## BEAVER BAY EAST

## STRATIGRAPHIC SECTION

Secs. 32 & 33, T. 54 S., R. 77 W. MAP LOCATION NO. 378

JULY 1977

MEASURED BY: W.M. LYLE PL. DOBEY

Permeability Porosity Environment Age Sample no. 189-L-74-- 1056 feet with 785 feet claystone in float, thin stringers Not analyzed MOSTLY COVERED of sandstone - with thin pods of sandstone cut-and-fill deposits; leaves CLAYSTONE 184-L-74are common, !-inch-thick zone. 183-L-74-182-L-74 181-L-74 - Pebble, clasts 1 to 2 inches, angular to subangular, 20% CONGLOMERATE chert, 20% sandstone, 60% miscellaneous rock fragments, sandstone matrix, calcareous matrix cement. No P& Pdata CLAYSTONE - With local thin pods of pebble conglomerate and sandstone stream deposits. - 80%; 10% sandstone, gray, fine-grained, tight, 5% thin, CLAYSTONE 110 altered coal beds. PARTIALLY COVERED - 35% sandstone in 2-to 3-foot-thick beds, light gray, fine-100' 178-L-74 grained, very calcareous. - Same as the 150-foot unit below. Some thin conglomerates. 100' 177-L-74-176-L-74-H 100' MOSTLY COVERED - Same as 150-foot unit below with one white-spotted claystone 175-L-74-70 feet from bottom. 174-L-74-173-L-74-MOSTLY COVERED - Shale, claystone and thin sandstones in float. 172-L-74-171-L-74-169-L-74-170-L-74 Z CLAYSTONE AND SILTSTONE . - Gray. Σ - Fine- to coarse-grained, poorly sorted, pebble clasts. SANDSTONE CONGLOMERATE - Light gray, pebble, with sandstone matrix. CONGLOMERATE SANDSTONE - Light gray, fine-grained with pebbles and petrified 111-L-74-110-L-74-- Carbonaceous with local pods of pebble conglomerate CLAYSTONE Fluvial ш 2 feet to 6 feet thick. 20-foot offset. 50'\_ SANDSTONE - Medium-light-gray, medium- to coarse-grained, poorly sorted. CLAYSTONE AND SANDSTONE - With thin conglomerates; altered. 0.000000 - Light tan, and black shale; with thin pods of conglomerate, CLAYSTONE 100 festoon crossbeds, carbonaceous debris, two 2-foot-thick sandstones. × SANDSTONE - 6 inches to 2 feet thick, with siltstone interbeds, volcanic 108-L-74and quartz pebbles; upper 3-foot conglomerate with sandstone matrix, pebble, clasts 1/2 to 1-1/4 inches, subrounded to subangular, festooned beds, sharp upward contact. d Dip Direction S 18 W, 72° - 75° T.V. . 2.7 5 ... CLAYSTONE - And thin sandstone, altered. 107-L-74-CLAYSTONE - And shale with 2-to 3-foot-thick, altered sandstone beds that are light gray, very fine grained, calcareous, well-0 > indurated. SANDSTONE - Very fine grained, light gray, calcareous, well-indurated; 0 105-L-74top 3 feet contain abundant petrified wood. CLAYSTONE AND SHALE - With thin, 1 to 6-inch, sandy beds. 104-L-74-9 SHALE AND SILTSTONE - Light gray. Possible fault in section. 103-L-74ш CLAYSTONE AND SILTSTONE - With 15% sandstone in beds 2 inches to 2 feet thick. Sandstone, light gray, fine-grained, well-sorted. Shales and claystone, dark gray to black. S CONGLOMERATE - Sandy, with shales and mudstone; basal conglomerate, 5 feet 101-L-74thick with festoon beds. 100-L-74-- Light gray with pebble clasts, weathers friable. - And thin siltstone stringers. With shale and thin coal beds. Sandstone light gray, fineto medium-grained, well-sorted, altered. 98-L-74. CLAYSTONE AND SHALE - With one 2-foot coal bed. 97-L-74-CONGLOMERATE AND SANDSTONE - Coarse-grained sandstone with pebbles 1/4-inch Nonmarine 96-L-74-888009880 to 2 inches, subangular to subrounded. 95-L-74-SANDSTONE AND SILTSTONE - In massive, altered beds 3 to 20 feet thick, 25 -Fluvial 30% sandstone and conglomerate, gray on fresh break, some 0 80118 carbonaceous debris and reeds. 0000 CLAYSTONE - Gray and tan with siltstones 1 inch to 6 inches. 94-L-74 - Light tan with 6-inch thick beds of siltstone, grades upward to black. STRIKE N 55 F. DIP 78% 80° NM CLAYSTONE 93-L-74 - Dark gray, massive with siltstone stringers 1 - 2 inches thick. SHALE 92-L-74 MUDSTONE, SILTSTONE, AND CONGLOMERATIC SANDSTONE - Sands fine to coarsegrained, some pebble conglomerate, some detrital coal. 90-L-74-Nonmarine 91-L-74-89-L-74. CLAYSTONE, MUDSTONE - With local coal and coaly zones; local gray, 86-L-74 fossiliferous shale. 88-L-74. 86-L-74 SANDSTONE AND CLAYSTONE - With some coaly and pebble conglomerate zones, 126 estimate 60% sandstone and conglomerate; sandstones are 2 to 20 feet thick, weather light gray to gray-green, medium to very coarse grained, poorly sorted locally, reeds and carbonaceous debris common; conglomeratic, bright coals, festoon crossbeds. Nonmarine stream deposits and flood plain-swamp deposits.

> SCALE 0 0 100 10m 5Cft. 25m 100ft

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