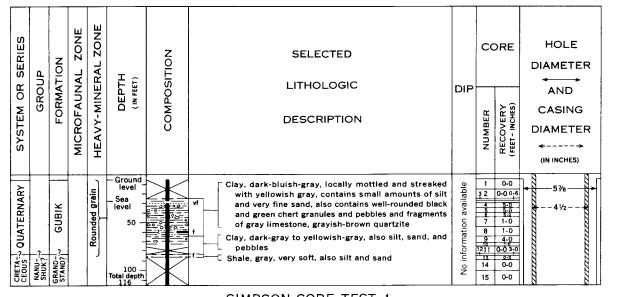
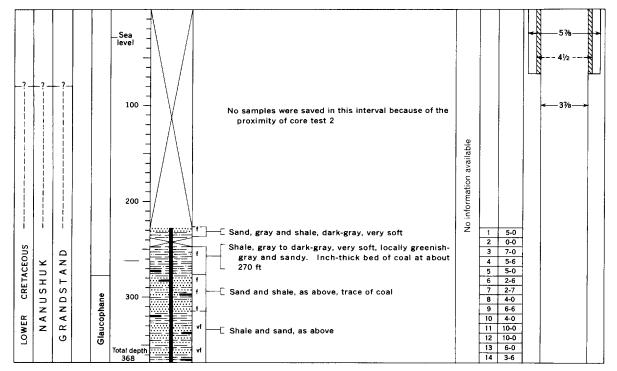
UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY



SIMPSON CORE TEST 1

LOWER CRETACEOUS OUATERNARY NANUSHUK GRANDSTAND Glaucophane	Tround level Sea Clay, slate gray, mottled and streaked with yellowish-gray, tough and plastic, very slightly sandy and slitty; contains small rounded dark chert pebbles, coal fragments, and shell fragments Clay, dark slate gray to gray, mixed with yellowish-gray; a little silt and sand, numerous small coal fragments Clay, dark slate gray to gray, mixed with yellowish-gray; a little silt and sand, numerous small coal fragments Clay, dark slate gray to gray, mixed with yellowish-gray; a little silt and sand, numerous small coal fragments Clay, dark slate gray to gray, mixed with yellowish-gray; a little silt and sand, numerous small coal fragments Clay, dark slate gray to gray, mixed with yellowish-gray; a little silt and sand, numerous small coal fragments Clay, dark slate gray to gray, mixed with yellowish-gray; a little silt and sand, numerous small coal fragments Clay, dark slate gray to gray, mixed with yellowish-gray; a little silt and sand, numerous small coal fragments Clay, dark slate gray to gray, mixed with yellowish-gray; a little silt and sand, numerous small coal fragments Clay, dark slate gray to gray, mixed with yellowish-gray; a little silt and sand, numerous small coal fragments Sand, gray to greenish-gray, argillaceous, silty; most grains angular; streaks of dark-gray clay Clay, dark slate gray to gray, mixed with yellowish-gray is little silt and sand, numerous small coal fragments Sand, greenish-gray, finely laminated to massive; a few beds of bluish-gray clay, some thin layers of silt few beds of bluish-gray clay, some thin layers of silt few beds of bluish-gray clay, some thin layers of silt few beds of bluish-gray clay, some thin layers of silt few beds of bluish-gray clay, some thin layers of silt few beds of bluish-gray clay, some thin layers of silt few beds of bluish-gray clay, some thin layers of silt few beds of bluish-gray clay, some thin layers of silt few beds of bluish-gray clay.	9 5-0 10 5-0
--	--	---

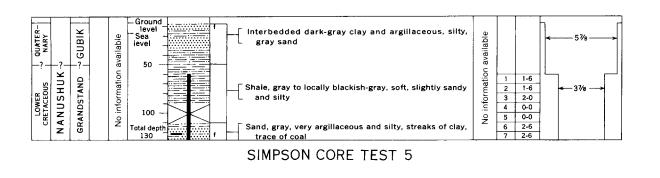
SIMPSON CORE TEST 2



SIMPSON CORE TEST 3

QUATERNARY	Ground level value of the sea of	Sand, grayish-brown, very argillaceous and silty, angular grains; locally contains streaks of dark bluegray fossiliferous clay Clay or shale, yellowish-gray, contains gravel made up of small, rounded chert pebbles	nation available	57/8 ————————————————————————————————————
CRETACEOUS NANUSHUK GRANDSTAND Verneuiinoides barealis	Total depth	Shale, gray-brown, gray to dark-gray, soft, slightly silty and sandy, rare streaks of coal. A foot-thick bed of argillaceous coal at about 115 ft. Also a few thin beds of gray argillaceous sand. Buff clay ironstone present	No informa	3 3-6 4 2-0 5 1-6 6 10-0 7 3-0 8 6-0 9 2-0

SIMPSON CORE TEST 4



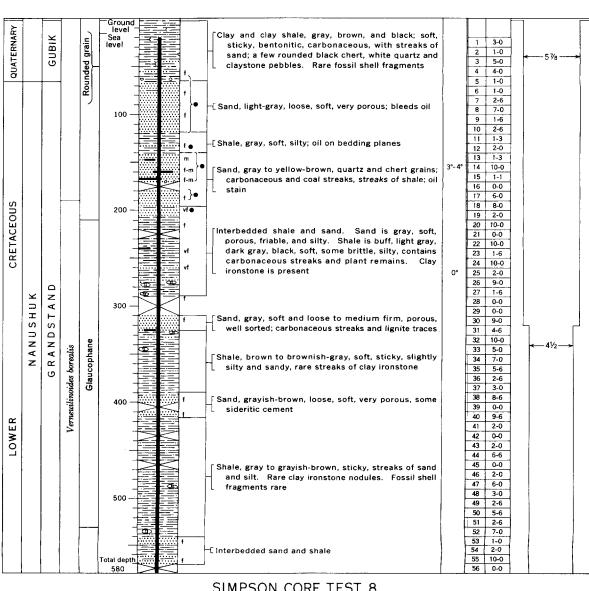
QUATERNARY		GUBIK	Rounded grain	Groun level Sea level	d	Sand, brownish-gray to grayish-brown, soft, grains angular to rounded, argillaceous, silty, rare streaks of dark shale. Rounded gravel in the lowest part of the interval	ion available	1 2 3 4 5	8-0 1-0 2-0 8-0 0-6	-	— 5 % —————————————————————————————————	*
R	HUK	TAND	ophane	100	•	Shale, bluish to yellowish, soft, massive; a few thin beds of sand	informatio	7 8 9	1-0 3-0 2-0			
LOWER	NANUSHUK	GRANDS	Glaucop	Total dep	_0000	──E Sand, brown (oil-stained), soft ——E Shale, dark gray-brown	Š	10 11 12	2-0 2-0 2-0			
<u> </u>		Ū	9]	149		SIMPSON CORE TEST 6		13	1-0			

HOLE CORE SELECTED DIAMETER LITHOLOGIC DESCRIPTION (IN INCHES) Clay, brownish-gray to gray, soft, slightly bentonitic and carbonaceous, fossiliferous. Also some sand, gray to brown, soft and unconsolidated, argillaceous Shale, dark-gray to medium-gray, bentonitic, a thin bed of sand; clay ironstone, coal fragments, and Sand, gray, loose, porous, medium well sorted to well-Sand, light-gray, uncemented, porous, medium well sorted to well-sorted; contains hard, dense, yellowishbrown to brownish-gray clay ironstone concretions Shale, medium-gray to dark-gray, friable, brittle, Sand, gray, soft, porous, well-sorted Shale, dark-gray Dolomitic limestone, crystalline, massive, fractured; fracture planes coated with fault gouge Thin carbonaceous and coaly streaks; plant remains Sand, gray, soft, very porous, with rounded to subangular quartz grains; also muscovite flakes, car-Shale, brownish-gray, soft, friable; streaks of silt and

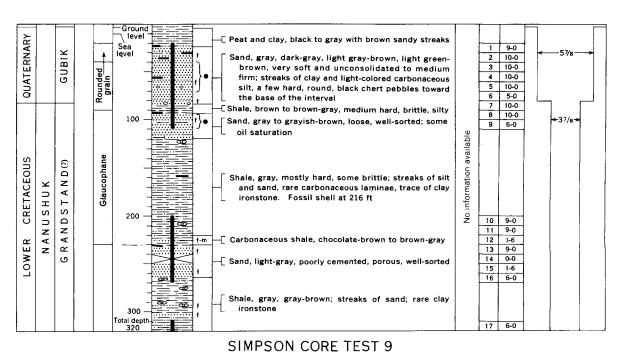
SIMPSON CORE TEST 7

Thin interbeds of sand and shale

Sand, gray, soft and uncemented to hard and calcar-



SIMPSON CORE TEST 8



CORE SELECTED LITHOLOGIC DESCRIPTION (MILLIVOLTS) (IN INCHES) Π<—57/8 —→ Ice, peat, and brown to reddish-brown clay Sand, gray to grayish brown, uncemented, well sorted, with round quartz and some chert grains; streaks of carbonaceous material; rounded pebbles of chert and ironstone at the very base of the interval Clay and clay shale, gray, sticky, bentonitic, soft; spots of yellow-brown oil on fracture surfaces Sand, gray to gray-brown, loose, porous, soft, argillaceous; streaks of clay and carbonaceous material. Shale, gray to brown, soft, sticky, streaks of sand and silt. Some chert and quartzite pebbles—probably contamination from above

Sand, gray, loose to medium firm, porous, well-sorted;

Shale, gray and grayish-brown, soft, sticky; rare silty and sandy streaks; dense, hard, brittle yellow-brown

Sand, gray and brown-gray, loose, porous; free light-

Shale, gray, dark-gray, gray-brown, sticky; silty and

Sand, brown to brown-gray, silty, slightly carbonaceous,

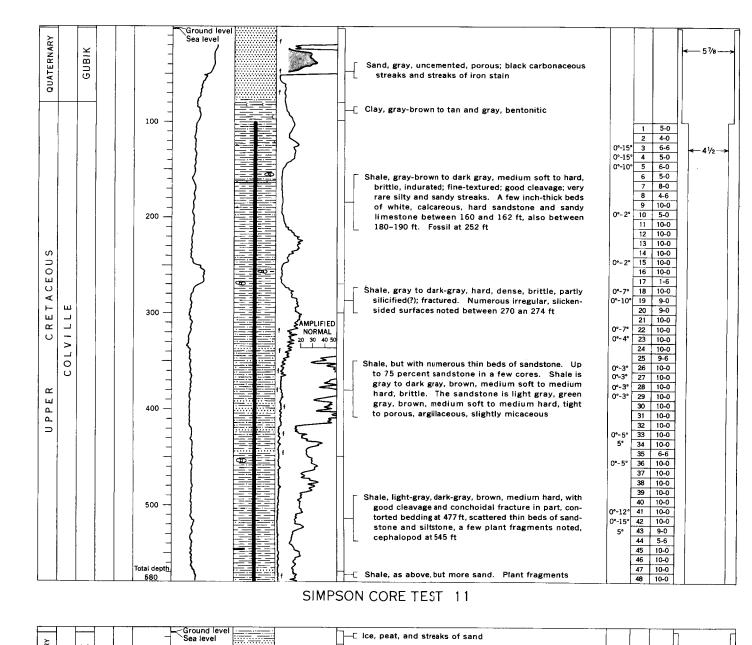
Shale, brown to blown-gray, friable; thin beds of silt and sand, slight oil film on fractures in shale

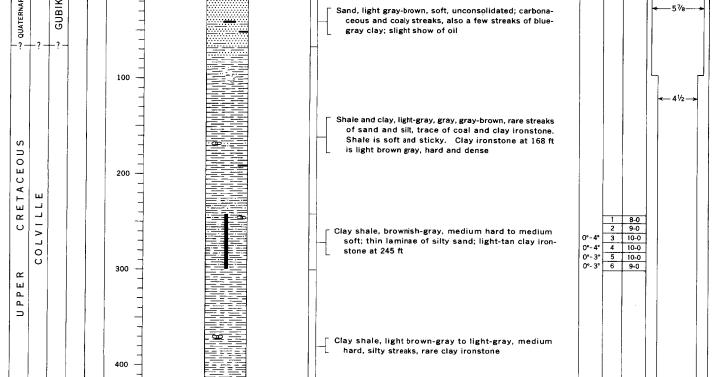
carbonaceous streaks; clay ironstone present

green oil in streaks, 6 in. of very hard sandstone at about 325 ft probably with sideritic cement.

streaks of carbonaceous shale

SIMPSON CORE TEST 10





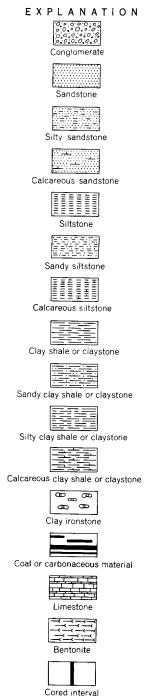
SIMPSON CORE TEST 12

Logged by Florence M. Robinson

J. S. Templeton, and G. O. Relf

TE OFFICE PROFESSIONAL PAPER 305-L U. S. GEGLUGICAL SURVEY ANCHORAGE, ALASKA

CORE TEST	LOCATION	ELEVATION	SPUDDED	COMPLETED	TOTAL DEPTH	STATUS	
1	Lat 70°55′42″N Long 155°17′22″W	Kelly bushing,27 feet Ground, 21 feet	June 25, 1945	June 29, 1945	116 feet	Dry and abandoned	
2	Lat 70°55′39″N Long 155°17′30″W	Kelly bushing,29 feet Ground,11 feet	June 30, 1945	July 2,1945	226 feet	Junked and abandoned	
3	Lat 70°55′38,5″N Long 155°17′30″W	Kelly bushing,29 feet	July 3,1945	July 7, 1945	368 feet	Junked and abandoned	
4	Lat 70°55′46″N Long 155°15′52″W	Kelly bushing,14 feet Ground,12 feet	July 8,1945	July 10, 1945	151 feet	Dry and abandoned	
5	Lat 70°56′17″N Long 155°16′45″W	Kelly bushing,17 feet Ground,11 feet	July 11, 1945	July 12, 1945	130 feet	Dry and abandoned	
6	Lat 70°55′58″N Long 155°18′53″W	Kelly bushing,26 feet Ground,20 feet	July 12, 1945	July 13,1945	149 feet	Dry and abandoned	
7	Lat 70°55′49″N Long 155°18′09″W	Kelly bushing,26 feet Ground,14 feet	July 15, 1945	July 25,1945	532 feet	Dry and abandoned	
8	Lat 70°56′43″N Long 155°17′38″W	Kelly bushing,16 feet Ground,14 feet	July 27,1945	August 3,1945	580 feet	Dry and abandoned	
9	Lat 70°57′27″N Long 155°17′31″W	Kelly bushing,11 feet Ground,8 feet	August 5,1945	August 7,1945	320 feet	Dry and abandoned	
10	Lat 70°57′43″N Long 155°17′32″W	Kelly bushing,11 feet Ground,7 feet	August 8,1945	August 15, 1945	500 feet	Dry and abandoned	
11	Lat 70°58′49″N Long 155°17′32″W	Kelly bushing,3 feet Ground,1 foot	August 17,1945	August 26, 1945	580 feet	Dry and abandoned	
12	Lat 70°58′19″N Long 155°17′30″W	Kelly bushing,6 feet Ground,1 foot	August 27,1945	August 29,1945	460 feet	Dry and abandoned	



Electrode spacing Drilling and engineering data compiled from records of Arctic Contractors Electric log by Schlumberger Well Survey-ing Corporation All depths are measured from the top of the kelly bushing

Colors were determined by comparison of dry samples with the National Research Council Rock Color Chart, 1948

Very fine grained Fine grained

Medium grained

Coarse grained