

*Confidential*  
*Please return to me*  
*H. E. P.*

Denver, Colorado, October 15, 1940.

MEMORANDUM TO HYDRAULIC ENGINEER:  
(H. E. Pelham)

**Subject: Report on Gooseberry Project and Price River Investigation, Utah.**

1. Reference is made to Mr. Nielsen's letter dated October 11, 1940.

2. The Price River, Spanish Fork Transmountain Diversion Project, does appear to be the more attractive than the Gooseberry Project from a strictly economic standpoint. However, it seems that there are other factors which must be considered. In the first place the need for additional water in the Gooseberry Project area appears to be considerably more acute than in the Spanish Fork area with the only possible means of obtaining additional water lying in transmountain diversions from the Colorado River Basin. The Gooseberry Project area at present depends almost entirely on the natural flows to provide necessary irrigation water which supply naturally becomes deficient after the spring runoff. Diversion of Price River flows to the Spanish Fork River by means of the proposed transmountain tunnel from Scofield Reservoir would deprive the Gooseberry Project water users of their only hope for a storage reservoir and with this the hope of realizing the full benefit of the unusually fertile lands. On the other hand, the Spanish Fork River interests already have one large reservoir, built by the Bureau of Reclamation, which furnishes a supplemental late season supply.

3. With development of the Gooseberry Project and enlargement of Scofield Reservoir to an active capacity of 65,000 acre-feet, full Gooseberry diversion could be made from Price River and still leave a 42,000 acre-feet supply for other uses. By purchase of 2000 acre-feet of storage capacity in the Scofield Reservoir at a very reasonable cost, unrestricted diversion from White River to Spanish Fork River could be made. This would leave an estimated 40,000 acre-feet supply for Price River lands, which is sufficient for a full supply to 11,500 acres, which is 1500 acres more than the area that can be irrigated economically. It is estimated that about 7000 acre-feet of White River flows could be diverted to Spanish Fork River although probably only half of this would be fully useful. Assuming the cost of the 2000 acre-feet of replacement storage in Scofield Reservoir to be in proportion to the capacity required, the estimated cost of replacement to the Spanish Fork interests would be 2/73 of \$278,000 or \$7,600. Total cost of feeder canals to White River tributaries is \$115,200. On the basis of a fully useful diversion of 3500 acre-feet, the annual cost per acre-foot, including a \$1000 annual operation and maintenance cost, would be less than \$1.20 per acre-foot which is considerably less than costs per acre-foot for the Scofield Tunnel diversion.

4. It is thought that the above points should be considered in determining which of the developments is most in the public interest.

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/s/ H. E. Pelham