

CNH

Comisión Nacional
de Hidrocarburos

TECHNICAL NOTE

**NATIONAL CORE CENTER – CNIH
2024**



@CNH_MX



Comisión Nacional
de Hidrocarburos



Comisión Nacional
de Hidrocarburos



@cnh.mx

TECHNICAL NOTE

The new fee structure to be used for services provided at the two regional offices of the National Core Center (Hidalgo and Yucatán) includes fees differentiated based on the origin of the requested physical sample:

- When operators request a physical sample that they themselves have acquired and delivered to the National Core Center, only a Service Fee will be charged for activities described in numbers 7 to 19 listed in Table 2.
- When operators request a physical sample that they have not acquired, the Total Fee charged will be the sum of the Service Fee and the Usage Fee in Table 2.

The National Hydrocarbons Commission, through the Core Center of the National Hydrocarbons Information Center (CNIH), makes the following Third-Party Services available to interested parties:

Table 1. Costs authorized by the SHCP for the year 2024.

NO.	NAME OF THE PROCEDURE	UNIT OF MEASUREMENT	COST (MXN)
1	Dean-Stark	Plug	\$1,020.0820
2	Measurement of porosity, permeability, and density of the rock in a plug sample or a Sidewall core at ambient conditions and confining pressure	Plug sample or sidewall	\$7,876.0791
3	Capillary pressure test for an oil-water system by the porous plate technique at laboratory conditions	Plug	\$44,601.1225
4	Capillary pressure test for a gas-water system by the porous plate technique at laboratory conditions	Plug	\$44,601.1225
5	Capillary pressure test by centrifugal technique oil-water system (imbibition and drain) at laboratory conditions	Plug	\$152,918.1344
6	Magnetic resonance plug measurement at T2 measurements at 100% Sw and Swi, 100% s at ambient conditions and without confinement stress	Plug	\$27,015.9556
7	Wettability analysis by the Amott method to samples of plugs or Sidewall Core	Plug sample or sidewall	\$49,698.3937
8	Wettability analysis by the USBM method to plug samples or Sidewall Core	Plug sample or sidewall	\$54,031.9111
9	Capillary pressure test by the Mercury injection technique in a rock fragment	Fragment	\$12,157.2846
10	Analysis of relative permeability water-oil or gas-water or gas-oil at steady state and net confining pressure	Plug	\$152,280.9755

NO.	NAME OF THE PROCEDURE	UNIT OF MEASUREMENT	COST (MXN)
11	Analysis of relative permeability water-oil or gas-water or gas-oil in transitory state and net confining pressure.	Plug	\$59,255.7771
12	Rock-Fluid Compatibility Tests at ambient pressure conditions	Plug	\$21,026.2435
13	Critical Speed Assessment - Single Phase – Ambient Temperature	Plug	\$58,618.6182
14	Critical Speed Evaluation - Two Phase – Ambient Temperature	Plug	\$63,715.8893
15	Synthetic oil preparation up to 5 gallons	Per oil preparation	\$15,291.8134
16	Restoration and/or Aging of plug or Side Wall core	Plug or Sidewall Core	\$17,586.2132
17	Determination of electrical properties of Formation Factor (F.F.) and Resistivity Index (R.I.) in plug samples and/or wall cores at confining pressure	Per plug/per Sidewall Core/per sample	\$67,538.8427
18	Cation exchange by the Co-Cw technique at confining pressure	Plug	\$38,229.5336
19	Return permeability to oil or water (two-phase test) at ambient temperature	Plug	\$151,006.6577
20	Displacement studies with CO2 or N2, in plug (EOR)	Per concentration	\$387,647.8892
21	Displacement tests with Water alternated with Natural Gas (WAG) in plug	Injection	\$550,505.2838
22	Triaxial tests to determine static modules (Young's module, shear, Poisson's ratio) in plug samples	Plug	\$37,465.7799
23	Triaxial tests to determine the Mohr Coulomb envelope	Plug	\$56,580.5467
24	Determination of the pore volume compressibility coefficient in a plug sample under uniaxial deformation regime (PCVP)	Plug	\$93,470.8958
25	Determination of the Biot coefficient	Per service	\$129,980.4142
26	Thick Wall Cylinder (TWC) Hydrostatic Test	Plug	\$53,521.3470
27	Brazilian Test of the tensile strength of the hardness and rigidity of the rock	Per sample	\$14,017.4957
28	Compressibility of Porous Volume by hydrostatic PVC	Plug	\$64,226.4534
29	PVT Compositional Analysis for Black Oil with samples taken at bottom	Analysis	\$1,497,852.7956
30	PVT Compositional Analysis for Volatile Oil with samples taken on the surface or bottom	Analysis	\$1,191,424.3562
31	PVT Compositional Analysis for Gas and Condensate taken at surface	Analysis	\$1,015,764.1481
32	Gas composition C1 to C11+ by the chromatography technique, from Methane to C11+	Analysis	\$10,705.1064
33	Analysis of oils by the SARA method	Analysis	\$87,927.9273
34	API gravity determination	Per rock sample	\$3,211.9504
35	Routine water analysis (Stiff Analysis). including anions, cations, resistivity, pH, etc	Per water sample	\$22,937.7202
36	Composition analysis by Fluid Chromatography +C36	Per oil sample	\$32,113.2267
37	Analysis of biomarkers (GC-MS) in oil samples	Per oil sample	\$68,813.1605

NO.	NAME OF THE PROCEDURE	UNIT OF MEASUREMENT	COST (MXN)
38	Biomarker analysis results interpretation service	Per sample interpretation	\$35,983.2608
39	Spectral Gamma Ray service in full diameter and/or sectioned core, per meter	Per meter	\$2,509.9248
40	CT scanner tomography of rock fragment, axial section	Per shot	\$1,032.6368
41	Full diameter 360° circumferential core image of uncut core	Per meter	\$6,754.5120
42	Megascopic lithological description, per sample	Per each rock sample	\$1,274.3178
43	X-ray diffraction (XRD) analysis, includes Total and clay fraction, service per sample	Per each rock sample	\$12,106.0190
44	X-ray fluorescence (XRF) spectroscopy, per rock fragment	Per each rock fragment	\$7,271.3535
45	Scanning Electron Microscope (SEM) plus Energy Dispersive Spectroscopy (EDS) analysis, per sample	Per each rock fragment	\$10,577.4654
46	Analysis by Scanning Electron Microscope (SEM)	Per each rock fragment	\$6,754.5120
47	PartSizsm Granulometric Laser Sieve Sieve Analysis (LPSA) PartSizsm	Per each sample	\$2,294.3998
48	Biostratigraphic Analysis by Micropaleontology of planktonic and benthic Foraminifera from the Tertiary and Mesozoic	Per each rock sample	\$6,371.5889
49	Petrographic description and basic diagenesis	Per each sample or sheet	\$12,616.5831
50	Sedimentary and paleoenvironmental description of the core	Per each meter	\$5,734.4300
51	Analysis by fluorescence microscopy	Per each sample or sheet	\$9,175.5066
52	Biostratigraphic analysis of calcareous nanoplankton	Per each sample or sheet	\$3,211.9504
53	Biostratigraphic analysis of palynology	Per each sample or sheet	\$7,901.1888
54	Sample evaluation specialist service	Per day	\$26,699.9917
55	Request for sample	Per well	\$1,951.2337
56	Request for inventory records, for each request	Per request	\$644.4826
57	Request to determine the weight of drilling cuttings in grams, for each interval	Per interval	\$9.4161

Table 2. Fees authorized by the SHCP for the year 2024

No.	Name of the procedure	Unit of measurement	Cost (MXN)		
			Usage Fee	Service Fee	Total Fee
1	Use of roller table	Table/Day	\$2,238.0561		\$2,238.0561
2	Use of query module	Module/Day	\$994.6916		\$994.6916
3	Use of stereoscopic microscope inside the consultation module	Day	\$870.3551		\$870.3551

No.	Name of the procedure	Unit of measurement	Cost (MXN)		
			Usage Fee	Service Fee	Total Fee
4	Use of petrographic microscope inside the consultation module	Day	\$1,740.7102		\$1,740.7102
5	Taking and sending photographs using a microscope	100 photos	\$1,243.3644		\$1,243.3644
6	Per use of multipurpose room	Day	\$2,486.7289		\$2,486.7289
7	Arrangement on site of core box on the roller table	Box	\$87.0354	\$74.6018	\$161.6372
8	Arrangement on site of thin section	Well	\$373.0094	\$248.6729	\$621.6823
9	Arrangement on site of channel samples	Box	\$236.2392	\$87.0354	\$323.2746
10	Arrangement on site of plugs// core pad	Well	\$808.1868	\$248.6729	\$1,056.8597
11	Loan of existing plugs	Plug	\$124.3364	\$683.8505	\$808.1869
12	Loan of already-existing thin sections	Sheet	\$14.9205	\$19.8939	\$34.8144
13	Loan of channel samples of the Lithological type	Gram	\$24.8672	\$3.7301	\$28.5973
14	Loan of channel samples of the Geochemical type	Gram	\$24.8672	\$3.7301	\$28.5973
15	Loan of channel samples of the Paleontological type	Gram	\$24.8672	\$3.7301	\$28.5973
16	Cutting and loan of plug and pad of cores	Plug/pad	\$746.0187	\$1,554.2056	\$2,300.2243
17	Elaboration and loan of thin section	Thin section	\$18.6505	\$2,063.9850	\$2,082.6355
18	High resolution digital core image	Image / meter	\$746.0187	\$10,444.2615	\$11,190.2802
19	High resolution digital thin section image	Image / sheet	\$18.6505	\$10,195.5885	\$10,214.2390

For universities and research institutions with a Cooperation Agreement with the National Hydrocarbons Commission granting access to information in the National Hydrocarbons Information Center, use is exempt from payment when related to the use of equipment / facilities, provision of physical samples and loan of physical samples (activities listed from 1 to 15, Table 1), according to the established terms of cooperation, but fees do apply for the following activities:

- Cutting and loan of plug and core pad
- Production and loan of thin film
- Core high resolution digital imaging
- High resolution digital imaging of thin film

For the abovementioned specialized services, educational institutions with Cooperation Agreements must pay both the Usage Fee for the use of information, as well as the Service Fee for services provided by the National Core Center.

For the activities described in Table 1, concepts 1 to 6, related to the use of equipment / facilities, the Usage Fee will be charged to all users other than universities and research institutions with a cooperation agreement with the National Hydrocarbons Commission.

In relation to the use associated with the Third-Party Services (Table no.1), the fee will be charged generally to all Users.

One of the strategic objectives of the National Hydrocarbons Commission is to encourage the study of the Mexican subsoil. With this objective in mind, the fees described above were set with the intention of maximizing the use of the information contained in the National Core Center and promoting the responsible use of national data.