

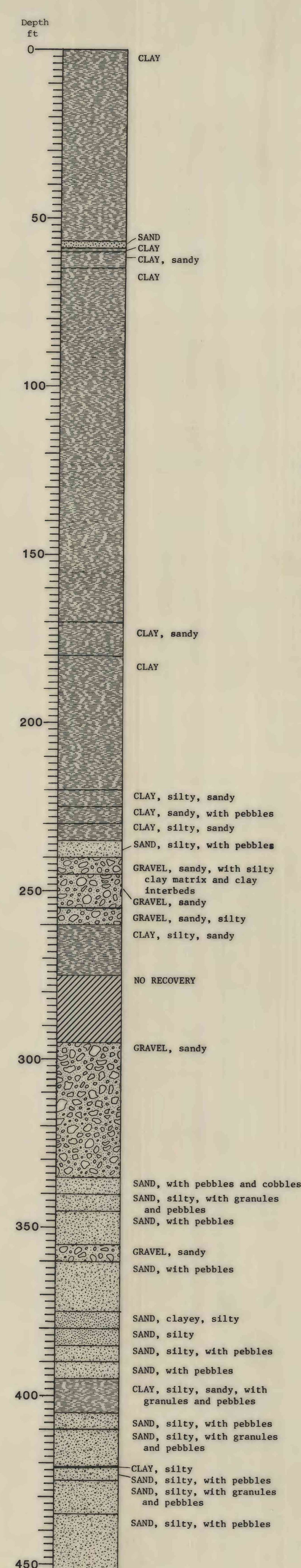
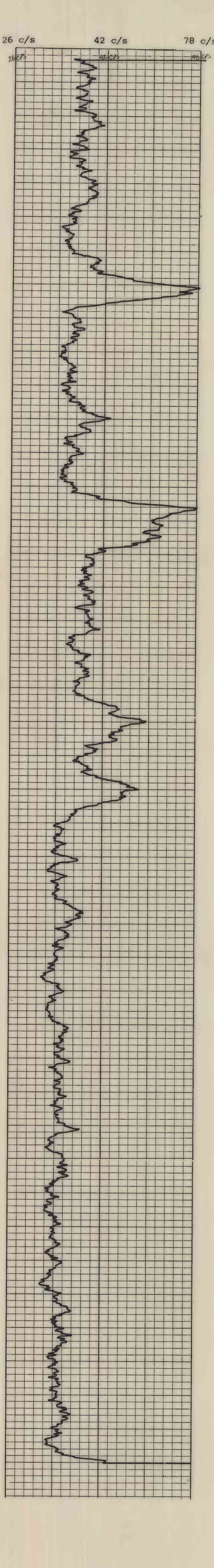
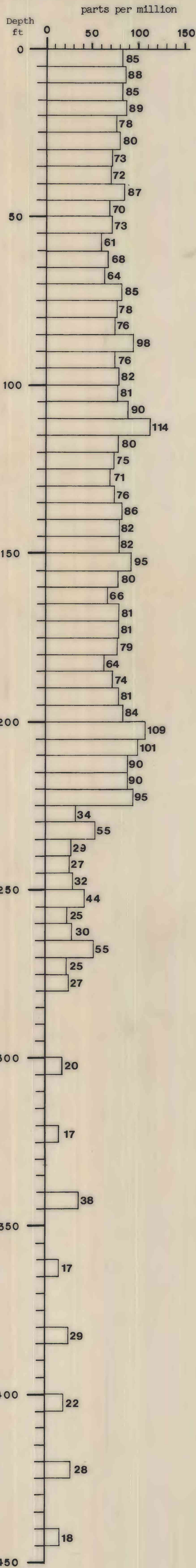
LITHIUM LOG
(J. D. Vine, 1978, written commun.)

GAMMA - RAY LOG
[c/s]

COLUMNAR SECTION

LITHOLOGIC LOG

INTRODUCTION



Depth (feet)	DESCRIPTION
0-5	Clay, variegated, pale-olive (10Y 6/2 dry) and moderate-yellowish-brown (10YR 5/4 dry), calcareous
5-8	Clay, moderate-yellowish-brown (10YR 5/4), calcareous
8-15	Clay, light-olive-gray (5Y 5/2), calcareous
15-20	Clay, variegated, pale-olive (10Y 6/2) and moderate-yellowish-brown (10YR 5/4), calcareous
20-25	Clay, pale-olive (10Y 6/2), calcareous
25-30	Clay, variegated, pale-olive (10Y 6/2) and moderate-yellowish-brown (10YR 5/4), calcareous
30-37	Clay, pale-olive (10Y 6/2), calcareous
37-42	Clay, light-olive-gray (5Y 5/2), calcareous
42-45	Clay, dusky-yellow (5Y 6/4), calcareous
45-55	Clay, moderate-yellowish-brown (10YR 5/4), calcareous
55-57	Clay, pale-olive (10Y 6/2), calcareous
57-59	Sand, pale-olive (10Y 6/2), fine
59-60	Clay, pale-olive (10Y 6/2), calcareous
60-65	Clay, sandy, dusky-yellow (5Y 6/4), calcareous. Unit contains 5 percent subangular very fine quartz and feldspar sand
65-70	Clay, medium-bluish-gray (5B 5/1), calcareous
70-74	Clay, variegated, dusky-yellow-green (5GY 5/2) and grayish-black (N 2), calcareous. Unit is 95 percent dusky-yellow-green (5GY 5/2) and 5 percent grayish-black (N 2). Grayish-black (N 2) clay contains an organic odor
74-81	Clay, variegated, moderate-yellowish-brown (10YR 5/4) and light-olive-gray (5Y 5/2), calcareous
81-84	Clay, pale-olive (10Y 6/2), calcareous
84-90	Clay, yellowish-gray (5Y 7/2), calcareous
90-102	Clay, moderate-yellowish-brown (10YR 5/4), calcareous
102-105	Clay, grayish-olive (10Y 4/2), calcareous
105-110	Clay, dark-greenish-gray (5G 4/1), calcareous
110-115	Clay, pale-olive (10Y 6/2), calcareous
115-120	Clay, light-olive-gray (5Y 5/2), calcareous
120-130	Clay, dark-yellowish-brown (10YR 4/2), calcareous
130-141	Clay, medium-bluish-gray (5B 5/1), calcareous
141-146	Clay, variegated, pale-olive (10Y 6/2) and dark-gray (N 4), calcareous. Dark-gray clay contains an organic odor
146-149	Clay, variegated, dark-greenish-gray (5G 4/1), and dark-yellowish-brown (10YR 4/2), calcareous
149-155	Clay, moderate-yellowish-brown (10YR 5/4), calcareous
155-165	Clay, variegated, pale-olive (10Y 6/2) and moderate-yellowish-brown (10YR 5/4), calcareous
165-170	Clay, moderate-yellowish-brown (10YR 5/4), calcareous
170-180	Clay, sandy, moderate-yellowish-brown (10YR 5/4), calcareous. Unit contains about 10 percent subangular medium quartz and feldspar sand
180-191	Clay, pale-olive (10Y 6/2), calcareous
191-195	Clay, dark-greenish-gray (5G 4/1), calcareous
195-205	Clay, medium-bluish-gray (5B 5/1), calcareous
205-210	Clay, greenish-gray (5G 6/1), calcareous
210-215	Clay, grayish-olive (10Y 4/2), calcareous
215-220	Clay, dark-greenish-gray (5G 4/1), calcareous
220-225	Clay, silty, sandy, dark-greenish-gray (5G 4/1), calcareous. Unit contains about 5 percent silt and 25 percent subangular medium quartz and feldspar sand
225-230	Clay, sandy, moderate-yellowish-brown (10YR 5/4), calcareous. Unit contains 20 percent subangular fine to medium quartz and feldspar sand and rare (about 1 percent) pebbles 5-10 mm maximum dimension
230-235	Clay, silty, sandy, light-olive-gray (5Y 5/2), calcareous. Unit contains about 5 percent silt and 25 percent subangular medium quartz and feldspar sand
235-240	Sand, pebbly, in a light-olive-gray (5Y 5/2) calcareous silt matrix. Sand is very fine to very coarse subangular quartz and pebbles ranging from 2 to 10 mm maximum dimension. Unit is composed of about 80 percent sand, 5 percent granules, 5 percent granitic pebbles, and 10 percent silt matrix
240-245	Gravel, sandy, in a moderate-yellowish-brown (10YR 5/4) silty clay matrix. Gravel is composed of angular to subangular granules and pebbles from a granitic source ranging from 2 to 60 mm maximum dimension. Sample contains 15 percent silt and 10 percent subangular quartz and feldspar sand ranging from very fine to very coarse. Unit also contains thin (<1 in. thickness) of pale-olive (10Y 6/2) calcareous clay (about 1-2 percent of total interval)

CONVERSION FACTORS

Multiply English unit	By	To obtain metric units
Inches (in.)	2.540	Centimeters (cm)
Feet (ft)	0.305	Meters (m)

Chemical analyses of ground water from test well CO-1, Coyote Dry Lake, California
[Analyses by U.S. Geological Survey, Denver, Colo.]

Test well-sample No.	Date sample collected	Sample depth (ft)	Specific conductance (microhm/cm at 25 °C)	pH	Temperature, water (°C)	mg/l														µg/l								
						Specific gravity	Hardness, total	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃) ^a	Alkalinity, total (CaCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Iodide (I)	Silica (SiO ₂)	Solids, residue on evaporation at 180°C	Nitrate plus nitrite (N)	Phosphorus (P)	Boron (B)	Iron (Fe)	Lithium (Li)	Manganese (Mn)	Strontium (Sr)	Uranium (U)	
CO-1-1	6/21/78	235	7,165	8.4	8.3	24.3	1.002	54	15	3.8	1,600	4.7	390	320	530	1,900	14	0.38	43	4,140	0.05	0.03	10,000	70	30	30	600	18
CO-1-2	6/21/78	455	7,207	7.9	7.9	25.6	1.010	330	100	19	1,500	7.4	183	150	790	1,800	7.1	.31	29	4,480	.07	.00	11,000	20	100	600	2,300	23

^a Calculated.

This report has not been edited for conformity with U.S. Geological Survey editorial standards

GEOPHYSICAL, LITHOLOGIC, AND WATER-QUALITY DATA FROM TEST WELL CO-1, COYOTE DRY LAKE, SAN BERNARDINO COUNTY, CALIFORNIA

By

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