

SUMMARY REPORT
POWER RANCHES WELL NO. 2

5-13-73 Spudded 17" hole at 2 P.M.

5-15-73 Ran 4 Jts. 20" 91# csg. set @ 197 K.B.
Cemented w/ 350 sks. Reg cement w/2%
Caclium Chloride-Cement circ.

5-22-73 13 3/8" 61 & 72# K-55 csg. set @ 2704
Cemented w/1700 sks reg. 30% silica flour-
Cement circ.

6-02-73 Ran 9 5/8 47# N-80 Csg. liner - bottom of
liner 5400' top of liner 2537', Cemented
w/813 sks reg. cement, 30% silica flour,
3/10 of 1% D-13 retarder

6-03-73 Tested liner - No Cement Job on Top

6-05-73 Squeezed top of liner w/200 sks reg. cement
& 30% silica flour

6-06-73 Tested liner - OK

6-12-73 Ran logs

6-17-73 Core No. 1 7918 - 7890 100% Recovery

8-23-73 T.D. 10,454' Volcanics

8-24- thru
27-73 Running Temp. Surveys
High recorded Temp. 330°

9-05-73 Ran 7" liner - Hanger at 5253
Bottom of liner - 10,229. Bottom
2473 of liner slotted. Cemented w/250 sks
of Glass G + 30% silica flour
5/10 of 1% D-13 retardar
3/4% of D-65 TIC

9-07-73 Tested liner w/1000 PSI-OK

9-09-73 Running Reda Pump set at approximately 4700'

9-20-73 Pulled Pump

9-21 thru
28-73 Running Temp Survey
Maximum temp. 365°

5-10-73 Permit No. 611 has been issued to Geothermal Kinetics Systems Inc., for the drilling of the Power Ranches No. 2, in the SE/NE Sec 1-72S-R6E, Maricopa County. This 6500' geothermal prospect is 1320' north of the No. 1 well.

6-7-73 Geothermal Kinetics Systems, Inc., has started drilling operations on their Power Ranches No. 2. This location, as previously reported, is 1320' north of the original test hole.

7-17-73 Geothermal Kinetics is having considerable mechanical difficulties on their Power Ranches No. 2. They have been fishing for stuck drill pipe and drill collars for over three weeks. At the last report they were attempting to wash over the drill collars. Some difficulty has also been experienced with the Reda Pump in the Power Ranches No. 1. When this well is pumping, the produced water is too cool to flash to steam.

8-73 Geothermal Kinetics Systems are still having trouble on their Power Ranches No. 2. At this time they are attempting to wash-over the remaining four drill collars that are stuck in the hole at approximately 6,300'. The Power Ranches No. 1 has been shut-in for an indefinite period. The operators will check this well for temperature build up.

1-1773 Geothermal Kinetics at long last have successfully completed their fishing job on the Power Ranches No. 2 geothermal test. The total depth is 10,444'. A seven-inch liner has been run to 10,400'. The bottom 3,000' for this liner was slotted. The operators have run a Reda Pump in the well. This pump is set at approximately 4,700'. Pumping was started on Sunday, September 9th. Due to the apparent low volume of fluid in this hole, it was necessary to operate the pump on an intermittent basis. I checked the fluid for temperature and salt content on Monday, September 10th. The temperature was still fairly low and the water appears to be fresh. It is still too early in the testing period to make any definite conclusions.

Oct 7 Geothermal Kinetics, Inc., has suspended operations on their No. 2 Power Ranches geothermal prospect. The operators will continue to run periodic temperature surveys and study and evaluate their findings. The operators are also studying the possibility of drilling another test near Casa Grande.

12-73
Geothermal Kinetics attempted to perform additional tests on their Power Ranches No. 2 Well this past week. The well was prepared to reverse-circulate the water from the well in a semi-closed system and inject hot air into the system. The air injection would have lessened the hydrostatic pressure and presumably resulted in a rise in well fluid temperature, possibly resulting in some flashing of steam. The operators' efforts were not successful. They were unable to obtain the air compressors.