



- 9. Estimated cost of works. One Million one hundred thousand dollars (\$1,100,000.00)
- 10. Estimated time required to construct works. Sixty to ninety days
- 11. Estimated time required to complete the application to beneficial use. three (3) to six (6) months.
- 12. Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use.

The industrial use of appropriated water, consequent to this application, would be the production of water or geothermal effluent from wellhead, then through surface pipeline, to electrical generating plant. Additional economic utilization of the geothermal energy may be effected subsequent to or separate from electrical generation.

Applicant Thermal Power Company  
Southland Royalty Company Thermal Power Company  
 ATTACHMENT: Drilling and Completion Procedure By s/ W.L. D'Olier  
W.L. D'Olier, Vice President  
 Compared LP/ha 601 California Street  
Denied 11/12/80, Ruling 2613 San Francisco, California 94108

DENIAL OF STATE ENGINEER

deny

This is to certify that I have examined the foregoing application, and do hereby ~~grant~~ the same, subject to the following limitations and conditions:

on the grounds that the applicant has failed to comply with the requirements of NRS 533.435 for submission of the fee necessary for the issuance of a permit.

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and not to exceed.....cubic feet per second.....

Actual construction work shall begin on or before.....

Proof of commencement of work shall be filed before.....

Work must be prosecuted with reasonable diligence and be completed on or before.....

Proof of completion of work shall be filed before.....

Application of water to beneficial use shall be made on or before.....

Proof of the application of water to beneficial use shall be filed on or before.....

Map in support of proof of beneficial use shall be filed on or before.....

Commencement of work filed.....  
 Completion of work filed.....  
 Proof of beneficial use filed.....  
 Cultural map filed.....  
 Certificate No..... Issued.....  
 Recorded..... Bk..... Page.....  
 County Recorder

IN TESTIMONY WHEREOF, I William J. Newman  
 State Engineer of Nevada, have hereunto set my hand and the seal of  
 my office, this 12th day of November,

A.D. 19 80

William J. Newman  
 State Engineer

## THERMAL POWER COMPANY

Proposed 8500-Foot Geothermal Exploratory Well: "Dixie Federal 12-13"

Drilling and Completion Procedure

(In Brief)

1. Drill 17½" hole and open to 26" hole to 120'+ with mud.  
Run 20" 94#, H-40 ST&C casing. Cement 0' to 120'.
2. Drill 17½" hole to 1300± with mud. Run 13-3/8" K-55 buttress casing. Cement 0' to 1300', install casing head and blowout preventers.
3. Drill 12¼" hole 6300'± or to the top of the reservoir using water as the circulating medium. Test, and if necessary, cement lost circulation zones during drilling. Run 9-5/8" N-80 and K-55 from the 13-3/8" with a minimum lap of 200'. Cement 1100' to 6300' with admix cement.
4. Drill 8½" hole from 6300' to 8500'±, or suitable production is encountered, with water. Test well through choke line.
5. If well has suitable production, run and cement 9-5/8" K-55 buttress casing from top of 9-5/8" liner to surface. Complete well with 13-3/8" x 9-5/8" expansion spool and master valve.
6. Lay down drill pipe, remove blowout preventers, and move off rotary rig.