EXPLORF. SMITH CORP.
GEOTHERMAL DATA LOG

COMPANY 380 Operator Corp.
WELL Powell State #31
FIELD The Geysers
COUNTY Sonoma STATE California
LOCATION Sec. 5, T. 10N., R. 7E.
ELEVATION 2124' GL +13' = 2137' DF
CONTRACTOR/RIG Cortland 204
SPUD DATE 2/20/77 TD DATE 2/25/77
WELL CLASS Wildcat TYPE VERT. DEPTH 2200'
BOTTOM HOLE LOCATION —
WELL STATUS Abandoned hole and kicked off
COMPANY REPRESENTATIVE L. Powell/J. Hunter

LOG INTERVAL
DATE LOGGED 2/24/77 to 2/25/77
DEPTH LOGGED 1847 to 2212'
MUD DRILLED 1847 to 2212'
BIT DRILLED —
DRILLING EQUIPMENT TYPE Triple Conventional
PRESSURE - ENVIRONMENT TYPE —
GEO TEMP RECORDED 212°C on 2
LOG SCALE 1:240 UNIT NO. 112
LOG ENGINEER(S) R. Rothenberg, L. Cooper

DRILL RATE MIN/FT MIN/5 FT

DRILLING RETURNS: CUTTINGS

SECONDARY RETURNS: CUTTINGS

HOLE SIZE
13 3/4" to 1847' 17 1/2" to 1847'
12 1/4" to 2212'
" to "
" to "
" to "

CASING RECORD
13 3/8" @ 1847'
" @ "
" @ "
" @ "

DATUM(S)/DATUM STEAM

LOST CIRCULATION ZONES
Slight returns throughout

MISC. REMARKS

TEMPERATURE °C °F °C
PRESSURE KPA PSI
CHLORIDE ppm
H2S ppm
CO2 ppm
ALKALINITY ppm
PH
FLOWRATE gpm

LITHOLOGY SYMBOLS

Clay	Shale	Sand and Gravel	Andesite
Volcanic Breccia	Sandstone	Conglomerate	Basalt
Tuff	Limestone	Chert	Rhyolite
Obsidian	Dolomite	Marl	Diorite
Pumice	Diatomite	Coal	Granite
Volcanic Sand	Gypsum	Fossils	Granodiorite
Lava Flow	Anhydrite	Pyrite	Quartz Monzonite
Intrusive	Salt	Quartz	Metamorphic
Core Sample		Calcite	

SECONDARY MINERALS
1 = Calcite 4 = Chlorite 7 = Pyrite/Marcasite
2 = Quartz 5 = Epidote 8 = Clay
3 = Adularia 6 = Wairakite 9 = Sulfur

ALTERATION
W = Weak
M = Moderate
S = Strong
Fracture
Vug
Vein
Fault
Bedding
Contact
Lost Circulation
Core Taken

LITHOLOGY DESCRIPTION

ANY REMARKS

Footer: Petrol Data Systems — LITHOLOGY — DRILLING RATE — TEMPERATURE — GAS/OIL/WATER — page 1