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10-30-'91

MPG MackAY PUMP & GEOTHERMAL, Inc.

DOMESTIC & GEC
GEOTHERMAL EN
NEV. CONT. LIC. #2301

Tom - N17 E19 24 CB
FILE IN LOG BOOK
This came in response

to a "what happened to old well" letter.

Plugging report in.
★ OK ✓

Jody Gasser
Jan 28-92

Dear Mr. Anderson,
I have copies of this so keep it,
Follow ARROW

Jody Gasser
550 Old Ophi
Carson City,

Dear Jody:

I thought you might like a breakdown of the costs involved in the well work that was done.

We first tried to deepen your old well according to our estimate which was \$500.00 mobilization and 100 foot deepening at \$22.00/ft for a total of \$2,700.00 for the deepening plus the cost to pull the pump and pipe and pitless adapter for deepening and then re-installing same, approximately \$250.00.

After trying to deepen your well, we ran into a broken or collapsed or sheered well casing about 36' below surface which prevented us from getting the drill bit below this spot to deepen the well. We then tried to push a tool through the obstruction to open the well up so we could deepen it. This was also unsuccessful as you know. The charges for this effort then were charged at the original estimate of \$500.00 mobilization plus 2 hours of trying to fix your well at \$185.00/ hour for the drilling rig. We tried to replace your pump that night to help get you through the weekend with some water, but the well had filled up with sand and gravel making it impossible to get any water and we told you that a new well would have to be drilled and the old well abandoned.

We then drilled a new well (after obtaining necessary permission and permits by phone and then in person) and drilled to a depth of 140' and got a very good well producing over 75 gallons per minute. We then sealed the well's outside casing with cement to 100' per Dept. of Water Resources regulation. This cost was broken down as follows: 140' @ 22.00/ft = \$3,080.00 plus the seal at \$300.00 for a total of \$3,380.00 for the new well. We then abandoned the old well per Dept of Water Resources regulations at at cost of \$600.00.

Therefore, the total costs for drilling came to \$4,850.00. We then moved the pump to the new well after digging the trench and splicing the new wire and pipe over to the new well and pumped the new well showing a beginning water depth of 8' and a pumping depth of 17' at about 17 gallons per minute. With this new well's production I don't feel that you will ever have a problem with lack of water even if we experience another 10 years of drought.

The labor to do all of the pump installations and trenching and splicing, etc, came to \$400.00 and the drilling permit for the abandonment, deepening, and new well was able to be done with the one permit and cost \$100.00. The total cost for the complete job came to \$5,398.15 of which you have given us \$1,000.00 which leaves a balance due of \$4,398.15.

Sincerely,
R. Bruce MacKay
R. Bruce MacKay

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