

(2.) GOVERNMENT PROSPECTING-DRILLS.

The following is a table giving the result of operations by Government drills during 1918. —

Type of Drill.	Name of Drill Superintendent.	Number of Holes drilled.	To whom lent.	Mineral sought for.	Total depth in Feet.	Character of Country pierced.	Average Cost per Foot drilled, including Transport.	Diameter of Hole.	Results.
Schramm - Harker diamond drill (oil-driven)	W. H. Warburton	17	Waikaia Oil-shale Development Company (Limited)	Oil-shale	(1) 57 (2) 70 (3) 106 (4) 58 (5) 66 (6) 60 (7) 75 (8) 50 (9) 86 (10) 47 (11) 50 (12) 70 (13) 86 (14) 45 (15) 120 (16) 114 (17) 78	Fine gravels, carbonaceous sand and clay beds	s. d. 9 6 4 9 3 11 4 6 4 11 4 5 3 4 4 11 5 6 6 1 6 9 4 1 3 9 7 3 4 1 3 8 6 10 13 4	Inches. 2½ 2½ 2½ 3 3 3 3 3 2½ 2½ 2½ 2½ 2½ 2½ 2½ 2½ 2½ 2½ 2½ 2½ 1½	8 ft. 3 in. oil-shale. No oil-shale; fair gold in gravels, 4 gr. per yard. No oil-shale; fair gold in gravels, 3 gr. per yard. 1 ft. oil-shale. 9 ft. oil-shale; good gold in gravels, 40 gr. per yard. 14 ft. 6 in. oil-shale. 17 ft. 9 in. oil-shale. No shale. 16 ft. oil-shale. 15 ft. oil-shale. No shale. " " " " 1 ft. 6 in. lignite; no oil-shale. 6 in. lignite; no oil-shale. No shale. Drilled from bottom of shaft, 280 ft.; no water found. 16 ft. coal, 11 ft. broken and dirty, at 118 ft. deep. 14 ft. coal, hard and clean, at 118 ft. deep. 12 ft. coal, hard and clean, at 94 ft. deep. 15 ft. coal, hard and clean, at 114 ft. deep. 21 ft. coal, hard and clean, at 132 ft. deep. 14 ft. 6 in. coal, hard and clean, at 141 ft. 6 in. deep. 17 ft. coal, hard and clean, at 293 ft. deep. 18 ft. coal, hard and clean, at 277 ft. 6 in. deep. 19 ft. 6 in. coal, hard and clean, at 109 ft. 6 in. deep. 21 ft. coal, hard and clean, at 109 ft. deep. 15 ft. 6 in. coal, hard and clean, at 112 ft. 6 in. deep. No coal found. 2 ft. coal at 29 ft. deep. 1 ft. coal at 61 ft. deep. Payable gold was proved.
Schramm - Harker diamond drill	W. H. Warburton	1	Lyttelton Borough Council	Water	630	Hard basalt and scoria	13 4	1½	Drilled from bottom of shaft, 280 ft.; no water found.
Schramm - Harker diamond drill	W. H. Warburton	14	Mines Department: Awaroa Land Company's area	Coal	(1) 150 (2) 145 (3) 113 (4) 131 (5) 157 (6) 162	Calcareous sandstone, clays, clay-shales to greywacke	4 6½ 4 4 4 2½ 4 3 4 4 4 4	2½ 2½ 2½ 2½ 2½ 2½	16 ft. coal, 11 ft. broken and dirty, at 118 ft. deep. 14 ft. coal, hard and clean, at 118 ft. deep. 12 ft. coal, hard and clean, at 94 ft. deep. 15 ft. coal, hard and clean, at 114 ft. deep. 21 ft. coal, hard and clean, at 132 ft. deep. 14 ft. 6 in. coal, hard and clean, at 141 ft. 6 in. deep.
Percussion drill	W. H. Warburton	90	Whangape Coal Company's area		(7) 313 (8) 300 (9) 138 (10) 129 (11) 129 (12) 85 (2A) 175 (3A) 234 Aggregate 1,812		4 7½ 4 7 10 2 4 11 3 0	2½ 2½ 2½ 2½ 2½	Calcareous sandstone, clays, clay-shales to greywacke
"			Awaroa Coal Company's area		(12) 85 (2A) 175 (3A) 234 Aggregate 1,812		5 11 5 11 5 11	2 2 2	River gravel
"			Westland Gold-prospecting Syndicate (Limited) (D. Ziman)	Alluvial gold	Aggregate 3,381		5 6	6	Results unsatisfactory.
"	G. E. D. Seale	81	Metals Exploration Company (New York)		deepest 42 Aggregate 487		5 6	6	Payable gold proved in holes numbered 11 to 14 inclusive.
Keystone	H. Butland	22	Dunedin City Corporation reservoir area, Post-office Creek, Waipori		deepest 74 Aggregate 883		..	6	Unpayable results.
"		13	Reservoir area, Waipori Flat				..	6	Unpayable results.
Percussion		8	State Collieries, Point Elizabeth Extended area	Coal		Sandstone and mudstone	..	2½	An 8 ft. coal-seam was proved over about 300 acres, which will be developed as a State colliery.