Dr. Heeschen

MEMORANDUM

August 31, 1967

SUBJECT: Preliminary cost estimate for a 5 km interferometer baseline up the North Fork Hollow

1. Lee King has prepared vertical profiles for a baseline at an azimuth of 116°, passing up the North Fork Hollow and intersecting the present baseline at a point 200 meters southwest of 85-1. He has prepared the following estimate of the cost of preparing the grade for 5 km of track. The assumed width of the grade is 100 feet.

	2.5% max. slope	2.0% max slope
Excavation	$19,300	$51,500
Clearing & grubbing	15,000	15,000
	$34,300	$66,500

Note that acquisition of the land would likely run higher than the grading.

2. Railway Tracks:

3 standard-gauge tracks (6 rails in all)
5 km = 16,400 ft @ $45/ft $740,000

3. Costs of observing stations would presumably be similar to those of the present baseline, but it would depend somewhat on what type of dish were used (60-foot, 85-foot). If 60-foot dishes were chosen, designed for 2-track operation, the cost of grading and track could probably be reduced to a total of $500,000. A track 2.5 km long would cost $250,000, but the maximum grade would still be 2.5%.

G. W. SWENSON, JR.

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