temperature Log	05-16-81
Simultaneous Dual Laterolog	05-16-81
Drilling Logs	05-16-81

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RESERVOIR ENGINEERING

FLUID CHEMISTRY

COST DATA

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LIST (VERSION 1)

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EDIT (VERSION 1)

BACA FILES

LBL (CONFIDENTIAL)

SLIDES FROM BACA REVIEW MEETING 10-22-81

BACA FILES

MEETINGS, REPORT PLANS, ETC.

UNION-PUBLIC SERVICE NM-DOE COOPERATIVE AGREEMENT  
GEO THERMAL DEMO POWER PLANT- BACA  
TECHNICAL EXTRACT - 34 p.                      2 COPIES

PLANS AND DECISIONS/PROJECT TASKS - NO DATE, ≈ JUNE 1981

BACA FILES

PROPOSALS

Systems, Science and Software, June 1981, Unsolicited Proposal for Independent Analysis of Baca Reservoir Data, prepared for LBL, vol. 1 - Technical SSS-P-81-8310252.

Webster Services, Inc., May 1979, Proposal to Provide Data Gathering, Reduction, Evaluation and Reporting Services for the Geothermal Demonstration Power Plant Project. Submitted to Public Service Co., NM-Union. w/Comments by Many LBL staff.

BACA FILES

REPORTS OF OPERATIONS

AUTHOR, ORGANIZATION: JDMaddox TO: Public Service Co., N.M.

DEC 1980  
JAN 1981  
FEB 1981  
MAR 1981  
APR 1981

BACA FILES

REPORTS OF OPERATIONS

AUTHOR, ORGANIZATION: Engbretson TO: Wilbur

MAY 1981

JUNE 1981

JULY 1981

AUG. 1981

SEPT 1981

OCT 1981

NOV 1981

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