

B.C. Hydro

Meager Creek Geothermal Project

Report on Activities for 1983/84-1984/85

Meager Creek Project staff
Vancouver
July 1985

PETROLEUM RESOURCES BRANCH

ASSESSMENT REPORT

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B.C. Hydro

Meager Creek Project

Report on Activities
1983/84 - 1984/85

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1. EXECUTIVE SUMMARY

1. A fracture dominated geothermal resource with a base temperature of 190-200°C has been identified in the South Reservoir area of the the Meager Creek Project. Geothermal fluids have been intersected in all three deep exploratory wells, although the host rocks are characterized by low overall permeability and porosity.

2. On-going temperature and flow testing on well MC-1 have demonstrated the viability of commercial steam production from the Meager Creek resource. A 20 kW steam turbine was installed to further the scope of the test program and the understanding of the nature of the resource.

3. The results of flow tests on well MC-3 have demonstrated significant production potential from a depth of approximately 3000 m. However, because of the configuration of the well liner, the production zone cannot be effectively isolated and an accurate production assessment is difficult to ascertain.

4. Although the outlook for commercial development of the Meager Creek geothermal resource is optimistic, decreased load forecasts and current economic constraints have put a halt to B.C. Hydro's involvement with the project. As economic

conditions become more favourable, Meager Creek may well prove to be a sound, environmentally acceptable source of electricity.

2. SUMMARY AND CONCLUSIONS

2.1 Summary

The testing and monitoring program conducted during 1983-85 advanced the knowledge base on the Meager Creek geothermal system substantially.

2.1.1 Temperature Measurements

A total of fifteen temperature surveys were conducted on the three deep exploratory wells during 1983-84. In addition to ongoing monitoring of the static wells MC-2 and MC-3, valuable temperature data from the producing well, MC-1 were obtained (Appendix A).

Inaccessible since test production was begun in November, 1982, the three temperature surveys conducted on well MC-1 during 1983 were particularly informative. The temperature profiles indicate that fluid is produced from approximately 1400 m depth, and rises isothermally to about 200 m. At this point, the fluid begins to boil and the apparent temperature drops markedly towards

surface. A possible cool inflow is indicated by a slight downward inflection in the curve at a depth of 150 to 250 m. Temperatures at the bottom of the well remain in the 230 to 235°C range, indicating that testing over the course of the year has not noticeably affected the pre-production thermal regime. Two later surveys in 1984 were obstructed at a depth of approximately 700 m by the liner hanger. The information obtained in the upper portion of the hole indicates a continued warming trend.

Three temperature surveys in well MC-2 (commencing in July, 1983) indicate a minor temperature rise of 3 to 5°C over the long static time since November, 1982. The temperature profile is indicative of conductive cooling over most of the length of the drill hole with minor inflections at 1200 and 2300 m. The well remained dormant through 1984.

As with MC-2, well MC-3 demonstrated a small, long term temperature rise since November, 1982. Nine temperature surveys conducted during late 1983 showed a significant temperature increase at depths below 3000 m, prompting a flow test on the well. Rising temperatures were postulated to be a reflection of increased permeability at the No-Good Zone intersection, and that an airlift from depths below 2500 m would stimulate flow from this previously untested zone. A later temperature

survey in October, 1984 confirmed that the warming trend continues.

2.1.2 Flow Testing and Monitoring

Well MC-1 has been under test production since November, 1982. During 1983-85, the wellhead pressure and discharge rate were measured daily up to October 1984 and discharge fluids were sampled and assayed for standard chemical components regularly (Appendix C).

Pressure and flow rate are regulated by adjustments to the valve system on the wellhead, thereby controlling the depth of the flashpoint within the well bore. An optimal pressure, established over the previous flow record, of 200 to 220 kPa has been maintained whenever possible. This pressure allows a flow rate of approximately 15 to 17 tonnes/hr of geothermal fluid to discharge from the outlet. The discharge comprises approximately 15% steam and 85% low salinity "brine" at a temperature of 96°C.

Periodically, the well bore becomes plugged with carbonate-silica scale precipitated from the geothermal fluid. Although pressure maintenance at the wellhead has proven to be the most effective scale control procedure, mechanical scale removal

has been required on a number of occasions. Well pressure records show periods where the well has been choked by excessive precipitation of carbonate scale, and pressure and flow rates cannot be maintained. At these times, the well bore has been cleared by a specially designed scale hammer. The hammer is dropped onto the scale blockage, chipping away the soft accretion and allowing improved flow. The most effective tool for scale removal, however, appears to be a small drilling rig. A B.C. Hydro diamond drill Boyles 56A complete with BOP was employed to ream out the wellbore following the May, 1984 blockage. Since that time, well performance has been improved substantially, and scale accumulation has been minimal.

MC-3

Interest in a possible producing zone in MC-3 was spurred by a 5 to 8°C temperature increase throughout the well. Particular consideration was given to the No-Good Zone, a structure of known permeability at a depth of 3025 m.

A flow test entailing an airlift through endless tubing to a depth of 2500 m was conducted in early November, 1983. The airlift successfully stimulated flow from the No-Good Zone, producing wellhead pressures approaching 800 kPa although spontaneous discharge was maintained only for a period of approximately 20 min. Under the low

pressure conditions imposed by the airlift, cool (160°C) near surface waters were flowing into the bore faster than the discharge rate of fluids from the No-Good Zone. As such, the downflowing waters soon quenched the flow from the No-Good Zone, suppressing the high pressure discharge from depth. If however, the No-Good Zone can be effectively isolated from the near surface waters, well MC-3 may be a significant geothermal producer.

2.3 Conclusions

Based on testing and monitoring to date, there appears to be good potential for geothermal development of the Meager Creek site. Recent studies including temperature testing, geochemical analysis and test production strengthen earlier conclusions that a fracture dominated geothermal resource with a base temperature of approximately 200°C is present at Meager Creek.

Two primary targets were identified during exploration phases of the work at Meager Creek. These are the Meager Creek Fault Zone and the No-Good Zone, both situated beneath the present deep wellsite. Observations made during the testing and monitoring program conducted in 1983-85 have served to confirm these fault related structures as representing the best production potential to date.

The installation of a small, 20 kW steam turbine on producing well MC-1 has further demonstrated the potential for development of the geothermal resource for power generation. The production fluids appear to be relatively free of toxic elements, and calcium and silica contents are within acceptable limits. No extraordinary treatment of the geothermal production fluid should be necessary.

However, because of the current economic outlook and diminishing load requirements, it does not appear to be in B.C. Hydro's best interests to develop the Meager Creek geothermal potential at this time.

3. INTRODUCTION

3.1 Location and Access

The Meager Creek Project area is located approximately 200 km north of Vancouver in the rugged Coast Mountains of southwest B.C. (Figure 1). A good, gravel-surfaced logging road follows the Lillooet River valley for 50 km to the Meager area from the end of the paved highway at Pemberton Meadows. Flooding in early October, 1984 damaged several river and creek crossings although repairs are to be completed by Spring, 1985.

3.2 Previous Work

Geothermal investigations at Meager Creek have been in progress since late 1973. B.C. Hydro became involved in 1974 with a small-scale diamond drilling project designed to evaluate the thermal characteristics of the Meager Creek Hotsprings and the surrounding area (Figure 2). Subsequent investigations identified and localized a potential resource area on the lower flanks of Pylon Peak, some 5 km upstream from the main vent of the Meager springs (B.C. Hydro, 1982).

Exploration culminated with the drilling of three, large diameter rotary holes during 1980 to 1982. Reaching depths of 3000-3500 m, the holes were

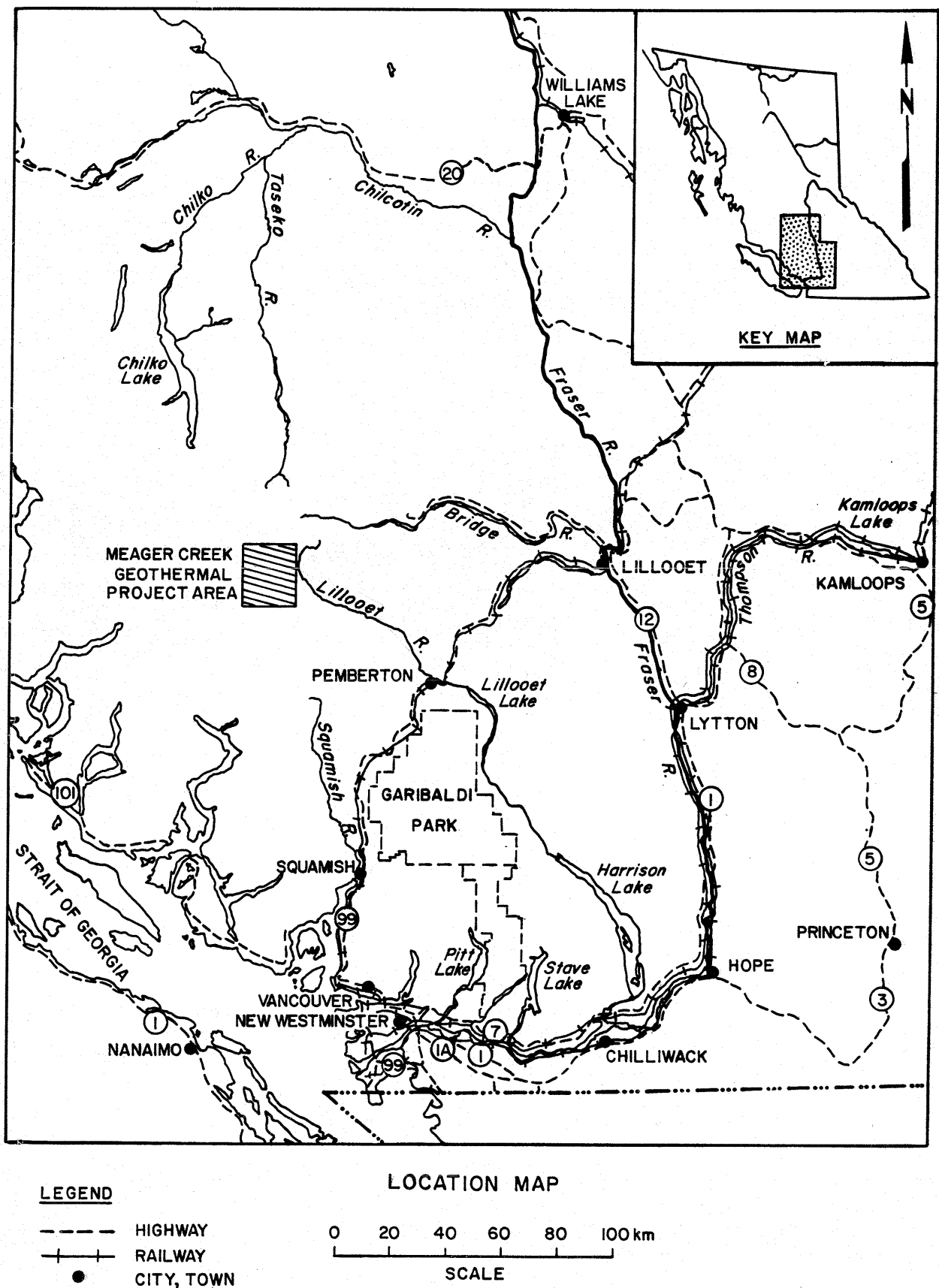
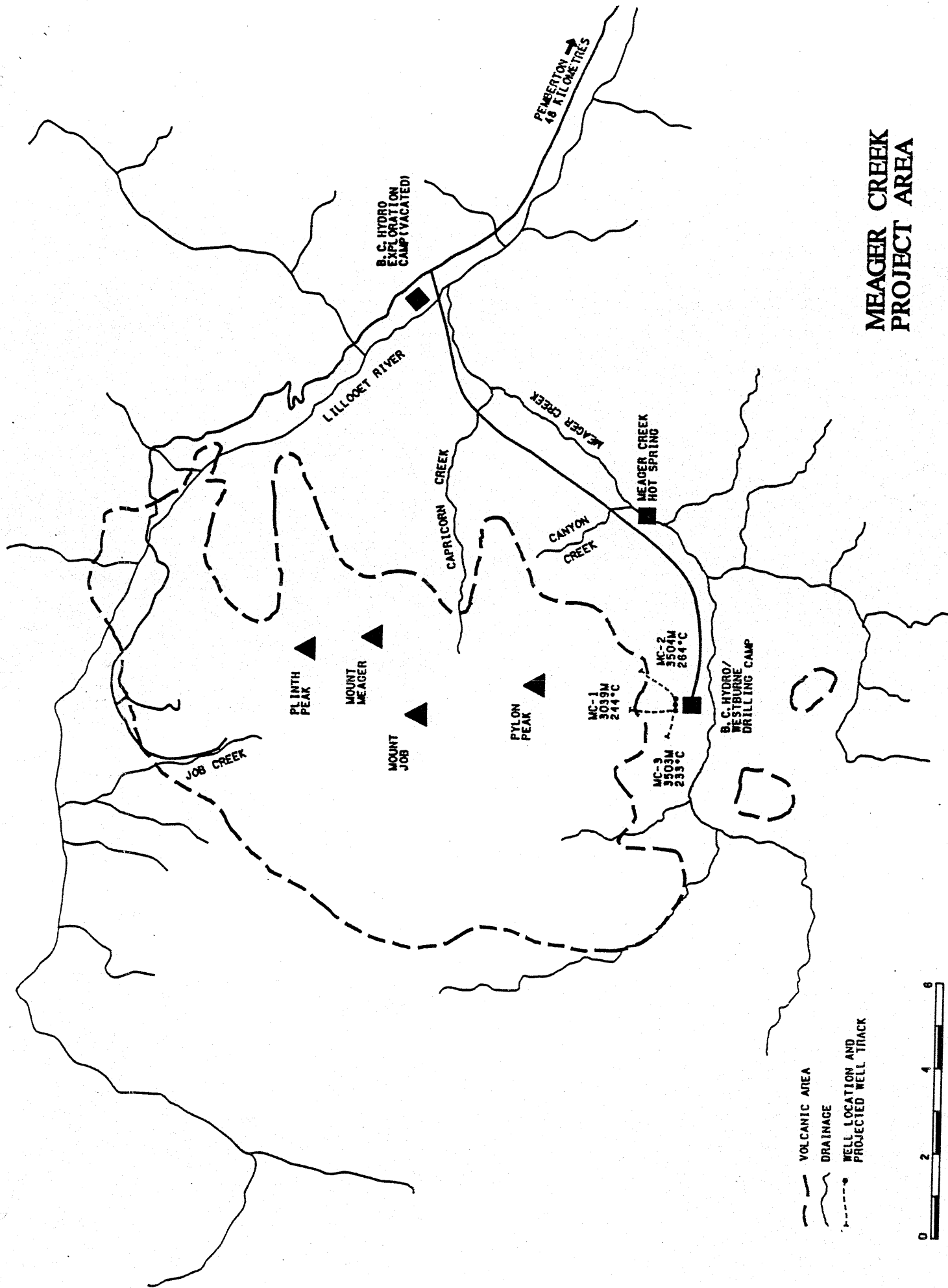


FIGURE 1

MEAGER CREEK PROJECT AREA

FIGURE 2



drilled to assess various targets identified in earlier studies. The program resulted in one well, MC-1 capable of long-term, sustained steam production. The two other wells, although unable to produce steam spontaneously in their present state, have been invaluable in the development of interpretive models for the geothermal reservoir.

3.3 Work Done in 1983/84 - 1984/85

Due to the poor economic climate and low electrical load forecasts, the geothermal drilling program was suspended in August, 1982. Since that time, activity at the Meager Creek Project has been restricted to testing and monitoring of the three deep exploratory wells.

MC-1, the first deep exploratory well has been in test production since November, 1982. Thermal fluid was discharged to a silencer/separator unit where wellhead pressure was recorded continuously with a clock-driven pressure gauge recorder and flow rate was measured and recorded daily up to October 84. In addition, periodic temperature surveys and chemical sampling are conducted to monitor changes in the thermal regime.

During the course of production, the MC-1 well bore became obstructed by a substantial carbonate scale

deposit. However, the blockage was successfully removed by mechanical means and further scale deposition has been inhibited by maintaining constant pressure at the wellhead.

MC-2 and MC-3 remained dormant for most of the 1983-85 period. Standing water levels in the wells were recorded regularly and periodic temperature surveys were run.

Increased temperatures and indications of improved crossflow at depth in well MC-3 prompted a flow test in early November, 1983. Continual airlifting for a period of 20 hr resulted in a series of discharges achieving peak pressures of 850 kPa. Because of the casing and liner configuration within the bore, however, a cooler surface water downflow quenched the flow approximately 20 min after the airlift was ceased.

In addition to the temperature monitoring, a small steam turbine was installed and tested on producing well MC-1. The turbine originally tested as a 80 kW binary unit in Imperial Valley, California, was rebuilt and redesigned as a 20 kW axial flow steam turbine. The 20 kW_e demonstration turbine was loaned to B.C. Hydro by the Electric Power Research Institute (EPRI) who monitored the collection and interpretation of test data. The unit performed well in a series of 25 tests conducted during the

summer 1984 and the results have provided a valuable insight into both the turbine design and the Meager Creek geothermal reservoir characteristics.

A study of the geochemistry of the Meager Creek geothermal field conducted by Dr J. Moore of the Earth Science Laboratory of the University of Utah Research Institute was completed in the summer of 1983. The results were reported in a paper presented to the Geothermal Resources Council 1983 Annual Meeting in Portland, Oregon. ~~A copy of this paper has been included in this report (Appendix D).~~ The geochemical evidence suggests that the fluids encountered in the deep wells have migrated from a hotter geothermal reservoir which has yet to be discovered.

Dr. Moore's studies continued in 1984 and these additional results were published in the paper, "Geologic and Geochemical Investigations of the Meager Creek Geothermal system, British Columbia, Canada" in January 1985. His analysis of the alteration mineralogy of drill core samples identifies at least two distinct periods of hydrothermal activity. Temperatures for the second period (that associated with the geothermal activity in the Meager Creek geothermal system) may be 50 to 150°C higher than those observed at present. He notes that extensive carbonate

precipitation which has sealed fractures in the upper portion of the reservoir may account for this temperature decline.

Dr. Moore is planning to continue his studies in 1985, detailing the origin and history of the thermal fluids at Meager Creek.

Another study, performed by Dr. M.M. Ghomshei, concentrated on the compilation and interpretation of geochemical data from water samples collected during earlier exploration stages at Meager Creek. The findings of the study tend to concur with Moore's conclusions that thermal waters encountered thusfar have probably been derived from a hotter geothermal reservoir nearby.

The Meager Creek wellsite was scheduled for abandonment by November, 1984 however, flooding in October stranded much of the equipment on site. The early onset of winter precluded further demobilization and all remaining equipment was winterized and was stored at the wellsite until road access was restored in May, 1985. The site was vacated by mid-November, although the dormant camp was visited regularly to guard against vandalism and snow damage. B.C. Hydro anticipates to vacate the site by October 1985.

4. RESULTS AND EVALUATION

4.1 Well MC-1

MC-1, the first deep exploratory well drilled at Meager Creek, was spudded in mid-July 1981 and completed four months later. The well intercepted geothermal water ascending along the Meager Creek Fault at a depth of 1600 to 1800 m and is capable of sustaining continual discharge of 195°C fluids from this zone.

Ongoing monitoring of production from well MC-1 was augmented by numerous other activities during 1983-85. Temperature surveys were run and the chemistry of the discharged fluid was monitored in order to become better acquainted with the geothermal reservoir characteristics.

By the spring of 1984, a small steam turbine had been installed on MC-1. The test program which saw Canada's first geothermal power production was conducted through the summer, 1984. Acquired test data are included in appendices of this report.

3.1.1 Pressure and Flow Measurements

Well MC-1 was undergoing production testing since early November, 1982. The tests were conducted in order to determine the viability of long term production from the thermal reservoir. Continuous

production was to help ascertain the chemical signature and any chemical changes of the thermal water, the nature of the fracture system at depth and the long term effects of production on reservoir characteristics. The tests were also to indicate the severity of corrosion on surface equipment by the saline thermal waters.

Wellhead pressures were monitored continuously with a clock driven pressure gauge recorder mounted on a side-valve of the wellhead assembly. The chart was changed daily at which time the flow rate from the well was recorded. Flow was measured by means of a V-notch cut into the weir box of the separator/silencer unit. The total discharge from the well was estimated by adding 15% (to account for the steam fraction which escapes from the top of the separator/silencer) to the total liquid flow as calculated from the V-notch reading. The flow rate was recorded daily.

To inhibit scale deposition within the well bore, the master valve was kept slightly choked and the wellhead pressure was maintained at the highest level possible while allowing continuous flow. The geothermal fluid, saturated in carbonate and silica minerals, will deposit scale whenever high pressure or temperature conditions subside. When the fluid reaches its flashpoint, the pressure and

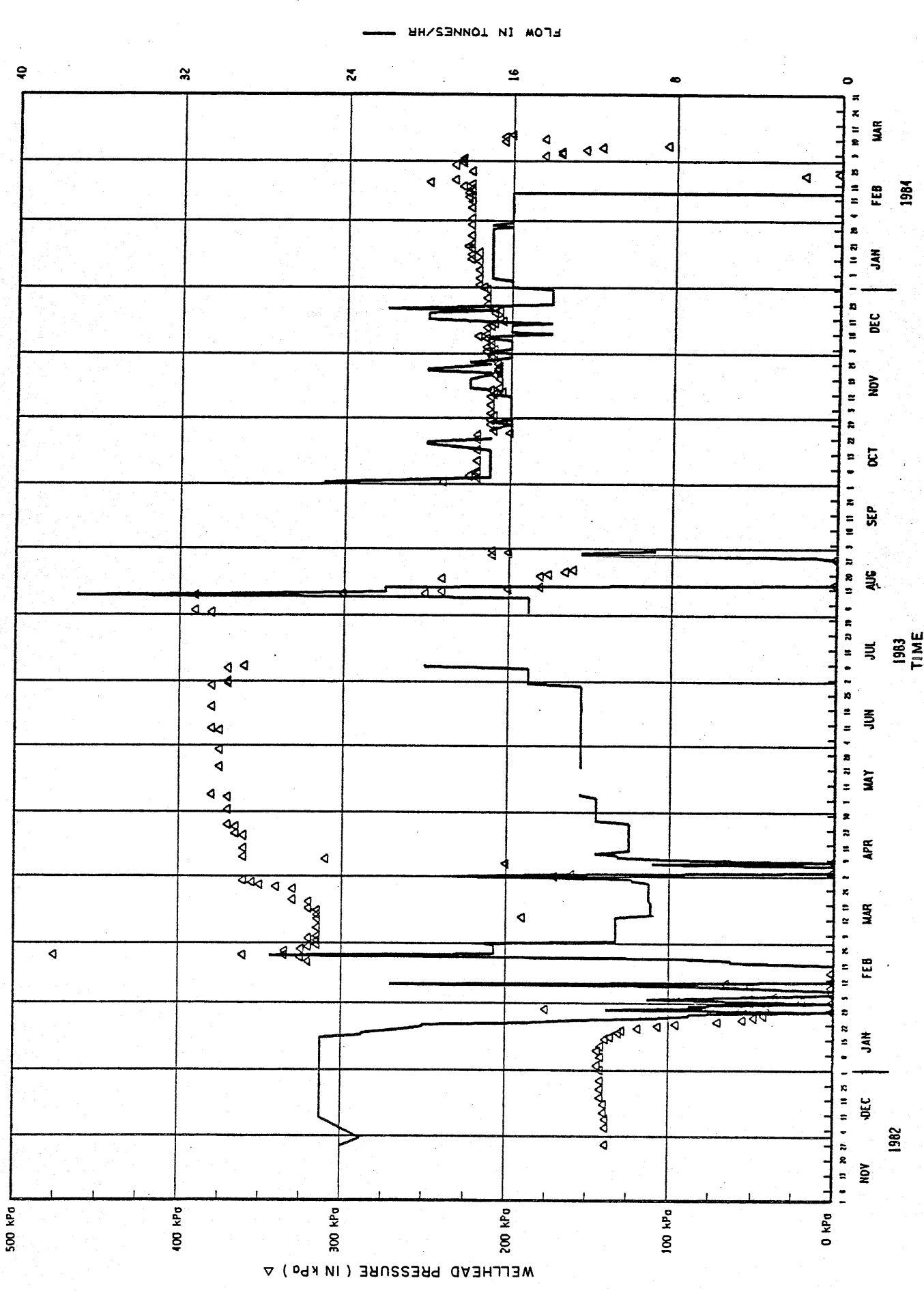
temperature drop drastically, and scale deposition occurs. By choking the master valve, the flash point could be manipulated to occur either at the outlet or within the wellhead, where scale can more easily be removed.

During test production, wellhead pressures were maintained at 200-220 kPa which resulted in an average flowrate of approximately 17 tonnes/hr (Figure 3). This is equivalent to approximately 4500 kW_t , or 700 kW_e .

Well Blockage

Figure 3 shows three periods where production was interrupted (January, 1983; September, 1983 and May, 1984). The January stoppage resulted from the deposition of a hard siliceous-carbonate scale in the wellbore at a depth of approximately 200 m. Precipitation of the scale occurred under lowered pressure conditions caused by conducting the production test at full discharge.

The blockage was temporarily removed by surging the well pressure. When flow was re-established, the discharge contained pebble-sized chunks of the scale as well as numerous fragments of torn rubber. Larger pieces of the carbonate scale contained in the discharge displayed a concentric pattern of radiating calcite/aragonite crystals up to 1 cm in



MC-1 TEST PRODUCTION
PRESSURE-FLOW PROFILE

FIGURE 3

length. This configuration suggests an episodic deposition sequence rather than continual precipitation which might be anticipated from an established production test.

The rubber is believed to have been torn from the "centralizers" (the annular spacer placed between the drill string and the casing which is designed to minimize string vibration during drilling). Over several months of exposure to elevated temperatures and pressures, the rubber compounds became embrittled and the centralizers disintegrated. The rubber may have been a key component in formation of the blockage.

The blockage re-formed and again choked off flow from the well in mid-August. Various options for scale removal including acidization and carbon dioxide injection were considered. However, because of economic considerations, mechanical methods were eventually employed. The blockage was removed by hammering on the constriction with a specially prepared steel rod attached to a 1 cm diameter cable from the drill rig. The rod was drawn to the top of the wellhead with the "sandline" winch and was released, running freely into the hole and pulverizing the scale deposit. Although chemical treatment is available for scale control, the mechanical method proved simpler and more cost efficient given the localized scaling

problems in MC-1.

Decreased fluid production, again caused by scale deposition, began to interfere with turbine testing in May, 1984 and a diamond drill was used to ream the casing out with a six-inch reaming shell. A B.C. Hydro Force Construction Boyles 56A drill rig equipped with a bag-type blowout preventer was set up on log cribbing and specially designed elevated platform over the MC-1 wellhead. Using NQ rods and a reaming shell, the hole was cleared to a depth of 600 m. The operation was complete in approximately six days.

Well performance was significantly improved with this cleaning process showing approximately 15% higher pressures and 10% better flow over previous "clean bore" conditions. In addition, the recurrence of the scale deposition appears to be prolonged as the well showed no signs of production decrease until the completion of the monitoring program. The diamond drill rig remained on site should another clean-up operation be warranted.

4.1.2 Temperature Measurements

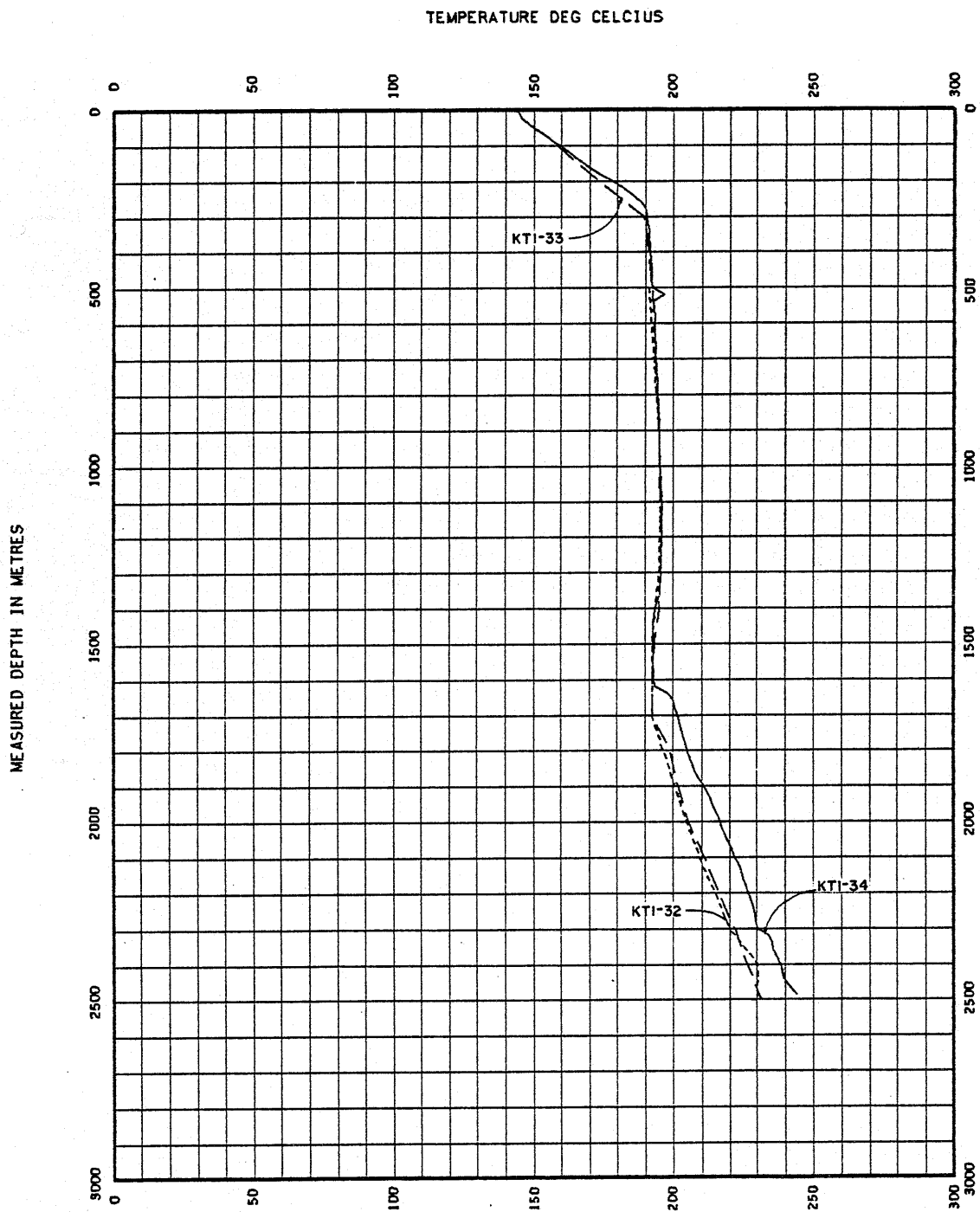
The MC-1 well was inaccessible since November, 1982, and the removal of the blockage in MC-1 again allowed data collection from the producing well to a depth of 2500 m. A total of three temperature

surveys (KT1-32 to KT1-34) were conducted. A final survey, KT1-35, was performed following the May, 1984 well bore clean-up and encountered an obstruction at a depth of approximately 700 m. The blockage is attributed to possible problems with the liner hanger at this depth.

Figure 4 shows a compilation of these surveys. The temperature profiles are characterized by a rapid, near surface temperature increase to a depth of about 250 m where the curves become almost isothermal. A slight depression of the temperature between depths of 1000 and 1400 m may indicate a cooler, surface water downflow and invasion of the well bore through the perforated liner.

Below a depth of 1400 m the fluid temperature increases sharply, indicating conductive heating within a static water column. Hot production fluids enter at a depth of 1300 to 1400 m and flow upwards isothermally to a depth of 240 m. Here, the fluid boils, separating into steam and liquid fractions. The two-phase fluid ascends to surface where the temperature drops to the ambient boiling point and releases the gas phase to the atmosphere via the silencer/separator unit.

However, because MC-1 has penetrated an unconfined thermal "aquifer", choking the main valve and increasing the wellhead pressure above a value of



MC-1 TEMPERATURE SURVEYS 1983-84

approximately 250 kPa simply causes the fluid to resume its original ascent path along the Meager Creek Fault.

Temperatures in MC-1 have been fairly constant although a slight warming trend has been noted. However, because no temperature data is available for the well between December, 1982 and September, 1983 it is unreasonable to compare pre-production temperature surveys with those taken under dynamic (production) conditions. However, comparison between KT1-32 (September, 1983) and KT1-35 (September, 1984) indicate an overall warming of 3 to 8°C/year and a decrease in the depth of the flashpoint to approximately 130 m.

4.1.3 Well Chemistry

In addition to regular discharge sampling of MC-1, an EPRI mobile chemical sampling unit was brought to the site in early August, 1983. The portable lab (designed and operated by Rockwell International scientists on contract to EPRI) contains some of the most advanced and specialized geothermal sampling equipment available. EPRI brought the lab to Meager Creek in order to evaluate various chemical parameters of the

production fluid. In addition to ascertaining the severity of scale problems and corrosive properties of the fluid, the lab performed a variety of other evaluations including waste water and steam fraction toxicity determinations (Appendix B).

The analysis of periodic sampling of the production fluid from well MC-1 was reviewed by Dr. Morteza Ghomshei, working for the Meager Creek Project under a UNESCO post-doctorate fellowship. A paper entitled "Geochemical Evidence of Chemical Equilibria in the South Meager Creek Geothermal System" represents a summary of his findings (~~Appendix C~~). Raw water chemistry data and ionic strength vs. time interpretations are presented in ~~Appendix D~~.

4.2 Well MC-2

The second deep exploratory well, MC-2, was drilled during the winter of 1981-82 and underwent moderate testing the following spring. Although temperatures in excess of 270°C were encountered, and the permeability of the host rock was higher than well MC-1, the flow was insufficient to allow for sustained fluid production at the time of testing. MC-2 intercepted the Meager Creek Fault at approximately 2100 m, however the fluid pressure at

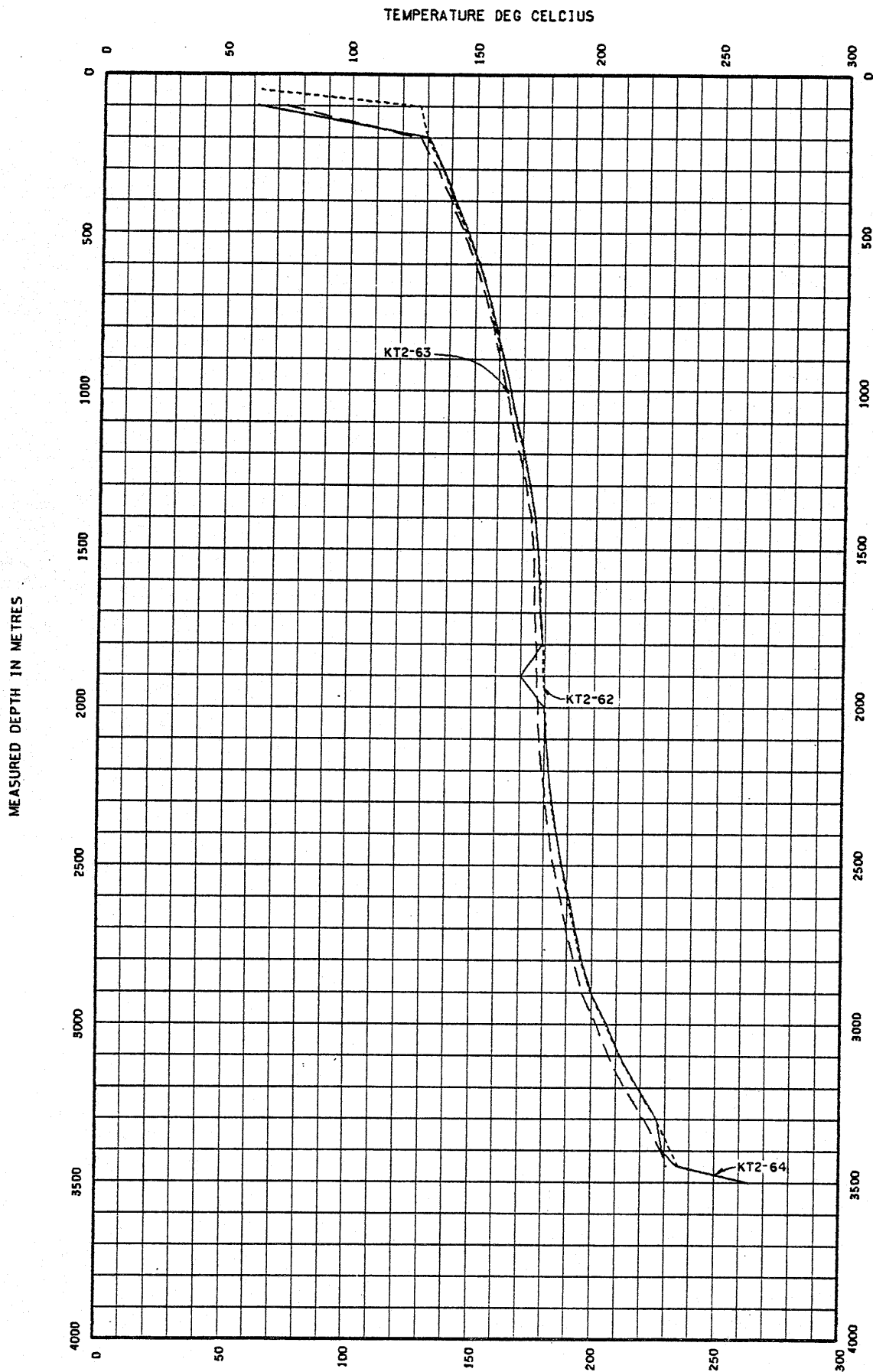
this depth within the zone is less than hydrostatic pressure of the static water column in the wellbore, effectively suppressing the "MC-1 style" production potential.

MC-2 remained largely inactive during the testing and monitoring program of 1983-84. A number of temperature surveys were run on the well during the summer and standing water level was monitored regularly. However, after difficulties in retrieving the temperature probe from the hole during a survey in late August 83, activity on the well has been minimal.

Three surveys were conducted (KT2-62 to KT2-64; Figure 5, 6), and a significant increase in temperature was noted over comparable surveys performed approximately eight months earlier. A general increase of approximately 5°C was noted in the lower portion of the well. Also, the strong increase in the temperature gradient at a depth of 2300 m became more pronounced as the well experienced longer static times. Detailed temperature traverses did not identify any new, or previously undocumented water inflow zones.

Lost Equipment Recovery

A temperature probe was lost downhole during a survey run in late-August. Numerous attempts at



MC-2 TEMPERATURE SURVEYS 1983-84

FIGURE 5

recovering the lost probe were made with the wireline and specially designed fishing tools. However, the tensile strength of the wireline proved inadequate to pull the lost probe and tangled wire nest past the top of the liner hanger. Fishing for the tangle was continued with the "sandline", a 1 cm steel cable and winch assembly which is part of the on-site drill rig equipment. Again, a specially prepared fishing tool was attached and this time the temperature probe was recovered uneventfully. After a month in the hole, the case of the temperature probe had been covered with a fine coating of hard siliceous-carbonate scale and, apart from minor maintenance, the tool itself was fully functional. MC-2 is again clear to a total depth of 3503 m.

4.3 Well MC-3

MC-3 is the third deep exploratory well drilled at Meager Creek. Spudded in June, 1982 and completed in early August, MC-3 showed signs of being the most successful well to date, with good permeability and high temperatures. However, formation damage from drill fluid invasion and the liner configuration have frustrated numerous attempts to prove the well's success.

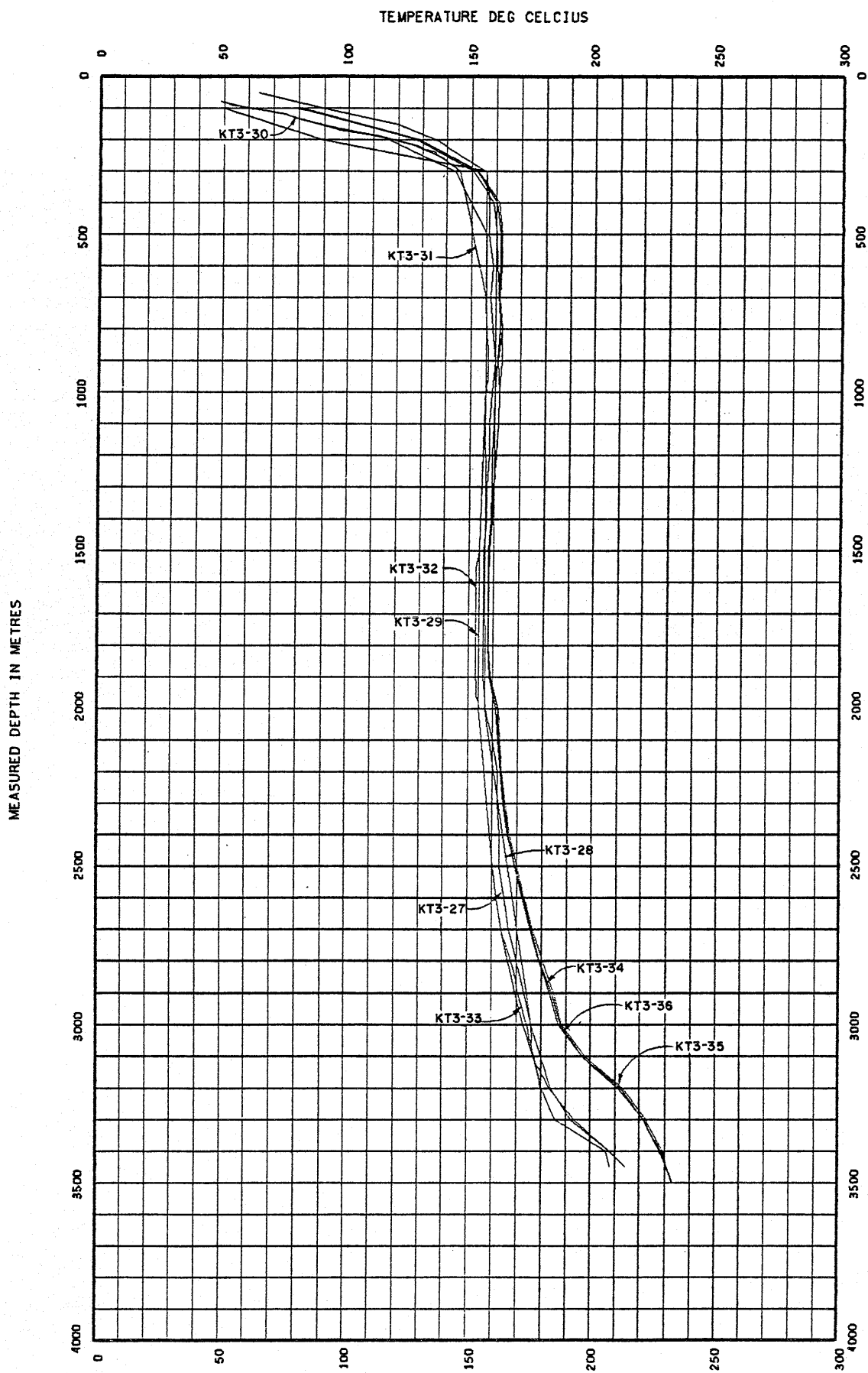
Well MC-3 received considerable attention during

the course of the monitoring and testing program of 1983-84. In addition to ten temperature surveys being conducted, MC-3 was the subject of an airlift and stimulation attempt in early November, 1983. The well, however, remained dormant through 1984 with several temperature surveys being conducted in late September.

4.3.1 Temperature Measurements

Well MC-3 had a series of eleven temperature surveys run from mid-July, 1983 through late-September, 1984. Surveys KT3-27 to KT3-37 (Figure ~~8~~⁶), as with MC-2, indicate a long term warming trend on the order of 3-5°C/a. The shape of the temperature profile remains essentially unchanged, comparing favourably with surveys conducted under similar conditions in late 1982 and indicating that downhole fluid flow conditions have not altered.

A long, static period (November, 1982 to July, 1983) has not affected the temperature profile between the depths of 200 and 2000 m. The isothermal temperature profile between the depths of 200 and 2000 m would indicate that some form of hydraulic communication exists between upper and lower production zones. Cooler, 160°C surface waters appear to be flowing down the well bore to the 2000 m depth.



MC-3 TEMPERATURE SURVEYS 1983-84

FIGURE 6

At the 2000 m depth, the fluid temperature increases slightly, indicating either a warm flow entering the hole and masking the effects of the cooler surface water, or the unsuppressed regional thermal gradient (ie. the water column below 2000 m is static).

At a depth of 3000 m, the temperature again makes a major upwards inflection. The increase in gradient at this point is attributed to a sizable inflow from the "No-Good Zone" encountered at a depth of 3025 m during drilling. At that time, lost circulation material was pumped into the hole to avoid excess fluid loss during drilling. However, the material did not wash out after drilling was ceased and the otherwise permeable zone remains clogged.

Temperature data recently collected near the bottom of the hole (3000 to 3500 m) reflect a significant increase in thermal activity, indicating that the lost circulation material may have been freed and hotter thermal fluids were being introduced to the wellbore.

4.3.2 Flow Testing

The possibility of improved flow of thermal water approaching 230°C from the No-Good Zone prompted a

flow test on well MC-3. The test was conducted in early November, 1983 and achieved significant results.

Test Description

"Airlifting" is a common procedure used to stimulate production from oil and gas, and geothermal wells. Compressed gas is pumped into the hub of a spool of flexible steel ("endless") tubing while the tubing is slowly lowered into the hole. Gas rising through the static water column decreases its effective density and, consequently, the hydrostatic pressure. As a result, the 160°C fluid boils, forcing cooler water up the well bore ahead of the rapidly rising column of steam. In effect, the hole could be "pumped dry" to the depth of the end of the tubing as more of the column is vaporized.

In well MC-3, it was proposed that the endless tubing be run into the hole to the depth of the No-Good Zone. Given a sufficient pressure differential, the remainder of the lost circulation material would be expelled from the Zone, and hot water would be produced spontaneously.

The flow test on MC-3 entailed an airlift procedure at depth within the well bore. Endless tubing was brought to the site by Nowsco Well Services and

high-pressure air compressor pumps were supplied by International Air Drilling Services. This style of test had been attempted on MC-3 in October-November, 1982 although the tubing was not extended to the 2500 m depth at that time.

Observations

The airlift progressed smoothly for approximately 20 h while the tubing was lowered steadily into the hole. Care was taken not to over-pressure the tubing or compressors by slowing the endless tube feed rate while the hole boiled "dry" and the hydrostatic pressure subsided. During this time, hourly observations of wellhead pressure, discharge temperature, and flow characteristics were recorded. In general, a bell approximately 1 m diameter was formed at the outlet of the 6" (15 cm) diameter horizontal discharge pipe. The outlet temperature was consistently 93 to 97°C, near the boiling point under ambient atmospheric pressure.

While at a depth of approximately 2300 m, the pressure suddenly rose, and the discharge increased. Due to the concurrent equipment breakdown the compressors were stopped and the tubing was partially withdrawn. The well discharged a steam bell approximately 3 m in diameter. The flow was sustained for a period of about 20 min and pressures approaching 850 kPa were

recorded on the pressure gauge at the wellhead. When the flow stopped, the tubing was again pressured up and lowered to a depth of 2400 m to iterate the results. . Again, the well started to flow at about 700-800 kPa for 20 min after the air compressors had been shut down. Although, this process was repeated five times, the flow failed to sustain, choking itself off after about 20 min in each instance.

Following completion of the airlift, a temperature survey was attempted. However, the probe could not be lowered past a depth of 900 m. Apparently, the probe was catching on the liner hanger, although later attempts at the temperature survey did manage to pass the 900 m mark, and access the bottom of the hole.

Evaluation

The twenty minute, high pressure surges from MC-3 are an extremely encouraging indication of the producibility of the well. Although considered to have a very low overall permeability, this test has demonstrated that certain zones encountered in the well may be capable of sustained production of high temperature fluids.

When the hole was "dried" to a depth of about 2300 m, fluids in the No-Good Zone had sufficient

pressure to purge any remaining materials which had invaded the Zone. The high pressure discharge at surface was probably a true expression of the potential of the No-Good Zone. However, cooler water (about 160°C) flowing downward outside the slotted liner encountered the hot rising fluids and quenched the flow, thereby effectively reducing any possibility of it rising further to surface.

Calculations based on the observed wellhead pressure of 800 kPa indicate an electric generation potential for the third well to be on the order of up to 8 MW^e. Although no further evaluation of the No-Good Zone is anticipated at present, it does present an attractive target and appears well worthy of future consideration. Various production options might include reconfiguring the liner/casing setup or a downhole pump. In either case, it is essential that the upper, cooler geothermal fluid be isolated from that produced by the No-Good Zone in order to maximize production potential.

4.4 20kW Demonstration Turbine Tests

4.1.3 Preparation, Installation and Testing of a 20 kW Demonstration Turbine

In July, 1983, preparations were begun for the installation of a small turbine on the producing well MC-1. Arrangements were made with the Electric Power Research Institute, Inc. of Palo Alto, California (EPRI) to supply a Rotary Separator Turbine.

Whereas conventional geothermal turbines with exception of binary cycle turbines, require higher temperature dry steam (usually combining the flow from several wells), the RST is a total flow type turbine ideal for the Meager Creek application as it utilizes both the steam and water fractions of the discharge from a smaller, cooler flow. Unfortunately, EPRI became involved in a legal dispute with the RST supplier and the equipment could not be supplied.

However, EPRI were able to provide a small, axial flow demonstration plant developed by Barber-Nichols Engineering of Denver, Colorado. This single flash steam turbine was installed and tested under varied conditions during spring and summer, 1984. The test program was completed in October, 1984, however, before it could be demobilized, flooding stranded the equipment on site. The separator, turbine and generator were winterized and remained at Meager Creek until May, 1985.

Turbine Installation

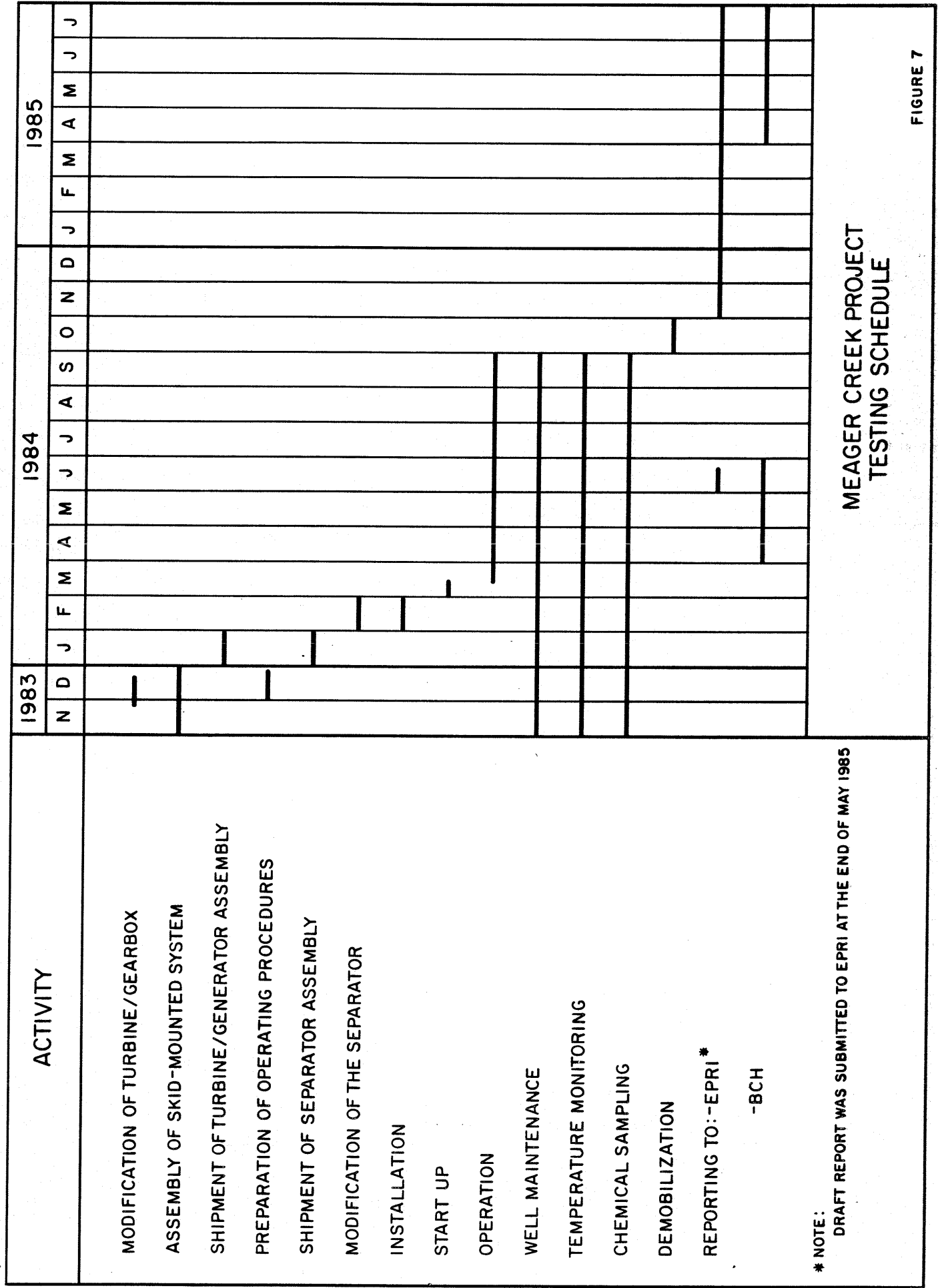
On-site preparations for the steam turbine began in late 1983, with the delivery of the generator, separator, and turbine to Meager Creek in mid-November. Installation proceeded slowly because of logistic difficulties imposed by the approaching winter season.

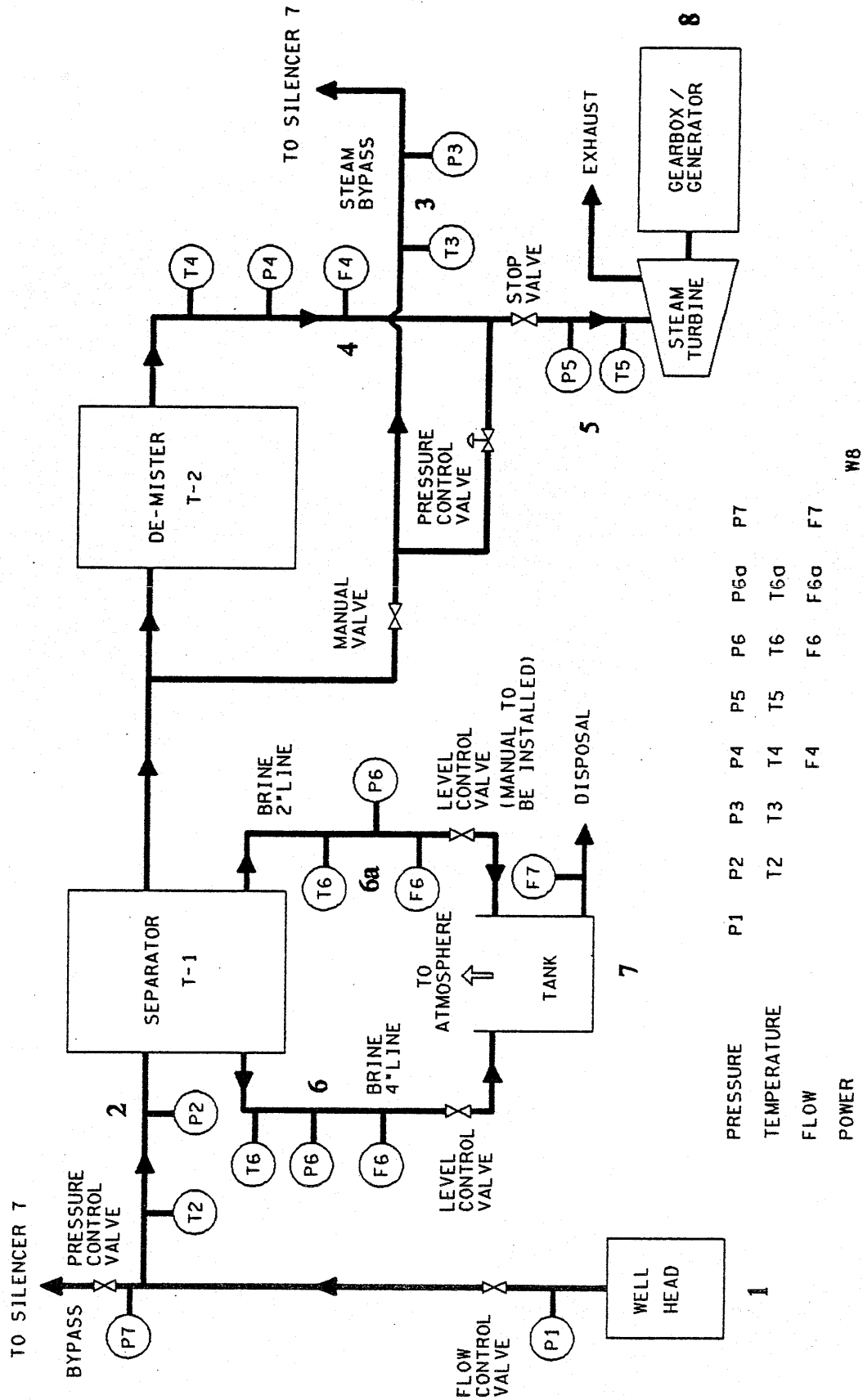
Much of the first three months of installation was consumed by the reconditioning of the separator unit. The equipment supplied had been previously used and arrived at the site in only fair condition. Installation was completed by April, 1984 and the testing program began shortly thereafter (Figure ~~5a~~⁷).

Turbine Testing

In order to provide EPRI with a reasonable working assessment of the steam turbine, a variety of tests were designed in a program which was conducted during summer, 1984. Twenty-four tests ranging in length from one to six hours were run, with observations of temperature, pressure, flow rate and power output being made at a number of points in the separator-turbine test loop (designated, for example, T1, P1, F6a, W8 in Figure ~~5b~~⁸). Data from "Power System Tests" are included (Appendix ⁷) as sample observations. The power was spilled to a

?





MEAGER CREEK PROJECT
SEPARATOR-TURBINE TEST LOOP

load bank.

Although the steam turbine is rated at 20 kWe, the average output of the power tests was approximately 9-30 kWe. In order to achieve a higher electrical output, a larger input line would be required and additional nozzles installed. As set up, the 100 mm (4") input line applied a large enough back pressure at the wellhead to choke the fluid flow from the bore. A bypass line leading directly to the silencer was installed in order to maintain wellhead pressures below a critical upper limit of approximately 350 kPa.

A report to EPRI on the results of the test is under separate cover.

5. DISCUSSION

In furthering the development of a conceptual model for the Meager Creek geothermal system, the work conducted under the maintenance and testing program during 1983 to 1985 has been most informative. The collection of new data and the re-interpretation of existing data have significantly advanced the understanding of the reservoir characteristics.

Naturally, most of the work was concentrated on well MC-1 because of its capabilities as a

geothermal producing well. The well was targeted to intercept a hypothesized permeable volcanic breccia at a depth of 3000 to 3500 m. However, drilling complications stalled MC-1 short of this goal. Although the rock was characterized by low overall permeability, a number of shear zones and dykes associated with the Meager Creek Fault were encountered. The steeply northward dipping normal fault zone is considered to be associated with Meager Volcanic Complex eruptive activity and is a likely conduit for the movement of ascending geothermal fluids.

When first tested in 1981, MC-1 showed little potential, with comparatively low temperatures and permeabilities for a geothermal well. However, with flow testing and stimulation attempts, the well began to discharge a steam and water mixture under considerable pressure at the wellhead. Temperature surveys indicated that most of the fluid was entering the bore from the intersection with the Meager Creek Fault Zone at a depth of 1600 to 1800 m.

Continued production testing through October, 1984 appeared to have significantly improved the flow characteristics of MC-1. Recent surveys indicate that fluid temperatures continue to increase, and it may be inferred from pressure records that "production zone" permeability has increased since

testing began. Although only a proper injection/pressure fall-off test could confirm it, production has probably cleaned up the fault zone and enhanced the permeability substantially.

~~Although MC-1 cannot be considered a viable geothermal production well,~~ it indicates that potential exists for exploitation of a geothermal resource from the Meager Creek Fault structure. The installation and testing of a steam turbine on the well has demonstrated the need for a better understanding of fluid flow characteristics in the Zone and the difficulties in obtaining economic fluid temperatures and pressures. ✓

Testing has also shown that geothermal fluids in the Meager Creek system are heavily saturated with calcium carbonate and that scale control must be considered seriously in any future installation design. The corrosivity of the fluid is comparatively low by geothermal standards and the toxic element content is within workable limits. Furthermore, geochemical analyses indicate that a hotter reservoir may well be present nearby.

Work on the other two deep exploratory wells, MC-2 and -3, has been minimal throughout the maintenance and testing program. However, collection of temperature data from both wells and a flow

stimulation program on MC-3 have helped to clarify several geological and engineering aspects of the Meager Creek geothermal system.

Well MC-2 continues to heat up, showing an increase of 2 to 3°C per year. The cause of this rise is uncertain although it may be attributed to an influx of warmer fluids from the Meager Creek Fault, intercepted at 2000 m in MC-2.

Although it encountered higher temperatures and higher overall permeability than MC-1, MC-2 was incapable of sustained production during testing. This is probably accountable to the depth at which it intercepted the Meager Creek Fault. Fluid temperatures at the intersection are higher than in MC-1, however, because of an additional 300 to 400 m of cooler water in the hydrostatic column opposing production from the fault zone, hot geothermal fluids do not enter the MC-2 bore. Unusual fluctuations in the standing water level of MC-2 also indicate that cool, near surface groundwater may be entering the bore through a hole in the casing. This would help suppress the tendency for rising thermal waters to flash spontaneously.

MC-2 will may not prove to be a successful production or reinjection well if development were to proceed at Meager Creek. However, through the

testing program, it has become increasingly apparent that MC-2 represents a valuable source of data on the geothermal reservoir status.

Perhaps the most significant findings of the maintenance and testing program involved well MC-3. The 3500 m well was drilled westward, intercepting the "No-Good Zone", a near vertical fault structure running perpendicular to the Meager Creek Fault, at a depth of 3025 m. Several geochemical and geophysical surveys conducted in the vicinity had indicated that the No-Good Creek area showed considerable geothermal activity. During drilling, the structure proved sufficiently permeable to cause a total loss of circulation fluid. Although circulation was eventually regained, the permeability of the zone was severely damaged in the process. Subsequent testing determined that, despite economic temperatures at depth, the overall permeability of MC-3 was too low to consider the well a viable geothermal producer.

Attempts to stimulate MC-3 into test production met with limited success. The well bore had also penetrated the Meager Creek Fault, and can produce warm (160°C) water from a depth of approximately 1700 m. However, attempts to produce from the prime target at 3025 m have not been successful until November, 1983.

The airlift conducted at that time was prompted by a slow, long term heating of the well and indications of improved fluid movement at the "No-Good Zone". Hypothetically, the permeability of the fault zone would improve through the thermal degradation of the materials originally used to clog the zone in order to recover circulation.

Although flow could not be sustained, the airlift demonstrated the potential of the "No-Good Zone" as a second geothermal production target in the Meager Creek system. Apart from periodic temperature monitoring, economic considerations have stalled further investigation of the Zone. However, future studies would be well advised to focus exploration efforts on the "No-Good" structure.

Appendix A

Temperature Run Data 1983/84-1984/85

Temperature Run Data

The following is a complete listing of temperature data for surveys conducted on the three deep exploratory wells during 1983-84.

Well: MC-1 Survey Date: 30/09/83
 Survey number: KT-32 Element number: 148

Remarks: Discharging following mechanical cleaning run in early SEPT

Measured Depth (m CHP)	Vertical Depth (m CHP)	Measured Temperature (deg C)
500	495.3	191.3
700	678.6	192.9
900	848.1	194.7
1100	997.0	195.5
1300	1157.6	194.7
1500	1318.2	192.5
1700	1464.2	192.5
1900	1622.1	200.3
2100	1769.5	209.2
2300	1929.4	220.0
2400	1995.3	230.5
2500	2073.0	229.0

Well: MC-1 Survey Date: 14/10/83
 Survey number: KT-33 Element number: 148

Remarks: Discharging during sustained test production

Measured Depth (m CHP)	Vertical Depth (m CHP)	Measured Temperature (deg C)
100	99.9	188.4
200	199.9	173.6
300	299.6	189.4
400	397.0	191.3
500	495.3	192.4
600	598.5	192.9
700	678.6	193.6
800	764.6	194.1
900	848.1	194.7
1000	917.2	194.9
1100	997.0	195.4
1200	1076.5	195.4
1300	1157.6	195.4
1400	1229.9	194.9
1500	1318.2	193.3
1600	1396.3	192.4
1700	1464.2	192.5
1800	1543.5	198.7
1900	1622.1	201.0
2000	1691.4	205.1
2100	1769.5	210.0
2200	1842.2	215.9
2300	1929.4	221.0
2400	1995.3	226.2
2500	2073.0	231.7

Well: MC-1 Survey Date: 28/10/83
 Survey number: KT-34 Element number: 1487

Remarks: Detailed, four part traverse run during test production

Measured Depth (m CHF)	Vertical Depth (m CHF)	Measured Temperature (deg C)	Measured Depth (m CHF)	Vertical Depth (m CHF)	Measured Temperature (deg C)
0000		143.4	1180	1064.7	195.7
10	9.9	144.9	1200	1076.8	195.6
20	19.9	145.4	1220	1098.8	195.6
30	30.0	146.5	1240	1110.8	195.5
40	39.9	148.0	1260	1124.8	195.5
50	49.9	149.8	1280	1137.6	195.5
60	60.0	151.8	1300	1157.6	195.3
70	69.9	153.6	1320	1170.4	195.3
80	79.9	155.4	1340	1183.3	195.2
90	89.8	157.3	1360	1203.3	195.2
100	99.9	159.3	1380	1216.6	194.2
120	120.0	162.7	1400	1229.9	193.4
140	139.9	165.9	1420	1249.9	192.9
160	159.9	169.5	1440	1263.4	192.8
180	179.9	173.2	1460	1276.8	192.8
200	199.9	178.1	1480	1296.8	192.8
220	219.9	182.0	1500	1310.2	192.8
240	239.9	185.6	1520	1323.6	192.8
260	259.8	188.4	1540	1343.6	192.8
280	279.6	189.9	1560	1357.0	192.8
300	299.6	190.4	1580	1370.3	192.9
320	319.2	190.7	1600	1390.3	192.9
340	338.8	191.2	1620	1403.8	193.2
360	358.8	191.3	1640	1417.3	197.9
380	378.3	191.6	1660	1437.3	199.8
400	397.8	191.6	1680	1450.8	200.5
420	417.8	191.8	1700	1464.2	201.2
440	437.2	192.0	1720	1484.2	201.9
460	456.4	192.1	1740	1497.4	202.6
480	476.4	191.8	1760	1510.8	203.3
500	495.3	192.5	1780	1530.8	204.1
520	514.1	196.6	1800	1543.8	204.7
540	534.1	192.0	1820	1556.4	205.5
560	552.8	192.9	1840	1576.4	206.4
580	570.5	193.2	1860	1589.3	207.4
600	590.5	193.2	1880	1602.1	208.8
620	609.3	193.4	1900	1622.1	210.7
640	618.6	193.4	1920	1634.8	211.7
660	638.6	193.6	1940	1647.3	212.9
680	662.3	193.7	1960	1660.3	213.9
700	678.6	193.7	1980	1680.3	215.2
720	698.6	193.8	2000	1691.6	216.1
740	714.4	194.0	2020	1711.6	217.1
760	729.8	194.1	2040	1723.8	218.3
780	749.8	194.1	2060	1737.0	219.4
800	764.6	194.1	2080	1749.5	220.6
820	778.5	194.4	2100	1769.5	221.5
840	798.5	194.5	2120	1782.3	223.3
860	812.0	194.5	2140	1793.2	224.2
880	825.1	194.7	2160	1813.2	224.8
900	845.1	194.7	2180	1829.1	225.7
920	858.1	194.7	2200	1842.2	226.7
940	871.0	194.8	2220	1862.2	227.6
960	891.0	194.9	2240	1876.4	228.4
980	904.0	195.1	2260	1889.4	229.0
1000	917.2	195.2	2280	1909.4	229.4
1020	937.2	195.2	2300	1929.4	230.2
1040	950.3	195.3	2320	1935.4	234.0
1060	963.6	195.3	2340	1949.4	235.2
1080	983.6	195.8	2360	1969.4	235.7
1100	997.0	195.8	2380	1982.5	237.0
1120	1016.7	195.8	2400	1995.3	238.2
1140	1030.7	195.7	2420	2015.3	238.9
1160	1044.7	195.7	2440	2028.9	239.5
			2460	2041.3	241.3
			2480	2053.8	243.4
			2485	2058.8	243.8

Well: MC-2 Survey Date: 28/07/83
Survey number: KT-62 Element number: 148

Remarks: Static 8 months (last activity: airlift, NOV 83)

Measured Depth (m CHF)	Vertical Depth (m CHF)	Measured Temperature (deg C)
50	49.9	62.8
100	99.9	127.2
200	199.9	136.8
300	299.4	136.8
400	394.8	141.2
500	489.6	146.1
600	583.3	151.9
700	672.3	155.2
800	765.9	158.3
900	857.9	161.8
1000	942.1	165.8
1100	1026.8	167.5
1200	1111.6	170.5
1300	1198.5	173.4
1400	1278.9	175.3
1500	1363.4	176.8
1600	1449.8	177.8
1700	1539.1	178.3
1800	1629.3	178.9
1900	1716.4	179.4
2000	1807.3	180.1
2100	1898.6	180.7
2200	1987.5	181.9
2300	2079.8	183.3
2400	2172.6	185.3
2500	2262.8	187.5
2600	2355.8	188.3
2700	2449.1	192.8
2800	2541.7	195.6
2900	2637.6	197.7
3000	2734.5	204.8
3100	2832.1	211.7
3200	2938.6	218.8
3300	3027.9	226.4
3400	3124.9	232.7
3450	3174.9	235.6

Well: MC-2 Survey Date: 26/10/83
Survey number: KT-63 Element number: 148

Remarks: Static 10 months

Measured Depth (m CHF)	Vertical Depth (m CHF)	Measured Temperature (deg C)
100	99.9	73.2
200	199.9	127.2
300	299.4	134.7
400	394.8	139.8
500	489.6	144.9
600	583.3	149.7
700	672.3	153.7
800	765.9	157.4
900	857.9	160.4
1000	942.1	163.4
1100	1026.8	165.8
1200	1111.6	168.7
1300	1198.5	171.5
1400	1278.9	173.6
1500	1363.4	174.8
1600	1449.8	175.2
1700	1539.1	175.6
1800	1629.3	176.4
1900	1716.4	176.8
2000	1807.3	177.2
2100	1898.6	177.8
2200	1987.5	178.9
2300	2079.8	180.4
2400	2172.6	182.3
2500	2262.8	184.5
2600	2355.8	187.1
2700	2449.1	189.8
2800	2541.7	192.7
2900	2637.6	196.1
3000	2734.5	202.1
3100	2832.1	207.3
3200	2938.6	213.8
3300	3027.9	221.5
3400	3124.9	228.4
3450	3174.9	230.8

Well: MC-2 Survey Date: 09/08/83
 Survey number: KT-64 Element number: 148

Remarks: Static 9 months (probe lost for 1.5 m after wireline failure)

Measured Depth (m CHF)	Vertical Depth (m CHF)	Measured Temperature (deg C)
92.9	92.8	61.7
185.8	185.7	139.6
278.7	277.9	136.8
371.4	367.3	141.6
464.5	455.1	146.6
557.4	541.6	151.1
650.3	626.5	155.4
743.2	712.2	158.9
836.1	797.8	161.9
929.0	889.3	164.9
1021.9	980.7	167.6
1114.8	1075.8	170.6
1207.7	1172.5	173.1
1300.4	1269.2	175.3
1393.5	1367.5	176.7
1486.4	1467.7	177.2
1579.3	1569.6	177.9
1672.2	1672.2	178.6
1765.1	1774.9	179.1
1858.0	1877.7	179.6
1950.9	1981.1	180.4
2043.8	2084.8	181.6
2136.7	2192.2	183.4
2229.6	2293.6	185.2
2322.5	2398.9	187.6
2415.4	2494.3	190.8
2508.3	2597.7	193.2
2601.2	2695.4	194.8
2694.1	2791.5	199.9
2787.0	2890.9	204.3
2879.9	2987.5	211.7
2972.8	3087.5	218.7
3065.7	3190.4	226.3
3158.6	3289.6	228.8
3251.5	3395.8	234.6
3344.4	3503.7	244.3

Well: MC-3 Survey Date: 26/07/83
 Survey number: KT-27 Element number: 148

Remarks: Static 9 months (last activity: nitrogen lift NOV 82)

Measured Depth (m CHF)	Vertical Depth (m CHF)	Measured Temperature (deg C)
100	99.9	50
300	299.9	156
400	399.6	157
500	498.2	157
600	594.5	159
700	686.3	158
800	778.8	159
900	867.8	160
1000	958.4	159
1100	1036.4	158
1200	1122.2	158
1300	1204.8	157
1400	1290.1	157
1500	1375.3	156
1600	1455.2	156
1700	1540.1	156
1800	1624.8	156
1900	1704.5	156
2000	1789.5	157
2100	1878.8	160
2200	1957.3	162
2300	2042.6	162
2400	2129.8	163
2500	2211.2	163
2600	2298.8	165
2700	2384.3	167
2800	2466.3	170
2900	2552.2	173
3000	2635.8	176
3100	2718.6	180
3200	2792.7	184
3300	2875.6	192
3400	2956.3	200

Well: MC-3 Survey Date: 29/07/83
 Survey number: KT-28 Element number: 148

Remarks: Static 9 months (last activity: nitrogen lift NOV 82)

Measured Depth (m CHF)	Vertical Depth (m CHF)	Measured Temperature (deg C)
50	49.9	64
100	99.9	89.3
150	149.9	119.7
200	199.9	136
250	249.9	145.4
300	299.9	156.1
400	399.6	156.8
2000	1789.5	156.8
3000	2635.5	176.1
3100	2718.6	176.7
3200	2792.7	183.5
3300	2875.6	193.4
3400	2956.3	200.1
3450	3006.3	214.2

Well: MC-3 Survey Date: 30/09/83
 Survey number: KT-29 Element number: 148

Remarks: Static 18 months (last activity: nitrogen lift NOV 82)

Measured Depth (m CHF)	Vertical Depth (m CHF)	Measured Temperature (deg C)
50	49.9	-
100	99.9	-
200	199.9	116.1
300	299.9	143.9
400	398.2	156.1
1000	958.4	156.8
1500	1375.3	154.2
2000	1789.5	154.1
2500	2211.2	160.4
2600	2298.8	161.8
2700	2384.3	164.8
2800	2466.3	166.6
2900	2552.2	169.5
3000	2635.5	172.8
3100	2718.6	176.9
3200	2792.7	180.2
3300	2875.6	185.8
3400	2956.3	206.5
3450	3006.3	208.1

Well: MC-3 Survey Date: 20/10/83
 Survey number: KT-30 Element number: 1407

Remarks: Static 10 months (last activity) nitrogen lift NOV 82)

Measured Depth (m CHF)	Vertical Depth (m CHF)	Measured Temperature (deg C)
80	79.9	48.7
100	99.9	60.1
110	109.9	60.2
120	119.9	74.4
130	129.9	78.6
140	139.9	82.6
150	149.9	86.8
160	159.9	91.5
170	169.9	96.3
180	179.9	104.4
190	189.9	111.2
200	199.9	117.8
210	209.9	122.0
220	219.9	126.0
230	229.9	130.6
240	239.9	133.2
250	249.9	135.0
260	259.9	136.3
270	269.9	140.3
280	279.9	141.8
290	289.9	143.2
300	299.9	144.4

Well: MC-3 Survey Date: 22/10/83
 Survey number: KT-31 Element number: 1407

Remarks: Static 10 months (last activity) nitrogen lift NOV 82)

Measured Depth (m CHF)	Vertical Depth (m CHF)	Measured Temperature (deg C)
90	90.0	52.2
100	99.9	60.7
110	109.9	68.3
120	119.9	74.3
130	129.9	78.3
140	139.9	82.3
150	149.9	86.9
160	159.9	92.2
170	169.9	99.4
180	179.9	105.0
190	189.9	112.5
200	199.9	118.7
210	209.9	123.0
220	219.9	126.9
230	229.9	130.1
240	239.9	133.2
250	249.9	138.0
260	259.9	137.9
270	269.9	139.9
280	279.9	141.8
290	289.9	143.4
300	299.9	145.2
700	686.3	155.0
720	706.3	155.0
740	724.0	155.0
760	741.5	156.1
780	761.5	156.1
800	778.0	156.4
820	795.4	156.4
840	815.4	156.0
860	831.9	157.1
880	847.0	157.1
900	867.0	157.1
920	883.0	157.1
940	899.2	157.1
960	919.2	157.1
980	934.0	156.0
1000	950.4	156.5

Well: MC-3 Survey Date: 24/10/83
 Survey number: KT-32 Element number: 1487

Remarks: Static 10 months (last activity: nitrogen lift NOV 82)

Measured Depth (m GMP)	Vertical Depth (m GMP)	Measured Temperature (deg C)
1000	980.4	156.1
1020	970.4	156.0
1040	955.0	155.9
1060	1001.1	155.0
1080	1021.1	155.7
1100	1036.4	155.6
1500	1375.3	154.1
1520	1390.3	153.0
1540	1405.3	153.4
1560	1425.3	153.0
1580	1440.3	153.0
1600	1455.2	153.0
1620	1475.2	153.0
1640	1490.1	153.0
1660	1505.1	153.0
1680	1525.1	153.0
1700	1540.1	153.0
1720	1554.9	153.0
1740	1574.9	152.0
1760	1589.8	152.0
1780	1604.8	153.0
1800	1624.8	153.0
1820	1639.8	153.0
1840	1654.7	153.0
1860	1674.7	153.0
1880	1689.6	153.0
1900	1704.6	153.0
1920	1724.6	153.2
1940	1739.6	153.4
1960	1754.4	153.2
1980	1774.4	154.0
2000	1789.5	154.3

Well: MC-3 Survey Date: 25/10/83
 Survey number: KT-33 Element number: 1487

Remarks: Static 10 months (last activity: nitrogen lift NOV 82)

Measured Depth (m GMP)	Vertical Depth (m GMP)	Measured Temperature (deg C)
2700	2384.3	163.0
2720	2399.9	164.4
2740	2415.4	165.0
2760	2435.4	166.4
2780	2450.9	167.1
2800	2466.3	167.0
2820	2486.3	168.6
2840	2501.0	169.2
2860	2517.1	169.7
2880	2537.1	170.2
2900	2552.2	170.0
2920	2567.0	171.4
2940	2587.0	172.1
2960	2601.5	172.0
2980	2615.5	173.4
3000	2635.5	174.3
3020	2649.2	175.0
3040	2662.9	175.2
3060	2682.7	176.1
3080	2696.7	176.6
3100	2710.6	177.2
3120	2730.6	177.7
3140	2744.6	178.4
3160	2758.6	179.1
3180	2778.6	179.3
3200	2792.7	179.1

Well: MC-3 Survey Date: 04/12/83
 Survey number: KT-34 Element number: 148

Remarks: Static since airlift 11 NOV 83 Obstruction not encount'd this run

Measured Depth (m CHF)	Vertical Depth (m CHF)	Measured Temperature (deg C)
100	99.9	68.8
200	199.9	122.78
300	299.9	146.71
400	399.6	154.82
500	498.2	154.12
600	594.5	154.24
700	686.3	157.19
800	778.8	157.42
900	867.8	156.39
1000	958.4	156.81
1100	1036.4	155.65
1200	1122.2	155.86
1300	1204.5	155.86
1400	1298.1	154.59
1500	1375.3	153.76
1600	1455.2	153.76
1700	1548.1	153.76
1800	1624.8	153.76
1900	1704.5	154.23
2000	1789.5	156.95
2100	1875.8	157.66
2200	1957.3	158.85
2300	2042.6	160.84
2400	2129.8	161.94
2500	2211.2	164.58
2600	2298.8	167.59
2700	2384.3	170.78
2800	2466.3	174.32
2900	2552.2	178.68
3000	2635.5	181.96
3100	2718.6	191.97
3200	2792.7	206.83
3300	2875.6	217.89
3400	2956.3	224.22
3500	3056.3	229.92

Well: MC-3 Survey Date: 10/01/84
 Survey number: KT-35 Element number: 148

Remarks: Static since airlift 11 NOV 83

Measured Depth (m CHF)	Vertical Depth (m CHF)	Measured Temperature (deg C)
100	99.9	79.3
200	199.9	129.8
300	299.9	182.1
400	399.6	168.3
500	498.2	161.7
600	594.5	161.7
700	686.3	161.3
800	778.8	162.6
900	867.8	161.4
1000	958.4	161.7
1100	1036.4	161.5
1200	1122.2	168.8
1300	1204.5	159.9
1400	1298.1	159.4
1500	1375.3	158.8
1600	1455.2	158.2
1700	1548.1	158.2
1800	1624.8	158.3
1900	1704.5	159.1
2000	1789.5	162.3
2100	1875.8	162.9
2200	1957.3	164.8
2300	2042.6	165.3
2400	2129.8	167.3
2500	2211.2	178.8
2600	2298.8	173.1
2700	2384.3	176.6
2800	2466.3	188.4
2900	2552.2	185.1
3000	2635.5	188.4
3100	2718.6	197.9
3200	2792.7	213.5
3300	2875.6	223.8
3400	2956.3	229.8
3500	3056.3	233.8

Well: MC-3 Survey Date: 01/05/84
 Survey number: KT-36 Element number: 148

Remarks: Static since 07/11/83 flow test

Measured Depth (m CHF)	Vertical Depth (m CHF)	Measured Temperature (deg C)
100	99.9	86.6
200	199.9	128.9
300	299.9	152.7
400	399.6	161.1
500	498.2	162.3
600	594.5	162.3
700	686.3	161.9
800	778.8	162.7
900	867.8	162.8
1000	958.4	161.7
1100	1036.4	161.4
1200	1122.2	160.7
1300	1204.8	160.1
1400	1290.1	159.4
1500	1378.3	158.4
1600	1458.2	158.3
1700	1540.1	158.2
1800	1624.8	158.4
1900	1704.8	158.9
2000	1789.8	162.2
2100	1875.8	162.4
2200	1957.3	163.4
2300	2042.6	164.7
2400	2129.8	166.7
2500	2211.2	169.3
2600	2298.8	172.7
2700	2384.3	178.9
2800	2466.3	179.4
2900	2552.2	184.4
3000	2635.8	187.8
3100	2718.4	196.8
3200	2792.7	212.8
3300	2875.4	221.4
3400	2956.3	228.8
3500	3036.3	233.2

Appendix B

E P R I Chemistry Data

E P R I Chemistry Data

The Electric Power Research Institute, in cooperation with B.C. Hydro, sent its mobile geothermal chemistry lab to Meager Creek in late July, 1983 in preparation for the installation of a small, demonstration steam turbine later that year. The mobile lab contains some of the most advance sampling equipment available, and its crew is specially trained in the collection and analysis of fluid samples from geothermal sites. The following is a draft report submitted to EPRI by the Rockwell International scientists who performed the sampling and analysis of the geothermal fluids from well MC-1.

EPRI
SPECIAL TEST DATA
ON
GEOTHERMAL FLUID CHEMISTRY
FOR

DRAFT

Site: Meagre Creek, British Columbia

Well: MCG-1

CONTENT:

- * System Diagram
- * Chemical Analysis Request(s)
- * Chemical Analysis Report(s)

DATE: August 1983

Prepared by: Rockwell International
as a result of field operations of
EPRI's Mobile Geothermal Chemistry
Lab., RP741-1

Special Test, Well MCG-1 Brine, Stream and Solids

Samples were collected on 29 July 1983; the well was flowing under stable conditions at approximately thirty percent of full flow. A sampling port (A) was available and used for collection of brine samples. The fluid sampling system was attached at port A, but no noncondensable gas was measured, indicating that the steam fraction was going to the muffler and not to port A. Only brine samples were collected at the wellhead; these included raw, acidified, flow, and sulfide samples.

The liquid fraction from the muffler was allowed to form a stream and flow down the hillside. Four raw samples were collected from the stream:

2015	~ 20 yards from well
2016	~ 75 yards from well
2017	just before the road
2018	pond near well.

Two solid samples were collected:	2019	weir box
	2020	stream.

The diagram on the next page demonstrates the location of the sampling sites and flow streams.

All values reported represent the samples as collected, prior to stabilization, dilution or analysis.

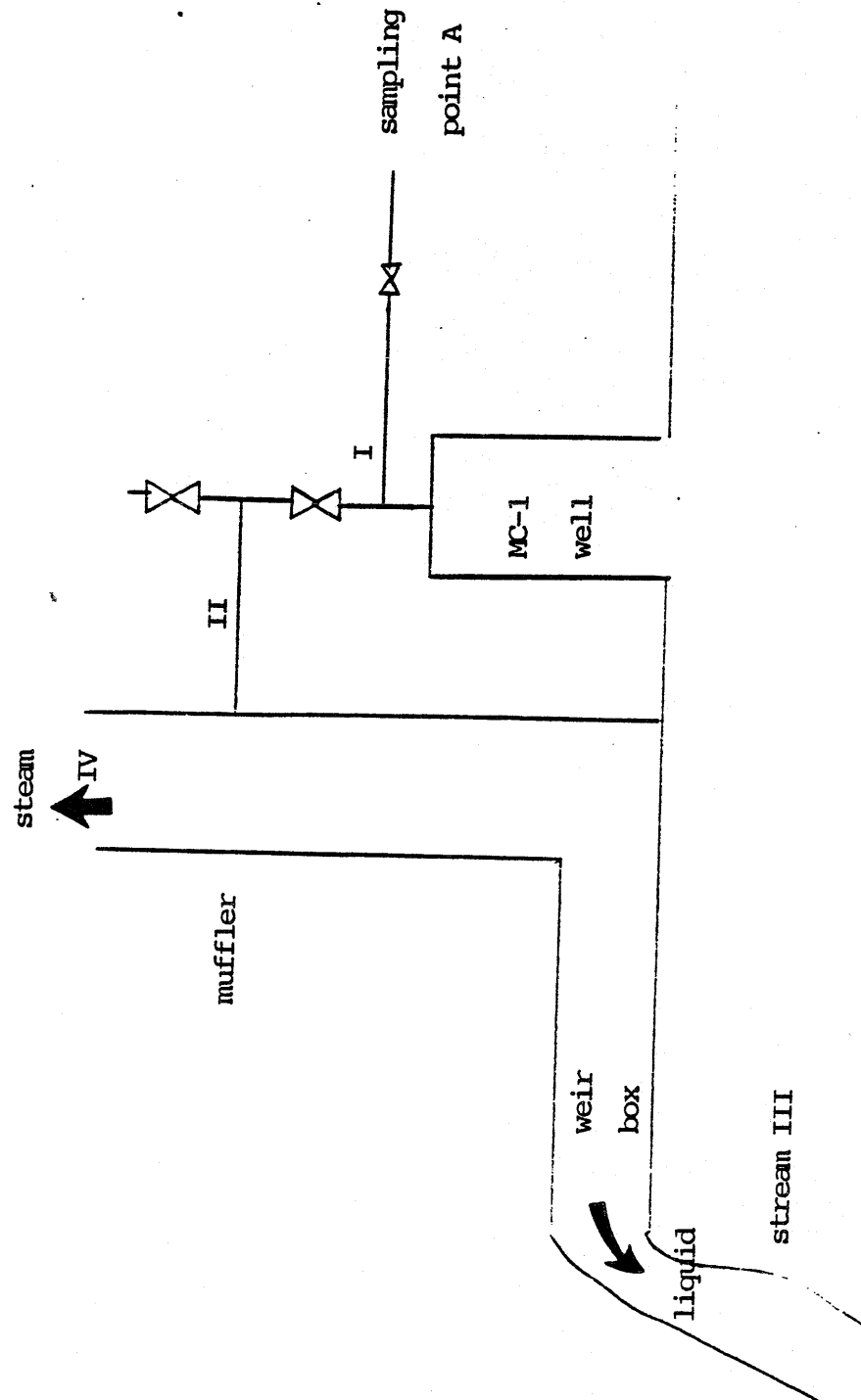
CHEMICAL ANALYSIS REQUEST - CHEMLAB

REQUEST NO: 83 - 8,9

TOL: 10

SITE Meagre Creek, British Columbia

System Diagram



CHEMICAL ANALYSIS REPORT - CHEMLAB

Key to Symbols

Units

mg/kg = milligrams/kg

ppm = parts/million

(M/M) = mass ratio

mv = millivolts

NTU = National Turbidity Units

umho/cm = micromho/centimeter

N.D. = Not detected

E_H = Oxidation-reduction potential with respect to the standard hydrogen electrode

L = liter

T = temperature

P = pressure

AA = atomic absorption

API = American Petroleum Institute

V = volume

kg = kilogram

g/ml = grams/milliliter

ZnAc = zinc acetate

Sample Type

H ₂ S	--	Trapped in zinc acetate with ΔT sampling. Collected in polyethylene bottle.
CO ₂	--	Trapped in NaOH with ΔT sampling. Collected in polyethylene bottle.
SI	--	Diluted without pre-cooling 1 part sample to 9 parts distilled water ice. Collected in polyethylene bottle.
R	--	Raw sample with ΔT sampling collected in acid washed and thoroughly rinsed polyethylene bottle.
A	--	Acidified, 10 ml conc. HNO ₃ + 990 ml sample with ΔT sampling. Collected in acid washed polyethylene bottle.
G	--	Gas sample. Collected by ΔP sampling in teflon-lined stainless steel bomb unless otherwise noted.
C	--	Condensate sample. Taken by ΔP sampling from boiling water condenser separator.
F	--	Flow through sampling probe. Sample analyzed at time of sampling.
FSS	--	Fluid sampling system was used to collect T, P, and flow data in calculations
S	--	Deposited Scale
<u>Sample Modes</u>		
ΔT	--	Temperature drop
ΔP	--	Pressure drop
Scale	--	Scrapings

CHEMICAL ANALYSIS REPORT - CIEMLAB

TOL 10

SITE Meagre Creek, British Columbia

Test Special

Sample				Flow Stream				Chronology		
Source	No.	Type	Mode	No.	T°C	P _{psig}	F. Rate %	Date	Time	Note Book
EPRI	2000	R	ΔT	I	94	56	~30	7-29	1253	XVIII, 50
EPRI	2001	A	ΔT	I	94	56	~30	7-29	1301	XVIII, 50
EPRI	2002	F	ΔT	I	94	37	~30	7-29	1225-1240	XVIII, 49
EPRI	2003	SAOB	ΔT	I	94	56	~30	7-29	1253	XVIII, 50
EPRI	2004	SAOB	ΔT	I	94	56	~30	7-29	1254	XVIII, 50
EPRI	2005	SAOB	ΔT	I	94	56	~30	7-29	1256	XVIII, 50
EPRI	2006	CO ₂	ΔT	I	94	56	~30	7-29	1246	XVIII, 50
EPRI	2007	CO ₂	ΔT	I	94	52	~30	7-29	1248	XVIII, 50
EPRI	2008	CO ₂	ΔT	I	94	52	~30	7-29	1250	XVIII, 50
EPRI	2009A	SI	ΔP	I	94	52	~30	7-29	1000	XVIII, 50
EPRI	2009B	SI	ΔP	I	94	52	~30	7-29	1001	XVIII, 50
EPRI	2010	CO ₂ -blk	--	--	--	--	--	7-29	1250	XVIII, 50
EPRI	2011	SI-blk	--	--	--	--	--	7-29	1000	XVIII, 50
EPRI	2012	SI-blk	--	--	--	--	--	7-29	1000	XVIII, 50
EPRI	2015	R	--	III	44	amb	--	7-29	1330	XVIII, 50
EPRI	2016	R	--	III	36	amb	--	7-29	1335	XVIII, 50
EPRI	2017	R	--	III	28	amb	--	7-29	1337	XVIII, 50
EPRI	2018	R	--	III	61	amb	--	7-29	1339	XVIII, 50
EPRI	2019	S	--	III	--	amb	--	7-29	1444	XVIII, 50
EPRI	2020	S	--	III	--	amb	--	7-29	1451	XVIII, 50

CHEMICAL ANALYSIS REPORT - CHEMLAB

Kind of Test: Special, brine

SAMPLE			ANALYSIS			QUALITY CONTROL				NOTEBOOK	
No.	Type	Mode	Date	83	Analyte	Value/ Sample	Units	Method	Detection Limit	Measure- ment Accuracy	Reference
2000	R	ΔT	8-9		TDS	3410	mg/l	Gravimetry	20	130 (3)	XVIII, 62
2002	F	ΔT	7-29		conductivity @28 °C	5.5x10 ³	umho/cm	Wheatstone Bridge	--	0.6x10 ³ (3)	XVIII, 49
2002	F	ΔT	7-29		pH @ 32°C	6.58	--	Glass Electrode	--	0.05 (1)	XVIII, 49
2002	F	ΔT	7-29		E _H @ 28°C	-52	mV	Redox Electrode	--	5 (1)	XVIII, 49
2002	F	ΔT	7-29		Dissolved O ₂	5	ppb	DO Kits	1	1 (3)	XVIII, 49
2001	A	ΔT	8-15		As	0.801	mg/l	AAS	0.004	0.036 (3)	XVIII, 71
2000	R	ΔT	8-8		B	14.8	mg/l	Colorimetry	0.5	1.1 (3)	XVIII, 57
2001	A	ΔT	8-9		Ca	33.6	mg/l	AAS	0.03	1.2 (3)	XVIII, 61
2000	R	ΔT	8-3		Cl	1690	mg/l	Coulametric Titration	350	20 (5)	XX, 32
2001	A	ΔT	8-10		Fe	0.20	mg/l	AAS	0.10	0.1 (3)	XVIII, 65
2001	A	ΔT	8-10		K	101	mg/l	AAS	0.03	1	XVIII, 60
2001	A	ΔT	8-9		Mg	1.09	mg/l	AAS	0.005	0.01 (3)	XVIII, 58
2001	A	ΔT	8-9		Na	1140	mg/l	AAS	0.02	10 (3)	XVIII, 64
2003-5	SAOB	ΔT	8-2		S ⁼ , total	0.64	mg/l	Ion Selective Electrode	0.5	0.25 (3)	XVIII, 53
2000	R	ΔT	8-11		Si	154	mg/l	AAS	2	1 (3)	XVIII, 68

Kind of Test: Special, stream

—

CHEMICAL ANALYSIS REPORT

CHEMLAB

KIND OF TEST: special, solids
 SAMPLE NUMBER: 2019

LOCATION: weir box

DATE	METHOD	MAJOR CONSTITUENTS	MINOR CONSTITUENTS
9-9	XRD	CaCO_3	Fe_3O_4
	XRF	Ca	Fe, Sr

COMMENTS:

CaCO_3 - aragonite and calcite present

Fe_3O_4 - magnetite

XRF scans elements Al - U only (Na, Mg, O not accessible)

CHEMICAL ANALYSIS REPORT

CHEMLAB

KIND OF TEST: special, solids

SAMPLE NUMBER: 2020

LOCATION: stream

DATE	METHOD	MAJOR CONSTITUENTS	MINOR CONSTITUENTS
9-9	XRF	Ca, Si	Fe

COMMENTS:

XRD showed no crystalline phases present; solid appears to be an amorphous silicate

XRF scans elements Al - U only (Na, Mg, O not accessible)

Appendix C

Well Chemistry Data

(as analysed by B.C. Hydro - Surrey Research Lab)

Well Chemistry Data

Water samples from well MC-1 are routinely collected and shipped to the B.C. Hydro Surrey Research and Development Lab for analysis. The following is a summary of the well chemistry data over the past two years. Also included are analyses of samples from wells MC-2 and MC-3 collected during flow tests in late 1982.

MCNEER CREEK GEOTHERMAL PROJECT

GEOCHEMICAL ANALYSIS RESULTS

DATE: MAY 85
PAGE: 1

Location	Sample Number	Parameter	Comments	pH	Silica	Cl	F	SO	As	B	Na	K	Ca	Hg	Li	Total Carbonate as CO ₃	Hg	NH
MC-1	WH-32	WEBER SEP	pH @ 19.6C	6.7	87.0	1060.00	0.15	950.0	0.07	9.2	820.0	48.0	410.0	97.0	1.70	990.0		-5
MC-1	WH-35	WEBER SEP	pH @ 21.0C	7.0	140.0	870.00	0.10	400.0	0.09	7.2	700.0	69.0	3.0	65.0	2.00	960.0		-5
MC-1	WH-36	WEBER SEP	pH @ 19.7C	7.7	21.0	0.55	-1.0	-5.0	-0.01	-1.0	24.0	1.6	15.0	3.5	-1.0	50.0		-5
MC-1	15/03/82					1230.00												
MC-1	17/03/82		pH @ 21.1C	8.4	430.0	1440.00	2.90	210.0	0.39	7.9	1050.0	74.0	26.0	0.2	2.50	74.0		-5
MC-1	24/03/82					1270.00												
MC-1	31/03/82					1310.00												
MC-1	04/04/82					1260.00												
MC-1	20/04/82					1410.00												
MC-1	10/06/82					1570.00												
MC-1	07/07/82		pH @ 20.2C	8.3	320.0	1660.00	2.10	160.0	0.75	11.0	1130.0	84.0	36.0	0.2	3.30	80.0		0.8
MC-1	09/07/82	WEBER SEP		6.3	350.0	1640.00	2.20	150.0	0.65	10.0	1100.0	80.0	31.0	0.4	3.10	53.0		0.9
MC-1	22/07/82 a.m. 1		pH @ 22.6C	8.6	300.0	1770.00	2.20	160.0	0.07	9.7	1160.0	82.0	43.0	0.2	2.90	64.0		-5
MC-1	22/07/82 p.m. 2			8.5	300.0	1520.00	2.00	140.0	0.05	8.6	900.0	74.0	42.0	0.5	2.50	54.0		-5
MC-1	22/07/82 WEB #1	WEBER SEP		7.9	200.0	1600.00	2.20	150.0	0.08	9.3	1100.0	80.0	44.0	0.2	2.80	79.0		-5
MC-1	22/07/82 WEB #2	WEBER SEP		8.2	340.0	1690.00	2.20	150.0	0.13	9.2	1110.0	82.0	46.0	0.3	2.80	71.0		-5
MC-1	17/08/82 1000		pH @ 20.2C	8.3	363.0	1700.00	2.10	140.0	0.77	11.8	1100.0	80.0	39.0	0.6	2.90	52.0		0.5
MC-1	10/09/82 0900		pH @ 20C	8.3	370.0	1360.00	1.40	210.0	0.76	9.8	870.0	74.0	134.0	1.4	2.50	245.0		-5
MC-1	12/09/82 0400		pH @ 20.3C	8.1	324.0	2130.00	2.30	220.0	0.39	14.6	1400.0	102.0	60.0	0.3	3.40	119.0		-5
MC-1	13/09/82 1300		pH @ 20.6C	7.5	280.0	2190.00	2.20	150.0	0.98	14.8	1350.0	105.0	91.0	0.6	13.60	32.0		-5
MC-1	14/09/82 1030		pH @ 22.3C	8.5	171.0	1940.00	2.60	140.0	0.56	14.0	1320.0	106.0	73.0	0.6	3.30	70.0		0.5
MC-1	14/09/82 1200			8.3	160.0	1980.00	2.00	140.0	0.64	13.6	1310.0	114.0	62.0	0.4	3.30	50.0		-5
MC-1	14/09/82 1100	WEBER SEP		8.2	159.0	2000.00	2.70	150.0	0.73	14.1	1330.0	106.0	54.0	0.4	3.50	50.0		-5
MC-1	14/09/82 1130	WEBER SEP		8.0	185.0	1790.00	2.60	120.0	0.59	12.1	1140.0	104.0	55.0	0.4	3.20	50.0		0.7
MC-1	25/09/82		pH @ 19.9C	8.4	373.0	1930.00	2.20	150.0	0.62	13.1	1210.0	94.0	36.0	0.6	3.20	46.0		0.6
MC-1	27/09/82		pH @ 20.1C	8.5	376.0	1940.00	2.00	140.0	0.58	12.4	1210.0	95.0	37.0	0.8	3.10	41.0		-5
MC-1	01/10/82		pH @ 19.3C	8.3	374.0	1990.00	2.30	140.0	0.80	13.4	1260.0	90.0	37.0	1.0	3.30	57.0		-5
MC-1	09/10/82	WEIRBOX	pH @ 19.2C	8.3	217.0	1930.00	2.30	130.0	0.84	13.0	1250.0	90.0	37.0	1.0	3.30	50.0		0.5
MC-1	10/10/82 1200			8.4	390.0	2070.00	2.10	130.0	0.89	13.0	1290.0	100.0	30.0	0.8	3.40	46.0		-5
MC-1	21/10/82 1200					1990.00												
MC-1	23/10/82 1200			8.3	370.0	1990.00	2.10	120.0	0.77	12.8	1260.0	97.0	40.0	0.8	3.30	52.0		-5
MC-1	24/10/82 1200			8.2	390.0	2030.00	2.00	130.0	0.30	13.2	1320.0	100.0	37.0	1.0	3.40	69.0		-5
MC-1	25/10/82 1200			8.2	400.0	2040.00	2.10	130.0	0.70	13.8	1320.0	101.0	37.0	1.0	3.40	68.0		-5
MC-1	28/10/82 2400			8.7	340.0	1090.00	1.00	170.0	0.11	7.6	740.0	59.0	33.0	0.8	2.00	51.0		-5

NOTES: -- designates below detection limit

All values in ppm (mg/l)

MEGER CREEK GEOTHERMAL PROJECT
GEOCHEMICAL ANALYSIS RESULTS

DATE: MAY85
PAGE: 2

Location	Sample Number	Parameter	Consents	pH	Silica	Cl	F	SO	As	B	Na	K	Ca	Mg	Li	Total Carbonate as CO ₃	Hg	NH
MC-1	29/10/82 0800			8.2	370.0	1720.00	1.90	160.0	0.07	11.6	1130.0	92.0	47.0	1.0	2.90	52.0	-5	
MC-1	29/10/82 2400			8.7	400.0	2210.00	2.30	190.0	0.23	14.5	1440.0	114.0	82.0	1.5	3.70	54.0	-5	
MC-1	29/10/82 1600				400.0	1830.00					1190.0	99.0	59.0					
MC-1	30/10/82 0800			8.6	290.0	2020.00	2.00	170.0	0.20	13.7	1310.0	101.0	74.0	4.6	3.40	51.0	-5	
MC-1	30/10/82 2400			8.4	330.0	2210.00	2.60	190.0	0.18	15.0	1420.0	106.0	64.0	20.0	3.60	63.0	-5	
MC-1	30/10/82 1600				300.0	2070.00					1330.0	104.0	87.0					
MC-1	31/10/82 0830			8.1	330.0	2270.00	2.80	170.0	0.32	15.4	1400.0	126.0	65.0	23.0	3.90	61.0	-5	
MC-1	06/11/82 1200				310.0	1660.00					1050.0	76.0	41.0					
MC-1	07/11/82 1200	pH @ 21.3C		8.4	360.0	1940.00	1.90	150.0	0.79	12.6	1190.0	97.0	41.0	1.2	3.30	43.0	-5	
MC-1	08/11/82 1200				370.0	2010.00					1270.0	98.0	40.0					
MC-1	09/11/82 1200	pH @ 21.3C		8.2	340.0	1870.00	1.80	130.0	0.85	11.9	1170.0	95.0	37.0	1.2	3.20	46.0	-5	
MC-1	10/11/82 1213				400.0	2200.00					1420.0	112.0	44.0					
MC-1	11/11/82 0715	pH @ 21.3C		8.3	370.0	1990.00	1.90	140.0	1.00	12.8	1210.0	100.0	37.0	1.2	3.30	45.0	-5	
MC-1	11/11/82 0945	BLEEDLINE		8.3	390.0	2030.00	2.00	130.0	1.00	13.4	1220.0	100.0	37.0	1.3	3.50	48.0	-5	
MC-1	11/11/82 0945	WEIRBOX		8.3	360.0	1940.00	1.90	130.0	0.88	12.2	1180.0	96.0	36.0	1.2	3.30	45.0	0.5	
MC-1	15/11/82 1200			8.1	220.0	1210.00	1.30	80.0	0.49	8.1	750.0	61.0	36.0	1.7	1.90	46.0	-5	
MC-1	19/11/82 1100				360.0	2010.00					1240.0	99.0	39.0					
MC-1	20/11/82 1100	pH @ 21.3C		8.3	360.0	1980.00	2.00	130.0	0.89	13.1	1270.0	100.0	37.0	1.2	3.20	45.0	-5	
MC-1	21/11/82 1100				360.0	1990.00					1240.0	95.0	36.0					
MC-1	23/11/82 1100	pH @ 21.3C		8.3	360.0	1970.00	2.00	130.0	1.00	12.8	1270.0	100.0	36.0	1.3	3.20	44.0	-5	
MC-1	23/11/82 1400	WEIR SEP		7.0	260.0	1490.00	1.50	90.0	0.65	10.3	940.0	75.0	27.0	0.9	2.40	54.0	1.0	
MC-1	24/11/82 1100				360.0	1990.00					1260.0	103.0	37.0					
MC-1	28/11/82 A.M.	WHP 137	pH @ 21C	8.3	370.0	1990.00	2.00	140.0	0.88	13.3	1280.0	93.0	36.0	1.3	3.30	39.0	-5	
MC-1	01/12/82 P.M.	WHP 137		8.3	390.0	1990.00	2.00	130.0	0.88	13.3	1280.0	93.0	37.1	1.4	3.30	40.0	-5	
MC-1	06/12/82 1400	WHP 136		8.2	370.0	1990.00	2.00	140.0	0.87	13.5	1270.0	93.0	36.5	1.4	3.30	41.0	-5	
MC-1	09/12/82 1400	WHP 137		8.3	380.0	2000.00	2.00	140.0	1.00	13.8	1260.0	92.0	36.5	1.4	3.20	37.0	-5	
MC-1	12/12/82 1000	WHP 138		8.3	380.0	2080.00	2.00	140.0	0.96	13.4	1260.0	93.0	36.0	1.4	3.30	39.0	-5	
MC-1	15/12/82 0900	WHP 138		8.4	380.0	1990.00	2.00	140.0	0.96	13.8	1270.0	92.0	35.5	1.4	3.30	38.0	-5	
MC-1	19/12/82 0900	WHP 140		8.3	370.0	1990.00	2.00	140.0	0.93	13.6	1280.0	93.0	36.0	1.4	3.40	38.0	-5	
MC-1	23/12/82 0900		pH @ 21.6C	8.3	390.0	2000.00	2.10	130.0	0.85	14.0	1310.0	110.0	36.0	1.6	3.20	44.0	-5	
MC-1	26/12/82 1200			8.3	370.0	1990.00	2.10	130.0	1.00	13.4	1290.0	110.0	37.0	1.5	3.30	44.0	-5	
MC-1	29/12/82 1200			8.3	370.0	2010.00	2.10	140.0	0.92	13.6	1290.0	113.0	46.0	1.4	3.30	44.0	-5	
MC-1	02/01/83 1600		pH @ 21.3C	8.7	380.0	1980.00	2.10	140.0	0.84	13.6	1290.0	110.0	37.0	1.4	3.20	66.0	-5	
MC-1	05/01/83 1300			8.2	380.0	1980.00	1.90	130.0	1.10	14.0	1270.0	112.0	36.0	1.4	3.10	45.0	-5	
MC-1	09/01/83 0900			8.2	370.0	1970.00	1.90	120.0	1.00	13.5	1270.0	110.0	36.0	1.4	3.10	45.0	-5	

NOTES: *-- designates below detection limit
All values in ppm (ug/l)

PROJECT

GEOCHEMICAL

CREEK

MEAGER

GEOCHEMICAL ANALYSIS RESULTS

Date: MAY85
PAGE: 3

Location	Sample Number	Parameter	Comments	pH	Silica	Cl	F	SO	As	B	Na	K	Ca	Mg	Li	Total Carbonate as CO ₃	Hg	NH
MC-1	13/01/83 1500			8.2	390.0	1990.00	2.00	120.0	0.92	14.0	1200.0	112.0	36.0	1.3	3.10	45.0		-5
MC-1	16/01/83 1500			8.2	380.0	1990.00	2.00	120.0	1.10	13.8	1200.0	118.0	36.0	1.3	3.20	45.0		-5
MC-1	20/01/83 1300			8.3	360.0	1960.00	1.90	120.0	1.10	13.9	1200.0	120.0	38.0	1.3	3.10	45.0		-5
MC-1	30/01/83 0900			8.4	350.0	2100.00	2.10	130.0	1.10	15.0	1300.0	125.0	45.0	1.2	3.30	47.0		-5
MC-1	02/02/83 1200			8.6	390.0	2200.00	2.50	130.0	1.10	15.1	1520.0	117.0	58.0	0.7	3.90	8.6		-5
MC-1	06/02/83 1730			8.5	350.0	1930.00	2.20	140.0	1.00	13.6	1360.0	106.0	52.0	0.4	3.40	38.0		-5
MC-1	09/02/83 1500			7.1	360.0	1870.00	1.90	120.0	1.00	12.7	1180.0	97.0	55.0	3.8	3.20	126.0		-5
MC-1	13/02/83 2030			8.6	390.0	2220.00	2.30	140.0	1.10	15.1	1420.0	110.0	45.0	0.2	3.70	40.0		-5
MC-1	19/02/83 1200			8.4	370.0	2090.00	2.20	150.0	1.10	14.0	1320.0	106.0	39.0	1.1	3.60	42.0		-5
MC-1	24/02/83 0900			8.4	380.0	2100.00	2.20	140.0	1.10	14.1	1330.0	107.0	38.0	1.3	3.60	35.0		-5
MC-1	27/02/83 0900			8.4	380.0	2000.00	2.10	160.0	1.00	14.0	1290.0	109.0	38.0	1.4	3.60	35.0		-5
MC-1	02/03/83 1330		pH @ 21C	8.4	380.0	2060.00	2.00	130.0	1.00	14.4	1300.0	117.0	39.0	1.5	3.40	33.0		-5
MC-1	06/03/83 0900			8.3	370.0	2040.00	2.70	130.0	1.00	14.3	1330.0	116.0	39.0	1.5	3.40	36.0		-5
MC-1	09/03/83 0900			8.4	370.0	2030.00	2.70	130.0	1.00	14.0	1320.0	114.0	39.0	1.5	3.40	34.0		-5
MC-1	13/03/83 0900			8.4	380.0	2060.00	2.00	130.0	1.00	13.9	1320.0	109.0	40.0	1.4	3.40	35.0		-5
MC-1	16/03/83 0900			8.4	380.0	2050.00	2.70	130.0	1.00	13.6	1310.0	111.0	38.0	1.5	3.30	34.0		-5
MC-1	20/03/83 0900			8.4	380.0	2040.00	2.70	130.0	0.90	14.5	1280.0	110.0	39.0	1.5	3.40	34.0		-5
MC-1	23/03/83 0900			8.4	380.0	2040.00	2.70	130.0	1.00	13.8	1290.0	114.0	39.0	1.5	3.40	34.0		-5
MC-1	27/03/83 0900			8.4	370.0	2030.00	2.70	130.0	0.90	14.6	1310.0	113.0	40.0	1.5	3.30	34.0		-5
MC-1	30/03/83			8.5	380.0	2060.00	2.00	140.0	0.80	15.0	1290.0	110.0	38.0	1.3	3.40	40.0		-5
MC-1	03/04/83			8.5	410.0	2230.00	2.20	140.0	0.90	16.0	1420.0	120.0	41.9	0.5	3.50	42.0		-5
MC-1	06/04/83			8.4	410.0	2130.00	2.20	130.0	0.70	15.0	1320.0	110.0	38.0	0.4	3.50	42.0		-5
MC-1	10/04/83			8.4	310.0	2060.00	2.00	140.0	0.80	14.0	1320.0	110.0	37.6	1.4	3.40	43.0		-5
MC-1	14/04/83			8.4	370.0	2030.00	2.00	140.0	0.70	14.0	1310.0	120.0	36.2	1.5	3.40	43.0		-5
MC-1	18/04/83			8.4	380.0	2040.00	2.00	140.0	0.80	13.0	1280.0	110.0	36.2	1.6	3.30	43.0		-5
MC-1	21/04/83			8.4	380.0	2020.00	1.90	140.0	0.90	14.0	1360.0	120.0	37.9	1.6	3.30	44.0		-5
MC-1	24/04/83			8.4	390.0	2010.00	1.90	140.0	1.00	14.0	1260.0	110.0	36.0	1.6	3.30	43.0		-5
MC-1	27/04/83			8.4	390.0	2020.00	1.90	140.0	1.00	14.0	1310.0	110.0	36.5	1.6	3.40	42.0		-5
MC-1	01/05/83			8.4	380.0	2010.00	1.90	140.0	0.90	14.0	1280.0	110.0	36.1	1.6	3.30	43.0		-5
MC-1	04/05/83			8.4	380.0	2010.00	1.90	130.0	1.10	15.0	1270.0	110.0	34.2	1.6	3.30	40.0		-5
MC-1	08/05/83			8.4	350.0	2000.00	1.90	140.0	0.90	15.0	1290.0	110.0	36.0	1.6	3.40	43.0		-5
MC-1	12/05/83 0930		pH @ 22C	8.4	370.0	2000.00	2.20	140.0	1.00	14.0	1280.0	100.0	35.0	1.5	3.20	43.0		-5

NOTES: -- designates below detection limit All values in ppm (ug/l)

MEAGER CREEK PROJECT
GEOCHEMICAL ANALYSIS RESULTS

DATE: MAY85
PAGE: 4

Location	Sample Number	Parameter	Comments	pH	Silica	Cl	F	SO	As	B	Na	K	Ca	Mg	Li	Total Carbonate as CO ₃	Hg	NH
MC-1	05/06/83 0900			8.3	380.0	2000.00	2.20	130.0	1.00	14.0	1350.0	110.0	34.0	1.5	3.20	42.0		-5
MC-1	09/06/83 0900		pH @ 22C	8.4	370.0	2000.00	2.20	120.0	1.20	14.0	1250.0	100.0	34.0	1.5	3.20	44.0		-5
MC-1	12/06/83 0900			8.4	370.0	2000.00	2.20	150.0	1.00	14.0	1200.0	100.0	34.0	1.5	3.20	41.0		-5
MC-1	16/06/83			8.3	370.0	2010.00	2.20	150.0	1.00	14.0	1240.0	100.0	34.0	1.5	3.30	44.0		-5
MC-1	19/06/83			8.4	360.0	2010.00	2.20	150.0	1.00	14.0	1240.0	100.0	34.0	1.5	3.30	44.0		-5
MC-1	22/06/83		pH @ 20 C	8.4	400.0	2010.00	2.10	150.0	0.90	14.0	1270.0	110.0	33.0	1.7	3.30	43.0		0.3
MC-1	26/06/83			8.3	350.0	2010.00	2.10	160.0	0.80	14.0	1270.0	110.0	33.0	1.6	3.30	42.0		0.3
MC-1	29/06/83			8.4	350.0	2000.00	2.10	150.0	0.70	14.0	1270.0	110.0	33.0	1.6	3.40	41.0		0.3
MC-1	03/07/83			8.4	340.0	1990.00	2.00	150.0	0.70	14.0	1260.0	110.0	32.0	1.6	3.40	41.0		0.3
MC-1	04/09/83			8.2	280.0	2130.00	2.40	150.0	1.00	15.0	1360.0	110.0	53.0	0.7	3.60	69.0		0.3
MC-1	11/09/83		pH @ 25 C	8.3	340.0	2110.00	2.50	120.0	0.90	15.0	1370.0	110.0	49.0	1.0	3.50	61.0		0.1
MC-1	18/09/83			8.3	360.0	2130.00	2.60	130.0	1.00	15.0	1370.0	120.0	50.0	1.0	3.50	58.0		0.1
MC-1	09/10/83			8.4	340.0	2040.00	2.50	130.0	0.90	14.0	1320.0	120.0	36.0	1.4	3.50	39.0		0.1
MC-1	16/10/83			8.4	330.0	2030.00	2.40	130.0	0.90	14.0	1300.0	120.0	36.0	1.5	3.50	38.0		0.1
MC-1	23/10/83			8.3	340.0	2030.00	2.50	140.0	0.80	14.0	1260.0	110.0	35.0	1.5	3.50	38.0		0.1
MC-1	05/12/83 0900		pH @ 23 C	8.5	220.0	1430.00	2.00	80.0	0.90	14.0	1330.0	120.0	34.0	1.4	3.40	29.0		0.1
MC-1	05/12/83		DUPLICATE, pH@21C	8.3	270.0	2030.00	1.60	140.0	0.70	11.0	1040.0	90.0	26.0	1.1	2.80	36.0		0.2
MC-1	11/12/83 0900		pH @ 23 C	8.5	280.0	1330.00	1.70	83.0	0.70	12.0	1090.0	92.0	27.0	1.1	2.90	20.0		-1
MC-1	11/12/83		DUPLICATE, pH@21C	8.3	320.0	2020.00	1.80	150.0	0.70	12.0	1100.0	100.0	29.0	1.3	3.10	36.0		0.1
MC-1	18/12/83 0900		pH @ 23 C	8.4	200.0	2010.00	1.70	130.0	0.70	12.0	1050.0	89.0	27.0	1.1	2.80	43.0		0.1
MC-1	18/12/83		DUPLICATE, pH@21C	8.3	260.0	1550.00	1.50	120.0	0.70	10.0	980.0	86.0	25.0	1.1	2.70	29.0		0.1
MC-1	25/12/83 0900		pH @ 23 C	8.4	340.0	2020.00	2.10	130.0	0.80	15.0	1300.0	110.0	31.0	1.4	3.30	42.0		0.1
MC-1	25/12/83		DUPLICATE, pH@21C	8.3	360.0	2030.00	2.00	140.0	0.80	13.0	1290.0	110.0	33.0	1.4	3.50	38.0		0.1
MC-1	01/01/84 0900		pH @ 23 C	8.4	340.0	2010.00	2.10	130.0	0.80	14.0	1290.0	110.0	32.0	1.3	3.40	42.0		0.1
MC-1	01/01/84		DUPLICATE, pH@21C	8.4	350.0	2030.00	2.00	140.0	0.80	13.0	1290.0	110.0	32.0	1.4	3.50	35.0		0.1
MC-1	12/01/84 0900		pH @ 23 C	8.4	350.0	2010.00	2.10	130.0	0.90	14.0	1300.0	110.0	32.0	1.4	3.30	42.0		0.1
MC-1	15/01/84		pH @ 21 C	8.3	350.0	2030.00	2.00	140.0	0.80	14.0	1310.0	110.0	33.0	1.4	3.50	36.0		0.1
MC-1	22/01/84 0900		pH @ 23 C	8.4	350.0	2020.00	2.10	130.0	0.80	14.0	1310.0	110.0	31.0	1.3	3.30	41.0		0.1
MC-1	22/01/84		DUPLICATE, pH @ 21 C	8.4	350.0	2020.00	2.00	140.0	0.90	14.0	1310.0	110.0	33.0	1.3	3.50	36.0		0.1
MC-1	29/01/84 0900		pH @ 23 C	8.4	360.0	2010.00	2.10	130.0	0.90	15.0	1290.0	110.0	31.0	1.3	3.30	42.0		0.1
MC-1	29/01/84		DUPLICATE, pH @ 21 C	8.2	310.0	2010.00	2.00	140.0	0.90	13.0	1230.0	91.0	46.0	1.0	3.20	36.0		0.2

MEAGER CREEK GEOTHERMAL PROJECT

GEOCHEMICAL ANALYSIS RESULTS

DATE: MAY85
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Location	Sample Number	Parameter	Comments	pH	Silica	Cl	F	SO	As	θ	Na	K	Ca	Mg	Li	Total Carbonate as CO ₃	Hg	NH
MC-1	15/07/84			8.6	360.0	2140.00	2.00	130.0	1.00	15.0	1370.0	120.0	37.0	0.8	3.40	21.0		0.2
MC-1	25/07/84			8.6	360.0	2160.00	2.20	130.0	1.00	15.0	1370.0	120.0	35.0	0.8	3.40	18.0		0.1
MC-1	31/07/84			8.4	360.0	2150.00	2.10	130.0	1.00	15.0	1360.0	120.0	38.0	0.8	3.40	29.0		0.2
MC-1	09/08/84			8.4	360.0	2150.00	2.20	130.0	1.00	15.0	1380.0	120.0	30.0	0.8	3.40	28.0		0.1
MC-1	15/08/84		pH @ 22 C	8.4	370.0	2140.00	2.30	120.0	1.00	15.0	1370.0	120.0	38.0	0.9	3.40	26.0		0.2
MC-1	23/08/84			8.4	370.0	2150.00	2.30	120.0	0.90	15.0	1370.0	120.0	39.0	0.9	3.50	36.0		0.1
MC-1	31/08/84			8.4	360.0	2150.00	2.30	120.0	1.00	16.0	1370.0	130.0	37.0	0.9	3.50	36.0		0.1
MC-1	06/09/84			8.4	370.0	2140.00	2.30	120.0	0.90	15.0	1360.0	120.0	38.0	0.9	3.50	36.0		-1
MC-1	13/09/84			8.6	370.0	2140.00	2.30	120.0	0.90	15.0	1350.0	120.0	37.0	0.8	3.50	26.0		-1
MC-1	20/09/84			8.4	370.0	2140.00	2.30	120.0	1.00	15.0	1360.0	120.0	38.0	0.8	3.50	34.0		-1
MC-1	28/09/84			8.4	370.0	2140.00	2.30	120.0	0.90	15.0	1380.0	130.0	37.0	0.8	3.50	35.0		-1
MC-1	04/10/84			8.4	360.0	2140.00	2.30	120.0	0.99	14.0	1350.0	130.0	37.0	0.9	3.50	35.0		-1

MEAGER CREEK GEOTHERMAL PROJECT

WELL MC-3 GEOCHEMICAL ANALYSIS RESULTS

DATE: 15 JUN 84

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Sample Number	Comments	pH	Silica	Cl	F	SO ₄	As	B	Na	K	Ca	Mg	Li	Total Carbonate as CO ₂	NH ₄
15/10/82 1700			170.0	770.00					590.0	44.0	26.0				
16/10/82 1900		9.1	340.0	850.00	1.70	420.0	0.06	6.0	770.0	52.0	32.0	0.8	1.70	101.0	<.5
16/10/82 2100		8.8	300.0	740.00	1.20	350.0	<.05	4.0	660.0	44.0	15.0	0.7	1.50	107.0	<.5
16/10/82 1000			300.0	820.00					750.0	55.0	24.0				
19/10/82 2000			250.0	1370.00					1060.0	76.0	41.0				
20/10/82 1600		9.6	450.0	1360.00	2.60	590.0	0.26	10.4	1100.0	78.0	106.0	2.7	2.40	39.0	<.5
20/10/82 1800			270.0	1430.00					1000.0	84.0	32.0				
21/10/82 1900		8.5	260.0	470.00	1.20	400.0	0.30	9.6	1130.0	79.0	26.0	2.9	2.60	114.0	<.5
21/10/82 2400			340.0	1000.00					930.0	69.0	25.0				
21/10/82 1400			320.0	900.00					840.0	63.0	52.0				
25/10/82 2000	pH @ 21C	9.3	240.0	250.00	0.70	370.0	<.05	1.6	290.0	27.0	50.0	1.9	0.70	60.0	<.5
26/10/82 0400	pH @ 20.9C	8.4	290.0	450.00	1.00	390.0	<.05	3.3	450.0	37.0	26.0	1.0	1.00	87.0	<.5
26/10/82 2000		9.3	380.0	900.00	1.00	550.0	0.12	6.1	810.0	61.0	110.0	2.3	1.70	91.0	<.5
26/10/82 1200			290.0	674.00					620.0	46.0	25.0				
27/10/82 0900	pH @ 21C	8.7	320.0	750.00	1.20	390.0	0.06	5.1	630.0	51.0	29.0	2.4	1.40	111.0	<.5
27/10/82 2000			240.0	1270.00					1000.0	64.0	40.0				
28/10/82 1000	pH @ 21.2C	9.1	290.0	960.00	1.20	390.0	0.13	7.1	800.0	59.0	12.0	0.9	1.70	61.0	<.5
02/11/82 1400	pH @ 21.3C	9.0	320.0	950.00	1.30	350.0	0.16	6.7	770.0	57.0	29.0	1.6	1.00	101.0	<.5
02/11/82 2200		8.6	330.0	960.00	1.40	390.0	0.14	7.3	800.0	58.0	25.0	2.2	1.90	112.0	<.5
09/11/82 1200		8.9	340.0	1330.00	1.30	340.0	0.42	8.9	960.0	70.0	19.0	1.4	2.30	107.0	<.5
09/11/82 2000		9.0	280.0	1270.00	1.70	390.0	0.40	9.3	970.0	66.0	29.0	1.9	2.30	90.0	<.5
09/11/82 1600			320.0	1240.00					970.0	69.0	16.0				
11/11/82 1430	pH @ 21.3C	8.9	300.0	1280.00	1.40	350.0	0.33	9.9	970.0	71.0	13.0	0.8	2.30	120.0	<.5
11/11/82 1834		9.0	240.0	1370.00	1.90	410.0	0.43	9.7	1010.0	71.0	35.0	1.3	2.40	71.0	<.5
11/11/82 1240			290.0	1440.00					1100.0	76.0	17.0				
11/11/82 1634			320.0	1210.00					970.0	60.0	12.0				

NOTES: *(<) designates below detection limit

All values in ppm (eq/l)

Analysis by B.C. Hydro - Surrey Research Lab

MEAGER CREEK GEOTHERMAL PROJECT

WELL MC-2 GEOCHEMICAL ANALYSIS RESULTS

DATE: 15 JUN 84

PAGE: 1 of 1

Sample Number	Comments	pH	Silica	Cl	F	SO ₄	As	B	Na	K	Ca	Mg	Li	Total Carbonate as CO ₂	NH ₄
02/06/82				970.00											
03/06/82	unpreserved		230.0					7.8	720.0	74.0	28.0	4.2	2.30		
03/06/82	pH @ 21.4C	8.5	240.0	999.00	0.80	290.0	0.05	5.6	740.0	72.0	33.0	4.3	2.30	106.0	<.5
06/06/82	pH @ 23C	8.5		950.00										106.0	
08/06/82	unpreserved		210.0					7.7	700.0	72.0	27.0	3.7	2.30		
08/06/82	pH @ 23.6C	8.3		950.00										109.0	
21/10/82 2400			170.0	720.00					520.0	53.0	29.0				
22/10/82 0000		8.8	260.0	580.00	0.30	180.0	0.26	3.1	400.0	28.0	50.0	1.5	1.20	30.0	<.5
23/10/82 1000		8.6	430.0	1070.00	1.50	160.0	0.23	6.8	700.0	50.0	50.0	1.7	2.00	42.0	<.5
23/10/82 0200			340.0	870.00					580.0	49.0	810.0				
23/10/82 2400			430.0	1220.00					77.0	73.0	50.0				
24/10/82 1400	pH @ 20.6C	2.4	440.0	1340.00	1.50	160.0	0.17	9.4	820.0	77.0	55.0	1.9	2.30	11.0	<.5
25/10/82 0600	pH @ 20.8C	8.7	470.0	1490.00	1.60	150.0	0.47	10.5	950.0	93.0	49.0	0.6	2.60	32.0	<.5
25/10/82 0200			480.0	1390.00					890.0	84.0	56.0				
13/11/82 1000	pH @ 21.3C	8.3	270.0	1020.00	1.50	180.0	0.58	12.7	1160.0	92.0	130.0	6.6	3.10	41.0	<.5
13/11/82 1145		7.9	240.0	7100.00	2.30	960.0	0.22	20.1	2120.0	200.0	450.0	6.5	6.40	56.0	1.7
13/11/82 1400		9.1	320.0	3010.00	2.60	420.0	0.95	19.9	2010.0	180.0	140.0	6.3	5.20	31.0	<.5
13/11/82 1600		8.5	410.0	1760.00	1.80	160.0	0.75	12.8	1110.0	92.0	100.0	9.1	3.00	42.0	<.5
13/11/82 1800		8.5	430.0	1900.00	2.20	190.0	0.77	12.9	1190.0	104.0	180.0	17.0	13.20	25.0	<.5
13/11/82 1900		7.0	130.0	0300.00	7.20	1400.0	0.60	52.0	5250.0	450.0	760.0	2.2	15.00	50.0	<.5

NOTES: *C* designates below detection limit

All values in ppm (eq/l)

Analysis by B.C. Hydro - Surrey Research Lab

MEAGER CREEK GEOTHERMAL PROJECT

WELL MC-3 GEOCHEMICAL ANALYSIS RESULTS

DATE: 15 JUN 84

PAGE: 1 of 1

Sample Number	Comments	pH	Silica	Cl	F	SO ₄	As	B	Na	K	Ca	Mg	Li	Total Carbonate as CO ₂	NH ₄
15/10/82 1700			170.0	770.00					590.0	44.0	26.0				
16/10/82 1900		9.1	340.0	850.00	1.70	420.0	0.06	6.0	770.0	52.0	32.0	0.8	1.70	101.0	<.5
16/10/82 0100		8.8	300.0	740.00	1.20	350.0	<.05	4.0	660.0	44.0	15.0	0.7	1.50	107.0	<.5
16/10/82 1000			300.0	920.00					750.0	55.0	24.0				
19/10/82 2000			250.0	1370.00					1060.0	76.0	41.0				
20/10/82 1600		9.6	450.0	1360.00	2.60	590.0	0.26	10.4	1100.0	78.0	106.0	2.7	2.40	39.0	<.5
20/10/82 1000			270.0	1430.00					1090.0	84.0	32.0				
21/10/82 1900		8.5	260.0	470.00	1.20	400.0	0.30	9.6	1130.0	79.0	26.0	2.9	2.60	114.0	<.5
21/10/82 2400			340.0	1090.00					930.0	69.0	25.0				
21/10/82 1400			320.0	980.00					840.0	63.0	52.0				
25/10/82 2000	pH @ 21C	8.3	240.0	250.00	0.70	370.0	<.05	1.6	290.0	27.0	50.0	1.9	0.70	60.0	<.5
26/10/82 0400	pH @ 20.9C	8.4	290.0	450.00	1.00	390.0	<.05	3.3	450.0	37.0	26.0	1.8	1.00	87.0	<.5
26/10/82 2000		9.3	300.0	900.00	1.00	550.0	0.12	6.1	810.0	61.0	118.0	2.3	1.70	91.0	<.5
26/10/82 1200			290.0	674.00					620.0	46.0	25.0				
27/10/82 0900	pH @ 21C	8.7	320.0	750.00	1.20	390.0	0.06	5.1	630.0	51.0	28.0	2.4	1.40	111.0	<.5
27/10/82 2000			240.0	1270.00					1000.0	64.0	40.0				
28/10/82 1000	pH @ 21.2C	9.1	290.0	960.00	1.20	390.0	0.13	7.1	800.0	59.0	12.0	0.9	1.70	61.0	<.5
02/11/82 1400	pH @ 21.3C	8.8	320.0	950.00	1.30	360.0	0.16	6.7	770.0	57.0	20.0	1.6	1.00	101.0	<.5
02/11/82 2200		8.6	330.0	960.00	1.40	390.0	0.14	7.3	800.0	58.0	25.0	2.2	1.90	112.0	<.5
09/11/82 1200		8.8	340.0	1330.00	1.30	340.0	0.42	8.9	960.0	70.0	19.0	1.4	2.30	107.0	<.5
09/11/82 2000		9.0	280.0	1270.00	1.70	390.0	0.40	9.3	970.0	66.0	29.0	1.9	2.30	90.0	<.5
09/11/82 1600			320.0	1240.00					970.0	69.0	16.0				
11/11/82 1436	pH @ 21.3C	8.9	300.0	1200.00	1.40	350.0	0.33	9.9	970.0	71.0	13.0	0.8	2.30	120.0	<.5
11/11/82 1034		9.0	240.0	1370.00	1.90	410.0	0.43	9.7	1010.0	71.0	35.0	1.3	2.40	71.0	<.5
11/11/82 1240			290.0	1440.00					1100.0	76.0	17.0				
11/11/82 1634			320.0	1210.00					970.0	68.0	12.0				

NOTES: *(<) designates below detection limit

All values in ppm (mg/l)

Analysis by B.C. Hydro - Surrey Research Lab

MEAGER CREEK GEOTHERMAL PROJECT

WELL MC-2 GEOCHEMICAL ANALYSIS RESULTS

DATE: 15 JUN 84

PAGE: 1 of 1

Sample Number	Comments	pH	Silica	Cl	F	SO ₄	As	B	Na	K	Ca	Mg	Li	Total Carbonate as CO ₂	NH ₄
02/06/82				970.00											
03/06/82	unpreserved		230.0					7.0	720.0	74.0	20.0	4.2	2.30		
03/06/82	pH @ 21.4C	8.5	240.0	990.00	0.80	200.0	<.05	5.6	740.0	72.0	33.0	4.3	2.30	100.0	<.5
06/06/82	pH @ 23C	8.5		960.00										100.0	
08/06/82	unpreserved		210.0					7.7	700.0	72.0	27.0	3.7	2.30		
08/06/82	pH @ 23.6C	8.3		960.00										100.0	
21/10/82 2400			170.0	720.00					520.0	53.0	29.0				
22/10/82 0800		8.8	260.0	580.00	0.80	180.0	0.26	3.1	400.0	28.0	50.0	1.5	1.20	30.0	<.5
23/10/82 1000		8.6	430.0	1070.00	1.50	160.0	0.23	6.8	700.0	58.0	50.0	1.7	2.00	42.0	<.5
23/10/82 0200			340.0	070.00					500.0	49.0	010.0				
23/10/82 2400			430.0	1220.00					77.0	73.0	50.0				
24/10/82 1400	pH @ 20.6C	2.4	440.0	1340.00	1.50	160.0	0.17	9.4	020.0	77.0	55.0	1.0	2.30	11.0	<.5
25/10/82 0600	pH @ 20.0C	8.7	470.0	1400.00	1.60	150.0	0.47	10.5	950.0	93.0	49.0	0.6	2.60	32.0	<.5
25/10/82 0200			400.0	1390.00					090.0	84.0	56.0				
13/11/82 1000	pH @ 21.3C	8.3	270.0	1020.00	1.50	100.0	0.50	12.7	1160.0	92.0	130.0	6.6	3.10	41.0	<.5
13/11/82 1145		7.0	240.0	7100.00	2.30	960.0	0.22	20.1	2120.0	200.0	450.0	6.5	6.40	56.0	1.9
13/11/82 1400		9.1	320.0	3010.00	2.60	420.0	0.95	19.9	2010.0	100.0	140.0	6.3	5.20	31.0	<.5
13/11/82 1600		8.5	410.0	1760.00	1.80	160.0	0.75	12.0	1110.0	92.0	100.0	9.1	3.00	42.0	<.5
13/11/82 1800		8.5	430.0	1900.00	2.20	190.0	0.77	12.9	1190.0	104.0	100.0	17.0	13.20	25.0	<.5
13/11/82 1900		7.0	130.0	0300.00	7.20	1400.0	0.60	52.0	5250.0	450.0	760.0	2.2	15.00	50.0	<.5

NOTES: '*' designates below detection limit

All values in ppm (eq/l)

Analysis by B.C. Hydro - Surrey Research Lab

Appendix D

List and Content of Computer Data Diskettes

Majority of field data is stored on the floppy diskettes using IBM PC computer. The diskettes also include a variety of programs designed as an evaluation tool.

NOTE: Diskette P - Pressure Data
T - Temperature Data
C - Chemistry Data
S - Slimhole Exploration Data
IN - Invoice and Accounting Data
F - Various Programs
D - Various Database Programs
G - Various Geochemical Programs
ST - Analytical Programs
PST- Turbine Testing Data
TXT- Reporting Text etc.

DISKETTE - P1

Volume in drive A has no label

Directory of A:±

COMMAND	COM	17792	10-20-83	12:00p
PRESSHDR	DBF	7680	3-30-84	10:32a
PRESDATA	FRM	2048	3-03-83	12:31p
TESTMON	DBF	54784	10-17-84	11:14a
PRESTEMP	DBF	7680	3-02-83	10:13a
HEADER	FRM	1536	2-25-82	3:56p
1KP-1	DBF	4096	8-24-83	10:57a
1KP-2	DBF	5120	8-24-83	10:30a
1KP-3	DBF	2048	8-24-83	10:31a
1KP-4	DBF	1024	8-24-83	10:31a
1KP-5	DBF	1536	8-24-83	10:32a
1KP-6	DBF	1536	8-24-83	10:32a
1KP-7	DBF	1536	8-24-83	10:33a
1KP-8	DBF	1536	8-24-83	10:34a
1KP-9	DBF	1536	8-24-83	10:34a
1KP-10	DBF	1536	8-24-83	10:35a
PWELSUR	NDX	2560	3-10-83	10:50a
2KP-1	DBF	2048	8-24-83	11:23a
2KP-2	DBF	2048	8-24-83	11:24a
2KP-4	DBF	2560	8-24-83	11:27a
2KP-3	DBF	2560	8-24-83	11:26a
2KP-5	DBF	2560	8-24-83	11:28a
2KP-6	DBF	2560	8-24-83	11:30a
2KP-7	DBF	2048	8-24-83	11:31a
2KP-8	DBF	2560	8-24-83	11:32a
2KP-9	DBF	2560	8-24-83	11:33a
2KP-10	DBF	2560	8-24-83	11:35a
2KP-11	DBF	2560	8-24-83	11:36a
2KP-12	DBF	2048	3-30-84	10:36a
2KP-14	DBF	2048	8-24-83	11:38a
2KP-17	DBF	1536	8-24-83	11:39a
2KP-18	DBF	1536	3-29-84	3:43p
2KP-19	DBF	1536	3-29-84	4:35p
3KP-1	DBF	1536	3-29-84	5:15p
3KP-4	DBF	1536	8-24-83	11:44a
3KP-6	DBF	1536	3-30-84	10:33a
1KP-12	DBF	1536	8-24-83	11:05a
1KP-13	DBF	1536	8-24-83	11:06a
1KP-15	DBF	1536	3-28-84	4:50p
1KP-16	DBF	1536	3-28-84	5:16p
1KP-17	DBF	2560	3-28-84	5:17p
1KP-18	DBF	2048	3-29-84	5:21p
1KP-19	DBF	2048	3-30-84	11:16a
1KP-20	DBF	3072	8-24-83	11:11a
1KP-23	DBF	1536	8-24-83	11:12a
1KP-24	DBF	1536	8-24-83	11:12a
1KP-26	DBF	2048	8-24-83	11:13a
DSDMC-1	DBF	5632	7-04-83	10:34a
DSDMC-3	DBF	6656	7-06-83	3:23p

DISKETTE - P1

DSDMC-2	DBF	6144	7-05-83	12:47p
TM	DAT	6656	6-11-84	2:41p
DPTH3	PRG	1723	4-12-84	3:51p
PDATA	CMD	2027	3-30-84	10:30a
WH2FLOW	BAS	1152	9-27-84	4:39p
PRESRUN	CMD	3584	3-28-84	4:13p
PRESSURE		13824	3-30-84	10:29a
MC1PRFLO	BAK	1536	7-09-84	9:38a
MC1PRFLO	FRM	1024	7-09-84	9:40a
PRESNOTE	TXT	657	3-29-85	2:14p
59 File(s)		91136 bytes free		

A>

DISKETTE - T1

dir

Volume in drive A has no label
Directory of A:±

COMMAND	COM	17792	10-20-83	12:00p
MC1_DATA	<DIR>		3-27-85	3:43p
MC2_DATA	<DIR>		3-27-85	3:43p
MC3_DATA	<DIR>		3-27-85	3:44p
DSDMC-1	DBF	5632	7-04-83	10:34a
DSDMC-3	DBF	6656	7-06-83	3:23p
DSDMC-2	DBF	6144	7-05-83	12:47p
VTVCONV	PRG	2437	4-12-84	4:06p
TEMPNOTE	TXT	1030	3-29-85	10:50a
TEMP	DBF	19456	5-31-85	7:11a
10 File(s)			23552 bytes free	

A>

DISKETTE - T2

dir

Volume in drive A has no label
Directory of A:±

COMMAND	COM	4959	5-07-82	12:00p
TEMPHDR	DBF	19456	3-28-85	10:28a
2KT-64	DBF	2560	12-01-83	3:40p
1KT-1	DBF	1536	8-23-83	10:54a
1KT-2	DBF	1536	8-23-83	10:54a
1KT-3	DBF	1536	8-23-83	10:54a
1KT-4	DBF	1536	8-23-83	10:55a
1KT-6	DBF	2048	8-23-83	10:57a
1KT-7	DBF	1024	8-23-83	10:57a
1KT-8	DBF	1536	8-23-83	10:58a
1KT-9	DBF	1536	8-23-83	10:58a
1KT-10	DBF	1536	8-23-83	10:59a
DSDMC-1	DBF	5632	7-04-83	10:34a
VTVCONV	PRG	2437	4-12-84	4:06p
DSDMC-3	DBF	6656	7-06-83	3:23p
DSDMC-2	DBF	6144	7-05-83	12:47p
1KT-11	DBF	1536	8-23-83	11:00a
1KT-12	DBF	1536	8-23-83	11:00a
1KT-13	DBF	1536	8-23-83	11:01a
1KT-15	DBF	1536	8-23-83	11:02a
1KT-16	DBF	1024	8-23-83	11:02a
1KT-17	DBF	1536	8-23-83	11:03a
1KT-19	DBF	1536	8-23-83	11:06a
1KT-20	DBF	1024	8-23-83	11:06a
1KT-21	DBF	1536	8-23-83	11:07a
1KT-22	DBF	1536	8-23-83	11:07a
1KT-24	DBF	1024	8-23-83	11:09a
1KT-25	DBF	1536	8-23-83	11:10a
1KT-26	DBF	1536	8-23-83	11:10a
1KT-27	DBF	1536	8-23-83	11:11a
1KT-28	DBF	1536	8-23-83	11:11a
1ETL-29	DBF	1536	8-23-83	11:16a
1KT-30	DBF	1024	8-23-83	11:12a
1KT-31	DBF	1536	8-23-83	11:12a
2KT-1	DBF	1024	8-23-83	3:16p
2KT-2	DBF	1536	8-23-83	3:17p
2KT-3	DBF	1024	8-23-83	3:18p
2KT-4	DBF	1536	8-23-83	3:18p
2KT-5	DBF	1024	8-23-83	3:19p
2KT-6	DBF	1024	8-23-83	3:19p
2KT-7	DBF	1024	8-23-83	3:20p
2MC-8	DBF	1536	8-18-83	10:23a
2KT-9	DBF	1024	8-23-83	3:28p
2KT-10	DBF	1536	8-23-83	3:29p
2KT-11	DBF	1024	8-23-83	3:30p
2KT-12	DBF	1536	8-23-83	3:30p
2KT-13	DBF	1536	8-23-83	3:31p
2KT-14	DBF	1536	8-23-83	3:32p
2KT-15	DBF	1024	8-23-83	3:32p
2KT-16	DBF	1536	8-23-83	3:33p
2KT-17	DBF	1024	8-23-83	3:34p
2KT-18	DBF	1536	8-23-83	3:35p
2KT-19	DBF	2048	8-23-83	3:36p
2KT-20	DBF	1536	8-23-83	3:37p
2KT-21	DBF	2048	8-23-83	3:37p

DISKETTE - T2

2KT-22	DBF	1536	8-23-83	3:38p
2KT-23	DBF	1536	8-23-83	3:39p
2KT-24	DBF	1536	8-23-83	3:40p
2KT-8	DBF	1536	8-23-83	3:28p
2MCCULL	DBF	2048	8-23-83	4:08p
DPTH3	PRG	1723	4-12-84	3:51p
2KT-25	DBF	1536	8-23-83	3:41p
2KT-26	DBF	1024	8-23-83	3:41p
2KT-27	DBF	1536	8-23-83	3:42p
2KT-28	DBF	1536	8-23-83	3:43p
2KT-29	DBF	1024	8-23-83	3:43p
2KT-30	DBF	1024	8-23-83	3:43p
2KT-31	DBF	1536	8-23-83	3:44p
2KT-32	DBF	1536	8-23-83	3:44p
2KT-33	DBF	2048	8-23-83	3:44p
2KT-34	DBF	1536	8-23-83	3:45p
2KT-36	DBF	1536	8-23-83	3:46p
2KT-37	DBF	1536	8-23-83	3:46p
2KT-38	DBF	1536	8-23-83	3:46p
2KT-39	DBF	1536	8-23-83	3:46p
2KT-40	DBF	1024	8-23-83	3:46p
2KT-41	DBF	1024	8-23-83	3:47p
2KT-42	DBF	1536	8-23-83	3:47p
2KT-43	DBF	1024	8-23-83	3:47p
2KT-45	DBF	1024	8-23-83	3:48p
2KT-46	DBF	1024	8-23-83	3:48p
2KT-47	DBF	1536	8-23-83	3:49p
2KT-48	DBF	1536	8-23-83	3:50p
2KT-49	DBF	1536	8-23-83	3:51p
2KT-51	DBF	1536	8-23-83	3:51p
2KT-53	DBF	1024	8-23-83	3:52p
2KT-54	DBF	1024	8-23-83	3:52p
2ETL-56	DBF	2560	8-23-83	3:59p
2KT-57	DBF	1024	8-23-83	3:53p
2KT-58	DBF	1024	8-23-83	3:54p
2KT-59	DBF	1024	8-23-83	3:54p
2KT-61	DBF	1536	8-23-83	3:57p
TWELSUR	NDX	4096	3-30-84	3:39p
TDATA	CMD	2244	3-30-84	2:12p
TEMPRUN	CMD	2526	3-30-84	3:21p
2KT-60	DBF	1536	4-02-84	1:50p

96 File(s) 103424 bytes free

A>

DISKETTE - T3

dir

Volume in drive A has no label

Directory of A:±

COMMAND	COM	4959	5-07-82	12:00p
3KT-1	DBF	1024	4-02-84	2:28p
3KT-2	DBF	1536	4-02-84	2:30p
3KT-4	DBF	1536	4-02-84	4:59p
3KT-5	DBF	1024	4-02-84	5:00p
3KT-6	DBF	1024	4-02-84	5:01p
3KT-7	DBF	1024	4-02-84	5:03p
3KT-8	DBF	1536	4-02-84	5:04p
3KT-9	DBF	1024	4-02-84	5:06p
3KT-10	DBF	1024	4-02-84	5:06p
3KT-11	DBF	1536	4-02-84	5:08p
3KT-12	DBF	1536	4-02-84	5:09p
3KT-13	DBF	2048	4-02-84	5:11p
3KT-14	DBF	2048	4-02-84	5:12p
DPTH3	PRG	1723	4-12-84	3:51p
3KT-17	DBF	1024	4-02-84	5:24p
3KT-18	DBF	1024	4-02-84	5:25p
3KT-19	DBF	1536	4-02-84	5:27p
3ETL-20	DBF	2560	4-02-84	5:29p
3KT-22	DBF	1024	4-04-84	11:36a
3KT-21	DBF	1024	4-02-84	5:31p
3ETL-23	DBF	1536	4-04-84	11:38a
DSDMC-1	DBF	7168	11-28-83	2:28p
DSDMC-3	DBF	8192	12-02-83	3:40p
DSDMC-2	DBF	7680	12-01-83	11:57a
MENU	CMD	2048	3-08-83	2:06p
3KT-36	DBF	2560	5-08-84	11:30a
3KT-24	DBF	1024	4-04-84	11:39a
3KT-25	DBF	1536	4-04-84	11:40a
3KT-26	DBF	1536	4-04-84	11:42a
3KT-27	DBF	2560	4-04-84	11:44a
3KT-28	DBF	1536	4-04-84	11:45a
VTVCONV	PRG	2437	4-12-84	4:06p
1KT-35	DBF	1536	7-09-84	3:05p
1-34MD	DAT	1536	11-30-83	10:22a
1KT-33	DBF	2048	7-05-84	9:07a
MC11500	DAT	512	7-26-84	10:51a
2KT-62	DBF	2560	7-05-84	9:24a
2KT-63	DBF	2560	7-05-84	9:26a
TVDCONV	PRG	1582	4-02-84	2:10p
3KT-29	DBF	1536	7-04-84	4:21p
3KT-30	DBF	2048	4-04-84	11:48a
3KT-31	DBF	2560	7-04-84	4:27p
3KT-32	DBF	2560	4-04-84	11:52a
3KT-33	DBF	2048	4-04-84	11:54a
1KT-32	DBF	1536	7-05-84	8:39a
264MD	DAT	512	12-01-83	3:42p
TEMPOUT	PRG	3072	7-05-84	9:30a
1KT-34	DBF	7168	7-05-84	9:21a
1-34TVD	DAT	1832	11-30-83	10:31a
2ETL-56	DBF	2560	8-23-83	3:59p
2KT-64	DBF	2560	12-01-83	3:40p
264VD	DAT	512	12-01-83	3:43p
264TVD	DAT	512	12-01-83	3:44p
3KT-34	DBF	2560	4-04-84	11:57a

DISKETTE - T3

3ETL-15	DBF	3072	4-02-84	5:16p
3ETL-16	DBF	2560	4-02-84	5:19p
3KT-35	DBF	2560	4-04-84	11:59a
TPLOT	BAS	3712	9-14-83	12:28p
3MCCULL1	DBF	2560	4-04-84	12:02p
3-34MD	DAT	512	12-06-83	3:07p
3-34VD	DAT	1024	12-06-83	3:07p
3-34TVD	DAT	1024	12-06-83	3:08p
3MCCULL2	DBF	2560	4-04-84	12:05p
TEMPHDR	DBF	19456	3-28-85	10:28a
MC1TEMP	DAT	644	7-26-84	11:07a
TEMPRUN	CMD	2526	3-30-84	3:21p
TWELSUR	NDX	4096	3-30-84	3:39p
TDATA	CMD	2240	4-02-84	11:29a
1-34OUT	PRG	3584	7-06-84	9:26a
MC1TEMP2	DAT	393	7-26-84	11:32a
2KT-65	DBF	2560	3-01-85	11:26a
1KT-36	DBF	1536	3-28-85	10:45a
3KT-37	DBF	2560	3-28-85	10:48a

74 File(s) 110592 bytes free

A>

DISKETTE - C1

Volume in drive A has no label
Directory of A:±

GRAFDFLT	PRM	128	12-24-84	2:09p
CHEMFRM1	FRM	1536	3-20-84	3:02p
MC-1	DBF	26112	1-18-85	10:56a
CHEMDATA	DBF	36352	3-12-84	3:07p
MC1CHRON	NDX	3584	1-18-85	10:54a
TEMPOUT	PRG	3257	1-18-85	11:12a
GEOTEMP	BAS	1166	2-08-85	2:13p
GEOTEMP2	BAS	1166	2-08-85	2:13p
CHEMOUT	CMD	4096	6-03-83	10:47a
CHEMPLOT	BAS	4224	4-12-84	11:45a
VARIGRAM	BAS	4224	12-07-83	3:45p
MC1TOPO	DBF	1536	12-02-83	11:09a
MC2TOPO	DBF	1536	12-02-83	11:12a
1BITREC	DBF	3584	10-03-83	11:44a
3BITREC	DBF	3584	10-04-83	11:54a
2BITREC	DBF	3072	10-04-83	1:49p
DSDMC-1	DBF	7168	11-28-83	2:28p
DPTH3	PRG	2560	8-24-83	10:48a
DSDMC-2	DBF	7680	12-01-83	11:57a
DSDMC-3	DBF	8192	12-02-83	3:40p
MC3TOPO	DBF	1536	12-02-83	3:19p
MC-2	DBF	4096	3-13-84	4:08p
MC-3	DBF	5120	3-13-84	4:03p
CHEMTEST	FRM	1536	3-20-84	11:46a
24 File(s)		173056 bytes free		

A>

DISKETTE - S1

Volume in drive A has no label
Directory of A:±

COMMAND	COM	4959	5-07-82	12:00p
SLIMHDR	DBF	6144	8-29-83	10:46a
SLIMDATA	DBF	11264	8-29-83	11:32a
SLIMDIP	DBF	3072	8-29-83	2:21p
M1TEMP	DBF	2048	8-30-83	2:18p
M2TEMP	DBF	1024	8-30-83	2:27p
M3TEMP	DBF	1024	8-30-83	2:39p
M4TEMP	DBF	1024	8-30-83	2:49p
M5TEMP	DBF	3584	8-30-83	3:19p
M6TEMP	DBF	3584	8-30-83	4:01p
M8TEMP	DBF	7680	8-31-83	2:48p
M7TEMP	DBF	8192	8-31-83	11:26a
M9TEMP	DBF	11776	9-01-83	10:36a
M10TEMP	DBF	16384	9-01-83	2:33p
M11TEMP	DBF	6144	9-01-83	3:26p
M12TEMP	DBF	5632	9-01-83	4:15p
M13TEMP	DBF	5120	9-02-83	4:38p
M14TEMP	DBF	7680	9-06-83	10:11a
SLIMNOTE	TXT	690	3-29-85	11:18a
L1TEMP	DBF	5120	9-06-83	10:48a
L2TEMP	DBF	6656	9-06-83	4:15p
L3TEMP	DBF	8192	9-06-83	2:24p
L4TEMP	DBF	11264	9-06-83	4:08p
L5TEMP	DBF	5632	9-07-83	11:25a
L6TEMP	DBF	3584	9-07-83	11:47a
L7TEMP	DBF	1536	9-07-83	11:52a
L8TEMP	DBF	3584	9-07-83	12:13p
GRAFDFLT	PRM	128	11-10-83	10:46a
EMSEVEN	DAT	2048	9-13-83	3:41p
ELFOUR	DAT	1536	9-14-83	12:34p
EMFORTEN	DAT	1024	9-14-83	12:40p

31 File(s) 144384 bytes free

A>

DISKETTE - S2

Volume in drive A has no label
Directory of A:±

COMMAND	COM	4959	5-07-82	12:00p
SLIMHDR	DBF	6144	8-29-83	10:46a
SLIMDATA	DBF	11264	8-29-83	11:32a
SLIMDIP	DBF	3072	8-29-83	2:21p
M1TEMP	DBF	2048	8-30-83	2:18p
M2TEMP	DBF	1024	8-30-83	2:27p
M3TEMP	DBF	1024	8-30-83	2:39p
M4TEMP	DBF	1024	8-30-83	2:49p
M5TEMP	DBF	3584	8-30-83	3:19p
M6TEMP	DBF	3584	8-30-83	4:01p
M8TEMP	DBF	7680	8-31-83	2:48p
M7TEMP	DBF	8192	8-31-83	11:26a
M9TEMP	DBF	11776	9-01-83	10:36a
M10TEMP	DBF	16384	9-01-83	2:33p
M11TEMP	DBF	6144	9-01-83	3:26p
M12TEMP	DBF	5632	9-01-83	4:15p
M13TEMP	DBF	5120	9-02-83	4:38p
M14TEMP	DBF	7680	9-06-83	10:11a
14DATA	DBF	4608	9-02-83	4:41p
MOVER	BAK	1536	9-02-83	4:35p
MOVER	PRG	1536	9-02-83	4:39p
L1TEMP	DBF	5120	9-06-83	10:48a
L2TEMP	DBF	6656	9-06-83	4:15p
L3TEMP	DBF	8192	9-06-83	2:24p
L4TEMP	DBF	11264	9-06-83	4:08p
L5TEMP	DBF	5632	9-07-83	11:25a
L6TEMP	DBF	3584	9-07-83	11:47a
L7TEMP	DBF	1536	9-07-83	11:52a
L8TEMP	DBF	3584	9-07-83	12:13p

29 File(s) 146432 bytes free

A>

DISKETTE - IN1

Volume in drive A has no label
Directory of A:±

PENTER	CMD	1738	10-13-83	3:09p
DETOUT	CMD	4005	11-07-83	11:21a
INVACCT	NDX	4608	11-07-83	11:18a
INVSCAN	CMD	4096	2-07-85	11:39a
INVIND	NDX	10240	11-07-83	11:19a
SETUP2	BAT	248	7-18-83	1:12p
INVPO	NDX	8192	11-07-83	11:18a
PURPO	NDX	4608	10-12-83	3:30p
PURACCT	NDX	3072	10-12-83	3:31p
COMPOUT	CMD	9202	7-12-83	3:27p
INVSCAN2	CMD	8192	2-07-85	11:41a
COSTMENU	CMD	4554	7-12-83	4:21p
ACCOUNT	DBF	1536	3-19-84	3:15p
SUREM	MSG	678	7-15-83	1:58p
INVOICE	DBF	27648	1-23-85	3:01p
VERIDATE	CMD	2024	7-11-83	4:01p
COMPANY	DBF	16896	3-19-84	2:50p
INVINV	NDX	1024	4-22-83	1:24p
SCANFILE	CMD	1280	7-11-83	3:48p
COSTSTRU	PRG	1536	11-04-83	4:41p
COMPALFA	NDX	8192	3-19-84	2:46p
REVCOMM	CMD	2963	10-13-83	3:09p
POSCAN	CMD	5181	10-13-83	3:04p
PURCHIND	NDX	5632	10-12-83	3:31p
ACCTACCT	NDX	1024	8-15-83	3:17p
COMPIND	NDX	2048	3-19-84	2:46p
SUMMOUT	CMD	7168	11-07-83	4:25p
COMPANY	CMD	1316	7-11-83	3:57p
INVENTER	CMD	5343	7-13-83	3:12p
ACCENTER	CMD	3769	7-15-83	2:59p
CHANGEPO	CMD	5487	7-11-83	3:59p
DATCONV	CMD	994	7-11-83	4:02p
SETUP	BAT	560	7-15-83	2:04p
SETUP3	PRG	2131	10-12-83	11:38a
ACCTSCAN	CMD	3554	7-11-83	4:03p
WIDEPAPR	BAS	384	10-12-83	2:05p
NEWPO	CMD	11116	10-13-83	3:10p
WIDEPAPR	BAT	22	10-12-83	2:03p
INVSMRY	CMD	7168	10-11-83	1:55p
COSTFORM	FRM	1536	11-04-83	3:12p
PURCHASE	DBF	16384	3-19-84	2:52p
REVEST	CMD	2891	10-13-83	3:11p
LISTCOST	BAT	996	10-13-83	3:14p
CMPENTER	CMD	6947	2-06-85	5:10p
POSCAN2	CMD	5705	10-13-83	3:07p

45 File(s) 83968 bytes free

A>

DISKETTE - IN2

Volume in drive A has no label
Directory of A:±

COMMAND	COM	17792	10-20-83	12:00p
PENTER	CMD	1738	10-13-83	3:09p
DETOUT	CMD	4005	11-07-83	11:21a
INVPO	NDX	1024	2-27-85	2:00p
INVSCAN	CMD	4096	2-07-85	11:39a
INVACCT	NDX	1024	2-27-85	2:00p
SETUP2	BAT	248	7-18-83	1:12p
INVIND	NDX	1024	2-27-85	2:00p
INVINV	NDX	1024	1-31-85	3:51p
COMPOUT	CMD	9202	7-12-83	3:27p
INVSCAN2	CMD	8192	2-07-85	11:41a
COSTMENU	CMD	4554	7-12-83	4:21p
PURCHASE	DBF	1536	2-27-85	1:57p
SUREM	MSG	678	7-15-83	1:58p
PURCHIND	NDX	1024	1-29-85	5:43p
VERIDATE	CMD	2024	7-11-83	4:01p
PURACCT	NDX	1024	1-21-85	4:47p
PURPO	NDX	1024	1-29-85	5:42p
SCANFILE	CMD	1280	7-11-83	3:48p
COSTSTRU	PRG	1536	11-04-83	4:41p
ACCOUNT	DBF	1024	1-21-85	4:32p
REVCOMM	CMD	2963	10-13-83	3:09p
POSCAN	CMD	5181	10-13-83	3:04p
ACCTACCT	NDX	1024	1-21-85	4:32p
COMPANY	DBF	17408	1-22-85	10:29a
COMPIND	NDX	2048	1-21-85	12:07p
SUMMOUT	CMD	7168	11-07-83	4:25p
COMPANY	CMD	1316	7-11-83	3:57p
INVENTER	CMD	5343	7-13-83	3:12p
ACCENTER	CMD	3769	7-15-83	2:59p
CHANGEPO	CMD	5487	7-11-83	3:59p
DATCONV	CMD	994	7-11-83	4:02p
SETUP	BAT	560	7-15-83	2:04p
SETUP3	PRG	2131	10-12-83	11:38a
ACCTSCAN	CMD	3554	7-11-83	4:03p
WIDEPAPR	BAS	384	10-12-83	2:05p
NEWPO	CMD	11116	10-13-83	3:10p
WIDEPAPR	BAT	22	10-12-83	2:03p
INVSMRY	CMD	7168	10-11-83	1:55p
COSTFORM	FRM	1536	11-04-83	3:12p
COMPALFA	NDX	8192	1-22-85	10:15a
REVEST	CMD	2891	10-13-83	3:11p
LISTCOST	BAT	996	10-13-83	3:14p
CMPENTER	CMD	6947	2-06-85	5:10p
POSCAN2	CMD	5705	10-13-83	3:07p
COSTGRAF	BAT	246	1-22-85	11:15a
PARR		10752	1-23-85	3:10p
FINPLOT	BAK	2048	1-22-85	5:00p
FINPLOT	PRG	2560	1-22-85	5:02p
INVOICE	DBF	2560	2-27-85	2:00p
PARRAMT	BAK	4096	1-23-85	2:15p

51 File(s) 133120 bytes free

A>

DISKETTE - IN3

Volume in drive A has no label
Directory of A:±

COMMAND	COM	17792	10-20-83	12:00p
PENTER	CMD	1738	10-13-83	3:09p
DETOUT	CMD	4005	11-07-83	11:21a
INVPO	NDX	1024	1-30-85	11:36a
INVSCAN	CMD	4096	2-07-85	11:39a
INVACCT	NDX	1024	1-30-85	11:36a
SETUP2	BAT	248	7-18-83	1:12p
INVIND	NDX	1024	1-30-85	11:36a
COMPOUT	CMD	9202	7-12-83	3:27p
INVSCAN2	CMD	8192	2-07-85	11:41a
COSTMENU	CMD	4554	7-12-83	4:21p
ACCTACCT	NDX	1024	1-21-85	3:15p
SUREM	MSG	678	7-15-83	1:58p
PURCHASE	DBF	1536	1-30-85	11:13a
VERIDATE	CMD	2024	7-11-83	4:01p
COMPIND	NDX	2048	1-21-85	12:07p
PURCHIND	NDX	1024	1-30-85	11:12a
SCANFILE	CMD	1280	7-11-83	3:48p
COSTSTRU	PRG	1536	11-04-83	4:41p
PURACCT	NDX	1024	1-21-85	3:43p
REVCMM	CMD	2963	10-13-83	3:09p
POSCAN	CMD	5181	10-13-83	3:04p
PURPO	NDX	1024	1-30-85	11:12a
ACCOUNT	DBF	1024	1-21-85	3:16p
COMPANY	DBF	17408	1-21-85	3:41p
SUMMOUT	CMD	7168	11-07-83	4:25p
COMPANY	CMD	1316	7-11-83	3:57p
INVENTER	CMD	5343	7-13-83	3:12p
ACCENTER	CMD	3769	7-15-83	2:59p
CHANGEPO	CMD	5487	7-11-83	3:59p
DATCONV	CMD	994	7-11-83	4:02p
SETUP	BAT	560	7-15-83	2:04p
SETUP3	PRG	2131	10-12-83	11:38a
ACCTSCAN	CMD	3554	7-11-83	4:03p
WIDEPAPR	BAS	384	10-12-83	2:05p
NEWPO	CMD	11116	10-13-83	3:10p
WIDEPAPR	BAT	22	10-12-83	2:03p
INVSMRY	CMD	7168	10-11-83	1:55p
COSTFORM	FRM	1536	11-04-83	3:12p
COMPALFA	NDX	8192	1-21-85	12:07p
REVEST	CMD	2891	10-13-83	3:11p
LISTCOST	BAT	996	10-13-83	3:14p
CMPENTER	CMD	6947	2-06-85	5:10p
POSCAN2	CMD	5705	10-13-83	3:07p
INVOICE	DBF	2560	1-30-85	11:36a

45 File(s) 155648 bytes free

A>

DISKETTE - F1

Volume in drive A has no label
Directory of A:±

COMMAND	COM	4959	5-07-82	12:00p
EDLIN	COM	2392	5-07-82	12:00p
REMAIN	FOR	4839	11-22-83	10:50a
HEAT	DAT	453	11-16-83	3:15p
FORTWO		12800	3-28-85	11:45a
4		67584	11-22-83	2:37p
EDFOR	BAT	312	11-15-83	10:09a
SITEMP	EXE	47872	3-12-84	4:22p
INVERT	FOR	1943	11-17-83	4:03p
SITEMP	OBJ	10026	3-12-84	4:20p
SITEMP	FOR	5611	3-12-84	4:17p
MODEL	OBJ	1616	11-22-83	2:49p
INTRA	FOR	3478	11-17-83	10:39a
FORCL	BAT	776	2-04-82	
TEST	DAT	218	11-18-83	12:26p
FORCLG	BAT	222	11-16-83	1:45p
REMAIN	LST	9206	11-21-83	5:03p
FORC	BAT	140	11-17-83	11:11a
REGSUB	FOR	4617	11-22-83	2:41p
INVERT	OBJ	5610	11-17-83	4:05p
REGSUB	OBJ	16376	11-22-83	2:48p
INTRA	OBJ	6168	11-17-83	10:46a
MODEL	FOR	648	11-22-83	2:42p
MATRIX	DAT	94	11-18-83	11:46a
REMAIN	OBJ	7237	11-22-83	11:04a
TABLE	BAK	567	12-12-84	4:42p
TABLE	DAT	960	12-12-84	4:53p

27 File(s) 72704 bytes free

A>

DISKETTE - D1

Volume in drive A has no label
Directory of A:±

COMMAND	COM	17792	10-20-83	12:00p
DO	COM	23168	1-01-80	1:43a
DBASEMSG	COM	7936	1-01-80	12:04a
BASICA	COM	16768	5-07-82	12:00p
DBASEMAI	OVR	8192	7-05-82	
DBASEMSC	OVR	4096	7-05-82	
DBASEAPP	OVR	4608	7-12-82	
DBASEBRO	OVR	1792	7-12-82	
DBASEJOI	OVR	1280	7-12-82	
DBASERPG	OVR	4096	7-12-82	
DBASEMOD	OVR	3840	7-12-82	
DBASEUPD	OVR	1280	7-12-82	
DBASETTL	OVR	1280	7-12-82	
DBASESRT	OVR	2048	11-22-82	11:14a
PARR		10752	1-23-85	3:10p
PARRPLOT	BAS	2816	1-31-85	4:19p
PARRGRAF	BAT	113	1-28-85	2:13p
GRAPHICS	COM	789	10-20-83	12:00p
TEMP	PRG	2560	1-01-80	12:12a
TEMP	BAK	2560	1-01-80	12:09a
PARRSUM	BAK	415	1-24-85	3:30p
PARRSUM	DAT	1024	5-31-85	2:59p
PARRAMT	BAK	3129	1-28-85	1:31p
PARRAMT	PRG	3072	1-28-85	1:47p
PARRGRAF	BAK	108	1-28-85	2:12p

25 File(s) 203776 bytes free

A>

DISKETTE - D2

Volume in drive A has no label
Directory of A:±

COMMAND	COM	17792	10-20-83	12:00p
DO	COM	23168	1-01-80	1:43a
DBASEMAI	OVR	8192	7-05-82	
DBASEMSC	OVR	4096	7-05-82	
DBASEAPP	OVR	4608	7-12-82	
DBASEBRO	OVR	1792	7-12-82	
DBASEJOI	OVR	1280	7-12-82	
DBASERPG	OVR	4096	7-12-82	
DBASEMOD	OVR	3840	7-12-82	
DBASEUPD	OVR	1280	7-12-82	
DBASETTL	OVR	1280	7-12-82	
DBASESRT	OVR	2048	11-22-82	11:14a
DBASEMSG	COM	7936	1-01-80	12:04a
COSTMENU	CMD	4554	7-12-83	4:21p
MENU	CMD	1067	7-11-83	3:21p
BASICA	COM	16768	5-07-82	12:00p
WIDEPAPR	BAT	22	10-12-83	2:03p
WIDEPAPR	BAS	384	10-12-83	2:06p
QUIT_TO	BAK	3584	5-15-84	11:49a
TEMPVIEW	CMD	5632	3-30-84	3:56p
AUTOEXEC	BAT	69	5-20-83	9:00a
DOTEMP	BAT	11	5-11-84	5:59p
PRESVIEW	CMD	5120	3-28-84	5:05p
DO	QTO	11	5-11-84	5:59p
QUIT_TO	PRG	3584	5-15-84	11:55a
25 File(s)		204800 bytes free		

A>

DISKETTE - G1

Volume in drive A is GEOTHERMOM
Directory of A:±

COMMAND	COM	17792	10-20-83	12:00p
GEOTERM	EXE	60032	1-11-84	10:48a
TABLE	DAT	4160	1-08-85	11:07a
GTHRMOMS	BAS	1897	2-19-85	12:09p
GEOTHR	EXE	45568	10-11-84	10:00a
GEOTEMP2	BAS	1044	2-08-85	2:51p
6 File(s)		205824 bytes free		

A>

DISKETTE - G2

Volume in drive A has no label
Directory of A:±

COMMAND	COM	17792	10-20-83	12:00p
GEOTERM	EXE	60032	1-11-84	10:48a
MEAGER	DAT	597	1-11-84	10:22a
TEST	DAT	513	1-08-85	5:02p
FORTWO		41472	1-11-84	10:37a
TABLE	DAT	4160	1-08-85	11:07a
GEOTERM	FOR	8833	1-11-84	10:40a
TLUV	FOR	1705	1-09-85	10:51a
TLUV	OBJ	6844	1-09-85	10:59a
GEOINPUT	FOR	1166	1-08-85	4:00p
GEOINPUT	OBJ	4401	1-08-85	4:05p
GEOTERM	OBJ	12946	1-11-84	10:45a

12 File(s) 169984 bytes free

A>

DISKETTE - G3

Volume in drive A is FORTRAN_SRC
Directory of A:±

COMMAND	COM	17792	10-20-83	12:00p
SITEMP	FOR	5611	3-12-84	4:17p
GEOTHR	FOR	2923	10-11-84	9:52a
GEOTERM	FOR	8833	1-11-84	10:40a
TLUV	FOR	1705	1-09-85	10:51a
GEOINPUT	FOR	1166	1-08-85	4:00p
FORTWO		41472	1-11-84	10:37a

7 File(s) 257024 bytes free

A>

DISKETTE - ST1

Volume in drive A has no label
Directory of A:±

COMMAND	COM	17792	10-20-83	12:00p
BASIC	COM	16256	10-20-83	12:00p
ANOVA1	BAS	7936	1-17-84	10:16a
ANOVA1R	BAS	7936	1-17-84	10:22a
ANOVA2	BAS	8576	1-17-84	10:18a
ANOVA2R1	BAS	8832	1-17-84	10:19a
ANOVA2R2	BAS	9344	1-17-84	10:21a
ANOVA3	BAS	10240	1-17-84	10:23a
ANOVA3R1	BAS	10496	1-17-84	10:24a
ANOVA3R2	BAS	11264	1-12-84	10:24a
AUTOCO	BAS	7680	11-15-83	2:26p
BAYES	BAS	7424	10-21-83	9:10p
CHISQ	BAS	9728	11-14-83	3:31p
COMBOS	BAS	4608	12-15-83	2:31p
CONDIS1	BAS	7936	1-06-84	3:22p
CONDIS2	BAS	14592	1-26-84	3:30p
CONTAB	BAS	9088	12-13-83	11:36a
CONVERT	BAS	11008	2-13-84	11:45a
CORREL	BAS	8320	12-16-83	12:21p
CROSSCO	BAS	8192	11-15-83	2:32p
CROSSTAB	BAS	12160	2-02-84	9:50a
DESEASON	BAS	8023	11-09-83	3:20p
DISCDIS	BAS	12928	1-27-84	9:42a
DSTATS	BAS	10624	1-27-84	3:37p
FISHER	BAS	3584	11-14-83	1:41p
FORMOUT	BAS	11392	12-21-83	11:05a
FOURIER	BAS	8448	10-21-83	9:14p
FREHIST	BAS	13184	1-17-84	11:26a
FREQUICK	BAS	10880	1-17-84	11:30a
FRIEDMAN	BAS	6912	12-15-83	12:46p
SP	BAS	7808	1-26-84	3:36p
SPMENU	BAS	7141	2-20-84	11:30a

32 File(s) 16384 bytes free

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DISKETTE - ST2

Volume in drive A has no label
Directory of A:±

COMMAND	COM	17792	10-20-83	12:00p
BASIC	COM	16256	10-20-83	12:00p
SP	BAS	7808	1-26-84	3:36p
FUNGEN	BAS	12672	1-23-84	3:44p
FUNKEYS	BAS	2816	11-17-83	10:20a
GENMEAN	BAS	7424	10-21-83	9:15p
KENDALL	BAS	8192	11-14-83	2:42p
KOLSMIR	BAS	8832	12-16-83	12:16p
KRUSWALL	BAS	7552	2-27-84	11:06a
LAGDIF	BAS	7808	12-12-83	3:37p
MANNWHIT	BAS	6912	12-06-83	12:27p
MISSDAT	BAS	6656	10-21-83	9:16p
MLINREG	BAS	16128	2-27-84	10:22a
MTESTS	BAS	12288	11-18-83	1:06p
ONEVREG	BAS	11512	3-28-84	3:08p
PLOT	BAS	14720	1-13-84	11:03a
POLYREG	BAS	12544	2-10-84	9:51a
QPLOT	BAS	9092	2-20-84	11:29a
RANKOUT	BAS	6784	12-16-83	12:18p
RANUM	BAS	3968	12-13-83	5:25p
ROTATE	BAS	5888	11-17-83	1:33p
SELECT	BAS	15360	12-09-83	2:12p
SHUFFLE	BAS	3968	11-15-83	2:47p
SMOOTH	BAS	8192	12-30-83	11:23a
SORT	BAS	7808	11-16-83	2:17p
SPEARANK	BAS	6784	11-18-83	1:21p
SPEED	BAS	13362	1-10-84	3:37p
SPLICE	BAS	9216	1-26-84	4:12p
SPMENU	BAS	7141	2-20-84	11:30a
STDSCORE	BAS	7936	10-21-83	9:20p
TABOUT	BAS	11008	12-20-83	2:18p
WILCOSR	BAS	6656	11-18-83	12:37p

32 File(s) 27648 bytes free

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DISKETTE - ST3

Volume in drive A has no label
Directory of A:±

COMMAND	COM	17792	10-20-83	12:00p
GEOTEMP	BAS	1062	7-23-84	4:45p
GTHRMOMS	BAS	1559	3-12-84	2:03p
EPRICHEM	DAT	234	3-12-84	1:57p
TESTMON	DBF	54784	10-17-84	11:14a
TENSIL	DAT	163	1-29-85	11:17a
FTMIXMOD	BAS	1064	1-29-85	4:33p
MGRSPRNG	DAT	270	1-29-85	4:32p
MEAGERSP	DAT	203	1-29-85	4:44p
FTMXMOD2	BAS	1072	2-07-85	2:44p
MC1QQQ	DAT	7600	2-08-85	2:27p
M12MC1	DAT	150	2-07-85	3:40p
GEOTEMP2	BAS	1044	2-08-85	2:51p
MC1CHAL	DAT	4148	2-08-85	2:54p
MC1QTZ	DAT	4163	2-08-85	2:54p
MC1NAK	DAT	4158	2-08-85	2:54p
MC1NAKCA	DAT	4156	2-08-85	2:54p

17 File(s) 222208 bytes free

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DISKETTE - PST1

Volume in drive A has no label
Directory of A:±

COMMAND	COM	17792	10-20-83	12:00p
&MFILEB	DBF	1024	5-23-85	2:07p
MASTERA	DBF	1024	7-11-84	9:11a
MASTERB	DBF	1536	7-13-84	11:40a
PSTFORM	PRG	3584	6-28-84	2:13p
PST8B	DBF	1536	7-16-84	3:43p
PST7A	DBF	1536	5-27-85	1:37p
PST7B	DBF	1024	7-16-84	1:37p
PST2A	DBF	2048	5-27-85	1:57p
PST1A	DBF	5120	5-27-85	2:02p
PST1B	DBF	3072	7-13-84	10:06a
PST2B	DBF	1536	7-13-84	11:04a
PST3A	DBF	2560	5-27-85	1:54p
PST3B	DBF	1536	7-13-84	11:51a
PST4A	DBF	3072	5-27-85	1:51p
PST4B	DBF	2048	7-13-84	12:13p
PST5A	DBF	3072	5-27-85	1:47p
PST5B	DBF	2048	7-16-84	11:25a
PST6A	DBF	3584	5-27-85	1:40p
PST6B	DBF	2048	7-16-84	12:04p
PST8A	DBF	2560	5-27-85	1:35p
PST9A	DBF	2560	5-27-85	10:35a
PST9B	DBF	1536	7-16-84	4:30p
PST10A	DBF	4096	5-27-85	10:32a
PST10B	DBF	2560	7-17-84	11:15a
PSTIN	PRG	4194	7-17-84	11:28a
PST11A	DBF	3584	5-30-85	10:43a
PST11B	DBF	2048	5-27-85	9:59a
PSTDIAG	BAS	2737	7-30-84	10:54a
NEWFORM	PRG	5977	7-25-84	11:12a

30 File(s) 132096 bytes free

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DISKETTE - TXT1

Volume in drive A has no label
Directory of A:±

COMMAND	COM	17792	10-20-83	12:00p
84		284672	6-07-85	2:56p
RES	TXT	0	6-06-85	11:37a
3 File(s)		36864 bytes free		

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DISKETTE - TXT2

Volume in drive A has no label
Directory of A:±

COMMAND	COM	17792	10-20-83	12:00p
84		251904	5-30-85	10:58a
EPRI	TXT	6144	5-08-85	10:29a
PAPER	TXT	25178	5-11-85	11:55a
4 File(s)		37888 bytes free		

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DISKETTE - TXT3

Volume in drive A has no label
Directory of A:±

COMMAND	COM	4959	5-07-82	12:00p
84		124928	5-20-85	2:33p
CO		141824	5-23-85	12:07p
CORR		34304	5-20-85	2:27p
4 File(s)			6144 bytes free	

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Appendix E

Slim hole exploration data. The data file includes location, hole depth, completion data, hole present status and temperature data.

STRUCTURE FOR FILE: SLIMDATA.DBF

NUMBER OF RECORDS: 00124

DATE OF LAST UPDATE: 08/29/83

PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	WELL	C	007	
002	PARAMETER	C	015	
003	TYPE	C	010	
004	SIZE	C	010	
005	FROMDEPTH	N	006	001
006	TODEPTH	N	006	001
007	COMMENTS	C	030	

** TOTAL ** 00085

. list

00001	M1-74D	CASING	NW	7.6cm I.D.	0.0	21.6 UNCEMENTED
00002	M1-74D	CASING	BW	6.0cm I.D.	0.0	83.5 UNCEMENTED
00003	M1-74D	CASING	BXWL RODS	4.8cm I.D.	0.0	123.9 UNCEMENTED
00004	M1-74D	BORE	AQ	4.8cm DIA.	123.9	347.0
00005	M1-74D	LINER	N/A	N/A	0.0	0.0 N/A
00006	M1-74D	WELLHEAD	VALVE TEE	2 inch	0.0	0.0 GATE VALVE TEE ON BXWL RODS
00007	M2-75D	CASING	NW	7.6cm I.D.	0.0	5.0 CEMENTED
00008	M2-75D	CASING	AW	4.8cm I.D.	0.0	19.0 CEMENTED
00009	M2-75D	BORE	AQ	4.8cm DIA.	19.0	91.0 REPORTED BLOCKED AT 85m (1975)
00010	M2-75D	LINER	N/A	N/A	0.0	0.0 N/A
00011	M2-75D	WELLHEAD	VALVE TEE	2 inch	0.0	0.0 GATE VALVE TEE
00012	M3-75D	CASING	NW	7.6cm I.D.	0.0	5.0 CEMENTED
00013	M3-75D	CASING	AW	4.8cm I.D.	0.0	45.0 CEMENTED
00014	M3-75D	BORE	AQ	4.8cm DIA.	45.0	87.0
00015	M3-75D	LINER	N/A	N/A	0.0	0.0 N/A
00016	M3-75D	WELLHEAD	PLATE	N/A	0.0	0.0 THREADED PLATE ON CASING
00017	M4-75D	CASING	NW	7.6 cm ID	0.0	2.0 CEMENTED
00018	M4-75D	CASING	AW	4.8 cm ID	0.0	14.0 CEMENTED
00019	M4-75D	BORE	AQ	4.8 cm ID	0.0	60.0
00020	M4-75D	LINER	N/A	N/A	0.0	0.0
00021	M4-75D	WELLHEAD	N/A	N/A	0.0	0.0 THREADED PLATE ON CASING
00022	M5-78D	CASING	HW	10.2 cm ID	0.0	175.2 PULLED
00023	M5-78D	CASING	HW rods	7.8 cm ID	161.5	250.0 Twisted off w/ tricone § 250.2
00024	M5-78D	BORE	N/A		0.0	0.0
00025	M5-78D	LINER	T&C STEEL	3.2 cm ID	0.0	250.0 RESTING ON BOTTOM
00026	M5-78D	WELLHEAD	CAP		0.0	0.0 THREADED CAP ON LINER
00027	M6-79D	CASING	6-INCH	15.2 cm ID	0.0	45.6 CEMENTED
00028	M6-79D	CASING	PW & HW		0.0	0.0 PULLED
00029	M6-79D	CASING	HW RODS	7.8 cm ID	0.0	0.0 LOST DURING CEMENTING JOB
00030	M6-79D	BORE	BQ	6.0 cm ID	0.0	321.0 U/S CEMENT SET INSIDE ANNULUS
00031	M6-79D	LINER	T&C STEEL	5.1 cm ID	0.0	249.0 U/S CEMENT SET INSIDE LINER
00032	M6-79D	WELLHEAD	N/A		0.0	0.0 UNSERVICABLE
00033	M7-79D	CASING	6-INCH	15.2 cm ID	0.0	53.0 CEMENTED
00034	M7-79D	CASING	PW & HW		0.0	0.0 PULLED
00035	M7-79D	BORE		14.6	0.0	90.0
00036	M7-79D	BORE		11.4 cm	90.0	100.0
00037	M7-79D	BORE	HQ	9.6 cm	100.0	367.0
00038	M7-79D	LINER	2-INCH	5.1 cm ID	0.0	367.0 PERF'D 312-367 m
		CAPPED § BOTT				
00039	M7-79D	WELLHEAD			0.0	0.0 LINER THRU SLEEVE IN RED'N ASS
00040	M7-79D	WELLHEAD	4-INCH VNT	10.2 cm ID	0.0	0.0 VENT LINE FROM ANNULUS
00041	M7-79D	WELLHEAD	2-INCH VNT	5.1 cm ID	0.0	0.0 VENT LINE FROM LINER
		DAMAGED				
00042	M8-79D	CASING	HW PW		0.0	0.0 PULLED

00043	M8-79D BORE		11.4 cm	0.0	47.0	
00044	M8-79D BORE	HQ	9.6 cm	47.0	497.0	
00045	M8-79D LINER	2-INCH	5.1 cm	0.0	497.0	WELDED JOINTS
	CAP'D, REST'NG \$TD					
00046	M9-80D CASING	6-INCH	15.2 cm ID	0.0	130.0	CEMENTED
	WELDED JOINTS					
00047	M9-80D CASING	5-INCH	12.1 cm ID	0.0	182.0	CEMENTED
	WELDED JOINTS					
00048	M9-80D CASING	HW		0.0	0.0	PULLED
00049	M9-80D BORE		11.4 cm	0.0	300.0	
00050	M9-80D BORE	HQ	9.6 cm	300.0	772.5	
00051	M9-80D BORE	NQ	7.6 cm	772.5	1142.0	
00052	M9-80D LINER	N/A		0.0	0.0	N/A
00053	M9-80D WELLHEAD	CAP		0.0	0.0	CASING CAPPED AT SURFACE
00054	M10-80D CASING	6-INCH	15.2 cm ID	0.0	50.0	CEMENTED
	WELDED JOINTS					
00055	M10-80D CASING	HW	10.2 cm ID	0.0	278.0	CEMENTED
00056	M10-80D BORE	HQ	9.6 cm ID	287.0	584.2	
00057	M10-80D BORE	NQ	7.6 cm ID	584.2	1070.0	
00058	M10-80D LINER	NONE		0.0	0.0	
00059	M10-80D WELLHEAD	N/A		0.0	0.0	
00060	M11-80D CASING	PW & HW		0.0	0.0	CASING PULLED
00061	M11-80D BORE	HQ	9.6 cm	0.0	262.5	
00062	M11-80D BORE	NQ	7.6 cm	262.5	559.4	
00063	M11-80D LINER	2-INCH	5.1 cm	0.0	559.4	UNPERF
	CAPPED, RESTING \$ TD					
00064	M11-80D WELLHEAD	CAP		0.0	0.0	THREADED CAP ON LINER
00065	M12-80D CASING	PW & HW		0.0	0.0	PULLED
00066	M12-80D BORE	HQ	9.6 cm	11.5	376.0	
00067	M12-80D BORE	NQ	7.6 cm	376.0	605.0	
00068	M12-80D LINER	N/A		0.0	0.0	
00069	M12-80D WELLHEAD	N/A		0.0	0.0	
00070	M13-80D CASING	HW	7.8 cm	0.0	105.0	UNCEMENTED
00071	M13-80D BORE	HQ	9.6 cm	105.0	403.0	
00072	M13-80D BORE	NQ	7.6 cm	403.0	599.5	
00073	M13-80D LINER	2-INCH	5.1 cm	0.0	599.5	PERF'D 535.5-599.5
	WELDED					
	SUSP					
00074	M13-80D WELLHEAD	CAP		0.0	0.0	THREADED CAP ON LINER
00075	M13-80D WELLHEAD	LINER WELD		0.0	0.0	LINER WELDED TO PLATE ON HW
00076	M13-80D WELLHEAD	LINER		0.0	0.0	LINER UNDER TENSION
00077	M14-80D CASING	HW & PW		0.0	0.0	PULLED
00078	M14-80D BORE	HQ	9.6 cm	9.5	312.5	
00079	M14-80D BORE	NQ	7.6 cm	312.5	578.5	
00080	M14-80D LINER	2-INCH	5.1 cm	0.0	577.3	PERF'D 526-577
	WELDED					
	SUSP'D					
00081	M14-80D WELLHEAD	CAP		0.0	0.0	THREADED CAP ON LINER
00082	L1-78D CASING	HW		0.0	0.0	PULLED
00083	L1-78D CASING	HQ RODS	7.8 cm	0.0	226.2	CEMENTED
00084	L1-78D BORE	NQ	7.6 cm	226.2	602.6	
00085	L1-78D LINER	2" STEEL	5.1 cm	0.0	76.8	PERF'D 76.8-83.2
00086	L1-78D LINER	1.5" STEEL	3.8 cm	76.8	601.7	PERF'D 217.6-601.7
00087	L1-78D WELLHEAD	CAP		0.0	0.0	THREADED CAP ON LINER
00088	L2-80D CASING	NW	7.6 cm	0.0	10.0	NOT CEMENTED
00089	L2-80D BORE	NQ	7.6 cm	10.0	595.4	
00090	L2-80D LINER	N/A		0.0	0.0	
00091	L2-80D WELLHEAD	CAP		0.0	0.0	CAP ON NW CASING

00092	L3-80D	CASING	N/A		0.0	0.0	
00093	L3-80D	BORE	NQ	7.6 cm	148.4	615.5	
00094	L3-80D	BORE	BQ	6.0 cm	615.5	1010.0	
00095	L3-80D	LINER			0.0	0.0	UNSERVICABLE
00096	L3-80D	WELLHEAD	N/A		0.0	0.0	918 m RODS ABANDONED IN HOLE
00097	L4-81D	CASING	8"	20.3 cm	0.0	3.5	CEMENTED
00098	L4-81D	CASING	6"	15.2 cm	0.0	96.0	CEMENTED
00099	L4-81D	CASING	HW	10.2 cm	0.0	284.0	PULLED
00100	L4-81D	BORE	HQ	9.6 cm	285.0	428.0	
00101	L4-81D	BORE	NQ	7.6 cm	428.0	1279.0	
00102	L4-81D	LINER	2" STEEL	5.1 cm	0.0	1279.0	PERF'D 80-86.4, 90-1279
00103	L4-81D	WELLHEAD	CAP		0.0	0.0	CAP ON CASING
00104	L5-81D	CASING	6"	15.2 cm	0.0	199.0	NOT CEMENTED
00105	L5-81D	CASING	HW	10.2 cm	0.0	284.0	PULLED
00106	L5-81D	BORE	HQ	9.6 cm	0.0	339.0	
00107	L5-81D	BORE	NQ	7.6 cm	339.0	660.0	
00108	L5-81D	LINER	2" STEEL	5.1 cm	0.0	653.0	PERF'D 350-653
00109	L5-81D	WELLHEAD	CAP		0.0	0.0	CAP ON LINER
00110	L6-81D	CASING	HW	10.2 cm	0.0	30.0	PULLED
00111	L6-81D	BORE	HQ	9.6 cm	5.0	267.7	
00112	L6-81D	BORE	NQ	7.6 cm	267.7	579.2	
00113	L6-81D	LINER	2" STEEL	5.1 cm	0.0	579.2	PERF'D 530-579
00114	L6-81D	WELLHEAD	CAP		0.0	0.0	SCREW CAP ON LINER
00115	L7-82D	CASING	NW	7.62 cm	0.0	7.3	LEFT IN PLACE (NO CEMENT)
00116	L7-82D	BORE	NQ	7.6 cm	0.0	405.2	
00117	L7-82D	BORE	BQ	6.0 cm	405.2	420.6	
00118	L7-82D	LINER	PVC PIPE	3.8 cm	0.0	268.3	
00119	L7-82D	LINER	PVC PIPE	3.2 cm	253.6	406.0	SLOTTED 253.6-406.0
00120	L7-82D	WELLHEAD	PVC CAP		0.0	0.0	CAP ON PVC PIPE
00121	L8-82D	CASING	NW	7.62 cm	0.0	3.7	LEFT IN PLACE (NOT CEMENTED)
00122	L8-82D	BORE	NQ	7.6 cm	3.7	475.5	
00123	L8-82D	LINER	PVC PIPE	3.0 cm	0.0	470.0	SLOTTED 226-470
00124	L8-82D	WELLHEAD	OPEN		0.0	0.0	OPEN PIPE PROTECTED BY NW CSG

STRUCTURE FOR FILE: M1TEMP.DBF

NUMBER OF RECORDS: 00021

DATE OF LAST UPDATE: 08/30/83

PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	

** TOTAL ** 00055

. list

00001	00/12/74	11.2	16.8	36	BHT	
00002	00/12/74	25.2	44.1	12	BHT	
00003	00/12/74	34.4	50.9	36	BHT	
00004	00/12/74	47.8	68.9	13	BHT	
00005	00/12/74	53.9	63.0	13	BHT	
00006	00/12/74	58.5	44.2	13	BHT	
00007	00/12/74	60.3	35.3	13	BHT	
00008	00/12/74	108.8	53.5	15	BHT	
00009	00/12/74	118.2	53.9	15	BHT	
00010	00/12/74	124.6	54.3	15	BHT	SLIGHT ARTES'N
00011	00/12/74	150.8	55.1	15	BHT	ARTESIAN FLOW
00012	00/12/74	178.0	56.1	15	BHT	ARTESIAN FLOW
00013	00/12/74	205.4	58.0	15	BHT	ARTESIAN FLOW
00014	00/12/74	238.9	58.8	15	OBT	ARTESIAN FLOW
00015	00/12/74	253.2	59.5	15min	BHT	ARTESIAN FLOW
00016	00/12/74	266.3	58.9	15	BHT	ARTESIAN FLOW
00017	00/12/74	266.3	58.9	15	BHT	ARTESIAN FLOW
00018	00/12/74	284.9	59.3	15	BHT	ARTESIAN FLOW
00019	00/12/74	312.4	59.8	15	BHT	ARTESIAN FLOW
00020	00/12/74	327.9	60.4	15	BHT	ARTESIAN FLOW
00021	00/12/74	347.4	60.5		BHT	ARTESIAN FLOW

STRUCTURE FOR FILE: M2TEMP.DBF

NUMBER OF RECORDS: 00005

DATE OF LAST UPDATE: 08/30/83

PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMP TYPE	C	005	
008	COMMENTS	C	015	
** TOTAL **			00055	

. list

00001	00/09/75	11.8	6.6	16	BHT	
00002	00/09/75	42.0	10.2	14	BHT	MAKING 20L/MIN
00003	00/09/75	57.3	12.0	13.5	BHT	SLIGHT OVERFLOW
00004	00/09/75	70.4	13.4	14	OBT	SLIGHT OVERFLOW
00005	00/09/75	90.5	15.4	13.5	BHT	SLIGHT OVERFLOW

STRUCTURE FOR FILE: M3TEMP.DBF

NUMBER OF RECORDS: 00008

DATE OF LAST UPDATE: 08/30/83

PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	
** TOTAL **			00055	

. list

00001	00/09/75	11.1	7.7	15	BHT	
00002	00/09/75	28.3	13.8	20	BHT	
00003	00/09/75	32.3	15.1	12	OBT	2 m OFF BOTTOM
00004	00/09/75	41.4	17.7	12.5	BHT	
00005	00/09/75	44.8	18.6	14	BHT	ON FRESH CEMENT
00006	00/09/75	73.1	30.1	15	BHT	
00007	00/09/75	85.6	34.9	15	BHT	
00008	00/09/75	85.6	35.0	64	BHT	PROBE § 85 24h

STRUCTURE FOR FILE: M4TEMP.DBF

NUMBER OF RECORDS: 00006

DATE OF LAST UPDATE: 08/30/83

PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	
** TOTAL **			00055	

. list

00001	00/10/75	7.9	12.5	14	BHT	
00002	00/10/75	14.0	14.1	15	BHT	
00003	00/10/75	32.9	14.6	15	BHT	
00004	00/10/75	54.2	20.8	14	BHT	
00005	00/10/75	56.0	19.1	19	BHT	CAVE IN HOLE
00006	00/10/75	56.0	19.8	44	BHT	PROBE § 56m 24h

STRUCTURE FOR FILE: M5TEMP.DBF

NUMBER OF RECORDS: 00050

DATE OF LAST UPDATE: 08/30/83

PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPYPE	C	005	
008	COMMENTS	C	015	

** TOTAL ** 00055

. list

00001	00/11/78	30.5	15.3	12					OBT
00002	00/11/78	61.0	25.8	12					OBT
00003	00/11/78	91.4	38.1	12					OBT
00004	00/11/78	121.9	54.3	12					OBT
00005	00/11/78	152.4	70.5	12					OBT
00006	00/11/78	182.9	92.4	12					OBT
00007	00/11/78	213.4	103.7	12					OBT
00008	00/11/78	228.6	101.0	12					OBT
00009	00/11/78	236.2	98.0	12					OBT
00010	00/11/78	243.8	95.1	3					OBT
									CORE TUBE LWR'D
00011	05/06/80	10.0	8.5	ENVIR	19	mo	<10	m	PDTT
00012	05/06/80	20.0	6.0	ENVIR	19	mo	<10	m	PDTT
00013	05/06/80	30.0	8.0	ENVIR	19	mo	<10	m	PDTT
00014	05/06/80	40.0	14.5	ENVIR	19	mo	<10	m	PDTT
00015	05/06/80	50.0	19.6	ENVIR	19	mo	<10	m	PDTT
00016	05/06/80	60.0	27.2	ENVIR	19	mo	<10	m	PDTT
00017	05/06/80	70.0	33.6	ENVIR	19	mo	<10	m	PDTT
00018	05/06/80	80.0	40.6	ENVIR	19	mo	<10	m	PDTT
00019	05/06/80	90.0	48.4	ENVIR	19	mo	<10	m	PDTT
00020	05/06/80	100.0	54.5	ENVIR	19	mo	<10	m	PDTT
00021	05/06/80	110.0	63.6	ENVIR	19	mo	<10	m	PDTT
00022	05/06/80	120.0	71.6	ENVIR	19	mo	<10	m	PDTT
00023	05/06/80	130.0	84.1	ENVIR	19	mo	<10	m	PDTT
00024	05/06/80	140.0	91.7	ENVIR	19	mo	<10	m	PDTT
00025	05/06/80	145.0	95.1	ENVIR	19	mo	<10	m	PDTT
00026	05/06/80	150.0	99.8	ENVIR	19	mo	<10	m	PDTT
00027	05/06/80	152.5	102.0	ENVIR	19	mo	<10	m	PDTT
00028	05/06/80	155.0	103.4	ENVIR	19	mo	<10	m	PDTT
00029	05/06/80	157.5	103.8	ENVIR	19	mo	<10	m	PDTT
00030	05/06/80	160.0	101.6	ENVIR	19	mo	<10	m	PDTT
00031	05/06/80	162.5	98.5	ENVIR	19	mo	<10	m	PDTT
00032	05/06/80	165.0	95.6	ENVIR	19	mo	<10	m	PDTT
00033	05/06/80	167.5	92.2	ENVIR	19	mo	<10	m	PDTT
00034	05/06/80	170.0	89.1	ENVIR	19	mo	<10	m	PDTT
00035	05/06/80	172.5	90.6	ENVIR	19	mo	<10	m	PDTT
00036	05/06/80	175.0	92.1	ENVIR	19	mo	<10	m	PDTT
00037	05/06/80	180.0	94.1	ENVIR	19	mo	<10	m	PDTT
00038	05/06/80	185.0	102.3	ENVIR	19	mo	<10	m	PDTT
00039	05/06/80	190.0	104.0	ENVIR	19	mo	<10	m	PDTT
00040	05/06/80	195.0	105.8	ENVIR	19	mo	<10	m	PDTT
00041	05/06/80	200.0	107.0	ENVIR	19	mo	<10	m	PDTT
00042	05/06/80	205.0	108.8	ENVIR	19	mo	<10	m	PDTT
00043	05/06/80	210.0	109.0	ENVIR	19	mo	<10	m	PDTT

00044	05/06/80	215.0	109.7	ENVIR	19	mo	<10	m	PDTT
00045	05/06/80	220.0	106.7	ENVIR	19	mo	<10	m	PDTT
00046	05/06/80	225.0	103.3	ENVIR	19	mo	<10	m	PDTT
00047	05/06/80	230.0	100.4	ENVIR	19	mo	<10	m	PDTT
00048	05/06/80	235.0	97.2	ENVIR	19	mo	<10	m	PDTT
00049	05/06/80	240.0	93.5	ENVIR	19	mo	<10	m	PDTT
00050	05/06/80	244.6	92.0	ENVIR	19	mo	<10	m	PDTT

STRUCTURE FOR FILE: M6TEMP.DBF
NUMBER OF RECORDS: 00052
DATE OF LAST UPDATE: 08/30/83
PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	

** TOTAL ** 00055

. list

00001	09/08/79	72.5	41.4	K	2	BHT	MAKING NEAR 60m
00002	10/08/79	104.0	71.3	K	7.5	BHT	
00003	11/08/79	123.5	79.0	K	7.5	BHT	
00004	12/08/79	143.0	85.2	K	9.25	BHT	
00005	14/08/79	162.5	90.4	K	7.5	BHT	
00006	15/08/79	179.0	76.8	K	7.5	BHT	
00007	16/08/79	204.5	117.1	K	7.5	BHT	
00008	17/08/79	215.0	132.2	K	7.5	70 BHT	
00009	19/08/79	0.0	15.4	K(LO)	34	70 TT	KUSTER EL#11852
00010	19/08/79	15.2	18.6	K(LO)	34	70 TT	KUSTER EL#11852
00011	19/08/79	30.5	21.9	K(LO)	34	70 TT	KUSTER EL#11852
00012	19/08/79	45.7	25.8	K(LO)	34	70 TT	KUSTER EL#11852
00013	19/08/79	61.0	33.9	K(LO)	34	70 TT	KUSTER EL#11852
00014	19/08/79	76.2	34.5	K(LO)	34	70 TT	KUSTER EL#11852
00015	19/08/79	91.4	36.7	K(LO)	34	70 TT	KUSTER EL#11852
00016	19/08/79	106.7	38.9	K(LO)	34	70 TT	KUSTER EL#11852
00017	19/08/79	121.9	42.5	K(LO)	34	70 TT	KUSTER EL#11852
00018	19/08/79	137.2	47.8	K(LO)	34	70 TT	KUSTER EL#11852
00019	19/08/79	152.4	53.4	K(LO)	34	70 TT	KUSTER EL#11852
00020	19/08/79	167.6	61.1	K(LO)	34	70 TT	KUSTER EL#11852
00021	19/08/79	182.8	66.4	K(LO)	34	70 TT	KUSTER EL#11852
00022	19/08/79	152.4	51.5	K(HI)	34	70 TT	KUSTER EL#16351
00023	19/08/79	167.6	59.0	K(HI)	34	70 TT	KUSTER EL#16351
00024	19/08/79	182.9	64.0	K(HI)	34	70 TT	KUSTER EL#16351
00025	19/08/79	198.2	95.3	K(HI)	34	70 TT	KUSTER EL#16351
00026	19/08/79	213.4	115.3	K(HI)	34	70 TT	KUSTER EL#16351
00027	19/08/79	231.7	137.4	K(HI)	34	70 TT	KUSTER EL#16351
00028	21/08/79	239.0	140.3	K	15	BHT	
00029	20/09/79	282.0	132.3	K	8	150 BHT	
00030	28/09/79	318.0	131.0	K	8	150 BHT	
00031	04/10/79	205.0	105.3	K(HI)	8	PDTT	
00032	04/10/79	210.0	113.2	K(HI)	8	PDTT	
00033	04/10/79	215.0	116.3	K(HI)	8	PDTT	
00034	04/10/79	220.0	122.6	K(HI)	8	PDTT	
00035	04/10/79	225.0	126.9	K(HI)	8	PDTT	
00036	04/10/79	230.0	129.1	K(HI)	8	PDTT	
00037	04/10/79	235.0	132.6	K(HI)	8	PDTT	
00038	04/10/79	240.0	134.6	K(HI)	8	PDTT	
00039	04/10/79	245.0	135.7	K(HI)	8	PDTT	
00040	04/10/79	250.0	133.1	K(HI)	8	PDTT	
00041	04/10/79	255.0	126.3	K(HI)	8	PDTT	
00042	04/10/79	260.0	127.8	K(HI)	8	PDTT	
00043	04/10/79	265.0	133.8	K(HI)	8	PDTT	

00044	04/10/79	270.0	136.0	K(HI)	8	PDTT
00045	04/10/79	275.0	137.4	K(HI)	8	PDTT
00046	04/10/79	280.0	137.5	K(HI)	8	PDTT
00047	04/10/79	285.0	136.9	K(HI)	8	PDTT
00048	04/10/79	290.0	136.6	K(HI)	8	PDTT
00049	04/10/79	295.0	136.2	K(HI)	8	PDTT
00050	04/10/79	300.0	135.9	K(HI)	8	PDTT
00051	04/10/79	305.0	133.5	K(HI)	8	PDTT
00052	04/10/79	310.0	135.3	K(HI)	8	PDTT

INST JAMS § 312

STRUCTURE FOR FILE: M7TEMP.DBF

NUMBER OF RECORDS: 00131

DATE OF LAST UPDATE: 08/31/83

PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	

** TOTAL **

00055

. list

00001	29/10/79	68.0	5.5	K	7.5	BHT	
00002	30/10/79	92.0	11.5	K	7.5	BHT	
00003	09/11/79	125.7	27.8	K	4.5	BHT	
00004	14/11/79	149.5	48.5	K	6.0	BHT	
00005	15/11/79	166.0	64.0	K	6.0	50	BHT
00006	16/11/79	205.7	110.0	K	7.5	50	BHT OFFSCALE-T ESTD
00007	16/11/79	221.0	94.0	MRT	0.5	50	BHT RDG DISCOUNTED
00008	17/11/79	233.0	163.0	K	7.5	50	BHT OFFSCALE-T ESTD
00009	17/11/79	240.0	115.0	MRT	0.5	50	BHT RDG DISCOUNTED
00010	18/11/79	253.7	115.0	MRT	8.0	50	BHT RDG SUSPECT
00011	19/11/79	271.7	158.0	MRT	8.0	50	BHT RDG SUSPECT
00012	20/11/79	296.9	176.7	K	9.0	50	BHT
00013	21/11/79	311.0	179.6	K	9.0	50	BHT
00014	22/11/79	316.7	175.7	K	9.0	50	BHT
00015	23/11/79	329.0	185.1	K	8.5	50	BHT
00016	27/11/79	343.0	188.0	K	7.5	50	BHT
00017	28/11/79	353.0	186.9	K	7.0	50	BHT
00018	30/11/79	364.0	188.6	K	9.0	50	BHT
00019	01/12/79	367.0	192.7	K	16.0	50	BHT
00020	01/06/79	10.0	0.0	K	120.0	50	PDTT EL #11852
00021	01/06/79	20.0	0.0	K	120.0	50	PDTT EL #11852
00022	01/06/79	30.0	0.6	K	120.0	50	PDTT EL #11852
00023	01/06/79	40.0	1.7	K	120.0	50	PDTT EL #11852
00024	01/06/79	50.0	3.0	K	120.0	50	PDTT EL #11852
00025	01/06/79	60.0	4.1	K	120.0	50	PDTT EL #11852
00026	01/06/79	70.0	8.0	K	120.0	50	PDTT EL #11852
00027	01/06/79	80.0	10.8	K	120.0	50	PDTT EL #11852
00028	01/06/79	90.0	14.1	K	120.0	50	PDTT EL #11852
00029	01/06/79	100.0	20.4	K	120.0	50	PDTT EL #11852
00030	01/06/79	110.0	24.0	K	120.0	50	PDTT EL #11852
00031	01/06/79	120.0	29.0	K	120.0	50	PDTT EL #11852
00032	01/06/79	130.0	34.1	K	120.0	50	PDTT EL #11852
00033	01/06/79	140.0	39.9	K	120.0	50	PDTT EL #11852
00034	01/06/79	150.0	47.9	K	120.0	50	PDTT EL #11852
00035	01/06/79	160.0	56.7	K	120.0	50	PDTT EL #11852
00036	01/06/79	170.0	65.5	K	120.0	50	PDTT EL #11852
00037	01/06/79	180.0	75.3	K	120.0	50	PDTT EL #11852
00038	01/06/79	190.0	87.1	K	120.0	50	PDTT EL #11852
00039	01/06/79	200.0	95.0	K	120.0	50	PDTT OFFSCALE § 95
00040	01/06/79	200.0	110.2	K	120.0	50	PDTT EL #16295
00041	01/06/79	210.0	123.3	K	120.0	50	PDTT EL #16295
00042	01/06/79	220.0	132.9	K	120.0	50	PDTT EL #16295
00043	01/06/79	230.0	143.2	K	120.0	50	PDTT EL #16295
00044	01/06/79	240.0	154.0	K	120.0	50	PDTT EL #16295

00045	01/06/79	245.0	159.8	K	120.0	50	PDTT	EL	#16295
00046	01/06/79	250.0	163.7	K	120.0	50	PDTT	EL	#16295
00047	01/06/79	255.0	167.5	K	120.0	50	PDTT	EL	#16295
00048	01/06/79	260.0	168.3	K	120.0	50	PDTT	EL	#16295
00049	01/06/79	265.0	168.6	K	120.0	50	PDTT	EL	#16295
00050	01/06/79	270.0	171.6	K	120.0	50	PDTT	EL	#16295
00051	01/06/79	275.0	174.4	K	120.0	50	PDTT	EL	#16295
00052	01/06/79	280.0	177.5	K	120.0	50	PDTT	EL	#16295
00053	01/06/79	285.0	180.8	K	120.0	50	PDTT	EL	#16295
00054	01/06/79	290.0	183.5	K	120.0	50	PDTT	EL	#16295
00055	01/06/79	300.0	191.6	K	120.0	50	PDTT	EL	#16295
00056	01/06/79	305.0	194.2	K	120.0	50	PDTT	EL	#16295
00057	01/06/79	310.0	195.7	K	120.0	50	PDTT	EL	#16295
00058	01/06/79	315.0	196.6	K	120.0	50	PDTT	EL	#16295
00059	01/06/79	320.0	197.5	K	120.0	50	PDTT	EL	#16295
00060	01/06/79	325.0	198.1	K	120.0	50	PDTT	EL	#16295
00061	01/06/79	330.0	198.8	K	120.0	50	PDTT	EL	#16295
00062	01/06/79	335.0	199.8	K	120.0	50	PDTT	EL	#16295
00063	01/06/79	340.0	200.2	K	120.0	50	PDTT	EL	#16295
00064	01/06/79	345.0	200.6	K	120.0	50	PDTT	EL	#16295
00065	01/06/79	350.0	200.9	K	120.0	50	PDTT	EL	#16295
00066	01/06/79	355.0	201.1	K	120.0	50	PDTT	EL	#16295
00067	01/06/79	360.0	201.5	K	120.0	50	PDTT	EL	#16295
00068	01/06/79	365.0	201.9	K	120.0	50	PDTT	EL	#16295
00069	01/06/79	367.0	202.2	K	120.0	50	PDTT	EL	#16295
00070	10/05/80	92.3	17.1	EMRLO	5	mo	PDTT	30k	YSI
00071	10/05/80	102.3	20.4	EMRLO	5	mo	PDTT	30k	YSI
00072	10/05/80	112.3	26.4	EMRLO	5	mo	PDTT	30k	YSI
00073	10/05/80	122.3	32.4	EMRLO	5	mo	PDTT	30k	YSI
00074	10/05/80	132.3	37.2	EMRLO	5	mo	PDTT	30k	YSI
00075	10/05/80	142.3	46.3	EMRLO	5	mo	PDTT	30k	YSI
00076	10/05/80	152.3	54.6	EMRLO	5	mo	PDTT	30k	YSI
00077	10/05/80	162.3	63.0	EMRLO	5	mo	PDTT	30k	YSI
00078	10/05/80	172.3	76.7	EMRLO	5	mo	PDTT	30k	YSI
00079	10/05/80	182.3	88.7	EMRLO	5	mo	PDTT	30k	YSI
00080	10/05/80	192.3	101.4	EMRLO	5	mo	PDTT	30k	YSI
00081	10/05/80	202.3	115.7	EMRLO	5	mo	PDTT	30k	YSI
00082	10/05/80	192.3	102.8	EMRHI	5	mo	PDTT	1M	YSI
00083	10/05/80	202.3	116.5	EMRHI	5	mo	PDTT	1M	YSI
00084	10/05/80	212.3	129.6	EMRHI	5	mo	PDTT	1M	YSI
00085	10/05/80	222.3	140.6	EMRHI	5	mo	PDTT	1M	YSI
00086	10/05/80	232.3	153.6	EMRHI	5	mo	PDTT	1M	YSI
00087	10/05/80	242.3	162.4	EMRHI	5	mo	PDTT	1M	YSI
00088	10/05/80	252.3	167.3	EMRHI	5	mo	PDTT	1M	YSI
00089	10/05/80	262.3	172.3	EMRHI	5	mo	PDTT	1M	YSI
00090	10/05/80	272.3	177.0	EMRHI	5	mo	PDTT	1M	YSI
00091	11/05/80	25.3	6.5	EMR	5	mo	PDTT		
00092	11/05/80	32.3	7.0	EMR	5	mo	PDTT		
00093	11/05/80	40.3	7.9	EMR	5	mo	PDTT		
00094	11/05/80	48.3	8.6	EMR	5	mo	PDTT		
00095	11/05/80	56.3	9.4	EMR	5	mo	PDTT		
00096	11/05/80	63.3	10.6	EMR	5	mo	PDTT		
00097	11/05/80	71.3	11.9	EMR	5	mo	PDTT		
00098	11/05/80	78.3	13.5	EMR	5	mo	PDTT		
00099	11/05/80	86.3	15.3	EMR	5	mo	PDTT		
00100	11/05/80	93.3	17.4	EMR	5	mo	PDTT		
00101	11/05/80	101.3	19.8	EMR	5	mo	PDTT		
00102	11/05/80	109.3	23.1	EMR	5	mo	PDTT		
00103	11/05/80	117.3	28.4	EMR	5	mo	PDTT		

00104	11/05/80	53.5	8.9	ENVIR	5	mo	PDTT	ENVIROLAB	TEST
00105	11/05/80	78.5	12.8	ENVIR	5	mo	PDTT	ENVIROLAB	TEST
00106	11/05/80	103.5	19.7	ENVIR	5	mo	PDTT	ENVIROLAB	TEST
00107	11/05/80	128.5	34.2	ENVIR	5	mo	PDTT	ENVIROLAB	TEST
00108	11/05/80	153.5	54.1	ENVIR	5	mo	PDTT	ENVIROLAB	TEST
00109	11/05/80	178.5	81.9	ENVIR	5	mo	PDTT	ENVIROLAB	TEST
00110	11/05/80	203.5	116.6	ENVIR	5	mo	PDTT	ENVIROLAB	TEST
00111	11/05/80	213.5	129.9	ENVIR	5	mo	PDTT	ENVIROLAB	TEST
00112	11/05/80	223.5	141.7	ENVIR	5	mo	PDTT	ENVIROLAB	TEST
00113	11/05/80	228.5	148.7	ENVIR	5	mo	PDTT	ENVIROLAB	TEST
00114	13/11/80	203.5	100.8	K	11	mo 92	PDTT	PRE FLOW	TEST
00115	13/11/80	213.5	116.0	K	11	mo 92	PDTT	PRE FLOW	TEST
00116	13/11/80	223.5	129.2	K	11	mo 92	PDTT	PRE FLOW	TEST
00117	13/11/80	233.5	140.8	K	11	mo 92	PDTT	PRE FLOW	TEST
00118	13/11/80	243.5	155.4	K	11	mo 92	PDTT	PRE FLOW	TEST
00119	13/11/80	253.5	162.2	K	11	mo 92	PDTT	PRE FLOW	TEST
00120	13/11/80	263.5	166.6	K	11	mo 92	PDTT	PRE FLOW	TEST
00121	13/11/80	273.5	170.2	K	11	mo 92	PDTT	PRE FLOW	TEST
00122	13/11/80	283.5	176.9	K	11	mo 92	PDTT	PRE FLOW	TEST
00123	13/11/80	293.5	185.9	K	11	mo 92	PDTT	PRE FLOW	TEST
00124	13/11/80	303.5	191.7	K	11	mo 92	PDTT	PRE FLOW	TEST
00125	13/11/80	313.5	193.3	K	11	mo 92	PDTT	PRE FLOW	TEST
00126	13/11/80	323.5	193.7	K	11	mo 92	PDTT	PRE FLOW	TEST
00127	13/11/80	333.5	193.8	K	11	mo 92	PDTT	PRE FLOW	TEST
00128	13/11/80	343.5	194.0	K	11	mo 92	PDTT	PRE FLOW	TEST
00129	13/11/80	353.5	194.1	K	11	mo 92	PDTT	PRE FLOW	TEST
00130	13/11/80	363.5	194.2	K	11	mo 92	PDTT	PRE FLOW	TEST
00131	13/11/80	367.5	194.2	K	11	mo 92	PDTT	PRE FLOW	TEST

STRUCTURE FOR FILE: M8TEMP.DBF
 NUMBER OF RECORDS: 00126
 DATE OF LAST UPDATE: 08/31/83
 PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	

** TOTAL ** 00055

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00001	15/11/79	25.0	5.2	EMR	16		BHT
00002	16/11/79	39.0	5.4	EMR	16		BHT
00003	17/11/79	47.0	5.6	EMR	16		BHT
00004	21/11/79	66.0	6.1	EMR	16	40	BHT
00005	22/11/79	80.7	6.5	EMR	16	40	BHT
00006	28/11/79	142.0	5.0	EMR	16	40	BHT
+/-1C							
00007	02/12/79	171.0	11.5	EMR	8.0	40	BHT
00008	03/12/79	187.5	14.0	MRT	8.0	40	BHT
00009	11/12/79	244.5	22.0	MRT	8.0	40	BHT
00010	12/12/79	259.2	25.5	MRT	8.0	40	BHT
00011	13/12/79	268.1	26.8	K	8.0	40	BHT
00012	24/05/80	296.0	28.5	ENVIR	7		BHT
00013	25/05/80	301.0	26.1	ENVIR	6		BHT
00014	29/05/80	333.5	31.9	ENVIR	7		BHT
00015	30/05/80	355.5	35.2	ENVIR	6	23	BHT
00016	03/06/80	369.5	36.0	ENVIR	7	28.5	BHT
00017	04/06/80	384.5	41.6	ENVIR	7	22	BHT
00018	05/06/80	396.5	39.9	ENVIR	7	22	BHT
00019	06/06/80	408.5	41.0	ENVIR	7	34.5	BHT
00020	07/06/80	420.5	42.5	ENVIR	7	21.5	BHT
00021	08/06/80	434.0	44.2	ENVIR	7	22.5	BHT
00022	09/06/80	447.5	46.5	EMR	7		BHT
00023	10/06/80	456.5	47.4	EMR	7	5	BHT
00024	11/06/80	465.5	46.9	EMR	7	9	BHT
00025	12/06/80	476.0	54.0	MRT	7	10	BHT
00026	13/06/80	483.5	55.0	MRT	7	5	BHT
00027	14/06/80	494.0	53.5	MRT	7		BHT
00028	15/07/80	5.0	6.2	EMRLO	1 mo		PDTT
00029	15/07/80	10.0	5.8	EMRLO	1 mo		PDTT
00030	15/07/80	15.0	5.6	EMRLO	1 mo		PDTT
00031	15/07/80	20.0	5.3	EMRLO	1 mo		PDTT
00032	15/07/80	25.0	5.3	EMRLO	1 mo		PDTT
00033	15/07/80	30.0	5.5	EMRLO	1 mo		PDTT
00034	15/07/80	35.0	6.1	EMRLO	1 mo		PDTT
00035	15/07/80	40.0	5.8	EMRLO	1 mo		PDTT
00036	15/07/80	45.0	6.0	EMRLO	1 mo		PDTT
00037	15/07/80	50.0	6.4	EMRLO	1 mo		PDTT
00038	15/07/80	55.0	6.6	EMRLO	1 mo		PDTT
00039	15/07/80	60.0	7.6	EMRLO	1 mo		PDTT
00040	15/07/80	60.0	7.6	EMRLO	1 mo		PDTT
00041	15/07/80	65.0	8.1	EMRLO	1 mo		PDTT
00042	15/07/80	70.0	8.4	EMRLO	1 mo		PDTT
00043	15/07/80	75.0	8.7	EMRLO	1 mo		PDTT

EMR PROBS

TEMP SUSPECT

00044	15/07/80	80.0	9.1	EMRLO	1	mo	PDTT
00045	15/07/80	85.0	9.6	EMRLO	1	mo	PDTT
00046	15/07/80	90.0	10.5	EMRLO	1	mo	PDTT
00047	15/07/80	95.0	11.1	EMRLO	1	mo	PDTT
00048	15/07/80	100.0	11.8	EMRLO	1	mo	PDTT
00049	15/07/80	105.0	12.2	EMRLO	1	mo	PDTT
00050	15/07/80	110.0	12.8	EMRLO	1	mo	PDTT
00051	15/07/80	115.0	14.0	EMRLO	1	mo	PDTT
00052	15/07/80	120.0	14.6	EMRLO	1	mo	PDTT
00053	15/07/80	125.0	15.3	EMRLO	1	mo	PDTT
00054	15/07/80	130.0	16.2	EMRLO	1	mo	PDTT
00055	15/07/80	135.0	17.0	EMRLO	1	mo	PDTT
00056	15/07/80	140.0	17.6	EMRLO	1	mo	PDTT
00057	15/07/80	145.0	17.7	EMRLO	1	mo	PDTT
00058	15/07/80	150.0	18.6	EMRLO	1	mo	PDTT
00059	15/07/80	155.0	18.8	EMRLO	1	mo	PDTT
00060	15/07/80	160.0	19.3	EMRLO	1	mo	PDTT
00061	15/07/80	165.0	20.0	EMRLO	1	mo	PDTT
00062	15/07/80	170.0	20.7	EMRLO	1	mo	PDTT
00063	15/07/80	175.0	20.8	EMRLO	1	mo	PDTT
00064	15/07/80	180.0	21.9	EMRLO	1	mo	PDTT
00065	15/07/80	185.0	22.3	EMRLO	1	mo	PDTT
00066	15/07/80	190.0	22.7	EMRLO	1	mo	PDTT
00067	15/07/80	195.0	23.2	EMRLO	1	mo	PDTT
00068	15/07/80	200.0	24.1	EMRLO	1	mo	PDTT
00069	17/07/80	205.0	24.8	EMRLO	1	mo	PDTT
00070	17/07/80	210.0	25.4	EMRLO	1	mo	PDTT
00071	17/07/80	215.0	26.0	EMRLO	1	mo	PDTT
00072	17/07/80	220.0	26.3	EMRLO	1	mo	PDTT
00073	17/07/80	225.0	26.8	EMRLO	1	mo	PDTT
00074	17/07/80	230.0	27.6	EMRLO	1	mo	PDTT
00075	17/07/80	235.0	27.9	EMRLO	1	mo	PDTT
00076	17/07/80	240.0	28.4	EMRLO	1	mo	PDTT
00077	17/07/80	245.0	29.3	EMRLO	1	mo	PDTT
00078	17/07/80	250.0	29.7	EMRLO	1	mo	PDTT
00079	17/07/80	255.0	29.9	EMRLO	1	mo	PDTT
00080	17/07/80	260.0	30.6	EMRLO	1	mo	PDTT
00081	17/07/80	265.0	31.2	EMRLO	1	mo	PDTT
00082	17/07/80	270.0	31.7	EMRLO	1	mo	PDTT
00083	17/07/80	275.0	32.1	EMRLO	1	mo	PDTT
00084	17/07/80	280.0	32.6	EMRLO	1	mo	PDTT
00085	17/07/80	285.0	33.3	EMRLO	1	mo	PDTT
00086	17/07/80	290.0	33.8	EMRLO	1	mo	PDTT
00087	17/07/80	295.0	34.6	EMRLO	1	mo	PDTT
00088	17/07/80	300.0	35.2	EMRLO	1	mo	PDTT
00089	17/07/80	305.0	35.6	EMRLO	1	mo	PDTT
00090	17/07/80	310.0	36.3	EMRLO	1	mo	PDTT
00091	17/07/80	315.0	36.6	EMRLO	1	mo	PDTT
00092	17/07/80	320.0	37.1	EMRLO	1	mo	PDTT
00093	17/07/80	325.0	37.8	EMRLO	1	mo	PDTT
00094	17/07/80	330.0	38.4	EMRLO	1	mo	PDTT
00095	17/07/80	335.0	38.6	EMRLO	1	mo	PDTT
00096	17/07/80	340.0	39.4	EMRLO	1	mo	PDTT
00097	17/07/80	345.0	39.9	EMRLO	1	mo	PDTT
00098	17/07/80	350.0	40.4	EMRLO	1	mo	PDTT
00099	17/07/80	355.0	40.8	EMRLO	1	mo	PDTT
00100	17/07/80	360.0	41.3	EMRLO	1	mo	PDTT
00101	17/07/80	365.0	41.8	EMRLO	1	mo	PDTT

00102	17/07/80	370.0	42.3	EMRLO	1	mo	PDTT
00103	17/07/80	375.0	42.7	EMRLO	1	mo	PDTT
00104	21/07/80	380.0	43.0	EMRLO	1	mo	PDTT
00105	21/07/80	385.0	43.4	EMRLO	1	mo	PDTT
00106	21/07/80	390.0	43.9	EMRLO	1	mo	PDTT
00107	21/07/80	395.0	44.0	EMRLO	1	mo	PDTT
00108	21/07/80	400.0	44.4	EMRLO	1	mo	PDTT
00109	21/07/80	405.0	44.7	EMRLO	1	mo	PDTT
00110	21/07/80	410.0	45.0	EMRLO	1	mo	PDTT
00111	21/07/80	415.0	45.3	EMRLO	1	mo	PDTT
00112	21/07/80	420.0	45.5	EMRLO	1	mo	PDTT
00113	21/07/80	425.0	45.7	EMRLO	1	mo	PDTT
00114	21/07/80	430.0	45.9	EMRLO	1	mo	PDTT
00115	21/07/80	435.0	46.0	EMRLO	1	mo	PDTT
00116	21/07/80	440.0	46.2	EMRLO	1	mo	PDTT
00117	21/07/80	445.0	46.8	EMRLO	1	mo	PDTT
00118	21/07/80	450.0	47.2	EMRLO	1	mo	PDTT
00119	21/07/80	455.0	47.8	EMRLO	1	mo	PDTT
00120	21/07/80	460.0	48.3	EMRLO	1	mo	PDTT
00121	21/07/80	465.0	48.6	EMRLO	1	mo	PDTT
00122	21/07/80	470.0	48.9	EMRLO	1	mo	PDTT
00123	21/07/80	475.0	49.5	EMRLO	1	mo	PDTT
00124	21/07/80	480.0	50.1	EMRLO	1	mo	PDTT
00125	21/07/80	485.0	50.6	EMRLO	1	mo	PDTT
00126	21/07/80	490.0	50.6	EMRLO	1	mo	PDTT

STRUCTURE FOR FILE: M9TEMP.DBF
NUMBER OF RECORDS: 00196
DATE OF LAST UPDATE: 09/01/83
PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	
** TOTAL **			00055	

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00001	28/06/80	111.3	32.0	MRT	6	5.5	OBT	INSIDE TRICONE
00002	02/07/80	106.8	29.4	EMR	6	2.3	OBT	BEHIND TRICONE
00003	02/07/80	106.8	31.0	MRT	6	2.3	OBT	RDG WITH ABOVE
00004	04/07/80	7.6	11.2	EMR	11		TT	
00005	04/07/80	15.2	12.1	EMR	11		TT	
00006	04/07/80	22.9	14.4	EMR	11		TT	
00007	04/07/80	30.5	16.0	EMR	11		TT	
00008	04/07/80	38.1	17.3	EMR	11		TT	
00009	04/07/80	45.7	18.4	EMR	11		TT	
00010	04/07/80	53.3	20.0	EMR	11		TT	
00011	04/07/80	61.0	21.4	EMR	11		TT	
00012	04/07/80	68.6	22.6	EMR	11		TT	
00013	04/07/80	76.2	24.2	EMR	11		TT	
00014	04/07/80	83.8	26.1	EMR	11		TT	
00015	04/07/80	91.4	27.8	EMR	11		TT	
00016	04/07/80	99.1	29.6	EMR	11		TT	
00017	04/07/80	106.7	29.9	EMR	11		TT	
00018	04/07/80	114.3	25.7	EMR	11		TT	
00019	04/07/80	121.9	20.0	EMR	11		TT	
00020	04/07/80	129.5	20.9	EMR	11		TT	
00021	04/07/80	137.2	22.7	EMR	11		TT	
00022	04/07/80	139.6	23.1	EMR	11		TT	
00023	08/07/80	150.5	25.5	EMR	6	14.5	BHT	
00024	06/08/80	179.0	31.7	EMR	6	4.5	BHT	
00025	07/08/80	197.3	32.7	EMR	6		BHT	MAYBE OBT
00026	08/08/80	218.0	38.0	EMR	6		BHT	
00027	09/08/80	243.5	41.4	EMR	6		BHT	
00028	25/08/80	257.0	43.6	EMR	14	4.0	BHT	
00029	26/08/80	277.5	45.8	EMR	6	8.0	BHT	
00030	03/09/80	330.0	51.0	EMR	7		BHT	
00031	04/09/80	349.5	53.0	MRT	8		BHT	
00032	08/09/80	335.3	51.9	EMR	5		TT	TT W/HOLE § 439
00033	08/09/80	350.5	53.2	EMR	5		TT	TT W/HOLE § 439
00034	08/09/80	365.8	54.7	EMR	5		TT	TT W/HOLE § 439
00035	08/09/80	381.0	56.0	EMR	5		TT	TT W/HOLE § 439
00036	08/09/80	396.2	57.3	EMR	5		TT	TT W/HOLE § 439
00037	08/09/80	411.5	58.7	EMR	5		TT	TT W/HOLE § 439
00038	08/09/80	426.7	59.7	EMR	5		TT	TT W/HOLE § 439
00039	08/09/80	439.6	60.7	EMR	5		TT	TT W/HOLE § 439
00040	08/09/80	439.6	60.0	MRT	5.5		BHT	CHEK ABOVE RDG
00041	13/09/80	487.0	62.0	MRT	14		BHT	POSSIBLY OBT
00042	20/09/80	440.0	60.6	EMR	8		TT	TT W/HOLE § 635
00043	20/09/80	450.0	61.2	EMR	8		TT	TT W/HOLE § 635

00044	20/09/80	460.0	60.0	EMR	8	TT	TT	W/HOLE	8	635
00045	20/09/80	470.0	62.7	EMR	8	TT	TT	W/HOLE	8	635
00046	20/09/80	480.0	63.2	EMR	8	TT	TT	W/HOLE	8	635
00047	20/09/80	500.0	64.5	EMR	8	TT	TT	W/HOLE	8	635
00048	20/09/80	520.0	65.7	EMR	8	TT	TT	W/HOLE	8	635
00049	20/09/80	530.0	66.2	EMR	8	TT	TT	W/HOLE	8	635
00050	20/09/80	540.0	66.9	EMR	8	TT	TT	W/HOLE	8	635
00051	20/09/80	550.0	67.5	EMR	8	TT	TT	W/HOLE	8	635
00052	20/09/80	570.0	68.5	EMR	8	TT	TT	W/HOLE	8	635
00053	20/09/80	590.0	69.8	EMR	8	TT	TT	W/HOLE	8	635
00054	20/09/80	610.0	71.1	EMR	8	TT	TT	W/HOLE	8	635
00055	20/09/80	620.0	71.8	EMR	8	TT	TT	W/HOLE	8	635
00056	20/09/80	634.6	72.8	EMR	8	TT	TT	W/HOLE	8	635
00057	29/09/80	10.0	0.0	EMR	10	TT	TT	W/HOLE	8	740
00058	29/09/80	20.0	15.3	EMR	10	TT	TT	W/HOLE	8	740
00059	29/09/80	30.0	18.0	EMR	10	TT	TT	W/HOLE	8	740
00060	29/09/80	40.0	20.4	EMR	10	TT	TT	W/HOLE	8	740
00061	29/09/80	50.0	22.3	EMR	10	TT	TT	W/HOLE	8	740
00062	29/09/80	60.0	24.5	EMR	10	TT	TT	W/HOLE	8	740
00063	29/09/80	70.0	26.2	EMR	10	TT	TT	W/HOLE	8	740
00064	29/09/80	80.0	28.4	EMR	10	TT	TT	W/HOLE	8	740
00065	29/09/80	90.0	30.5	EMR	10	TT	TT	W/HOLE	8	740
00066	29/09/80	100.0	32.6	EMR	10	TT	TT	W/HOLE	8	740
00067	29/09/80	110.0	32.2	EMR	10	TT	TT	W/HOLE	8	740
00068	29/09/80	120.0	26.3	EMR	10	TT	TT	W/HOLE	8	740
00069	29/09/80	130.0	25.1	EMR	10	TT	TT	W/HOLE	8	740
00070	29/09/80	140.0	27.7	EMR	10	TT	TT	W/HOLE	8	740
00071	29/09/80	150.0	29.0	EMR	10	TT	TT	W/HOLE	8	740
00072	29/09/80	160.0	30.7	EMR	10	TT	TT	W/HOLE	8	740
00073	29/09/80	170.0	32.2	EMR	10	TT	TT	W/HOLE	8	740
00074	29/09/80	180.0	33.8	EMR	10	TT	TT	W/HOLE	8	740
00075	29/09/80	190.0	35.1	EMR	10	TT	TT	W/HOLE	8	740
00076	29/09/80	200.0	36.8	EMR	10	TT	TT	W/HOLE	8	740
00077	29/09/80	210.0	38.2	EMR	10	TT	TT	W/HOLE	8	740
00078	29/09/80	220.0	39.3	EMR	10	TT	TT	W/HOLE	8	740
00079	29/09/80	230.0	40.6	EMR	10	TT	TT	W/HOLE	8	740
00080	29/09/80	240.0	41.9	EMR	10	TT	TT	W/HOLE	8	740
00081	29/09/80	250.0	43.1	EMR	10	TT	TT	W/HOLE	8	740
00082	29/09/80	260.0	44.3	EMR	10	TT	TT	W/HOLE	8	740
00083	29/09/80	270.0	45.3	EMR	10	TT	TT	W/HOLE	8	740
00084	29/09/80	280.0	46.4	EMR	10	TT	TT	W/HOLE	8	740
00085	29/09/80	290.0	47.4	EMR	10	TT	TT	W/HOLE	8	740
00086	29/09/80	300.0	48.5	EMR	10	TT	TT	W/HOLE	8	740
00087	29/09/80	310.0	49.5	EMR	10	TT	TT	W/HOLE	8	740
00088	29/09/80	320.0	50.4	EMR	10	TT	TT	W/HOLE	8	740
00089	29/09/80	330.0	51.4	EMR	10	TT	TT	W/HOLE	8	740
00090	29/09/80	340.0	52.2	EMR	10	TT	TT	W/HOLE	8	740
00091	29/09/80	350.0	53.1	EMR	10	TT	TT	W/HOLE	8	740
00092	29/09/80	360.0	54.1	EMR	10	TT	TT	W/HOLE	8	740
00093	29/09/80	370.0	54.7	EMR	10	TT	TT	W/HOLE	8	740
00094	29/09/80	380.0	55.6	EMR	10	TT	TT	W/HOLE	8	740
00095	29/09/80	390.0	56.3	EMR	10	TT	TT	W/HOLE	8	740
00096	29/09/80	400.0	57.3	EMR	10	TT	TT	W/HOLE	8	740
00097	29/09/80	410.0	58.0	EMR	10	TT	TT	W/HOLE	8	740
00098	29/09/80	420.0	58.6	EMR	10	TT	TT	W/HOLE	8	740
00099	29/09/80	430.0	59.5	EMR	10	TT	TT	W/HOLE	8	740
00100	29/09/80	440.0	60.1	EMR	10	TT	TT	W/HOLE	8	740
00101	29/09/80	450.0	60.7	EMR	10	TT	TT	W/HOLE	8	740
00102	29/09/80	460.0	61.9	EMR	10	TT	TT	W/HOLE	8	740

00103	29/09/80	470.0	62.5	EMR	10	TT	TT W/HOLE	§	740
00104	29/09/80	480.0	63.2	EMR	10	TT	TT W/HOLE	§	740
00105	29/09/80	490.0	63.9	EMR	10	TT	TT W/HOLE	§	740
00106	29/09/80	500.0	64.7	EMR	10	TT	TT W/HOLE	§	740
00107	29/09/80	510.0	65.4	EMR	10	TT	TT W/HOLE	§	740
00108	29/09/80	520.0	65.9	EMR	10	TT	TT W/HOLE	§	740
00109	29/09/80	530.0	66.5	EMR	10	TT	TT W/HOLE	§	740
00110	29/09/80	540.0	67.1	EMR	10	TT	TT W/HOLE	§	740
00111	29/09/80	550.0	67.8	EMR	10	TT	TT W/HOLE	§	740
00112	29/09/80	560.0	68.4	EMR	10	TT	TT W/HOLE	§	740
00113	29/09/80	570.0	69.0	EMR	10	TT	TT W/HOLE	§	740
00114	29/09/80	580.0	69.5	EMR	10	TT	TT W/HOLE	§	740
00115	29/09/80	590.0	70.1	EMR	10	TT	TT W/HOLE	§	740
00116	29/09/80	600.0	70.7	EMR	10	TT	TT W/HOLE	§	740
00117	29/09/80	610.0	71.2	EMR	10	TT	TT W/HOLE	§	740
00118	29/09/80	620.0	71.8	EMR	10	TT	TT W/HOLE	§	740
00119	29/09/80	630.0	72.6	EMR	10	TT	TT W/HOLE	§	740
00120	29/09/80	640.0	73.0	EMR	10	TT	TT W/HOLE	§	740
00121	29/09/80	650.0	73.5	EMR	10	TT	TT W/HOLE	§	740
00122	29/09/80	660.0	74.1	EMR	10	TT	TT W/HOLE	§	740
00123	29/09/80	670.0	74.5	EMR	10	TT	TT W/HOLE	§	740
00124	29/09/80	680.0	75.0	EMR	10	TT	TT W/HOLE	§	740
00125	29/09/80	690.0	75.6	EMR	10	TT	TT W/HOLE	§	740
00126	29/09/80	700.0	76.0	EMR	10	TT	TT W/HOLE	§	740
00127	29/09/80	710.0	76.6	EMR	10	TT	TT W/HOLE	§	740
00128	29/09/80	720.0	77.3	EMR	10	TT	TT W/HOLE	§	740
00129	29/09/80	730.0	78.1	EMR	10	TT	TT W/HOLE	§	740
00130	29/09/80	740.0	78.5	EMR	10	TT	TT W/HOLE	§	740
00131	08/10/80	700.0	76.4	EMR	4.5	TT	TT W/HOLE	§	902
00132	08/10/80	750.0	79.0	EMR	4.5	TT	TT W/HOLE	§	902
00133	08/10/80	775.0	80.3	EMR	4.5	TT	TT W/HOLE	§	902
00134	08/10/80	800.0	81.4	EMR	4.5	TT	TT W/HOLE	§	902
00135	08/10/80	825.0	82.4	EMR	4.5	TT	TT W/HOLE	§	902
00136	08/10/80	850.0	83.4	EMR	4.5	TT	TT W/HOLE	§	902
00137	08/10/80	875.0	84.5	EMR	4.5	TT	TT W/HOLE	§	902
00138	08/10/80	902.0	86.1	EMR	4.5	TT	TT W/HOLE	§	902
00139	18/10/80	947.0	89.5	K	15	BHT			
00140	19/10/80	956.0	89.8	K	8	BHT	TEMP +/- 2C		
00141	20/10/80	440.0	58.3	K	8	TT	TEST K CALIBRN		
00142	20/10/80	635.0	72.5	K	8	TT	TEST K CALIBRN		
00143	20/10/80	965.0	90.4	K	8	TT	BHT		
00144	30/10/80	920.0	87.0	K	6	TT	TT W/HOLE	§1022	
00145	30/10/80	990.0	90.7	K	6	TT	TT W/HOLE	§1022	
00146	30/10/80	1001.0	91.3	K	6	TT	TT W/HOLE	§1022	
00147	30/10/80	1021.7	93.0	K	6	TT	BHT		
00148	04/11/80	1010.0	91.4	K	6.5	TT	TT W/HOLE	§1094	
00149	04/11/80	1040.0	93.6	K	6.5	TT	TT W/HOLE	§1094	
00150	04/11/80	1070.0	95.3	K	6.5	TT	TT W/HOLE	§1094	
00151	04/11/80	1094.0	96.9	K	6.5	TT	BHT		
00152	10/11/80	700.0	75.2	K	36+	TT	HOLE §	1137	
00153	10/11/80	710.0	76.5	K	36+	TT	HOLE §	1137	
00154	10/11/80	720.0	77.1	K	36+	TT	HOLE §	1137	
00155	10/11/80	730.0	77.7	K	36+	TT	HOLE §	1137	
00156	10/11/80	740.0	78.2	K	36+	TT	HOLE §	1137	
00157	10/11/80	750.0	78.7	K	36+	TT	HOLE §	1137	
00158	10/11/80	760.0	79.1	K	36+	TT	HOLE §	1137	
00159	10/11/80	770.0	79.5	K	36+	TT	HOLE §	1137	

00160	10/11/80	780.0	80.1 K	36+	TT	HOLE	§	1137
00161	10/11/80	790.0	80.6 K	36+	TT	HOLE	§	1137
00162	10/11/80	800.0	81.1 K	36+	TT	HOLE	§	1137
00163	10/11/80	810.0	81.7 K	36+	TT	HOLE	§	1137
00164	10/11/80	820.0	82.2 K	36+	TT	HOLE	§	1137
00165	10/11/80	830.0	82.7 K	36+	TT	HOLE	§	1137
00166	10/11/80	840.0	83.2 K	36+	TT	HOLE	§	1137
00167	10/11/80	850.0	83.7 K	36+	TT	HOLE	§	1137
00168	10/11/80	860.0	84.2 K	36+	TT	HOLE	§	1137
00169	10/11/80	870.0	84.9 K	36+	TT	HOLE	§	1137
00170	10/11/80	880.0	85.4 K	36+	TT	HOLE	§	1137
00171	10/11/80	890.0	86.0 K	36+	TT	HOLE	§	1137
00172	10/11/80	900.0	86.4 K	36+	TT	HOLE	§	1137
00173	10/11/80	910.0	87.0 K	36+	TT	HOLE	§	1137
00174	10/11/80	920.0	87.5 K	36+	TT	HOLE	§	1137
00175	10/11/80	930.0	88.1 K	36+	TT	HOLE	§	1137
00176	10/11/80	940.0	88.6 K	36+	TT	HOLE	§	1137
00177	10/11/80	950.0	89.1 K	36+	TT	HOLE	§	1137
00178	10/11/80	960.0	89.6 K	36+	TT	HOLE	§	1137
00179	10/11/80	970.0	90.2 K	36+	TT	HOLE	§	1137
00180	10/11/80	980.0	90.6 K	36+	TT	HOLE	§	1137
00181	10/11/80	990.0	91.2 K	36+	TT	HOLE	§	1137
00182	10/11/80	1000.0	91.7 K	36+	TT	HOLE	§	1137
00183	10/11/80	1010.0	92.2 K	36+	TT	HOLE	§	1137
00184	10/11/80	1020.0	92.8 K	36+	TT	HOLE	§	1137
00185	10/11/80	1030.0	93.4 K	36+	TT	HOLE	§	1137
00186	10/11/80	1040.0	93.9 K	36+	TT	HOLE	§	1137
00187	10/11/80	1050.0	94.5 K	36+	TT	HOLE	§	1137
00188	10/11/80	1060.0	95.0 K	36+	TT	HOLE	§	1137
00189	10/11/80	1070.0	95.5 K	36+	TT	HOLE	§	1137
00190	10/11/80	1080.0	96.0 K	36+	TT	HOLE	§	1137
00191	10/11/80	1090.0	96.5 K	36+	TT	HOLE	§	1137
00192	10/11/80	1100.0	97.0 K	36+	TT	HOLE	§	1137
00193	14/11/80	1110.0	96.2 K	8	TT	HOLE	§	1142
00194	14/11/80	1120.0	97.1 K	8	TT	HOLE	§	1142
00195	14/11/80	1130.0	97.8 K	8	TT	HOLE	§	1142
00196	14/11/80	1141.0	98.3 K	8	TT	HOLE	§	1142

STRUCTURE FOR FILE: M10TEMP.DBF

NUMBER OF RECORDS: 00285

DATE OF LAST UPDATE: 09/01/83

PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	

** TOTAL ** 00055

. list

00001	28/06/80	35.5	18.0	MRT	5	14.6	BHT	
00002	29/06/80	35.5	16.0	MRT	7	12.0	BHT	
00003	30/06/80	36.0	21.1	EMR	6		OBT	
00004	01/07/80	52.0	20.3	EMR	6		BHT	
00005	23/07/80	58.0	23.6	EMR	6		BHT	
00006	24/07/80	65.5	24.6	EMR	6		OBT	T SUSPECT-VAR R
00007	25/07/80	83.5	35.8	EMR	6	13	OBT	T SUSPECT-VAR R
00008	26/07/80	101.5	67.9	EMR	6		BHT	T SUSPECT-VAR R
00009	27/07/80	119.5	88.9	EMR	6	17	BHT	T SUSPECT-VAR R
00010	27/07/80	119.5	70.0	MRT	6	17	BHT	MRT CHEK ON EMR
00011	11/08/80	6.1	9.6	EMR	11	d 17	TT	
00012	11/08/80	9.1	9.7	EMR	11	d 17	TT	HOLE § 128.5 m
00013	11/08/80	12.2	9.9	EMR	11	d 17	TT	HOLE § 128.5 m
00014	11/08/80	15.2	9.7	EMR	11	d 17	TT	HOLE § 128.5 m
00015	11/08/80	18.3	10.5	EMR	11	d 17	TT	HOLE § 128.5 m
00016	11/08/80	21.3	11.6	EMR	11	d 17	TT	HOLE § 128.5 m
00017	11/08/80	24.4	12.5	EMR	11	d 17	TT	HOLE § 128.5 m
00018	11/08/80	27.4	13.3	EMR	11	d 17	TT	HOLE § 128.5 m
00019	11/08/80	30.5	14.0	EMR	11	d 17	TT	HOLE § 128.5 m
00020	11/08/80	33.5	14.7	EMR	11	d 17	TT	HOLE § 128.5 m
00021	11/08/80	36.6	15.7	EMR	11	d 17	TT	HOLE § 128.5 m
00022	11/08/80	39.6	16.7	EMR	11	d 17	TT	HOLE § 128.5 m
00023	11/08/80	42.7	17.7	EMR	11	d 17	TT	HOLE § 128.5 m
00024	11/08/80	45.7	18.8	EMR	11	d 17	TT	HOLE § 128.5 m
00025	11/08/80	48.8	19.8	EMR	11	d 17	TT	HOLE BLOKD § 50
00026	01/04/81	100.0	58.8	MRT	15	8	OBT	BEHIND TRICONE
00027	02/04/81	112.0	79.8	MRT	15	4.5	OBT	BEHIND TRICONE
00028	03/04/81	123.0	87.3	MRT	15	1.0	OBT	BEHIND TRICONE
00029	04/04/81	129.0	87.5	MRT	15		BHT	
00030	05/04/81	146.0	91.2	K	14	24.5	OBT	K & RODS 3m OB
00031	06/04/81	161.0	108.0	K	15	24	BHT	
00032	07/04/81	171.5	116.3	K	14	25.5	BHT	
00033	08/04/81	180.5	120.9	K	14		BHT	
00034	08/04/81	100.0	79.2	K	27		TT	CHEK INVERSION
00035	08/04/81	110.0	88.5	K	27		TT	CHEK INVERSION
00036	08/04/81	120.0	96.5	K	27		TT	CHEK INVERSION
00037	08/04/81	130.0	95.3	K	27		TT	CHEK INVERSION
00038	08/04/81	140.0	96.4	K	27		TT	CHEK INVERSION
00039	08/04/81	150.0	101.1	K	27		TT	CHEK INVERSION
00040	08/04/81	160.0	109.9	K	27		TT	CHEK INVERSION
00041	08/04/81	170.0	115.2	K	27		TT	CHEK INVERSION
00042	08/04/81	180.5	122.6	K	27		TT	BHT
00043	11/04/81	192.5	128.7	K	14		BHT	

00044	12/04/81	216.5	132.1	K	6		BHT	
00045	22/04/81	150.0	101.7	K	8		TT	CHEK INVERSION
00046	22/04/81	165.0	110.1	K	8		TT	CHEK INVERSION
00047	22/04/81	180.0	115.0	K	8		TT	CHEK INVERSION
00048	22/04/81	195.0	121.7	K	8		TT	CHEK INVERSION
00049	22/04/81	210.0	126.2	K	8		TT	CHEK INVERSION
00050	22/04/81	225.0	133.1	K	8		TT	CHEK INVERSION
00051	22/04/81	244.5	140.7	K	8		TT	BHT
00052	23/04/81	257.0	144.7	K	7		BHT	
00053	24/04/81	284.0	151.2	K	7	30	BHT	
00054	10/05/81	300.0	153.7	K	11.5		BHT	H2S NOTED
00055	11/05/81	323.0	158.3	K	7		BHT	
00056	12/05/81	347.0	162.5	K	7		BHT	
00057	15/05/81	381.0	159.0	K	4.5		BHT	
00058	21/05/81	410.0	156.3	K	6.5	42	BHT	
00059	22/05/81	425.0	157.3	K	6		BHT	
00060	23/05/81	443.0	153.7	K	6		BHT	
00061	26/05/81	474.5	157.2	K	6	38	BHT	
00062	27/05/81	494.0	158.2	K	6	40	BHT	
00063	28/05/81	503.0	159.6	K	6		OBT	
00064	04/06/81	530.0	159.8	K	6		BHT	
00065	05/06/81	542.0	160.6	K	6		BHT	
00066	06/06/81	557.0	160.3	K	6	29	BHT	
00067	07/06/81	572.0	160.6	K	6		BHT	
00068	08/06/81	578.0	164.0	MRT	6		BHT	
00069	09/06/81	582.5	160.0	K	6		BHT	
00070	17/06/81	594.0	160.7	K	7		OBT	
00071	20/06/81	620.0	161.5	K	7		BHT	
00072	21/06/81	650.0	161.1	K	7		BHT	
00073	22/06/81	674.0	161.2	K	7		BHT	
00074	27/06/81	711.0	160.5	K	7		BHT	
00075	30/06/81	745.0	159.4	K	10	13	OBT	
00076	30/06/81	757.0	159.0	K	7.5		OBT	
00077	01/07/81	770.0	158.7	K	7	9(?)	BHT	
00078	07/07/81	785.0	158.7	K	5		BHT	
00079	09/07/81	821.0	159.2	K	5		BHT	
00080	11/07/81	842.0	159.5	K	5		BHT	
00081	13/07/81	875.0	159.3	K	5		BHT	
00082	16/07/81	905.0	159.0	K	5		BHT	
00083	22/07/81	935.0	158.7	K	5		BHT	
00084	24/07/81	962.0	158.7	K	5		BHT	
00085	27/07/81	997.0	159.2	K	5		OBT	HOLE § 1005.5 m
00086	29/07/81	1037.0	159.6	K	5		BHT	
00087	31/07/81	1053.0	159.1	K	4		OBT	HOLE § 1062.5 m
00088	02/08/81	60.0	75.8	K	51		PDTT	T'S 0-60 < 75c
00089	02/08/81	70.0	78.0	K	51		PDTT	
00090	02/08/81	80.0	80.9	K	51		PDTT	
00091	02/08/81	90.0	84.3	K	51		PDTT	
00092	02/08/81	101.0	91.2	K	51		PDTT	
00093	02/08/81	110.0	99.4	K	51		PDTT	NOT EQUILIB T
00094	02/08/81	120.0	103.1	K	51		PDTT	
00095	02/08/81	130.0	105.0	K	51		PDTT	
00096	02/08/81	140.0	106.9	K	51		PDTT	
00097	02/08/81	150.0	109.6	K	51		PDTT	
00098	02/08/81	160.0	112.9	K	51		PDTT	
00099	02/08/81	170.0	117.1	K	51		PDTT	
00100	02/08/81	180.0	121.8	K	51		PDTT	
00101	02/08/81	190.0	129.0	K	51		PDTT	
00102	02/08/81	200.0	129.6	K	51		PDTT	

00103	02/08/81	210.0	131.6	K	51		PDTT
00104	02/08/81	220.0	134.8	K	51		PDTT
00105	02/08/81	230.0	137.3	K	51		PDTT
00106	02/08/81	240.0	139.6	K	51		PDTT
00107	02/08/81	250.0	141.7	K	51		PDTT
00108	02/08/81	260.0	143.6	K	51		PDTT
00109	02/08/81	270.0	145.7	K	51		PDTT
00110	02/08/81	280.0	147.0	K	51		PDTT
00111	02/08/81	290.0	148.9	K	51		PDTT
00112	03/08/81	265.0	149.9	K	51		PDTT
00113	03/08/81	275.0	151.8	K	51		PDTT
00114	03/08/81	285.0	153.0	K	51		PDTT
00115	03/08/81	295.0	154.6	K	51		PDTT
00116	03/08/81	305.0	156.4	K	51		PDTT
00117	03/08/81	315.0	157.9	K	51		PDTT
00118	03/08/81	325.0	159.9	K	51		PDTT
00119	03/08/81	335.0	160.7	K	51		PDTT
00120	03/08/81	355.0	161.1	K	51		PDTT
00121	03/08/81	375.0	160.1	K	51		PDTT
00122	03/08/81	395.0	160.4	K	51		PDTT
00123	03/08/81	415.0	160.5	K	51		PDTT
00124	03/08/81	435.0	160.6	K	51		PDTT
00125	03/08/81	455.0	160.8	K	51		PDTT
00126	03/08/81	475.0	161.0	K	51		PDTT
00127	03/08/81	495.0	161.3	K	51		PDTT
00128	03/08/81	515.0	161.5	K	51		PDTT
00129	03/08/81	535.0	161.6	K	51		PDTT
00130	03/08/81	557.0	161.6	K	51		PDTT
00131	03/08/81	575.0	161.5	K	51		PDTT
00132	03/08/81	595.0	161.4	K	51		PDTT
00133	03/08/81	615.0	161.1	K	51		PDTT
00134	03/08/81	635.0	161.0	K	51		PDTT
00135	03/08/81	655.0	160.7	K	51		PDTT
00136	03/08/81	675.0	160.7	K	51		PDTT
00137	03/08/81	695.0	160.5	K	51		PDTT
00138	03/08/81	715.0	160.2	K	51		PDTT
00139	03/08/81	735.0	160.1	K	51		PDTT
00140	03/08/81	755.0	159.9	K	51		PDTT
00141	03/08/81	775.0	159.7	K	51		PDTT
00142	03/08/81	795.0	159.7	K	51		PDTT
00143	03/08/81	815.0	159.6	K	51		PDTT
00144	03/08/81	835.0	159.5	K	51		PDTT
00145	03/08/81	855.0	159.5	K	51		PDTT
00146	03/08/81	875.0	159.4	K	51		PDTT
00147	03/08/81	895.0	159.3	K	51		PDTT
00148	03/08/81	915.0	159.2	K	51		PDTT
00149	03/08/81	935.0	159.2	K	51		PDTT
00150	03/08/81	955.0	159.1	K	51		PDTT
00151	03/08/81	975.0	159.1	K	51		PDTT
00152	03/08/81	995.0	159.1	K	51		PDTT
00153	03/08/81	1015.0	158.9	K	51		PDTT
00154	03/08/81	1035.0	159.0	K	51		PDTT
00155	03/08/81	1045.0	158.9	K	51		PDTT
00156	11/09/81	150.0	101.0	MRT	1 mo	29.5	OBT
00157	14/09/81	280.0	153.0	MRT	1 mo	29.5	OBT
00158	14/09/81	309.0	157.0	MRT	1 mo	29.5	OBT
00159	16/09/81	588.0	158.0	MRT	1 mo		OBT
00160	16/09/81	322.0	159.4	K	936	29.5	PDTT
00161	16/09/81	342.0	164.4	K	936	29.5	PDTT

00162	16/09/81	362.0	162.3	K	936	29.5	PDTT
00163	16/09/81	382.0	161.0	K	936	29.5	PDTT
00164	16/09/81	402.0	161.2	K	936	29.5	PDTT
00165	16/09/81	422.0	161.3	K	936	29.5	PDTT
00166	16/09/81	442.0	161.4	K	936	29.5	PDTT
00167	16/09/81	462.0	161.5	K	936	29.5	PDTT
00168	16/09/81	482.0	161.7	K	936	29.5	PDTT
00169	16/09/81	502.0	162.0	K	936	29.5	PDTT
00170	16/09/81	522.0	162.1	K	936	29.5	PDTT
00171	16/09/81	542.0	162.0	K	936	29.5	PDTT
00172	16/09/81	562.0	161.6	K	936	29.5	PDTT
00173	16/09/81	582.0	161.0	K	936	29.5	PDTT
00174	16/09/81	302.0	155.2	K	936	29.5	PDTT
00175	16/09/81	282.0	151.8	K	936	29.5	PDTT
00176	17/09/81	42.0	21.4	K	960	29.5	PDTT LO RNG K TOOL
00177	17/09/81	52.0	21.5	K	960	29.5	PDTT
00178	17/09/81	62.0	25.9	K	960	29.5	PDTT
00179	17/09/81	72.0	31.8	K	960	29.5	PDTT
00180	17/09/81	82.0	38.6	K	960	29.5	PDTT
00181	17/09/81	92.0	46.7	K	960	29.5	PDTT
00182	17/09/81	102.0	59.9	K	960	29.5	PDTT
00183	17/09/81	112.0	76.7	K	960	29.5	PDTT
00184	17/09/81	122.0	82.9	K	960	29.5	PDTT
00185	17/09/81	132.0	89.6	K	960	29.5	PDTT
00186	17/09/81	142.0	90.7	K	960	29.5	PDTT
00187	17/09/81	152.0	97.7	K	960	29.5	PDTT
00188	17/09/81	162.0	105.9	K	960	29.5	PDTT
00189	17/09/81	172.0	113.3	K	960	29.5	PDTT
00190	17/09/81	182.0	119.4	K	960	29.5	PDTT
00191	17/09/81	192.0	124.7	K	960	29.5	PDTT
00192	17/09/81	202.0	129.5	K	960	29.5	PDTT
00193	17/09/81	192.0	121.4	K	960	29.5	PDTT HI RNG K TOOL
00194	17/09/81	202.0	129.5	K	960	29.5	PDTT
00195	17/09/81	212.0	133.5	K	960	29.5	PDTT
00196	17/09/81	222.0	136.3	K	960	29.5	PDTT
00197	17/09/81	232.0	138.8	K	960	29.5	PDTT
00198	17/09/81	242.0	141.6	K	960	29.5	PDTT
00199	17/09/81	252.0	144.7	K	960	29.5	PDTT
00200	17/09/81	262.0	145.2	K	960	29.5	PDTT
00201	17/09/81	272.0	148.2	K	960	29.5	PDTT
00202	17/09/81	282.0	150.3	K	960	29.5	PDTT
00203	17/09/81	292.0	152.0	K	960	29.5	PDTT
00204	17/09/81	302.0	154.3	K	960	29.5	PDTT
00205	02/10/81	292.0	150.9	K	48		PDTT
00206	02/10/81	302.0	154.9	K	48		PDTT
00207	02/10/81	312.0	159.2	K	48		PDTT
00208	02/10/81	322.0	160.5	K	48		PDTT
00209	02/10/81	332.0	163.0	K	48		PDTT
00210	02/10/81	342.0	164.7	K	48		PDTT
00211	02/10/81	352.0	164.7	K	48		PDTT
00212	02/10/81	362.0	163.3	K	48		PDTT
00213	02/10/81	372.0	161.4	K	48		PDTT
00214	02/10/81	382.0	161.4	K	48		PDTT
00215	02/10/81	392.0	161.6	K	48		PDTT
00216	02/10/81	412.0	161.2	K	48		PDTT
00217	02/10/81	432.0	161.2	K	48		PDTT
00218	02/10/81	452.0	161.3	K	48		PDTT
00219	02/10/81	472.0	161.4	K	48		PDTT
00220	02/10/81	492.0	161.7	K	48		PDTT

00221	02/10/81	512.0	161.7	K	48	PDTT
00222	02/10/81	532.0	161.7	K	48	PDTT
00223	02/10/81	552.0	161.7	K	48	PDTT
00224	02/10/81	572.0	161.0	K	48	PDTT
00225	02/10/81	592.0	160.5	K	48	PDTT
00226	02/10/81	612.0	160.1	K	48	PDTT
00227	02/10/81	632.0	159.8	K	48	PDTT
00228	02/10/81	652.0	159.3	K	48	PDTT
00229	02/10/81	672.0	158.8	K	48	PDTT
00230	02/10/81	692.0	158.4	K	48	PDTT
00231	02/10/81	712.0	158.0	K	48	PDTT
00232	02/10/81	732.0	157.7	K	48	PDTT
00233	02/10/81	752.0	157.5	K	48	PDTT
00234	02/10/81	772.0	157.3	K	48	PDTT
00235	02/10/81	792.0	157.3	K	48	PDTT
00236	02/10/81	812.0	157.4	K	48	PDTT
00237	02/10/81	832.0	157.9	K	48	PDTT
00238	02/10/81	852.0	157.7	K	48	PDTT
00239	02/10/8					

STRUCTURE FOR FILE: M11TEMP.DBF
NUMBER OF RECORDS: 00093
DATE OF LAST UPDATE: 09/01/83
PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	
** TOTAL **			00055	

. list									
00001	09/08/80	24.0	6.3	EMR	14	BHT			
00002	10/08/80	36.0	7.9	EMR	15	BHT			
00003	11/08/80	46.5	8.5	EMR	14	BHT			
00004	12/08/80	55.5	9.4	EMR	14	10.4	BHT		
00005	14/08/80	75.0	11.3	EMR	15	BHT			
00006	15/08/80	82.5	11.7	EMR	10	11.0	BHT		
00007	16/08/80	22.9	8.0	EMR	20	TT	HOLE	90	m
00008	16/08/80	27.4	8.3	EMR	20	TT	HOLE	90	m
00009	16/08/80	32.3	9.1	EMR	20	TT	HOLE	90	m
00010	16/08/80	36.6	10.3	EMR	20	TT	HOLE	90	m
00011	16/08/80	41.1	9.4	EMR	20	TT	HOLE	90	m
00012	16/08/80	45.7	9.6	EMR	20	TT	HOLE	90	m
00013	16/08/80	50.3	9.9	EMR	20	TT	HOLE	90	m
00014	16/08/80	54.9	10.2	EMR	20	TT	HOLE	90	m
00015	16/08/80	59.7	10.8	EMR	20	TT	HOLE	90	m
00016	16/08/80	64.0	11.1	EMR	20	TT	HOLE	90	m
00017	16/08/80	68.6	11.2	EMR	20	TT	HOLE	90	m
00018	16/08/80	73.2	11.8	EMR	20	TT	HOLE	90	m
00019	16/08/80	78.0	11.8	EMR	20	TT	HOLE	90	m
00020	16/08/80	82.3	12.0	EMR	20	TT	HOLE	90	m
00021	16/08/80	86.9	12.3	EMR	20	TT	HOLE	90	m
00022	16/08/80	90.0	12.5	EMR	20	TT	BHT		
00023	19/08/80	108.0	14.0	EMR	8	BHT			
00024	20/08/80	124.5	15.6	EMR	7	BHT			
00025	21/08/80	142.5	17.5	EMR	7	BHT			
00026	22/08/80	159.0	18.8	EMR	7	BHT			
00027	25/08/80	207.0	23.3	EMR	5	11.5	BHT		
00028	26/08/80	213.0	24.0	EMR	14	11.0	BHT		
00029	27/08/80	219.0	24.6	EMR	14	BHT			
00030	03/09/80	276.5	30.0	MRT	4	BHT			
00031	06/09/80	329.0	34.0	MRT	14	BHT			
00032	07/09/80	341.0	35.0	MRT	14	BHT			
00033	08/09/80	359.0	36.0	MRT	5	BHT			
00034	13/09/80	401.0	40.0	MRT	16	BHT			
00035	17/09/80	437.0	43.0	MRT	8	275	BHT	W.L. EST	
00036	18/09/80	452.0	44.0	MRT	8	BHT			
00037	21/09/80	500.0	48.9	EMR	9	145	BHT	W.L. ESTIMATED	
00038	25/09/80	549.4	50.0	MRT	5	BHT			
00039	31/10/80	559.4	55.0	MRT	30	d	BHT		
00040	28/11/80	10.0	4.7	EMR	58	d	PDTT		
00041	28/11/80	20.0	5.8	EMR	58	d	PDTT		
00042	28/11/80	30.0	6.7	EMR	58	d	PDTT		

00043	28/11/80	40.0	7.6	EMR	58	d	PDTT
00044	28/11/80	50.0	8.5	EMR	58	d	PDTT
00045	28/11/80	60.0	9.5	EMR	58	d	PDTT
00046	28/11/80	70.0	10.6	EMR	58	d	PDTT
00047	28/11/80	80.0	11.5	EMR	58	d	PDTT
00048	28/11/80	90.0	12.4	EMR	58	d	PDTT
00049	28/11/80	100.0	13.4	EMR	58	d	PDTT
00050	28/11/80	110.0	14.4	EMR	58	d	PDTT
00051	28/11/80	120.0	15.1	EMR	58	d	PDTT
00052	28/11/80	130.0	16.2	EMR	58	d	PDTT
00053	28/11/80	140.0	17.2	EMR	58	d	PDTT
00054	28/11/80	150.0	18.1	EMR	58	d	PDTT
00055	28/11/80	160.0	19.0	EMR	58	d	PDTT
00056	28/11/80	170.0	20.0	EMR	58	d	PDTT
00057	28/11/80	180.0	20.8	EMR	58	d	PDTT
00058	28/11/80	190.0	21.5	EMR	58	d	PDTT
00059	28/11/80	200.0	21.9	EMR	58	d	PDTT
00060	28/11/80	210.0	22.4	EMR	58	d	PDTT
00061	28/11/80	220.0	22.9	EMR	58	d	PDTT
00062	28/11/80	230.0	23.5	EMR	58	d	PDTT
00063	28/11/80	240.0	25.9	EMR	58	d	PDTT
00064	28/11/80	250.0	27.2	EMR	58	d	PDTT
00065	28/11/80	260.0	27.8	EMR	58	d	PDTT
00066	28/11/80	270.0	28.5	EMR	58	d	PDTT
00067	28/11/80	280.0	29.4	EMR	58	d	PDTT
00068	28/11/80	290.0	30.2	EMR	58	d	PDTT
00069	28/11/80	300.0	31.2	EMR	58	d	PDTT
00070	28/11/80	310.0	31.9	EMR	58	d	PDTT
00071	28/11/80	320.0	32.8	EMR	58	d	PDTT
00072	28/11/80	330.0	33.5	EMR	58	d	PDTT
00073	28/11/80	340.0	34.5	EMR	58	d	PDTT
00074	28/11/80	350.0	35.3	EMR	58	d	PDTT
00075	28/11/80	360.0	36.0	EMR	58	d	PDTT
00076	28/11/80	360.0	36.6	EMR	58	d	PDTT
00077	28/11/80	380.0	37.1	EMR	58	d	PDTT
00078	28/11/80	390.0	37.7	EMR	58	d	PDTT
00079	28/11/80	400.0	38.4	EMR	58	d	PDTT
00080	28/11/80	410.0	39.2	EMR	58	d	PDTT
00081	28/11/80	420.0	40.0	EMR	58	d	PDTT
00082	28/11/80	430.0	40.9	EMR	58	d	PDTT
00083	28/11/80	440.0	41.6	EMR	58	d	PDTT
00084	28/11/80	450.0	42.7	EMR	58	d	PDTT
00085	28/11/80	460.0	43.6	EMR	58	d	PDTT
00086	28/11/80	470.0	44.2	EMR	58	d	PDTT
00087	28/11/80	480.0	45.4	EMR	58	d	PDTT
00088	28/11/80	490.0	47.2	EMR	58	d	PDTT
00089	28/11/80	500.0	48.3	EMR	58	d	PDTT
00090	28/11/80	510.0	49.3	EMR	58	d	PDTT
00091	28/11/80	520.0	50.1	EMR	58	d	PDTT
00092	28/11/80	530.0	51.1	EMR	58	d	PDTT
00093	28/11/80	540.0	52.3	EMR	58	d	PDTT

STRUCTURE FOR FILE: M12TEMP.DBF

NUMBER OF RECORDS: 00089

DATE OF LAST UPDATE: 09/01/83

PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	

** TOTAL ** 00055

. list

00001	09/10/80	71.5	11.1	EMR	4		BHT	
00002	10/10/80	79.0	11.7	EMR	9.5		BHT	
00003	15/10/80	103.0	13.5	MRT	4		BHT	
00004	17/10/80	134.0	17.0	EMR	11	8.5	BHT	+/- .7C
00005	19/10/80	164.5	18.8	EMR	14	13.1	BHT	
00006	19/10/80	175.0	19.7	EMR	6	7.9	BHT	
00007	23/10/80	202.0	22.0	MRT	14.5		BHT	
00008	26/10/80	227.5	23.5	MRT	48		BHT	
00009	29/10/80	238.0	24.5	MRT	4		BHT	
00010	30/10/80	245.5	25.0	MRT	14.5		BHT	
00011	31/10/80	257.5	25.0	MRT	14.5		BHT	
00012	01/11/80	268.0	26.3	MRT	14.0		BHT	
00013	02/11/80	272.5	26.5	MRT	14.5		BHT	
00014	03/11/80	281.5	26.9	MRT	14.5		BHT	
00015	04/11/80	292.5	27.9	MRT	14.5		BHT	
00016	06/11/80	328.0	30.8	MRT	14.5	3.7	BHT	
00017	12/11/80	349.0	32.0	MRT	15.5		BHT	
00018	16/11/80	401.0	36.0	MRT	6		BHT	
00019	17/11/80	428.0	37.0	MRT	6.5		BHT	
00020	17/11/80	446.0	38.7	MRT	2		BHT	WATER INFLOW
00021	19/11/80	482.0	39.7	MRT	6.5		BHT	WATER INFLOW
00022	21/11/80	527.0	43.5	MRT	7		BHT	
00023	25/11/80	604.0	47.8	MRT	19	3	BHT	
00024	19/11/80	430.0	35.8	EMR	2	ARTES	TT	
00025	19/11/80	440.0	32.8	EMR	2	ARTES	TT	
00026	19/11/80	445.0	27.8	EMR	2	ARTES	TT	
00027	19/11/80	450.0	26.4	EMR	2	ARTES	TT	
00028	19/11/80	455.0	25.6	EMR	2	ARTES	TT	
00029	19/11/80	460.0	25.5	EMR	2	ARTES	TT	
00030	19/11/80	465.0	26.1	EMR	2	ARTES	TT	
00031	19/11/80	470.0	25.9	EMR	2	ARTES	TT	
00032	19/11/80	481.0	45.2	EMR	2	ARTES	TT	
00033	25/11/80	20.0	13.8	EMR	7		PDTT	
00034	25/11/80	30.0	14.6	EMR	7		PDTT	
00035	25/11/80	40.0	15.3	EMR	7		PDTT	
00036	25/11/80	50.0	16.1	EMR	7		PDTT	
00037	25/11/80	60.0	16.9	EMR	7		PDTT	
00038	25/11/80	70.0	17.3	EMR	7		PDTT	
00039	25/11/80	80.0	18.2	EMR	7		PDTT	
00040	25/11/80	90.0	19.3	EMR	7		PDTT	
00041	25/11/80	100.0	20.2	EMR	7		PDTT	
00042	25/11/80	110.0	20.7	EMR	7		PDTT	
00043	25/11/80	130.0	22.3	EMR	7		PDTT	

00044	25/11/80	140.0	23.3	EMR	7	PDTT
00045	25/11/80	150.0	23.7	EMR	7	PDTT
00046	25/11/80	160.0	24.5	EMR	7	PDTT
00047	25/11/80	170.0	24.8	EMR	7	PDTT
00048	25/11/80	180.0	25.7	EMR	7	PDTT
00049	25/11/80	190.0	26.3	EMR	7	PDTT
00050	25/11/80	200.0	26.8	EMR	7	PDTT
00051	25/11/80	210.0	27.8	EMR	7	PDTT
00052	25/11/80	220.0	28.2	EMR	7	PDTT
00053	25/11/80	230.0	28.7	EMR	7	PDTT
00054	25/11/80	240.0	29.1	EMR	7	PDTT
00055	25/11/80	250.0	29.4	EMR	7	PDTT
00056	25/11/80	260.0	29.9	EMR	7	PDTT
00057	25/11/80	270.0	31.2	EMR	7	PDTT
00058	25/11/80	280.0	31.5	EMR	7	PDTT
00059	25/11/80	290.0	32.3	EMR	7	PDTT
00060	25/11/80	300.0	33.1	EMR	7	PDTT
00061	25/11/80	310.0	33.7	EMR	7	PDTT
00062	25/11/80	320.0	34.4	EMR	7	PDTT
00063	25/11/80	330.0	34.9	EMR	7	PDTT
00064	25/11/80	340.0	34.8	EMR	7	PDTT
00065	25/11/80	350.0	35.4	EMR	7	PDTT
00066	25/11/80	360.0	35.9	EMR	7	PDTT
00067	25/11/80	370.0	36.4	EMR	7	PDTT
00068	25/11/80	380.0	36.9	EMR	7	PDTT
00069	25/11/80	390.0	37.5	EMR	7	PDTT
00070	25/11/80	400.0	37.9	EMR	7	PDTT
00071	25/11/80	410.0	38.1	EMR	7	PDTT
00072	25/11/80	420.0	38.4	EMR	7	PDTT
00073	25/11/80	430.0	38.7	EMR	7	PDTT
00074	25/11/80	440.0	38.5	EMR	7	PDTT
00075	25/11/80	450.0	38.7	EMR	7	PDTT
00076	25/11/80	460.0	39.3	EMR	7	PDTT
00077	25/11/80	470.0	39.9	EMR	7	PDTT
00078	25/11/80	480.0	40.4	EMR	7	PDTT
00079	25/11/80	490.0	41.0	EMR	7	PDTT
00080	25/11/80	500.0	41.5	EMR	7	PDTT
00081	25/11/80	510.0	42.2	EMR	7	PDTT
00082	25/11/80	520.0	42.8	EMR	7	PDTT
00083	25/11/80	530.0	43.3	EMR	7	PDTT
00084	25/11/80	540.0	43.9	EMR	7	PDTT
00085	25/11/80	550.0	44.5	EMR	7	PDTT
00086	25/11/80	560.0	45.1	EMR	7	PDTT
00087	25/11/80	570.0	45.6	EMR	7	PDTT
00088	25/11/80	580.0	46.4	EMR	7	PDTT
00089	25/11/80	590.0	47.1	EMR	7	PDTT

STRUCTURE FOR FILE: M13TEMP.DBF
NUMBER OF RECORDS: 00080
DATE OF LAST UPDATE: 09/02/83
PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	
** TOTAL **			00055	

. list

00001	20/03/81	31.0	5.0	MRT	15	8	BHT	
00002	23/03/81	46.0	6.5	MRT	15	23.5	BHT	+/- 0.5 C
00003	24/03/81	52.0	8.0	MRT	15	45.5	BHT	
00004	25/03/81	61.0	9.5	MRT	15	45	BHT	+/- 0.5 C
00005	04/04/81	98.5	19.0	MRT	7	35	BHT	
00006	05/04/81	116.5	23.0	MRT	8	48	BHT	
00007	08/04/81	134.5	27.5	MRT	7		BHT	
00008	09/04/81	146.5	31.0	MRT	8	74.5	BHT	
00009	10/04/81	152.5	32.0	MRT	8		BHT	
00010	11/04/81	167.5	36.5	MRT	8		BHT	
00011	14/04/81	188.5	43.0	MRT	18	94	BHT	
00012	15/04/81	197.5	41.0	MRT	6		BHT	
00013	25/04/81	215.5	48.0	MRT	7	98	BHT	
00014	26/04/81	233.5	56.0	MRT	6	98	BHT	
00015	27/04/81	248.5	56.0	MRT	7		BHT	
00016	28/04/81	265.0	57.0	MRT	7		BHT	
00017	29/04/81	280.0	62.5	MRT	7		BHT	
00018	30/04/81	302.5	65.5	MRT	7	110.5	BHT	
00019	01/05/81	316.0	71.0	MRT	6		BHT	
00020	05/05/81	332.5	74.5	MRT	7	97	BHT	
00021	07/05/81	349.0	77.0	MRT	7	97.5	BHT	
00022	08/05/81	361.0	75.0	MRT	7	109.5	BHT	
00023	09/05/81	380.5	83.0	MRT	7	108.5	BHT	
00024	11/05/81	403.0	82.0	MRT	7	110	BHT	
00025	14/05/81	443.0	96.5	MRT	7	114	BHT	
00026	15/05/81	464.5	98.5	MRT	5	110.5	BHT	
00027	20/05/81	482.3	102.0	MRT	6	111	BHT	
00028	21/05/81	491.5	99.0	MRT	6.5	100	BHT	
00029	22/05/81	506.5	103.0	MRT	6	102.5	BHT	
00030	23/05/81	521.5	105.0	MRT	6	107.5	BHT	
00031	24/05/81	545.5	108.0	MRT	6	106.5	BHT	
00032	25/05/81	566.5	107.0	MRT	6	117	BHT	
00033	26/05/81	575.5	111.5	MRT	6	112.5	BHT	
00034	27/05/81	599.5	114.0	MRT	6	108	BHT	END OF HOLE
00035	23/09/81	110.0	21.3	EMR	4 mo		PDTT	
00036	23/09/81	120.0	24.1	EMR	4 mo		PDTT	
00037	23/09/81	130.0	25.4	EMR	4 mo		PDTT	
00038	23/09/81	140.0	27.0	EMR	4 mo		PDTT	
00039	23/09/81	150.0	28.2	EMR	4 mo		PDTT	
00040	23/09/81	160.0	29.2	EMR	4 mo		PDTT	
00041	23/09/81	170.0	29.9	EMR	4 mo		PDTT	
00042	23/09/81	180.0	30.9	EMR	4 mo		PDTT	
00043	23/09/81	190.0	31.8	EMR	4 mo		PDTT	

00044	23/09/81	200.0	32.8	EMR	4 mo	PDTT
00045	23/09/81	210.0	33.7	EMR	4 mo	PDTT
00046	23/09/81	220.0	34.9	EMR	4 mo	PDTT
00047	23/09/81	230.0	36.2	EMR	4 mo	PDTT
00048	23/09/81	240.0	37.5	EMR	4 mo	PDTT
00049	23/09/81	250.0	38.8	EMR	4 mo	PDTT
00050	23/09/81	260.0	40.1	EMR	4 mo	PDTT
00051	23/09/81	270.0	41.5	EMR	4 mo	PDTT
00052	23/09/81	280.0	42.8	EMR	4 mo	PDTT
00053	23/09/81	290.0	44.4	EMR	4 mo	PDTT
00054	23/09/81	300.0	46.1	EMR	4 mo	PDTT
00055	23/09/81	310.0	47.4	EMR	4 mo	PDTT
00056	23/09/81	320.0	49.1	EMR	4 mo	PDTT
00057	23/09/81	330.0	50.9	EMR	4 mo	PDTT
00058	23/09/81	340.0	52.7	EMR	4 mo	PDTT
00059	23/09/81	350.0	54.2	EMR	4 mo	PDTT
00060	23/09/81	360.0	57.0	EMR	4 mo	PDTT
00061	23/09/81	370.0	60.7	EMR	4 mo	PDTT
00062	23/09/81	380.0	64.1	EMR	4 mo	PDTT
00063	23/09/81	390.0	67.6	EMR	4 mo	PDTT
00064	23/09/81	400.0	74.6	EMR	4 mo	PDTT
00065	23/09/81	410.0	81.7	EMR	4 mo	PDTT
00066	23/09/81	420.0	86.7	EMR	4 mo	PDTT
00067	23/09/81	430.0	91.3	EMR	4 mo	PDTT
00068	23/09/81	440.0	94.0	EMR	4 mo	PDTT
00069	23/09/81	450.0	96.0	EMR	4 mo	PDTT
00070	23/09/81	460.0	97.7	EMR	4 mo	PDTT
00071	23/09/81	470.0	99.4	EMR	4 mo	PDTT
00072	23/09/81	480.0	100.9	EMR	4 mo	PDTT
00073	23/09/81	490.0	102.3	EMR	4 mo	PDTT
00074	23/09/81	500.0	103.7	EMR	4 mo	PDTT
00075	23/09/81	510.0	105.0	EMR	4 mo	PDTT
00076	23/09/81	520.0	106.2	EMR	4 mo	PDTT
00077	23/09/81	530.0	108.2	EMR	4 mo	PDTT
00078	23/09/81	540.0	109.1	EMR	4 mo	PDTT
00079	23/09/81	550.0	109.6	EMR	4 mo	PDTT
00080	23/09/81	560.0	112.6	EMR	4 mo	PDTT

STRUCTURE FOR FILE: M14TEMP.DBF
 NUMBER OF RECORDS: 00065
 DATE OF LAST UPDATE: 09/02/83
 PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	
** TOTAL **			00055	

. list

NO	DATE	DEPTH	TEMP	PROBE	STATIME	WTRLVL	TEMPTYPE	COMMENTS
00001	09/08/81	35.5	14.0	MRT	6			BHT T SUSPECT
	HIGH							
00002	11/08/81	80.0	9.0	MRT	6			BHT
00003	12/08/81	104.0	9.0	MRT	6			BHT
00004	13/08/81	131.0	10.0	MRT	6	4.9		BHT
00005	14/08/81	153.5	11.0	MRT	5			BHT
00006	18/08/81	182.0	12.0	MRT	6			BHT
00007	20/08/81	227.0	14.4	MRT	6	3		BHT
00008	21/08/81	244.0	15.0	MRT	6			BHT
00009	22/08/81	268.0	16.5	MRT	6	2.3		BHT
00010	25/08/81	320.5	20.0	MRT	6			BHT
00011	27/08/81	356.5	22.0	MRT	6	5.9		BHT
00012	28/08/81	383.5	24.0	MRT	6	6.8		BHT
00013	02/09/81	504.0	31.0	MRT	6	2.0		BHT
00014	04/09/81	557.5	34.5	MRT	6			BHT
00015	11/09/81	569.5	35.5	MRT	14	6		BHT
00016	13/09/81	578.5	36.5	MRT	14	5		BHT
00017	06/10/81	80.0	11.0	K	575			PDTT
00018	06/10/81	90.0	8.5	K	575			PDTT
00019	06/10/81	100.0	9.0	K	575			PDTT
00020	06/10/81	110.0	9.3	K	575			PDTT
00021	06/10/81	120.0	9.4	K	575			PDTT
00022	06/10/81	130.0	9.7	K	575			PDTT
00023	06/10/81	140.0	10.0	K	575			PDTT
00024	06/10/81	150.0	10.3	K	575			PDTT
00025	06/10/81	160.0	11.6	K	575			PDTT
00026	06/10/81	170.0	11.8	K	575			PDTT
00027	06/10/81	180.0	12.4	K	575			PDTT
00028	06/10/81	190.0	13.1	K	575			PDTT
00029	06/10/81	200.0	13.4	K	575			PDTT
00030	06/10/81	210.0	13.6	K	575			PDTT
00031	06/10/81	220.0	14.2	K	575			PDTT
00032	06/10/81	230.0	15.1	K	575			PDTT
00033	06/10/81	240.0	15.8	K	575			PDTT
00034	06/10/81	250.0	16.4	K	575			PDTT
00035	06/10/81	260.0	16.9	K	575			PDTT
00036	06/10/81	270.0	17.5	K	575			PDTT
00037	06/10/81	280.0	17.9	K	575			PDTT
00038	06/10/81	290.0	18.5	K	575			PDTT
00039	06/10/81	300.0	19.1	K	575			PDTT
00040	06/10/81	310.0	19.7	K	575			PDTT
00041	06/10/81	320.0	20.0	K	575			PDTT
00042	06/10/81	330.0	20.3	K	575			PDTT

00043	06/10/81	340.0	20.5 K	575	PDTT
00044	06/10/81	350.0	21.5 K	575	PDTT
00045	06/10/81	360.0	22.3 K	575	PDTT
00046	06/10/81	370.0	22.9 K	575	PDTT
00047	06/10/81	380.0	23.1 K	575	PDTT
00048	06/10/81	390.0	24.0 K	575	PDTT
00049	06/10/81	400.0	24.4 K	575	PDTT
00050	06/10/81	410.0	25.3 K	575	PDTT
00051	06/10/81	420.0	25.9 K	575	PDTT
00052	06/10/81	430.0	26.6 K	575	PDTT
00053	06/10/81	440.0	27.1 K	575	PDTT
00054	06/10/81	450.0	27.7 K	575	PDTT
00055	06/10/81	460.0	28.3 K	575	PDTT
00056	06/10/81	470.0	28.9 K	575	PDTT
00057	06/10/81	480.0	29.6 K	575	PDTT
00058	06/10/81	490.0	29.8 K	575	PDTT
00059	06/10/81	500.0	30.3 K	575	PDTT
00060	06/10/81	510.0	31.3 K	575	PDTT
00061	06/10/81	520.0	31.8 K	575	PDTT
00062	06/10/81	530.0	32.0 K	575	PDTT
00063	06/10/81	540.0	32.6 K	575	PDTT
00064	06/10/81	550.0	33.1 K	575	PDTT
00065	06/10/81	560.0	33.7 K	575	PDTT

STRUCTURE FOR FILE: L1TEMP.DBF

NUMBER OF RECORDS: 00079

DATE OF LAST UPDATE: 09/06/83

PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	

** TOTAL ** 00055

. list

00001	00/09/78	51.0	7.0	EMR	11	BHT	
00002	00/09/78	59.0	7.3	EMR	11	BHT	
00003	00/09/78	225.0	29.8	EMR	12	BHT	
00004	00/09/78	258.0	54.9	EMR	12	BHT	
00005	00/09/78	279.0	66.9	EMR	12	BHT	
00006	00/09/78	301.0	86.7	EMR	12	BHT	
00007	00/09/78	331.0	88.8	EMR	12	BHT	
00008	00/09/78	360.0	93.9	EMR	12	BHT	
00009	00/09/78	387.0	95.5	EMR	12	BHT	
00010	00/09/78	410.0	91.3	EMR	12	BHT	
00011	00/09/78	426.0	89.8	EMR	12	BHT	
00012	00/09/78	447.0	84.2	EMR	12	BHT	
00013	00/09/78	473.0	84.1	EMR	12	BHT	
00014	00/09/78	491.0	88.5	EMR	12	BHT	
00015	00/09/78	517.0	93.0	EMR	12	BHT	
00016	00/09/78	534.0	97.5	EMR	12	BHT	
00017	00/09/78	544.0	99.4	EMR	12	BHT	
00018	00/09/78	557.0	101.8	EMR	12	BHT	
00019	00/09/78	573.0	102.8	EMR	12	BHT	PROBE MALFUNCTN
00020	21/10/80	275.0	59.8	EMR	2 yr	PDTT	
00021	21/10/80	275.0	62.5	EMR	2 yr	PDTT	
00022	21/10/80	285.0	65.8	EMR	2 yr	PDTT	
00023	21/10/80	290.0	70.0	EMR	2 yr	PDTT	
00024	21/10/80	295.0	74.1	EMR	2 yr	PDTT	
00025	21/10/80	300.0	77.9	EMR	2 yr	PDTT	
00026	21/10/80	305.0	80.6	EMR	2 yr	PDTT	
00027	21/10/80	310.0	83.2	EMR	2 yr	PDTT	
00028	21/10/80	315.0	85.9	EMR	2 yr	PDTT	
00029	21/10/80	320.0	88.0	EMR	2 yr	PDTT	
00030	21/10/80	325.0	89.0	EMR	2 yr	PDTT	
00031	21/10/80	330.0	90.9	EMR	2 yr	PDTT	
00032	21/10/80	335.0	91.4	EMR	2 yr	PDTT	
00033	21/10/80	340.0	92.6	EMR	2 yr	PDTT	
00034	21/10/80	345.0	93.3	EMR	2 yr	PDTT	
00035	21/10/80	350.0	94.2	EMR	2 yr	PDTT	
00036	21/10/80	355.0	94.9	EMR	2 yr	PDTT	
00037	22/10/80	360.0	95.2	EMR	2 yr	PDTT	
00038	22/10/80	365.0	95.8	EMR	2 yr	PDTT	
00039	22/10/80	370.0	96.1	EMR	2 yr	PDTT	
00040	22/10/80	375.0	96.2	EMR	2 yr	PDTT	
00041	22/10/80	380.0	96.4	EMR	2 yr	PDTT	
00042	22/10/80	385.0	96.3	EMR	2 yr	PDTT	
00043	22/10/80	390.0	96.6	EMR	2 yr	PDTT	
00044	22/10/80	395.0	95.2	EMR	2 yr	PDTT	

00045	22/10/80	400.0	93.9	EMR	2	yf	PDTT
00046	22/10/80	405.0	92.8	EMR	2	yf	PDTT
00047	22/10/80	410.0	92.2	EMR	2	yf	PDTT
00048	24/10/80	415.0	90.7	EMR	2	yf	PDTT
00049	24/10/80	420.0	89.3	EMR	2	yf	PDTT
00050	24/10/80	425.0	88.1	EMR	2	yf	PDTT
00051	24/10/80	430.0	87.9	EMR	2	yf	PDTT
00052	24/10/80	435.0	88.0	EMR	2	yf	PDTT
00053	24/10/80	440.0	87.9	EMR	2	yf	PDTT
00054	24/10/80	445.0	87.8	EMR	2	yf	PDTT
00055	24/10/80	450.0	87.3	EMR	2	yf	PDTT
00056	24/10/80	455.0	86.9	EMR	2	yf	PDTT
00057	24/10/80	460.0	87.5	EMR	2	yf	PDTT
00058	24/10/80	465.0	88.1	EMR	2	yf	PDTT
00059	24/10/80	470.0	88.9	EMR	2	yf	PDTT
00060	24/10/80	475.0	89.6	EMR	2	yf	PDTT
00061	24/10/80	480.0	90.9	EMR	2	yf	PDTT
00062	24/10/80	485.0	91.7	EMR	2	yf	PDTT
00063	24/10/80	490.0	92.6	EMR	2	yf	PDTT
00064	24/10/80	500.0	94.7	EMR	2	yf	PDTT
00065	24/10/80	510.0	96.7	EMR	2	yf	PDTT
00066	24/10/80	520.0	98.7	EMR	2	yf	PDTT
00067	24/10/80	530.0	100.5	EMR	2	yf	PDTT
00068	24/10/80	540.0	102.3	EMR	2	yf	PDTT
00069	24/10/80	550.0	103.5	EMR	2	yf	PDTT
00070	24/10/80	555.0	103.8	EMR	2	yf	PDTT
00071	24/10/80	560.0	104.0	EMR	2	yf	PDTT
00072	24/10/80	565.0	103.7	EMR	2	yf	PDTT
00073	24/10/80	570.0	103.4	EMR	2	yf	PDTT
00074	24/10/80	575.0	102.8	EMR	2	yf	PDTT
00075	24/10/80	580.0	102.2	EMR	2	yf	PDTT
00076	24/10/80	585.0	101.5	EMR	2	yf	PDTT
00077	21/10/80	588.5	101.3	EMR	2	yf	PDTT
00078	24/10/80	590.0	101.5	EMR	2	yf	PDTT
00079	24/10/80	592.8	101.6	EMR	2	yf	PDTT BHT

STRUCTURE FOR FILE: L2TEMP.DBF
NUMBER OF RECORDS: 00108
DATE OF LAST UPDATE: 09/06/83
PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	

** TOTAL ** 00055

. list

00001	29/10/80	5.6	6.0	EMR	6	TT	
00002	29/10/80	7.6	6.0	EMR	6	TT	
00003	29/10/80	10.7	5.6	EMR	6	TT	
00004	29/10/80	13.7	5.3	EMR	6	TT	
00005	29/10/80	16.8	5.2	EMR	6	TT	
00006	29/10/80	19.8	5.3	EMR	6	TT	
00007	29/10/80	22.9	5.4	EMR	6	TT	
00008	29/10/80	25.9	5.7	EMR	6	TT	
00009	29/10/80	29.0	5.9	EMR	6	TT	
00010	29/10/80	32.0	6.0	EMR	6	TT	
00011	29/10/80	35.1	6.2	EMR	6	TT	
00012	29/10/80	38.1	6.3	EMR	6	TT	
00013	29/10/80	41.1	6.3	EMR	6	TT	
00014	29/10/80	42.7	6.4	EMR	6	TT	
00015	03/11/80	30.3	5.3	EMR	4	TT	HOLE § 159
00016	03/11/80	45.4	5.8	EMR	4	TT	HOLE § 159
00017	03/11/80	60.6	6.3	EMR	4	TT	HOLE § 159
00018	03/11/80	75.8	6.8	EMR	4	TT	HOLE § 159
00019	03/11/80	90.9	7.1	EMR	4	TT	HOLE § 159
00020	03/11/80	106.1	7.5	EMR	6	TT	HOLE § 159
00021	03/11/80	121.1	8.1	EMR	4	TT	HOLE § 159
00022	03/11/80	135.5	8.5	EMR	4	TT	CAVE § 135.5 m
00023	14/11/80	366.1	24.5	MRT	4	14	BHT
00024	14/11/80	0.0	6.4	EMR	4	14	TT
00025	14/11/80	15.2	6.3	EMR	4	14	TT
00026	14/11/80	30.5	5.5	EMR	4	14	TT
00027	14/11/80	61.0	6.6	EMR	4	14	TT
00028	14/11/80	91.4	7.3	EMR	4	14	TT
00029	14/11/80	121.9	8.1	EMR	4	14	TT
00030	14/11/80	152.4	8.9	EMR	4	14	TT
00031	14/11/80	182.9	10.6	EMR	4	14	TT
00032	14/11/80	198.1	10.9	EMR	4	14	TT
00033	14/11/80	213.4	11.4	EMR	4	14	TT
00034	14/11/80	228.6	11.9	EMR	4	14	TT
00035	14/11/80	243.8	13.0	EMR	4	14	TT
00036	14/11/80	259.1	13.8	EMR	4	14	TT
00037	14/11/80	274.3	14.9	EMR	4	14	TT
00038	14/11/80	289.6	15.9	EMR	4	14	TT
00039	14/11/80	304.8	16.8	EMR	4	14	TT
00040	14/11/80	320.0	18.4	EMR	4	14	TT
00041	14/11/80	335.3	20.1	EMR	4	14	TT
00042	22/11/80	550.0	38.5	MRT	10		BHT
00043	22/11/80	0.0	13.3	EMR	10		TT
00044	22/11/80	304.8	16.6	EMR	10		TT

00045	22/11/80	320.0	17.8	EMR	10	TT	
00046	22/11/80	335.3	19.7	EMR	10	TT	
00047	22/11/80	350.5	21.0	EMR	10	TT	
00048	22/11/80	365.8	22.8	EMR	10	TT	
00049	22/11/80	381.0	24.0	EMR	10	TT	
00050	22/11/80	396.2	25.3	EMR	10	TT	
00051	22/11/80	411.5	26.6	EMR	10	TT	
00052	22/11/80	426.7	27.8	EMR	10	TT	
00053	22/11/80	442.0	29.0	EMR	10	TT	
00054	22/11/80	457.2	30.4	EMR	10	TT	
00055	22/11/80	472.4	31.5	EMR	10	TT	
00056	22/11/80	487.7	32.1	EMR	10	TT	
00057	22/11/80	502.9	33.8	EMR	10	TT	
00058	22/11/80	516.2	34.8	EMR	10	TT	
00059	22/11/80	525.8	35.4	EMR	10	TT	
00060	22/11/80	533.4	37.0	EMR	10	TT	
00061	22/11/80	545.6	38.0	EMR	10	TT	
00062	25/11/80	595.4	42.5	MRT	9	BHT	
00063	25/11/80	30.5	5.7	EMR	9	TT	
00064	25/11/80	60.7	6.9	EMR	9	TT	
00065	25/11/80	91.4	7.7	EMR	9	TT	
00066	25/11/80	121.9	8.4	EMR	9	TT	
00067	25/11/80	137.2	9.2	EMR	9	TT	
00068	25/11/80	152.4	9.7	EMR	9	TT	
00069	25/11/80	167.6	10.3	EMR	9	TT	
00070	25/11/80	187.9	10.9	EMR	9	TT	
00071	25/11/80	198.1	11.7	EMR	9	TT	
00072	25/11/80	213.4	12.3	EMR	9	TT	
00073	25/11/80	243.8	14.1	EMR	9	TT	
00074	25/11/80	274.3	15.9	EMR	9	TT	
00075	25/11/80	304.8	18.1	EMR	9	TT	
00076	25/11/80	335.3	20.8	EMR	9	TT	
00077	25/11/80	365.8	23.7	EMR	9	TT	
00078	25/11/80	396.2	26.2	EMR	9	TT	
00079	25/11/80	426.7	28.4	EMR	9	TT	
00080	25/11/80	457.2	30.8	EMR	9	TT	
00081	25/11/80	487.7	32.9	EMR	9	TT	
00082	25/11/80	495.3	33.5	EMR	9	TT	
00083	25/11/80	502.9	34.2	EMR	9	TT	
00084	25/11/80	510.6	34.8	EMR	9	TT	
00085	25/11/80	518.2	35.3	EMR	9	TT	
00086	25/11/80	525.8	36.0	EMR	9	TT	
00087	25/11/80	533.4	35.0	EMR	9	TT	
00088	25/11/80	541.0	36.4	EMR	9	TT	
00089	25/11/80	548.7	38.0	EMR	9	TT	
00090	25/11/80	556.3	38.9	EMR	9	TT	
00091	25/11/80	563.9	39.6	EMR	9	TT	
00092	25/11/80	571.5	40.2	EMR	9	TT	
00093	25/11/80	579.1	41.1	EMR	9	TT	
00094	25/11/80	586.8	41.8	EMR	9	TT	
00095	25/11/80	259.7	15.1	EMR	9	TT	COMING UP
00096	25/11/80	289.6	17.1	EMR	9	TT	COMING UP
00097	25/11/80	528.8	36.0	EMR	9	TT	COMING UP
00098	25/11/80	538.0	36.8	EMR	9	TT	COMING UP
00099	25/11/80	472.5	32.1	EMR	9	TT	COMING UP
00100	25/11/80	442.0	29.8	EMR	9	TT	COMING UP
00101	25/11/80	411.5	27.5	EMR	9	TT	COMING UP

00102	25/11/80	381.0	25.1	EMR	9	TT	COMING UP
00103	25/11/80	373.4	24.6	EMR	9	TT	COMING UP
00104	25/11/80	365.8	24.0	EMR	9	TT	COMING UP
00105	25/11/80	358.1	23.4	EMR	9	TT	COMING UP
00106	25/11/80	350.5	22.8	EMR	9	TT	COMING UP
00107	25/11/80	320.0	20.1	EMR	9	TT	COMING UP
00108	25/11/80	228.6	13.4	EMR	9	TT	COMING UP

STRUCTURE FOR FILE: L3TEMP.DBF

NUMBER OF RECORDS: 00137

DATE OF LAST UPDATE: 09/06/83

PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	

** TOTAL **

00055

. list

00001	22/11/80	0.0	0.6	EMR	15	2	TT
00002	22/11/80	15.2	3.3	EMR	15	2	TT
00003	22/11/80	30.4	3.5	EMR	15	2	TT
00004	22/11/80	45.7	3.5	EMR	15	2	TT
00005	22/11/80	60.9	4.0	EMR	15	2	TT
00006	22/11/80	76.2	4.5	EMR	15	2	TT
00007	22/11/80	91.4	4.8	EMR	15	2	TT
00008	22/11/80	106.6	5.5	EMR	15	2	TT
00009	22/11/80	121.9	5.8	EMR	15	2	TT
00010	22/11/80	129.5	6.2	EMR	15	2	TT
00011	22/11/80	137.1	6.5	EMR	15	2	TT
00012	22/11/80	144.7	7.1	EMR	15	2	TT
00013	22/11/80	152.4	7.4	EMR	15	2	TT
00014	22/11/80	160.0	7.9	EMR	15	2	TT
00015	22/11/80	167.6	8.6	EMR	15	2	TT
00016	22/11/80	175.2	9.3	EMR	15	2	TT
00017	22/11/80	182.8	10.0	EMR	15	2	TT
00018	22/11/80	190.5	10.5	EMR	15	2	TT
00019	22/11/80	198.1	11.1	EMR	15	2	TT
00020	22/11/80	213.3	12.3	EMR	15	2	TT
00021	22/11/80	220.9	12.8	EMR	15	2	TT
00022	22/11/80	228.6	13.1	EMR	15	2	TT
00023	22/11/80	236.2	13.9	EMR	15	2	TT
00024	22/11/80	243.8	13.9	EMR	15	2	TT
00025	22/11/80	251.4	15.2	EMR	15	2	TT
00026	23/06/81	273.0	17.0	MRT	7	25	BHT
00027	24/06/81	282.0	18.0	MRT	7	20	BHT
00028	25/06/81	287.0	18.0	MRT	7	29	BHT
00029	26/06/81	297.0	19.0	MRT	7	25	BHT
00030	28/06/81	322.0	20.5	MRT	7	26	BHT
00031	01/07/81	342.5	22.0	MRT	10	15	BHT
00032	08/07/81	367.0	24.5	MRT	7	54	OBT
00033	10/07/81	396.0	27.0	MRT	7	34	BHT
00034	12/07/81	432.5	30.0	MRT	6	22	BHT
00035	14/07/81	457.5	32.0	MRT	7	34	BHT
00036	17/07/81	486.0	35.0	MRT	15	71	BHT
00037	22/07/81	505.0	38.0	MRT	15	80	BHT
00038	25/07/81	541.5	40.0	MRT	7	15	BHT
00039	26/07/81	555.5	42.0	MRT	7	52	BHT
00040	30/07/81	598.0	44.5	MRT	6	72	BHT
00041	08/08/81	649.0	50.5	MRT	6	73	BHT
00042	10/08/81	688.0	55.0	MRT	6	70.5	BHT
00043	11/08/81	711.0	57.0	MRT	6		BHT

HOLE \$ 368.5

00044	13/08/81	742.5	60.5 MRT	6		BHT	THRMOM DISCPNCY
00045	19/08/81	782.0	65.0 MRT	6		BHT	
00046	21/08/81	813.0	67.0 MRT	6	96	BHT	
00047	24/08/81	840.0	70.0 MRT	6		BHT	
00048	26/08/81	865.0	74.0 MRT	6		BHT	
00049	27/08/81	901.0	77.0 MRT	6		BHT	
00050	01/09/81	945.0	82.0 MRT	6		BHT	
00051	12/09/81	1000.0	87.0 MRT	6	79	BHT	
00052	25/09/81	70.0	8.7 K	26	70	PDTT	BEFORE FLOW TST
00053	25/09/81	80.0	8.2 K	26	70	PDTT	BEFORE FLOW TST
00054	25/09/81	90.0	7.8 K	26	70	PDTT	BEFORE FLOW TST
00055	25/09/81	100.0	7.5 K	26	70	PDTT	BEFORE FLOW TST
00056	25/09/81	110.0	7.7 K	26	70	PDTT	BEFORE FLOW TST
00057	25/09/81	120.0	7.9 K	26	70	PDTT	BEFORE FLOW TST
00058	25/09/81	130.0	8.2 K	26	70	PDTT	BEFORE FLOW TST
00059	26/09/81	130.0	9.5 K	40	70	PDTT	BEFORE FLOW TST
00060	26/09/81	140.0	9.4 K	40	70	PDTT	BEFORE FLOW TST
00061	26/09/81	150.0	9.9 K	40	70	PDTT	BEFORE FLOW TST
00062	26/09/81	160.0	10.0 K	40	70	PDTT	BEFORE FLOW TST
00063	26/09/81	170.0	10.3 K	40	70	PDTT	BEFORE FLOW TST
00064	26/09/81	180.0	10.8 K	40	70	PDTT	BEFORE FLOW TST
00065	26/09/81	190.0	11.4 K	40	70	PDTT	BEFORE FLOW TST
00066	26/09/81	200.0	12.3 K	40	70	PDTT	BEFORE FLOW TST
00067	26/09/81	210.0	13.1 K	40	70	PDTT	BEFORE FLOW TST
00068	26/09/81	220.0	13.7 K	40	70	PDTT	BEFORE FLOW TST
00069	26/09/81	230.0	14.2 K	40	70	PDTT	BEFORE FLOW TST
00070	26/09/81	240.0	15.3 K	40	70	PDTT	BEFORE FLOW TST
00071	26/09/81	250.0	15.5 K	40	70	PDTT	BEFORE FLOW TST
00072	26/09/81	260.0	16.7 K	40	70	PDTT	BEFORE FLOW TST
00073	26/09/81	270.0	17.0 K	40	70	PDTT	BEFORE FLOW TST
00074	26/09/81	280.0	17.8 K	40	70	PDTT	BEFORE FLOW TST
00075	26/09/81	290.0	18.5 K	40	70	PDTT	BEFORE FLOW TST
00076	26/09/81	300.0	19.3 K	40	70	PDTT	BEFORE FLOW TST
00077	26/09/81	310.0	20.0 K	40	70	PDTT	BEFORE FLOW TST
00078	26/09/81	320.0	20.6 K	40	70	PDTT	BEFORE FLOW TST
00079	26/09/81	330.0	21.2 K	40	70	PDTT	BEFORE FLOW TST
00080	26/09/81	340.0	22.0 K	40	70	PDTT	BEFORE FLOW TST
00081	26/09/81	350.0	29.9 K	40	70	PDTT	BEFORE FLOW TST
00082	26/09/81	360.0	23.6 K	40	70	PDTT	BEFORE FLOW TST
00083	26/09/81	370.0	24.9 K	40	70	PDTT	BEFORE FLOW TST
00084	26/09/81	380.0	25.2 K	40	70	PDTT	BEFORE FLOW TST
00085	26/09/81	390.0	26.4 K	40	70	PDTT	BEFORE FLOW TST
00086	26/09/81	400.0	27.1 K	40	70	PDTT	BEFORE FLOW TST
00087	26/09/81	410.0	28.4 K	40	70	PDTT	BEFORE FLOW TST
00088	26/09/81	420.0	29.7 K	40	70	PDTT	BEFORE FLOW TST
00089	26/09/81	430.0	30.3 K	40	70	PDTT	BEFORE FLOW TST
00090	26/09/81	440.0	31.6 K	40	70	PDTT	BEFORE FLOW TST
00091	26/09/81	450.0	32.0 K	40	70	PDTT	BEFORE FLOW TST
00092	26/09/81	460.0	32.9 K	40	70	PDTT	BEFORE FLOW TST
00093	26/09/81	470.0	34.0 K	40	70	PDTT	BEFORE FLOW TST
00094	26/09/81	480.0	34.8 K	40	70	PDTT	BEFORE FLOW TST
00095	26/09/81	490.0	35.5 K	40	70	PDTT	BEFORE FLOW TST
00096	26/09/81	500.0	36.3 K	40	70	PDTT	BEFORE FLOW TST
00097	26/09/81	510.0	37.2 K	40	70	PDTT	BEFORE FLOW TST
00098	26/09/81	520.0	38.3 K	40	70	PDTT	BEFORE FLOW TST
00099	26/09/81	530.0	38.9 K	40	70	PDTT	BEFORE FLOW TST
00100	26/09/81	540.0	39.7 K	40	70	PDTT	BEFORE FLOW TST
00101	26/09/81	550.0	40.7 K	40	70	PDTT	BEFORE FLOW TST

00102	26/09/81	560.0	40.9 K	40	70	PDTT	BEFORE	FLOW	TST
00103	26/09/81	570.0	42.3 K	40	70	PDTT	BEFORE	FLOW	TST
00104	26/09/81	580.0	43.3 K	40	70	PDTT	BEFORE	FLOW	TST
00105	26/09/81	590.0	44.2 K	40	70	PDTT	BEFORE	FLOW	TST
00106	26/09/81	600.0	45.1 K	40	70	PDTT	BEFORE	FLOW	TST
00107	26/09/81	610.0	46.1 K	40	70	PDTT	BEFORE	FLOW	TST
00108	26/09/81	620.0	46.9 K	40	70	PDTT	BEFORE	FLOW	TST
00109	26/09/81	630.0	48.1 K	40	70	PDTT	BEFORE	FLOW	TST
00110	26/09/81	640.0	49.1 K	40	70	PDTT	BEFORE	FLOW	TST
00111	26/09/81	650.0	50.1 K	40	70	PDTT	BEFORE	FLOW	TST
00112	26/09/81	660.0	51.1 K	40	70	PDTT	BEFORE	FLOW	TST
00113	26/09/81	670.0	52.0 K	40	70	PDTT	BEFORE	FLOW	TST
00114	26/09/81	680.0	53.1 K	40	70	PDTT	BEFORE	FLOW	TST
00115	26/09/81	690.0	54.1 K	40	70	PDTT	BEFORE	FLOW	TST
00116	26/09/81	700.0	55.2 K	40	70	PDTT	BEFORE	FLOW	TST
00117	26/09/81	710.0	56.3 K	40	70	PDTT	BEFORE	FLOW	TST
00118	26/09/81	720.0	57.3 K	40	70	PDTT	BEFORE	FLOW	TST
00119	26/09/81	730.0	58.4 K	40	70	PDTT	BEFORE	FLOW	TST
00120	26/09/81	740.0	59.5 K	40	70	PDTT	BEFORE	FLOW	TST
00121	26/09/81	750.0	60.5 K	40	70	PDTT	BEFORE	FLOW	TST
00122	26/09/81	760.0	61.5 K	40	70	PDTT	BEFORE	FLOW	TST
00123	26/09/81	770.0	62.6 K	40	70	PDTT	BEFORE	FLOW	TST
00124	26/09/81	780.0	63.7 K	40	70	PDTT	BEFORE	FLOW	TST
00125	26/09/81	790.0	64.8 K	40	70	PDTT	BEFORE	FLOW	TST
00126	26/09/81	800.0	65.9 K	40	70	PDTT	BEFORE	FLOW	TST
00127	26/09/81	810.0	67.1 K	40	70	PDTT	BEFORE	FLOW	TST
00128	26/09/81	820.0	68.3 K	40	70	PDTT	BEFORE	FLOW	TST
00129	26/09/81	830.0	69.3 K	40	70	PDTT	BEFORE	FLOW	TST
00130	26/09/81	840.0	70.5 K	40	70	PDTT	BEFORE	FLOW	TST
00131	26/09/81	850.0	71.5 K	40	70	PDTT	BEFORE	FLOW	TST
00132	26/09/81	860.0	72.8 K	40	70	PDTT	BEFORE	FLOW	TST
00133	26/09/81	870.0	73.9 K	40	70	PDTT	BEFORE	FLOW	TST
00134	26/09/81	880.0	75.0 K	40	70	PDTT	BEFORE	FLOW	TST
00135	26/09/81	890.0	76.1 K	40	70	PDTT	BEFORE	FLOW	TST
00136	26/09/81	900.0	77.2 K	40	70	PDTT	BEFORE	FLOW	TST
00137	26/09/81	910.0	77.6 K	40	70	PDTT	BEFORE	FLOW	TST

STRUCTURE FOR FILE: L4TEMP.DBF
 NUMBER OF RECORDS: 00195
 DATE OF LAST UPDATE: 09/06/83
 PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	

** TOTAL ** 00055

. list

00001	09/09/81	55.0	16.0	MRT	6	ARTES	BHT	MAKING WATER
00002	18/09/81	96.0	12.0	MRT	6		BHT	
00003	18/09/81	119.0	15.0	MRT	6		BHT	
00004	05/10/81	179.0	22.0	MRT	6		BHT	
00005	04/10/81	194.0	24.0	MRT	6		BHT	
00006	05/10/81	225.0	26.5	MRT	6		BHT	
00007	06/10/81	250.0	30.0	MRT	6		BHT	
00008	19/10/81	285.0	29.5	MRT	6		BHT	MAKING WATER
00009	20/10/81	316.5	37.5	MRT	6		BHT	
00010	21/10/81	335.0	37.0	MRT	6		BHT	
00011	27/10/81	362.0	40.5	MRT	6		BHT	
00012	29/10/81	386.0	43.0	MRT	6		BHT	
00013	30/10/81	410.0	45.0	MRT	6		BHT	
00014	04/11/81	428.0	48.0	MRT	102		BHT	
00015	04/07/82	40.0	10.6	EMR	84	15	TT	
00016	04/07/82	60.0	11.9	EMR	84	15	TT	
00017	04/07/82	80.0	13.4	EMR	84	15	TT	
00018	04/07/82	100.0	15.1	EMR	84	15	TT	
00019	04/07/82	120.0	16.9	EMR	84	15	TT	
00020	04/07/82	140.0	19.2	EMR	84	15	TT	
00021	04/07/82	160.0	21.3	EMR	84	15	TT	
00022	04/07/82	180.0	23.7	EMR	84	15	TT	
00023	04/07/82	200.0	25.9	EMR	84	15	TT	
00024	04/07/82	220.0	27.9	EMR	84	15	TT	
00025	04/07/82	240.0	30.2	EMR	84	15	TT	
00026	04/07/82	260.0	32.2	EMR	84	15	TT	
00027	04/07/82	280.0	34.2	EMR	84	15	TT	
00028	04/07/82	300.0	36.1	EMR	84	15	TT	
00029	04/07/82	320.0	38.5	EMR	84	15	TT	
00030	04/07/82	340.0	40.4	EMR	84	15	TT	
00031	04/07/82	360.0	42.4	EMR	84	15	TT	
00032	04/07/82	380.0	44.3	EMR	84	15	TT	
00033	04/07/82	400.0	46.3	EMR	84	15	TT	
00034	04/07/82	420.0	48.3	EMR	84	15	TT	
00035	04/07/82	440.0	50.4	EMR	84	15	TT	
00036	04/07/82	460.0	52.4	EMR	84	15	TT	
00037	04/07/82	480.0	54.4	EMR	84	15	TT	
00038	04/07/82	500.0	56.6	EMR	84	15	TT	
00039	04/07/82	517.0	57.2	EMR	84	15	TT	
00040	12/07/82	688.0	78.5	K	3		OBT	HOLE \$ 697
00041	18/07/82	50.0	15.9	K	10	37	TT	HOLE \$ 814
00042	18/07/82	100.0	17.6	K	10	37	TT	HOLE \$ 814
00043	18/07/82	150.0	22.0	K	10	37	TT	HOLE \$ 814

00044	18/07/82	200.0	26.5 K	10	37	TT	HOLE §	814
00045	18/07/82	250.0	31.2 K	10	37	TT	HOLE §	814
00046	18/07/82	300.0	35.8 K	10	37	TT	HOLE §	814
00047	18/07/82	350.0	40.6 K	10	37	TT	HOLE §	814
00048	18/07/82	400.0	45.3 K	10	37	TT	HOLE §	814
00049	18/07/82	450.0	49.9 K	10	37	TT	HOLE §	814
00050	18/07/82	500.0	54.8 K	10	37	TT	HOLE §	814
00051	18/07/82	520.0	56.9 K	10	37	TT	HOLE §	814
00052	18/07/82	540.0	58.8 K	10	37	TT	HOLE §	814
00053	18/07/82	560.0	60.5 K	10	37	TT	HOLE §	814
00054	18/07/82	580.0	62.3 K	10	37	TT	HOLE §	814
00055	18/07/82	600.0	64.4 K	10	37	TT	HOLE §	814
00056	18/07/82	620.0	65.9 K	10	37	TT	HOLE §	814
00057	18/07/82	640.0	67.8 K	10	37	TT	HOLE §	814
00058	18/07/82	660.0	69.4 K	10	37	TT	HOLE §	814
00059	18/07/82	680.0	71.4 K	10	37	TT	HOLE §	814
00060	18/07/82	700.0	73.3 K	10	37	TT	HOLE §	814
00061	18/07/82	720.0	75.0 K	10	37	TT	HOLE §	814
00062	18/07/82	740.0	76.7 K	10	37	TT	HOLE §	814
00063	18/07/82	760.0	78.5 K	10	37	TT	HOLE §	814
00064	18/07/82	780.0	80.0 K	10	37	TT	HOLE §	814
00065	18/07/82	800.0	81.9 K	10	37	TT	HOLE §	814
00066	18/07/82	814.0	83.0 MRT	10	37	BHT		
00067	27/07/82	800.0	81.7 K	7		TT		
00068	27/07/82	850.0	86.9 K	7		TT		
00069	27/07/82	900.0	91.3 K	7		TT		
00070	27/07/82	950.0	95.4 K	7		TT		
00071	27/07/82	1000.0	99.6 K	7		TT		
00072	27/07/82	1033.0	102.5 K	7		TT	BHT	
00073	30/07/82	1000.0	99.0 K	7		TT	BHT	
00074	30/07/82	1050.0	103.7 K	7		TT	BHT	
00075	30/07/82	1079.0	106.2 K	7		TT	BHT	
00076	07/08/82	1140.0	111.2 K	7		BHT		
00077	11/08/82	1208.0	116.5 K	7		BHT		
00078	18/08/82	1256.0	120.2 K	7		BHT		
00079	20/08/82	1279.0	124.8 K	7		BHT		
00080	23/09/82	53.0	10.1 K	32 d		PD TT		
00081	23/09/82	63.0	11.5 K	32 d		PD TT		
00082	23/09/82	73.0	16.5 K	32 d		PD TT		
00083	23/09/82	83.0	17.5 K	32 d		PD TT		
00084	23/09/82	93.0	17.9 K	32 d		PD TT		
00085	23/09/82	103.0	18.4 K	32 d		PD TT		
00086	23/09/82	113.0	18.8 K	32 d		PD TT		
00087	23/09/82	123.0	19.7 K	32 d		PD TT		
00088	23/09/82	133.0	20.5 K	32 d		PD TT		
00089	23/09/82	143.0	20.9 K	32 d		PD TT		
00090	23/09/82	153.0	21.5 K	32 d		PD TT		
00091	23/09/82	163.0	23.2 K	32 d		PD TT		
00092	23/09/82	173.0	24.0 K	32 d		PD TT		
00093	23/09/82	183.0	24.5 K	32 d		PD TT		
00094	23/09/82	193.0	25.1 K	32 d		PD TT		
00095	23/09/82	203.0	25.6 K	32 d		PD TT		
00096	23/09/82	213.0	26.2 K	32 d		PD TT		
00097	23/09/82	223.0	26.9 K	32 d		PD TT		
00098	23/09/82	233.0	27.4 K	32 d		PD TT		
00099	23/09/82	243.0	27.8 K	32 d		PD TT		
00100	23/09/82	253.0	30.5 K	32 d		PD TT		
00101	23/09/82	263.0	34.7 K	32 d		PD TT		
00102	23/09/82	273.0	35.2 K	32 d		PD TT		

00103	23/09/82	283.0	35.7 K	32 d	PDTT
00104	23/09/82	293.0	36.1 K	32 d	PDTT
00105	23/09/82	303.0	36.6 K	32 d	PDTT
00106	23/09/82	313.0	38.1 K	32 d	PDTT
00107	23/09/82	323.0	39.3 K	32 d	PDTT
00108	23/09/82	333.0	40.3 K	32 d	PDTT
00109	23/09/82	343.0	41.4 K	32 d	PDTT
00110	23/09/82	353.0	42.9 K	32 d	PDTT
00111	23/09/82	363.0	43.3 K	32 d	PDTT
00112	23/09/82	373.0	45.6 K	32 d	PDTT
00113	23/09/82	383.0	46.3 K	32 d	PDTT
00114	23/09/82	393.0	46.8 K	32 d	PDTT
00115	23/09/82	403.0	47.2 K	32 d	PDTT
00116	23/09/82	413.0	50.2 K	32 d	PDTT
00117	23/09/82	423.0	51.0 K	32 d	PDTT
00118	23/09/82	433.0	51.6 K	32 d	PDTT
00119	23/09/82	443.0	52.4 K	32 d	PDTT
00120	23/09/82	453.0	53.1 K	32 d	PDTT
00121	23/09/82	463.0	54.3 K	32 d	PDTT
00122	23/09/82	473.0	55.1 K	32 d	PDTT
00123	23/09/82	483.0	56.0 K	32 d	PDTT
00124	23/09/82	493.0	57.3 K	32 d	PDTT
00125	23/09/82	503.0	58.4 K	32 d	PDTT
00126	23/09/82	513.0	59.3 K	32 d	PDTT
00127	23/09/82	523.0	59.9 K	32 d	PDTT
00128	23/09/82	533.0	60.7 K	32 d	PDTT
00129	23/09/82	543.0	62.1 K	32 d	PDTT
00130	23/09/82	553.0	62.7 K	32 d	PDTT
00131	23/09/82	563.0	63.4 K	32 d	PDTT
00132	23/09/82	573.0	64.8 K	32 d	PDTT
00133	23/09/82	583.0	65.7 K	32 d	PDTT
00134	23/09/82	593.0	66.4 K	32 d	PDTT
00135	23/09/82	603.0	67.0 K	32 d	PDTT
00136	23/09/82	613.0	67.7 K	32 d	PDTT
00137	23/09/82	623.0	68.2 K	32 d	PDTT
00138	23/09/82	633.0	70.6 K	32 d	PDTT
00139	23/09/82	643.0	71.4 K	32 d	PDTT
00140	23/09/82	653.0	72.3 K	32 d	PDTT
00141	23/09/82	663.0	73.4 K	32 d	PDTT
00142	23/09/82	673.0	74.5 K	32 d	PDTT
00143	23/09/82	693.0	71.7 K	32 d	PDTT
00144	23/09/82	703.0	74.4 K	32 d	PDTT
00145	23/09/82	713.0	75.8 K	32 d	PDTT
00146	23/09/82	723.0	76.8 K	32 d	PDTT
00147	23/09/82	733.0	77.6 K	32 d	PDTT
00148	23/09/82	743.0	78.5 K	32 d	PDTT
00149	23/09/82	753.0	79.2 K	32 d	PDTT
00150	23/09/82	763.0	80.0 K	32 d	PDTT
00151	23/09/82	773.0	80.5 K	32 d	PDTT
00152	23/09/82	783.0	81.4 K	32 d	PDTT
00153	23/09/82	793.0	82.3 K	32 d	PDTT
00154	23/09/82	803.0	84.1 K	32 d	PDTT
00155	23/09/82	813.0	84.7 K	32 d	PDTT
00156	23/09/82	823.0	85.4 K	32 d	PDTT
00157	23/09/82	833.0	85.9 K	32 d	PDTT
00158	23/09/82	843.0	87.2 K	32 d	PDTT
00159	23/09/82	853.0	88.3 K	32 d	PDTT
00160	23/09/82	863.0	89.0 K	32 d	PDTT
00161	23/09/82	873.0	89.7 K	32 d	PDTT

00162	23/09/82	883.0	90.5 K	32 d	PDTT
00163	23/09/82	893.0	91.9 K	32 d	PDTT
00164	23/09/82	903.0	93.0 K	32 d	PDTT
00165	23/09/82	913.0	93.9 K	32 d	PDTT
00166	23/09/82	923.0	94.8 K	32 d	PDTT
00167	23/09/82	933.0	96.1 K	32 d	PDTT
00168	23/09/82	943.0	97.1 K	32 d	PDTT
00169	23/09/82	953.0	97.9 K	32 d	PDTT
00170	23/09/82	963.0	98.6 K	32 d	PDTT
00171	23/09/82	973.0	99.9 K	32 d	PDTT
00172	23/09/82	983.0	101.6 K	32 d	PDTT
00173	23/09/82	993.0	102.3 K	32 d	PDTT
00174	23/09/82	1003.0	102.9 K	32 d	PDTT
00175	23/09/82	1012.0	103.4 K	32 d	PDTT
00176	23/09/82	1023.0	103.9 K	32 d	PDTT
00177	23/09/82	1033.0	104.4 K	32 d	PDTT
00178	23/09/82	1043.0	105.0 K	32 d	PDTT
00179	23/09/82	1053.0	107.3 K	32 d	PDTT
00180	23/09/82	1063.0	108.5 K	32 d	PDTT
00181	23/09/82	1073.0	109.0 K	32 d	PDTT
00182	23/09/82	1083.0	109.5 K	32 d	PDTT
00183	23/09/82	1093.0	110.1 K	32 d	PDTT
00184	23/09/82	1103.0	110.7 K	32 d	PDTT
00185	23/09/82	1113.0	111.1 K	32 d	PDTT
00186	23/09/82	1123.0	111.6 K	32 d	PDTT
00187	23/09/82	1133.0	112.9 K	32 d	PDTT
00188	23/09/82	1143.0	114.2 K	32 d	PDTT
00189	23/09/82	1153.0	115.8 K	32 d	PDTT
00190	23/09/82	1163.0	116.6 K	32 d	PDTT
00191	23/09/82	1173.0	117.1 K	32 d	PDTT
00192	23/09/82	1183.0	117.9 K	32 d	PDTT
00193	23/09/82	1193.0	118.8 K	32 d	PDTT
00194	23/09/82	1203.0	119.6 K	32 d	PDTT
00195	23/09/82	1213.0	120.7 K	32 d	PDTT

LINER OBSTRUCTD

STRUCTURE FOR FILE: L5TEMP.DBF
NUMBER OF RECORDS: 00084
DATE OF LAST UPDATE: 09/07/83
PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	

** TOTAL ** 00055

. list

00001	04/07/82	60.0	3.4	EMR	55	TT	
00002	04/07/82	80.0	4.1	EMR	55	TT	
00003	04/07/82	100.0	5.5	EMR	55	TT	
00004	12/07/82	339.0	16.0	MRT	3	BHT	T < AIR TEMP
00005	18/07/82	100.0	5.9	EMR	55	TT	
00006	18/07/82	150.0	10.6	EMR	55	TT	
00007	18/07/82	200.0	10.2	EMR	55	TT	
00008	18/07/82	250.0	6.9	EMR	55	TT	
00009	18/07/82	300.0	14.1	EMR	55	TT	
00010	18/07/82	320.0	17.3	EMR	55	TT	
00011	18/07/82	330.0	17.8	EMR	55	TT	
00012	18/07/82	340.0	19.0	EMR	55	TT	
00013	18/07/82	350.0	19.7	EMR	55	TT	
00014	18/07/82	360.0	20.5	EMR	55	TT	
00015	18/07/82	380.0	22.4	EMR	55	TT	
00016	18/07/82	400.0	25.2	EMR	55	TT	T SUSPECT
00017	18/07/82	445.2	26.0	MRT	55	BHT	
00018	24/07/82	300.0	10.4	EMR	6	35.4	TT
00019	24/07/82	320.0	13.0	EMR	6	35.4	TT
00020	24/07/82	340.0	14.9	EMR	6	35.4	TT
00021	24/07/82	360.0	16.3	EMR	6	35.4	TT
00022	24/07/82	380.0	18.1	EMR	6	35.4	TT
00023	24/07/82	400.0	20.3	EMR	6	35.4	TT
00024	24/07/82	420.0	22.3	EMR	6	35.4	TT
00025	24/07/82	440.0	23.7	EMR	6	35.4	TT
00026	24/07/82	460.0	25.5	EMR	6	35.4	TT
00027	24/07/82	480.0	27.6	EMR	6	35.4	TT
00028	24/07/82	500.0	28.9	EMR	6	35.4	TT
00029	24/07/82	520.0	31.9	EMR	6	35.4	TT
00030	24/07/82	540.0	35.1	EMR	6	35.4	TT
00031	24/07/82	554.0	35.1	EMR	6	35.4	TT
00032	27/07/82	460.0	26.8	EMR	4	37	TT
00033	27/07/82	480.0	29.0	EMR	4	37	TT
00034	27/07/82	500.0	30.1	EMR	4	37	TT
00035	27/07/82	520.0	32.8	EMR	4	37	TT
00036	27/07/82	540.0	34.7	EMR	4	37	TT
00037	27/07/82	560.0	35.8	EMR	4	37	TT
00038	27/07/82	580.0	38.7	EMR	4	37	TT
00039	27/07/82	600.0	39.7	EMR	4	37	TT
00040	30/07/82	410.0	22.9	EMR	13		TT
00041	30/07/82	430.0	25.1	EMR	13		TT
00042	30/07/82	450.0	26.7	EMR	13		TT
00043	30/07/82	470.0	28.6	EMR	13		TT
00044	30/07/82	490.0	30.5	EMR	13		TT
00045	30/07/82	510.0	32.3	EMR	13		TT

00046	30/07/82	530.0	34.4	EMR	13		TT	
00047	30/07/82	550.0	36.1	EMR	13		TT	
00048	30/07/82	570.0	37.8	EMR	13		TT	
00049	30/07/82	590.0	39.3	EMR	13		TT	
00050	30/07/82	610.0	41.5	EMR	13		TT	
00051	30/07/82	630.0	43.4	EMR	13		TT	
00052	30/07/82	650.0	44.4	EMR	13		TT	
00053	30/07/82	660.0	44.4	EMR	13		TT	BHT
00054	22/08/82	60.7	4.7	EMR	14	d 45	PDTT	
00055	22/08/82	81.0	4.9	EMR	14	d 45	PDTT	
00056	22/08/82	101.2	5.3	EMR	14	d 45	PDTT	
00057	22/08/82	121.5	5.4	EMR	14	d 45	PDTT	
00058	22/08/82	141.7	6.0	EMR	14	d 45	PDTT	
00059	22/08/82	162.0	6.4	EMR	14	d 45	PDTT	
00060	22/08/82	182.2	7.0	EMR	14	d 45	PDTT	
00061	22/08/82	202.5	7.4	EMR	14	d 45	PDTT	
00062	22/08/82	222.7	9.3	EMR	14	d 45	PDTT	
00063	22/08/82	243.0	11.7	EMR	14	d 45	PDTT	
00064	22/08/82	263.2	16.2	EMR	14	d 45	PDTT	
00065	22/08/82	283.5	17.5	EMR	14	d 45	PDTT	
00066	22/08/82	303.7	19.1	EMR	14	d 45	PDTT	
00067	22/08/82	324.0	19.9	EMR	14	d 45	PDTT	
00068	22/08/82	344.2	21.0	EMR	14	d 45	PDTT	
00069	22/08/82	364.5	21.9	EMR	14	d 45	PDTT	
00070	22/08/82	384.7	23.1	EMR	14	d 45	PDTT	
00071	22/08/82	405.0	25.6	EMR	14	d 45	PDTT	
00072	22/08/82	425.2	26.9	EMR	14	d 45	PDTT	
00073	22/08/82	445.5	28.6	EMR	14	d 45	PDTT	
00074	22/08/82	465.7	29.8	EMR	14	d 45	PDTT	
00075	22/08/82	486.0	31.9	EMR	14	d 45	PDTT	
00076	22/08/82	506.2	33.2	EMR	14	d 45	PDTT	
00077	22/08/82	526.4	35.0	EMR	14	d 45	PDTT	
00078	22/08/82	546.7	36.6	EMR	14	d 45	PDTT	
00079	22/08/82	566.9	37.7	EMR	14	d 45	PDTT	
00080	22/08/82	587.2	39.6	EMR	14	d 45	PDTT	
00081	22/08/82	607.4	40.8	EMR	14	d 45	PDTT	
00082	22/08/82	627.7	42.7	EMR	14	d 45	PDTT	
00083	22/08/82	647.9	44.3	EMR	14	d 45	PDTT	
00084	22/08/82	653.0	44.3	EMR	14	d 45	PDTT	BHT

STRUCTURE FOR FILE: L6TEMP.DBF
NUMBER OF RECORDS: 00055
DATE OF LAST UPDATE: 09/07/83
PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	
** TOTAL **			00055	

. list

00001	24/11/81	4.5	15.5	MRT	6	4.3	BHT	T SUSPECT
00002	25/11/81	11.5	5.5	MRT	6	10	BHT	
00003	27/11/81	32.5	6.0	MRT	5	7	BHT	
00004	28/11/81	50.5	6.0	MRT	5	11	BHT	
00005	29/11/81	79.0	7.5	MRT	5	12	BHT	
00006	30/11/81	96.0	9.0	MRT	5	11.5	BHT	
00007	01/12/81	113.6	9.5	MRT	6	12.5	BHT	
00008	02/12/81	110.0	10.0	MRT	10	11.5	OBT	HOLE § 121.3
00009	25/04/82	179.0	12.0	MRT	45		OBT	HOLE § 183.9
		83.9	14.0	EMR	45		TT	TRAV UPWARDS

display structure
 STRUCTURE FOR FILE: L6TEMP.DBF
 NUMBER OF RECORDS: 00055
 DATE OF LAST UPDATE: 09/07/83
 PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	
** TOTAL **			00055	

. list

00001	24/11/81	4.5	15.5	MRT	6	4.3	BHT	T SUSPECT
00002	25/11/81	11.5	5.5	MRT	6	10	BHT	
00003	27/11/81	32.5	6.0	MRT	5	7	BHT	
00004	28/11/81	50.5	6.0	MRT	5	11	BHT	
00005	29/11/81	79.0	7.5	MRT	5	12	BHT	
00006	30/11/81	96.0	9.0	MRT	5	11.5	BHT	
00007	01/12/81	113.6	9.5	MRT	6	12.5	BHT	
00008	02/12/81	110.0	10.0	MRT	10	11.5	OBT	HOLE \$ 121.3
00009	25/04/82	179.0	12.0	MRT	45		OBT	HOLE \$ 183.9
00010	25/04/82	183.9	14.0	EMR	45		TT	TRAV UPWARDS
00011	25/04/82	160.0	13.0	EMR	45		TT	TRAV UPWARDS
00012	25/04/82	140.0	12.0	EMR	45		TT	TRAV UPWARDS
00013	25/04/82	120.0	11.5	EMR	45		TT	TRAV UPWARDS
00014	25/04/82	100.0	9.0	EMR	45		TT	TRAV UPWARDS
00015	25/04/82	80.0	8.0	EMR	45		TT	TRAV UPWARDS
00016	25/04/82	60.0	7.0	EMR	45		TT	TRAV UPWARDS
00017	25/04/82	40.0	6.0	EMR	45		TT	TRAV UPWARDS
00018	25/04/82	20.0	5.5	EMR	45		TT	TRAV UPWARDS
00019	05/05/82	400.0	28.5	EMR	18	20-25	TT	TRAV UPWARDS
00020	05/05/82	380.0	27.5	EMR	18	20-25	TT	TRAV UPWARDS
00021	05/05/82	360.0	26.0	EMR	18	20-25	TT	TRAV UPWARDS
00022	05/05/82	340.0	25.0	EMR	18	20-25	TT	TRAV UPWARDS
00023	05/05/82	320.0	24.0	EMR	18	20-25	TT	TRAV UPWARDS
00024	05/05/82	300.0	22.5	EMR	18	20-25	TT	TRAV UPWARDS
00025	05/05/82	280.0	21.5	EMR	18	20-25	TT	TRAV UPWARDS
00026	05/05/82	260.0	20.5	EMR	18	20-25	TT	TRAV UPWARDS
00027	05/05/82	240.0	19.0	EMR	18	20-25	TT	TRAV UPWARDS
00028	05/05/82	220.0	18.0	EMR	18	20-25	TT	TRAV UPWARDS
00029	05/05/82	200.0	17.0	EMR	18	20-25	TT	TRAV UPWARDS
00030	05/05/82	180.0	15.5	EMR	18	20-25	TT	TRAV UPWARDS
00031	05/05/82	160.0	14.5	EMR	18	20-25	TT	TRAV UPWARDS
00032	05/05/82	140.0	13.0	EMR	18	20-25	TT	TRAV UPWARDS
00033	05/05/82	120.0	12.0	EMR	18	20-25	TT	TRAV UPWARDS
00034	05/05/82	100.0	9.5	EMR	18	20-25	TT	TRAV UPWARDS
00035	05/05/82	80.0	8.5	EMR	18	20-25	TT	TRAV UPWARDS
00036	05/05/82	60.0	8.0	EMR	18	20-25	TT	TRAV UPWARDS
00037	05/05/82	40.0	7.5	EMR	18	20-25	TT	TRAV UPWARDS
00038	05/05/82	400.0	28.0	MRT	18	20-25	BHT	
00039	18/05/82	579.0	40.0	EMR	48		PDTT	
00040	18/05/82	560.0	40.0	EMR	48		PDTT	
00041	18/05/82	540.0	39.0	EMR	48		PDTT	
00042	18/05/82	520.0	38.0	EMR	48		PDTT	
00043	18/05/82	550.0	36.0	EMR	48		PDTT	
00044	18/05/82	480.0	35.0	EMR	48		PDTT	
00045	18/05/82	460.0	34.0	EMR	48		PDTT	

00046	18/05/82	440.0	32.0	EMR	48	PDTT
00047	18/05/82	420.0	31.0	EMR	48	PDTT
00048	18/05/82	400.0	30.0	EMR	48	PDTT
00049	18/05/82	380.0	28.0	EMR	48	PDTT
00050	18/05/82	360.0	27.0	EMR	48	PDTT
00051	18/05/82	340.0	26.0	EMR	48	PDTT
00052	18/05/82	320.0	25.0	EMR	48	PDTT
00053	18/05/82	300.0	23.0	EMR	48	PDTT
00054	18/05/82	280.0	22.0	EMR	48	PDTT
00055	18/05/82	260.0	21.0	EMR	48	PDTT

STRUCTURE FOR FILE: L7TEMP.DBF
NUMBER OF RECORDS: 00010
DATE OF LAST UPDATE: 09/07/83
PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	
** TOTAL **			00055	

. list

00001	30/07/82	45.1	5.0	MRT	11	BHT
00002	31/07/82	102.7	8.0	MRT	11	BHT
00003	01/08/82	133.2	10.0	MRT	11	BHT
00004	02/08/82	178.0	13.0	MRT	11	BHT
00005	03/08/82	208.0	15.5	MRT	11	BHT
00006	07/08/82	261.2	19.5	MRT	11	BHT
00007	08/08/82	281.5	21.5	MRT	11	BHT
00008	09/08/82	320.5	25.0	MRT	11	BHT
00009	16/08/82	363.5	29.0	MRT	11	BHT
00010	18/08/82	401.5	32.0	MRT	11	BHT

STRUCTURE FOR FILE: L8TEMP.DBF
NUMBER OF RECORDS: 00052
DATE OF LAST UPDATE: 09/07/83
PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	DATE	C	008	
002	DEPTH	N	006	001
003	TEMP	N	005	001
004	PROBE	C	005	
005	STATIME	C	005	
006	WTRLVL	C	005	
007	TEMPTYPE	C	005	
008	COMMENTS	C	015	

** TOTAL **

00055

. list

00001	29/08/82	50.0	12.5	MRT	11		BHT	
00002	31/08/82	78.0	13.0	MRT	11		BHT	T SUSPECT
00003	02/09/82	121.0	15.0	MRT	11		BHT	T SUSPECT
00004	04/09/82	160.0	13.5	MRT	11		BHT	T SUSPECT
00005	06/09/82	180.0	14.0	MRT	11		BHT	T SUSPECT
00006	07/09/82	218.0	15.5	MRT	11		BHT	T SUSPECT
00007	08/09/82	100.0	7.9	EMR	11		TT	
00008	08/09/82	150.0	9.3	EMR	11		TT	
00009	08/09/82	200.0	11.6	EMR	11		TT	
00010	08/09/82	225.0	14.0	EMR	11		TT	
00011	08/09/82	246.0	18.3	EMR	11		TT	BHT
00012	09/09/82	200.0	9.7	EMR	11		TT	
00013	09/09/82	210.0	10.3	EMR	11		TT	
00014	09/09/82	220.0	10.8	EMR	11		TT	
00015	09/09/82	230.0	11.3	EMR	11		TT	
00016	09/09/82	240.0	13.0	EMR	11		TT	
00017	09/09/82	250.0	14.1	EMR	11		TT	
00018	09/09/82	260.0	15.4	EMR	11		TT	
00019	09/09/82	270.0	17.0	EMR	11		TT	
00020	09/09/82	280.0	20.2	EMR	11		TT	
00021	09/09/82	290.0	21.7	EMR	11		TT	
00022	09/09/82	295.5	21.9	EMR	11		TT	BHT
00023	11/09/82	290.0	16.4	EMR	11		TT	
00024	11/09/82	300.0	17.4	EMR	11		TT	
00025	11/09/82	310.0	18.3	EMR	11		TT	
00026	11/09/82	320.0	20.5	EMR	11		TT	
00027	11/09/82	331.0	21.5	EMR	11		TT	BHT
00028	12/09/82	300.0	13.5	EMR	11	33.4	TT	
00029	12/09/82	310.0	14.0	EMR	11	33.4	TT	
00030	12/09/82	320.0	14.3	EMR	11	33.4	TT	
00031	12/09/82	330.0	19.0	EMR	11	33.4	TT	
00032	12/09/82	340.0	22.5	EMR	11	33.4	TT	
00033	12/09/82	350.0	24.8	EMR	11	33.4	TT	
00034	12/09/82	362.0	26.2	EMR	11	33.4	TT	BHT
00035	13/09/82	330.0	16.5	EMR	11	28.1	TT	
00036	13/09/82	340.0	20.5	EMR	11	28.1	TT	
00037	13/09/82	350.0	23.0	EMR	11	28.1	TT	
00038	13/09/82	360.0	25.7	EMR	11	28.1	TT	
00039	13/09/82	370.0	27.6	EMR	11	28.1	TT	
00040	13/09/82	380.0	28.3	EMR	11	28.1	TT	
00041	13/09/82	395.0	29.1	EMR	11	28.1	TT	
00042	15/09/82	350.0	22.4	EMR	11	27	TT	BHT
00043	15/09/82	360.0	24.3	EMR	11	27	TT	

00044	15/09/82	370.0	25.4	EMR	11	27	TT	
00045	15/09/82	380.0	26.7	EMR	11	27	TT	
00046	15/09/82	390.0	29.7	EMR	11	27	TT	
00047	15/09/82	400.0	28.8	EMR	11	27	TT	
00048	15/09/82	410.0	29.7	EMR	11	27	TT	
00049	15/09/82	420.0	30.8	EMR	11	27	TT	
00050	15/09/82	430.0	31.9	EMR	11	27	TT	
00051	15/09/82	444.0	32.4	EMR	11	27	TT	BHT
00052	16/09/82	472.0	34.2	EMR	11	30.4	BHT	

Appendix F

Directional parameters of exploratory wells MC-1,2 and 3

STRUCTURE FOR FILE: DSDMC-1.DBF

NUMBER OF RECORDS: 00103

DATE OF LAST UPDATE: 11/28/83

PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	MEASDPH	N	004	
002	DIRECTION	N	005	001
003	DRIFTANGL	N	005	002
004	VERTDPH	N	007	002
005	LATITUDE	N	008	002
006	DEPARTURE	N	008	002
007	VERTSEC	N	007	002
008	DOGLEG	N	004	002
009	RADIUS	N	007	002
010	DBS	N	007	002

** TOTAL **

00063

. list

00001	0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
00002	30	143.8	0.58	30.00	-.13	8.99	-.15	0.58	0.15	30.01
00003	60	132.7	0.63	60.00	-.37	0.30	-.45	0.13	0.47	60.04
00004	90	8.0	0.12	90.00	-.42	0.43	-.56	0.79	0.60	90.05
00005	120	308.9	1.03	120.00	-.19	0.23	-.26	0.94	0.29	120.02
00006	150	323.6	1.30	149.99	0.27	-.18	0.32	0.43	0.32	150.02
00007	180	335.7	1.60	179.98	0.92	-.55	1.07	0.40	1.08	180.08
00008	210	330.8	3.75	209.94	2.17	-1.20	2.47	2.16	2.47	210.17
00009	240	329.6	5.57	239.84	4.28	-2.42	4.90	1.82	4.91	240.31
00010	270	329.5	7.63	269.64	7.25	-4.16	8.33	2.07	8.35	270.45
00011	300	330.1	9.64	299.30	11.15	-6.43	12.82	2.02	12.87	300.55
00012	330	332.6	10.60	328.83	15.78	-8.96	18.08	1.05	18.14	330.59
00013	360	335.9	10.40	358.33	20.70	-11.33	23.54	0.64	23.59	360.62
00014	390	327.9	10.58	387.83	25.50	-13.90	28.99	1.48	29.04	390.65
00015	420	322.4	12.45	417.23	30.40	-17.34	34.87	2.16	34.99	420.62
00016	450	316.7	14.15	446.42	35.63	-21.84	41.51	2.14	41.79	450.47
00017	480	314.4	15.87	475.40	41.16	-27.28	48.83	1.82	49.37	480.19
00018	510	313.6	17.55	504.13	47.15	-33.49	56.88	1.70	57.83	509.74
00019	540	311.1	20.13	532.52	53.66	-40.66	65.61	2.70	67.32	540.89
00020	570	312.7	21.08	560.60	60.72	-48.51	75.53	1.10	77.71	574.20
00021	600	323.8	23.18	589.40	69.15	-55.97	86.32	4.66	88.96	608.66
00022	630	326.4	26.33	605.64	79.45	-63.15	98.68	3.33	101.49	631.63
00023	660	326.0	27.68	642.37	90.76	-70.73	112.16	1.36	115.07	675.86
00024	690	326.1	29.70	668.68	103.73	-78.78	126.30	3.02	130.25	710.56
00025	720	326.3	31.68	694.48	115.44	-87.28	141.54	1.99	144.72	744.35
00026	750	326.6	32.57	719.89	128.74	-96.11	157.29	0.89	160.65	791.26
00027	780	327.1	36.25	744.63	143.01	-105.25	174.09	3.78	177.56	833.62
00028	810	328.0	37.90	768.57	158.34	-114.84	192.04	1.65	195.60	869.68
00029	840	328.8	39.08	792.05	174.25	-124.62	210.58	1.29	214.22	905.50
00030	870	329.4	40.03	815.18	190.64	-134.44	229.59	1.01	233.27	938.86
00031	900	329.5	40.15	838.13	207.27	-144.26	248.82	0.15	252.53	972.16
00032	930	330.0	40.25	861.04	224.01	-154.01	268.10	0.36	271.84	1005.46
00033	960	330.0	39.37	884.08	240.64	-163.61	287.23	0.89	290.99	1038.92
00034	990	330.2	39.65	907.23	257.18	-172.14	306.25	0.31	309.47	1072.14
00035	1020	330.4	39.35	930.38	273.75	-182.59	325.27	0.34	329.05	1106.22
00036	1050	331.1	38.75	953.68	290.25	-191.82	344.11	0.74	347.90	1141.23
00037	1080	331.2	38.58	977.10	386.66	-200.86	362.82	0.18	435.71	1209.36
00038	1110	331.7	37.38	1000.75	322.88	-209.69	381.24	1.24	384.99	1209.68
00039	1140	332.0	36.43	1024.73	338.76	-248.19	399.23	0.96	419.94	1249.74
00040	1180	333.7	36.80	1056.84	359.99	-229.08	423.07	0.84	426.69	1284.95

00041	1210	333.9	36.60	1080.89	376.08	-236.99	440.99	0.22	444.52	1317.06
00042	1240	333.7	39.08	1104.58	392.59	-245.12	459.39	2.49	462.82	1348.44
00043	1270	332.6	40.50	1127.63	409.72	-253.79	478.58	1.56	481.95	1379.53
00044	1300	331.8	40.60	1150.43	426.97	-262.88	498.06	0.53	501.40	1410.50
00045	1330	331.9	39.48	1173.40	443.99	-271.98	517.33	1.12	520.67	1441.00
00046	1360	332.5	39.03	1196.63	460.79	-280.83	536.29	0.56	539.62	1470.66
00047	1390	333.8	38.75	1219.98	477.59	-289.34	555.12	0.89	558.39	1500.39
00048	1420	334.7	38.52	1243.41	494.56	-297.47	573.85	0.63	577.12	1530.18
00049	1450	334.1	38.60	1266.87	511.33	-305.55	592.54	0.40	595.66	1559.94
00050	1480	334.0	38.75	1290.29	528.18	-313.75	611.29	0.17	614.33	1590.44
00051	1510	333.8	38.83	1313.67	545.06	-322.02	630.08	0.13	633.07	1621.42
00052	1540	334.8	38.90	1337.03	562.03	-330.17	648.90	0.61	651.83	1652.39
00053	1570	334.7	38.88	1360.38	579.07	-338.20	667.74	0.05	670.59	1683.35
00054	1600	336.2	38.45	1383.81	596.11	-345.99	686.48	0.98	689.24	1717.19
00055	1630	339.7	38.42	1407.31	613.39	-353.00	705.10	2.18	707.71	1752.99
00056	1660	340.1	38.42	1430.81	630.89	-359.42	723.67	0.26	726.08	1790.34
00057	1690	340.0	28.87	1454.25	648.49	-365.82	742.33	0.42	744.55	1841.12
00058	1720	340.2	39.57	1477.49	666.33	-372.28	761.23	0.72	763.27	1875.85
00059	1750	339.7	39.95	1500.55	684.35	-378.85	780.34	0.49	782.21	1910.39
00060	1780	340.0	40.15	1523.51	702.47	-385.50	799.57	0.25	801.29	1944.30
00061	1810	340.6	40.30	1546.42	720.71	-392.04	818.87	0.42	820.43	1976.94
00062	1840	340.4	40.20	1569.32	738.98	-398.52	838.16	0.15	839.58	2009.58
00063	1870	341.7	40.55	1592.17	757.36	-404.83	857.48	0.95	858.76	2042.23
00064	1900	341.2	41.10	1614.87	775.96	-411.06	876.97	0.65	878.11	2075.02
00065	1930	340.7	41.53	1637.40	794.68	-417.51	896.67	0.53	897.68	2107.75
00066	1958	340.8	41.78	1658.32	812.26	-423.63	915.18	0.28	916.09	2137.83
00067	1991	342.0	42.50	1682.64	833.12	-430.66	937.06	0.98	937.84	2170.06
00068	2020	339.0	42.25	1703.85	851.35	-437.11	956.31	2.13	957.00	2198.23
00069	2048	337.0	43.25	1725.09	869.24	-444.34	975.57	1.41	976.22	2226.46
00070	2077	339.0	41.00	1746.54	886.91	-451.48	994.61	1.91	995.21	2254.81
00071	2106	337.0	40.25	1768.33	904.23	-458.48	1013.27	1.57	1013.82	2286.68
00072	2137	340.0	40.25	1790.23	921.48	-465.27	1031.78	2.03	1032.28	2318.97
00073	2163	341.0	40.00	1812.18	938.92	-471.45	1050.19	0.72	1050.63	2351.24
00074	2192	342.0	39.25	1834.29	956.26	-477.26	1068.37	1.03	1068.75	2385.39
00075	2220	342.0	39.75	1856.43	973.63	-482.90	1086.49	0.52	1086.80	2419.60
00076	2249	343.0	39.75	1878.50	991.13	-488.42	1104.68	0.67	1104.94	2454.91
00077	2307	345.0	40.25	1922.47	1026.60	-498.58	1141.12	0.72	1141.26	2525.66
00078	2335	345.0	39.50	1944.50	1044.37	-503.34	1159.24	0.78	1159.33	2555.27
00079	2364	345.0	40.00	1966.56	1062.10	-508.09	1177.31	0.52	1177.37	2584.90
00080	2393	345.0	41.00	1988.38	1080.10	-512.92	1195.67	1.05	1195.70	2614.41
00081	2421	345.0	41.75	2009.92	1098.43	-517.83	1214.35	0.78	1214.37	2644.04
00082	2450	346.0	41.50	2031.37	1116.88	-522.60	1233.10	0.74	1233.09	2674.02
00083	2479	345.0	41.50	2052.87	1135.29	-527.36	1251.79	0.69	1251.79	2704.05
00084	2507	346.0	41.25	2074.40	1153.66	-532.11	1270.45	0.74	1270.46	2734.09
00085	2536	346.0	42.00	2095.86	1172.16	-536.72	1289.16	0.78	1289.19	2761.75
00086	2565	347.0	42.00	2117.19	1190.83	-541.21	1307.98	0.70	1308.04	2788.72
00087	2594	347.0	42.25	2138.47	1209.58	-545.54	1326.81	0.26	1326.91	2815.66
00088	2622	346.0	42.00	2159.76	1228.30	-550.03	1345.67	0.75	1345.82	2842.61
00089	2651	347.0	42.00	2181.09	1246.98	-554.51	1364.49	0.70	1364.71	2869.60
00090	2680	349.0	42.00	2202.42	1265.76	-558.51	1383.20	1.40	1383.50	2897.26
00091	2708	348.0	42.00	2223.74	1284.58	-562.33	1401.87	0.70	1402.27	2925.93
00092	2737	348.0	41.75	2245.11	1303.31	-566.32	1420.54	0.26	1421.03	2954.66
00093	2766	348.0	41.75	2266.53	1322.01	-570.29	1439.16	0.00	1439.77	2983.42
00094	2794	350.0	41.75	2287.94	1340.77	-573.94	1457.70	1.39	1458.44	3011.69
00095	2823	351.0	41.50	2309.39	1359.57	-577.08	1476.07	0.74	1476.97	3038.54
00096	2852	351.0	40.50	2331.05	1378.16	-580.03	1494.17	1.05	1495.24	3065.53
00097	2881	351.0	39.50	2353.04	1396.38	-582.91	1511.90	1.05	1513.16	3092.75

00098	2909	351.0	40.00	2375.10	1414.51	-585.78	1529.54	0.52	1531.00	3120.02
00099	2938	351.0	37.50	2397.48	1432.27	-588.44	1546.76	2.69	1548.43	3147.48
00100	2967	351.0	35.50	2420.55	1449.16	-590.96	1563.13	2.18	1565.02	3176.60
00101	2995	350.0	33.00	2444.27	1465.09	-593.62	1578.69	2.68	1580.78	3207.64
00102	3024	352.0	29.50	2468.81	1479.79	-595.97	1593.00	3.82	1595.29	3238.92
00103	3034	352.0	29.50	2477.51	1484.66	-596.65	1597.71	0.00	1600.06	3249.83

STRUCTURE FOR FILE: DSDMC-2.DBF
NUMBER OF RECORDS: 00108
DATE OF LAST UPDATE: 12/01/83
PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	MEASDPH	N	004	
002	DIRECTION	N	005	001
003	DRIFTANGL	N	005	002
004	VERTDPH	N	007	002
005	LATITUDE	N	008	002
006	DEPARTURE	N	008	002
007	VERTSEC	N	007	002
008	DOGLEG	N	004	002
009	RADIUS	N	007	002
010	DBS	N	007	002

** TOTAL ** 00063

. list	<i>z</i>	<i>AB</i>	<i>Dir°</i>	<i>VERT</i>	<i>TVD</i>	<i>LAT</i>	<i>DEP</i>				
00001	0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
00002	30	48.1	0.35	30.00	0.06	0.07	8.99	0.35	9.21	31.00	
00003	60	271.7	0.20	60.00	0.13	0.04	0.13	0.52	0.13	60.01	
00004	90	173.8	0.47	90.00	0.01	0.15	0.15	0.54	0.15	90.01	
00005	120	160.3	0.08	120.00	-.13	0.18	0.22	0.39	0.22	120.02	
00006	150	66.4	0.50	150.00	-.07	0.31	0.32	0.51	0.31	150.03	
00007	180	69.6	0.78	180.00	0.05	0.62	0.62	0.29	0.62	180.06	
00008	210	50.6	3.47	209.97	0.60	1.58	1.69	2.74	1.69	210.15	
00009	240	20.8	7.13	239.84	2.83	3.18	4.25	4.46	4.25	240.30	
00010	270	18.9	11.33	269.44	7.35	4.81	8.79	4.21	8.78	270.39	
00011	306	18.9	14.53	304.53	14.97	7.42	16.71	2.67	16.70	306.35	
00012	330	20.9	16.58	327.65	21.02	9.60	23.12	2.65	23.11	330.17	
00013	360	22.8	17.78	356.31	29.25	12.91	31.97	1.32	31.97	359.79	
00014	390	24.7	18.50	384.82	37.80	16.67	41.31	0.92	41.31	389.32	
00015	420	26.6	18.82	413.24	46.45	20.82	50.90	0.69	50.90	418.79	
00016	450	27.5	19.83	441.55	55.29	25.34	60.82	1.05	60.82	448.28	
00017	480	31.2	20.67	469.69	64.34	30.43	71.17	1.53	71.17	477.75	
00018	510	31.2	21.37	497.70	73.54	36.00	81.88	0.70	81.87	507.14	
00019	540	25.6	22.38	525.54	83.37	41.31	93.04	2.32	93.04	536.42	
00020	570	18.3	22.05	553.31	93.88	45.55	104.35	2.78	104.34	565.64	
00021	600	13.7	23.72	580.95	105.10	48.77	115.86	2.45	115.86	594.76	
00022	630	12.1	25.52	608.22	117.28	51.56	128.11	1.92	128.11	623.49	
00023	660	12.1	25.50	635.30	129.91	54.26	140.79	0.03	140.78	652.08	
00024	690	13.1	25.75	662.34	142.58	57.09	153.58	0.50	153.58	680.64	
00025	720	14.9	15.13	690.42	152.73	59.63	163.95	9.99	163.95	709.96	
00026	750	16.7	24.50	718.61	162.50	62.39	174.07	9.38	174.06	739.35	
00027	780	19.9	23.97	745.96	174.19	66.26	186.37	1.42	186.36	772.60	
00028	810	22.3	24.42	773.33	185.66	70.68	198.66	1.08	198.65	808.55	
00029	840	25.1	24.50	800.64	197.03	75.68	211.07	1.16	211.06	844.52	
00030	870	27.0	24.55	827.93	208.22	81.14	223.47	0.79	223.47	880.41	
00031	900	29.6	27.27	854.91	219.76	87.36	236.49	2.95	236.48	915.67	
00032	930	29.9	30.45	881.18	232.33	94.53	250.83	3.18	250.82	951.07	
00033	960	29.9	32.08	906.82	245.83	102.30	266.27	1.63	266.26	986.54	
00034	990	30.3	33.03	932.11	259.79	110.40	282.28	0.97	282.27	1014.41	
00035	1020	31.2	33.92	957.13	274.01	118.86	298.68	1.02	298.67	1039.43	
00036	1050	32.5	34.00	982.01	288.25	127.70	315.27	0.73	315.27	1064.31	
00037	1080	32.7	33.92	1006.90	302.37	136.73	331.85	0.14	331.84	1089.20	
00038	1110	34.2	33.42	1031.87	316.25	145.90	348.28	0.97	348.28	1114.17	
00039	1140	34.7	33.88	1056.84	329.95	155.30	364.68	0.54	364.67	1132.46	
00040	1170	34.8	34.83	1081.61	343.86	164.95	381.38	0.95	381.37	1166.31	
00041	1200	34.6	34.70	1106.25	357.93	174.69	398.28	0.18	398.28	1206.77	

DBS ?

00042	1230	35.7	34.50	1130.95	371.86	184.50	415.11	0.66	415.11	1244.73
00043	1260	37.1	34.33	1155.70	385.50	194.56	431.82	0.81	431.81	1273.91
00044	1290	37.7	34.08	1180.51	398.90	204.80	448.40	0.42	448.40	1303.12
00045	1320	38.0	33.92	1205.38	412.15	215.10	464.90	0.23	464.90	1332.37
00046	1350	39.3	32.08	1230.54	424.91	225.30	480.94	1.97	480.94	1357.47
00047	1380	36.9	32.00	1255.97	437.43	235.12	496.62	1.28	496.61	1381.54
00048	1410	32.0	30.50	1281.61	450.26	243.92	512.09	2.95	512.08	1405.83
00049	1440	27.0	30.33	1307.48	463.47	251.40	527.27	2.54	527.26	1430.38
00050	1470	22.8	29.90	1333.44	477.12	257.73	542.29	2.15	542.28	1455.04
00051	1500	22.2	28.38	1359.64	490.62	263.32	556.82	1.55	556.81	1479.96
00052	1530	24.0	28.15	1386.06	503.69	268.90	570.97	0.88	570.97	1504.98
00053	1560	25.8	27.90	1412.54	516.47	274.83	585.04	0.88	585.04	1530.07
00054	1590	26.8	27.67	1439.08	529.01	281.03	599.02	0.52	599.02	1555.23
00055	1620	27.7	27.17	1465.71	541.29	287.35	612.84	0.65	612.83	1580.49
00056	1650	27.7	27.00	1492.42	553.38	293.70	626.50	0.17	626.48	1605.85
00057	1680	27.6	27.03	1519.15	565.46	300.03	640.12	0.07	640.12	1630.96
00058	1710	27.9	27.00	1545.87	577.52	306.37	653.75	0.14	653.75	1655.82
00059	1740	28.8	27.00	1572.60	589.50	312.84	667.37	0.41	667.36	1680.70
00060	1770	28.3	27.17	1599.31	601.50	319.37	681.03	0.29	681.02	1705.55
00061	1800	29.1	27.15	1626.01	613.51	325.94	694.72	0.37	694.71	1732.47
00062	1830	29.1	26.73	1652.75	625.39	332.55	708.31	0.42	708.30	1762.71
00063	1860	28.2	26.53	1679.57	637.19	339.00	721.75	0.45	721.75	1793.03
00064	1890	28.2	26.10	1706.46	648.91	345.29	735.05	0.43	735.05	1823.56
00065	1920	27.3	26.10	1733.40	660.59	351.43	748.25	0.40	748.25	1854.10
00066	1950	27.3	26.00	1760.35	672.30	357.47	761.43	9.99	761.42	1884.65
00067	1980	27.4	25.92	1787.33	683.96	363.51	774.56	8.99	774.55	1915.22
00068	2010	26.5	25.67	1814.34	695.60	369.42	787.61	0.47	787.61	1945.79
00069	2040	26.5	25.20	1841.43	707.13	375.17	800.49	0.47	800.49	1976.40
00070	2070	25.7	24.70	1868.63	718.49	380.74	813.14	0.60	813.13	2007.05
00071	2100	25.7	24.97	1895.86	729.85	386.20	825.73	0.27	825.73	2037.72
00072	2130	23.9	24.78	1923.07	741.30	391.50	838.33	0.78	838.33	2070.21
00073	2150	23.0	24.63	1950.33	752.80	396.49	850.82	0.41	850.83	2103.84
00074	2190	22.2	24.58	1977.60	764.33	401.29	863.26	0.34	863.26	2137.45
00075	2220	22.2	24.42	2004.90	775.85	405.99	875.66	0.16	875.65	2171.07
00076	2250	21.3	23.33	2032.34	787.13	410.49	887.74	1.15	887.73	2204.67
00077	2280	20.5	23.55	2059.86	798.28	414.74	899.58	0.39	899.58	2239.35
00078	2310	20.5	23.00	2087.42	809.38	418.89	911.36	0.55	911.35	2274.34
00079	2340	20.5	22.97	2115.04	820.35	423.00	922.99	0.04	922.98	2309.31
00080	2370	18.7	22.92	2142.66	831.37	426.92	934.57	0.70	934.57	2344.25
00081	2400	19.7	23.22	2170.26	842.47	430.79	946.22	0.49	946.22	2380.79
00082	2436	19.8	23.50	2203.31	855.91	435.61	960.38	0.24	960.38	2425.77
00083	2460	20.7	23.53	2225.32	864.88	438.92	969.88	0.45	969.88	2455.79
00084	2490	20.3	23.17	2252.86	876.02	443.09	981.70	0.39	981.71	2492.96
00085	2520	18.9	22.83	2280.48	887.06	447.02	993.33	0.64	993.33	2529.81
00086	2550	17.0	22.53	2308.16	898.08	450.58	1004.77	0.79	1004.78	2566.59
00087	2580	16.6	22.42	2335.88	909.05	453.90	1016.07	0.19	1016.06	2603.96
00088	2610	15.2	22.50	2363.60	920.07	457.04	1027.34	0.54	1027.34	2643.46
00089	2640	14.3	22.25	2391.34	931.12	459.95	1038.53	0.43	1038.52	2682.88
00090	2670	17.0	21.98	2419.14	941.99	464.99	1049.63	1.05	1050.50	2722.29
00091	2700	17.9	21.18	2447.03	952.51	466.30	1060.53	0.87	1060.53	2759.54
00092	2730	20.7	20.25	2475.09	962.52	469.81	1071.07	1.36	1071.06	2797.42
00093	2760	22.5	19.00	2503.35	971.89	473.52	1081.12	1.39	1081.11	2840.83
00094	2790	22.0	18.47	2531.76	980.81	477.17	1090.73	0.55	1090.73	2887.46
00095	2820	21.5	17.78	2560.27	989.49	480.62	1100.04	0.71	1100.03	2929.39
00096	2850	19.7	17.63	2588.85	998.02	483.83	1109.12	0.57	1109.12	2970.87
00097	2880	26.9	15.40	2617.61	1005.86	487.21	1117.64	3.02	1117.64	3010.52
00098	2910	28.4	14.58	2646.59	1012.73	490.81	1125.39	0.90	1125.39	3048.63

00099	2940	29.9	14.08	2675.66	1019.21	494.42	1132.81	0.62	1132.80	3086.42
00100	2970	32.5	13.00	2704.82	1025.22	498.06	1139.80	1.24	1139.79	3123.43
00101	2979	30.0	13.75	2713.58	1027.00	499.14	1141.87	3.16	1141.87	3133.98
00102	3065	75.0	10.00	2797.72	1037.50	512.82	1157.32	3.38	1157.32	3231.35
00103	3099	74.0	10.50	2831.18	1038.11	518.65	1161.36	0.47	1160.46	3267.49
00104	3180	82.0	11.75	2910.66	1042.36	533.92	1171.15	0.73	1171.14	3356.12
00105	3268	94.0	12.75	2996.65	1041.71	552.55	1179.18	0.92	1179.18	3426.69
00106	3296	98.0	12.50	3023.98	1041.07	558.64	1181.48	0.97	1181.48	3445.89
00107	3395	110.0	16.00	3119.92	1035.19	582.23	1187.69	1.38	1187.69	3524.56
00108	3502	110.0	16.00	3222.77	1025.10	609.95	1192.84	0.01	1192.84	3614.04

. use dsdmc-1

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STRUCTURE FOR FILE: DSDMC-3.DBF
 NUMBER OF RECORDS: 00115
 DATE OF LAST UPDATE: 12/02/83
 PRIMARY USE DATABASE

FLD	NAME	TYPE	WIDTH	DEC
001	MEASDPH	N	004	
002	DIRECTION	N	005	001
003	DRIFTANGL	N	005	002
004	VERTDPH	N	007	002
005	LATITUDE	N	008	002
006	DEPARTURE	N	008	002
007	VERTSEC	N	007	002
008	DOGLEG	N	004	002
009	RADIUS	N	007	002
010	DBS	N	007	002

** TOTAL ** 00063

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00001	0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
00002	30	79.4	0.50	30.00	0.02	0.13	-.12	0.50	0.13	30.00
00003	60	38.7	0.67	60.00	0.18	0.37	-.30	0.43	0.41	60.01
00004	90	45.1	0.80	90.00	0.47	0.62	-.47	0.16	0.77	90.02
00005	120	38.4	0.97	119.99	0.81	0.92	-.67	0.20	1.23	120.02
00006	150	35.3	1.42	149.99	1.32	1.30	-.89	0.45	1.85	150.04
00007	180	37.0	1.50	179.98	1.93	1.75	-1.15	8.99	2.60	180.05
00008	210	39.5	1.60	209.96	2.57	2.25	-1.46	0.12	3.41	210.05
00009	240	31.9	1.83	239.95	3.30	2.77	-1.76	0.32	4.30	240.06
00010	270	24.8	2.02	269.93	4.19	3.25	-1.97	0.30	5.30	270.07
00011	300	1.7	2.37	299.91	5.28	3.49	-1.90	0.94	6.32	300.08
00012	330	334.6	4.18	329.86	6.89	3.04	-1.03	2.34	7.53	330.06
00013	360	317.5	5.72	359.75	8.97	1.56	0.97	2.11	9.11	360.00
00014	390	290.0	5.78	389.61	10.60	-.88	3.75	2.73	10.63	389.90
00015	420	276.4	8.67	419.37	11.37	-4.55	7.49	3.34	12.24	419.70
00016	450	280.3	11.00	448.92	12.13	-9.60	12.56	2.42	15.47	449.34
00017	480	274.8	13.27	478.25	12.94	-15.86	18.79	2.54	20.46	478.81
00018	510	272.4	15.50	507.31	13.39	-23.29	26.07	2.31	26.86	508.04
00019	540	267.7	17.72	536.06	13.38	-31.86	34.30	2.60	34.55	537.01
00020	570	266.7	19.00	564.53	12.91	-41.30	43.25	1.32	43.27	565.72
00021	600	266.8	20.58	592.76	12.34	-51.44	52.84	1.58	52.89	594.21
00022	630	267.1	22.18	620.69	11.76	-62.36	63.18	1.60	63.45	622.43
00023	660	272.6	21.50	648.54	11.72	-73.51	73.89	2.16	74.43	650.58
00024	690	274.4	22.13	676.39	12.41	-84.64	84.78	0.92	85.54	678.74
00025	720	271.7	23.42	704.05	13.03	-96.22	96.10	1.66	97.10	706.72
00026	750	271.7	23.73	731.55	13.39	-108.22	107.73	0.32	109.04	734.55
00027	780	271.8	25.50	758.82	13.77	-120.71	119.84	1.77	121.49	762.16
00028	810	271.9	27.72	785.64	14.21	-134.14	132.87	2.22	134.89	789.35
00029	840	272.5	29.85	811.93	14.77	-148.57	146.90	2.15	149.30	816.04
00030	870	272.2	30.67	837.85	15.40	-163.68	161.60	0.83	164.40	842.37
00031	900	272.7	31.03	863.60	16.07	-179.05	176.56	0.44	179.76	868.55
00032	930	272.8	31.38	889.26	16.81	-194.57	191.69	0.35	195.29	894.63
00033	960	272.8	31.42	914.87	17.57	-210.19	206.91	0.03	210.92	920.67
00034	990	273.7	31.77	940.42	18.45	-225.88	222.24	0.58	226.63	950.34
00035	1020	274.5	32.23	965.86	19.59	-241.73	237.80	0.66	242.52	987.38
00036	1050	275.8	32.45	991.20	21.04	-257.71	253.56	0.72	258.56	1018.54
00037	1080	276.7	32.92	1016.46	22.81	-273.82	269.53	0.66	274.76	1049.67
00038	1110	277.1	33.25	1041.59	24.78	-290.07	285.70	0.40	291.12	1080.72
00039	1140	278.8	32.33	1066.81	27.01	-306.17	301.79	1.28	307.35	1111.80
00040	1170	280.4	31.43	1092.29	29.65	-321.79	317.54	1.27	323.15	1142.98
00041	1200	285.1	30.67	1117.99	33.06	-336.87	332.98	2.50	338.48	1172.48

00042	1230	285.6	31.67	1143.66	37.16	-351.84	348.50	1.04	353.79	1201.51
00043	1260	286.0	32.00	1169.15	41.47	-367.07	364.32	0.38	369.40	1230.42
00044	1290	284.7	32.25	1194.56	45.68	-382.46	380.27	0.71	385.17	1259.29
00045	1320	284.7	32.78	1219.85	49.77	-398.05	396.40	0.53	401.14	1289.95
00046	1350	284.6	33.08	1245.03	53.90	-413.83	412.70	0.30	417.32	1324.03
00047	1380	285.1	33.17	1270.16	58.10	-429.68	429.09	0.25	433.59	1353.52
00048	1410	285.4	33.20	1295.26	62.41	-445.52	445.51	0.18	449.87	1380.30
00049	1440	285.4	33.45	1320.33	66.78	-461.41	461.99	0.25	466.21	1407.06
00050	1470	286.2	33.40	1345.37	71.27	-477.32	478.52	0.44	482.61	1433.80
00051	1500	286.7	33.53	1370.40	75.95	-493.18	495.06	0.32	498.99	1460.52
00052	1530	286.8	33.62	1395.39	80.73	-509.07	511.65	9.99	515.43	1487.21
00053	1560	284.5	33.67	1420.37	85.22	-525.07	528.26	1.26	531.94	1513.90
00054	1590	286.4	33.92	1445.30	89.67	-541.15	544.95	1.09	548.52	1540.54
00055	1620	286.6	34.08	1470.17	94.45	-557.23	561.72	0.20	565.17	1567.13
00056	1650	286.2	33.03	1495.17	99.13	-573.14	578.30	1.08	581.64	1593.82
00057	1680	285.6	34.13	1520.16	103.68	-589.10	594.90	1.14	598.15	1620.50
00058	1710	284.5	34.17	1544.99	108.05	-605.36	611.74	0.66	614.92	1647.04
00059	1740	284.6	33.72	1569.88	112.26	-621.57	628.48	0.45	631.62	1673.63
00060	1770	284.7	33.53	1594.86	116.45	-637.65	645.09	0.19	648.19	1700.31
00061	1800	284.2	33.83	1619.82	120.60	-653.76	661.72	0.40	664.79	1726.96
00062	1830	284.5	33.67	1644.76	124.74	-669.90	678.38	0.24	681.41	1753.60
00063	1860	285.5	33.95	1669.69	129.06	-686.03	695.07	0.59	698.06	1780.23
00064	1890	285.1	33.87	1694.59	133.48	-702.17	711.81	0.20	714.74	1806.83
00065	1920	285.9	33.80	1719.51	137.95	-718.26	728.51	0.44	731.38	1836.10
00066	1950	286.2	33.53	1744.48	142.55	-734.24	745.14	0.29	747.94	1866.69
00067	1980	286.0	33.33	1769.51	147.12	-750.13	761.67	0.22	764.42	1897.31
00068	2010	285.3	33.12	1794.61	151.56	-765.96	778.11	0.43	780.81	1928.47
00069	2040	285.7	32.83	1819.77	155.92	-781.69	794.43	0.35	797.08	1959.66
00070	2070	284.9	32.12	1845.08	160.17	-797.23	810.54	0.83	813.16	1988.97
00071	2100	285.9	31.58	1870.57	164.37	-812.49	826.37	0.76	828.94	2015.99
00072	2130	285.3	31.42	1896.15	168.59	-827.59	842.04	0.36	844.58	2043.09
00073	2160	285.7	31.13	1921.79	172.76	-842.58	857.62	0.36	860.11	2070.24
00074	2190	285.9	32.20	1947.32	177.04	-857.75	873.37	1.07	875.83	2097.29
00075	2220	287.5	33.17	1972.57	181.70	-873.26	889.56	1.32	891.96	2124.11
00076	2250	287.2	33.95	1997.57	186.65	-889.08	906.13	0.80	908.47	2150.71
00077	2280	288.2	32.72	2022.63	191.67	-904.79	922.62	1.35	924.86	2177.36
00078	2310	289.2	31.78	2048.00	196.80	-919.94	928.61	1.06	940.76	2204.28
00079	2340	290.3	31.83	2073.50	202.14	-934.83	954.38	0.58	956.44	2231.30
00080	2370	291.3	31.45	2099.04	207.72	-949.55	970.06	0.64	972.00	2258.62
00081	2400	291.4	31.40	2124.64	213.41	-964.12	985.63	8.99	987.45	2286.21
00082	2430	292.3	31.03	2150.29	219.19	-978.55	1001.10	0.59	1002.79	2313.84
00083	2460	292.5	31.22	2175.98	225.09	-992.88	1016.51	0.21	1018.08	2341.50
00084	2490	293.6	31.53	2201.21	231.21	-1007.26	1032.01	0.68	1033.45	2365.59
00085	2520	294.0	31.70	2227.14	237.56	-1021.65	1047.59	0.24	1048.90	2389.11
00086	2550	294.0	31.93	2252.63	244.00	-1036.10	1063.25	0.23	1064.44	2412.17
00087	2580	293.1	32.08	2278.07	250.35	-1050.67	1079.01	0.50	1080.08	2428.08
00088	2610	292.7	32.15	2303.48	256.56	-1065.36	1094.84	0.23	1095.81	2446.68
00089	2640	292.8	32.17	2328.87	262.74	-1080.09	1110.70	0.06	1111.58	2473.50
00090	2670	292.2	31.67	2354.34	268.82	-1094.74	1126.45	0.58	1127.26	2513.09
00091	2700	291.3	31.13	2379.94	274.61	-1109.25	1142.00	0.73	1142.73	2547.11
00092	2730	290.3	32.05	2405.50	280.19	-1123.95	1156.66	1.05	1158.34	2580.67
00093	2760	289.8	31.95	2430.94	285.64	-1138.88	1173.52	0.28	1174.15	2612.51
00094	2790	290.2	32.03	2456.38	291.08	-1153.81	1189.37	0.22	1189.96	2644.35
00095	2820	290.7	32.05	2481.81	296.64	-1168.73	1205.24	0.24	1205.78	2676.83
00096	2850	291.0	32.53	2507.17	302.34	-1183.71	1221.21	0.52	1221.71	2709.42
00097	2880	291.2	33.72	2532.30	308.24	-1199.00	1237.54	1.19	1237.98	2741.14
00098	2910	291.4	34.83	2557.09	314.37	-1214.74	1254.36	1.12	1254.76	2772.45

00099	2940	291.0	36.03	2581.53	320.65	-1230.96	1271.68	1.22	1272.03	2803.59
00100	2970	291.7	37.42	2605.57	327.17	-1247.67	1289.54	1.44	1289.85	2834.54
00101	3000	291.3	38.20	2629.28	333.91	-1265.78	1307.84	0.81	1309.08	2867.36
00102	3030	290.8	37.53	2652.96	340.52	-1281.97	1326.18	0.75	1326.42	2904.13
00103	3060	290.9	37.25	2676.79	347.00	-1299.00	1344.33	0.30	1344.54	2941.64
00104	3090	290.6	37.05	2700.70	353.43	-1315.94	1362.39	0.25	1362.57	2973.83
00105	3120	290.9	36.95	2724.66	359.82	-1332.82	1380.38	0.16	1380.53	3005.90
00106	3150	290.2	36.70	2748.68	366.12	-1349.66	1398.30	0.48	1398.43	3038.01
00107	3180	291.1	36.47	2772.77	372.43	-1366.39	1416.12	0.63	1416.23	3068.68
00108	3210	290.5	36.12	2796.95	378.74	-1382.99	1433.81	0.51	1433.91	3094.27
00109	3240	290.0	35.87	2821.22	384.85	-1399.52	1451.39	0.39	1451.47	3119.94
00110	3270	290.3	35.38	2845.61	390.87	-1415.93	1468.82	0.51	1468.89	3145.73
00111	3300	291.5	34.70	2870.17	397.00	-1432.02	1485.98	0.97	1486.03	3171.65
00112	3330	290.8	34.08	2894.92	403.12	-1447.83	1502.86	0.73	1502.90	3197.75
00113	3360	291.2	34.12	2919.77	409.14	-1463.53	1519.61	0.21	1519.64	3223.62
00114	3380	292.5	34.10	2936.33	413.32	-1473.94	1530.76	1.13	1530.79	3240.74
00115	3500	292.5	34.10	3035.69	439.07	-1536.09	1597.60	0.00	1597.60	3343.49