

Mult
County

Rice Gravel Pit

OMIT

T-86

Sept. 6, 1939

Mult. Co.

Treasurer

T. 1 S., R. 3 E.

SW $\frac{1}{4}$, Sec. 5

#146. Gravel pit opened about middle of Sept. in SW $\frac{1}{4}$, Sec. 5 on the line between NE $\frac{1}{4}$ and SE $\frac{1}{4}$. Land owned and pit operated by

H. L. Rice
5816 S. W. Hood St.,
Portland, Oregon

who is a highway contractor and is operating the pit as a source of his own crushed rock. At present the pit is producing, or digging, 1500 yards a day, which screens and crushed 300 yards a day; that is, Rice is turning out 300 yards of crushed rock a day.

Material thru the screen to deliver to crusher is 4" to 12". Finer gravel is stock-piled against time when finer material may be used.

Gravel is dug by steam shovel, loaded into dump trucks, and carried up out of pit and up an inclined ramp to dump onto grizzly. Gravel to be crushed is carried by conveyor-belt to jaw crusher, then hoisted by elevator bucket to bunker.

Oversize, - 12" boulders, are being stock-piled and will ultimately be crushed for rock-surfacing.

This pit is typical Portland Terrace gravel. There is a zone of boulders at a depth of 10'-20', very few found above or below this zone. They range in size up to 3' in diameter and are almost without exception, lavas. Smaller boulders and cobbles are predominately of local

origin; quartzite and other metamorphics are conspicuous by their absence.

A sand lense or layer was struck in a well that is being dug for water supply. The sand contains a high percentage of quartz and feldspar and a low percentage of lava particles. Most of it is angular to sub-angular. This sand is not typical Terrace sand. It is more like Columbia River sand.

No erratics have been encountered to date.

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland 5, Oregon

Sandy Clay

MEMORANDUM ON SILTY CLAY NEAR SANDY

Multnomah County

Blue-grey silty clay beds are exposed in a steep bank located in the SW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of sec. 7, T. 2 S., R. 5 E. on Mrs. H. B. Price's property, Route 1, Box 229, Sandy, Oregon

Two exposures of the fairly flat-lying lenticular bed of silty clay were examined May 14, 1952. One exposure is on Bacon Creek about 50 feet below the terrace level where Bacon Creek crosses Mrs. Price's property. The other was about 250 yards north of Bacon Creek where a drainage ditch goes over the edge of the bank. The bed of blue silty clay is believed to be continuous between these points and to extend for a considerable distance on either side.

A section of the bank examined at the drainage ditch consisted of (from the top down) approximately 2 feet of sand, 5 feet of conglomerate or gravel (partially indurated), 12 feet of sand, 15 feet of overburden with large basalt boulders, and 40 feet of blue-grey silty clay. Below this the bank levels out and is probably underlain by conglomerate. The silty clay weathers to a buff color on the surface and when dry the bluish cast becomes grey.

Microscopic examination shows the material to contain volcanic ash, mica, clay minerals (not determined), feldspar, quartz, and minor weathered pyroxenes and amphiboles. Bricks have been prepared for a ceramic test. For results refer to P-12742.

Report by: L. R.
Date: June 12, 1952