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ISTANZA "d24.GR-NP"
(Canale di Sicilia)

MONTAGGIO GEOLOGICO E MINERARIO

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Allegato 1

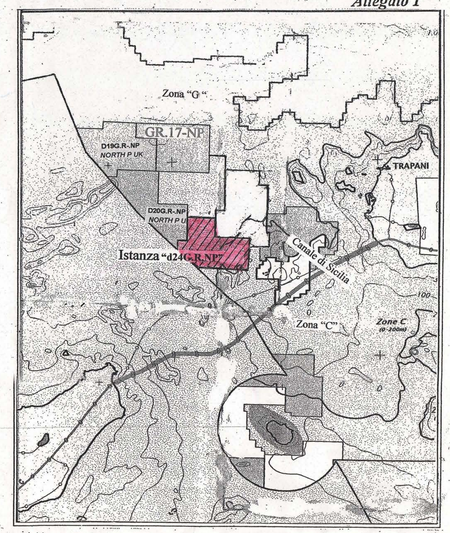


FIG.1 LEAD X SULLA LINEA SISMICA G 82 70

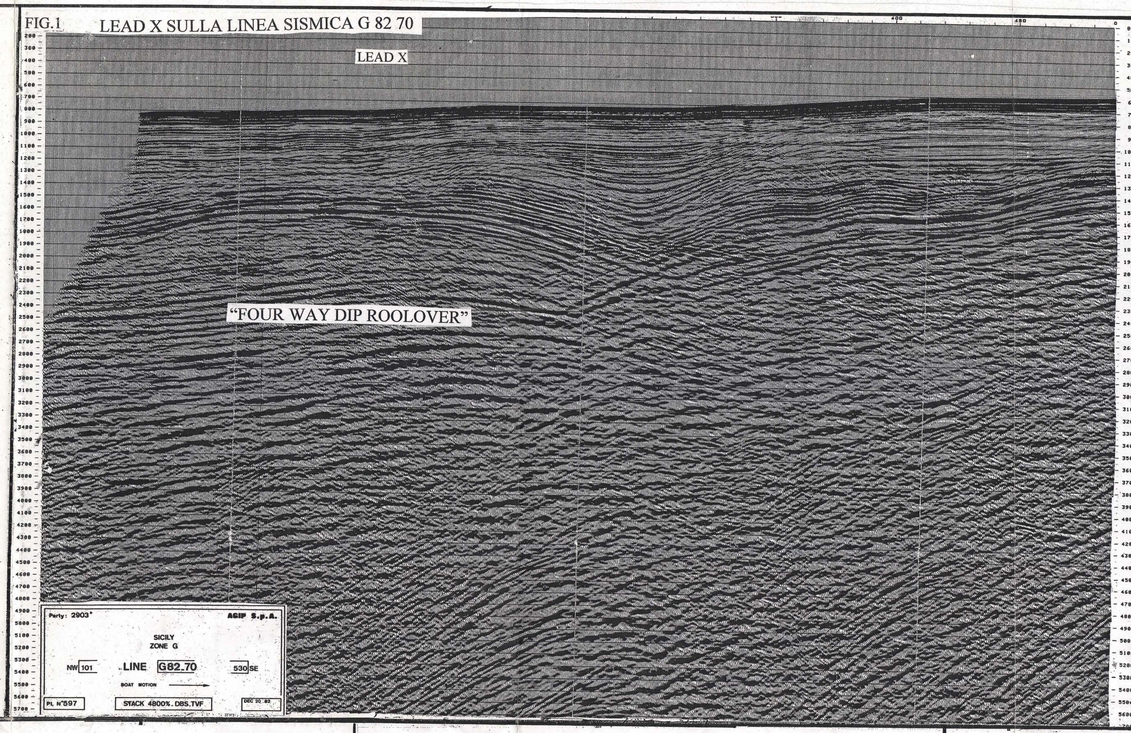
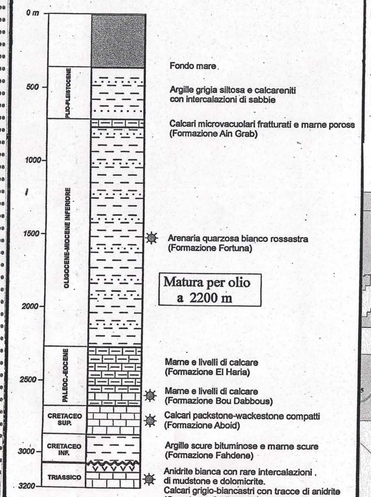


FIG.2 PROFILO LITOSTRATIGRAFICO DEL SOTTOSUOLO



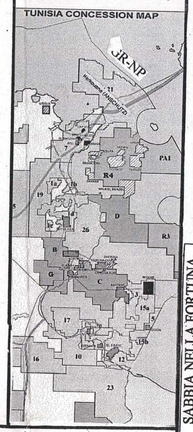


FIG.3 CORRELAZIONE DEI POZZI VENTURA-NILDE-NORA

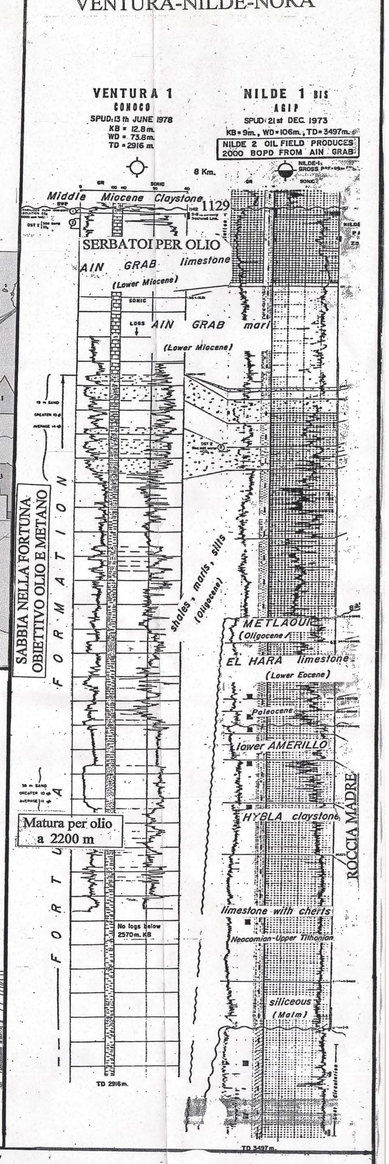


FIG.9 GRIGLIA SISMICA PUBBLICA NELL'AREA DELLA ZONA

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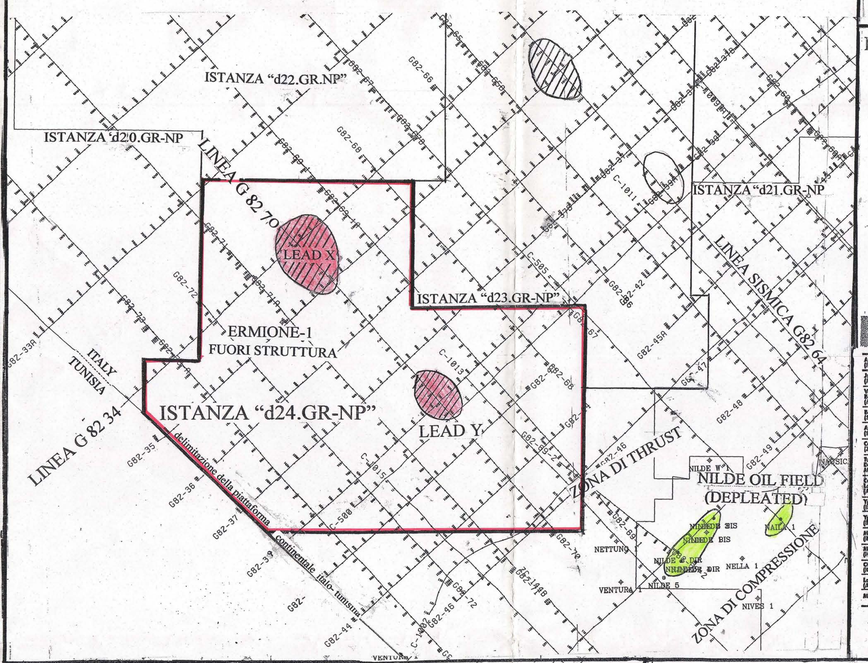


FIG 4A ROCCIA MADRE REGIONALE

SOURCE ROCK

Age/Formation	Lithology	TOC %	Maturation level	Petroleum Potential Kg HC/Ton Rock	Thickness (m)	Kerogen type
Lower Eocene Bou Dabbous	Dark brown marls and mudstones	Up to 4.4	Immature to mature gas to condensate window	0.5 - 35,3	50 - 300	Widely distributed type II
Upper Cenomanian Lower Turonian Bahloul	Thin lamination black argillaceous limestones	1.5 - 3	Immature to mature gas window	6 - 13	10 - 80	Type II
Cenomanian Zebbag	Thin black shale intercalation	0.5 - 2.3	Mature oil window	1 - 92	20 - 30	Type II / III
Albian Lower Fahdene	Pelagic, dark marls and laminated interbedded limestone	0.5 - 2	Mature Oil/gas window	0,3 - 10	100 -200	Widely distributed type II
Callovian Khachem El Milt	Shaly limestones	Up to 1.7	Oil/gas window	3 - 12	20 -100	Type II
Toarcian Middle Nara	Dark shaly limestones & marls	Up to 1.3	Oil window	1.5 - 39.5	50	Type II
Triassic Rheouia	Black and dark grey limestones	0.5 - 3	-	1 - 7	20	Type II & III

RESERVOIR & SEAL

AGE (FORMATION)	COMPOSITION	POROSITY (%)	PERMEABILITY (mdarcy)	AVERAGE Thickness(m)	TEST	SEAL
Jurassic (M'rhaliina)	Sandstone carbonates	6 - 14	Low	450	Oil / Ezzaouia	Neocomian M'charga shales
Valanginian (M'charga)	Sandstone	5 - 16	0 - 45		Gas / Cap-Bon	Neocomian alternation shales
Barremian (Ain Grab)	Sandstone	10 - 20	Good	20 - 250	Oil shows	
Aptian (Serdj/Orbata)	Dolimite, bioclastic limestone	5 - 14	0,1 - 1,5	100 - 600	Oil	Cenomanian Fahdene shales
Cenomanian (Zebbag/Isis)	Oolitic limestone, Rudist limestone	5 - 16	10 - 200	20 - 100	Oil-Gas / Ezzaouia / El Biban / Isis / Meaia	Senonian Aleg shales
Turonian (Douleb/Birana (Nizar)	Bioclastic limestone	5 - 27	120	15 - 120	Gas / Miskar / Oil / Jawhara	Senonian Aleg shales
Campanian (Lower Maastrichtian (Aleg)	Fractured & chalky limestone	5 - 20	Low	30	Gas Cap/Ezzaouia / Miskar Oil / Abouzaa	Paleocene El Haria shales
Turonian (Douleb)	Nummulitic-Bioclastic limestone	11 - 16 (Max 25/Ain)	100 - 700	80	Oil / Gas / Ashtart/ Bibon / Hasdrubal	Middle Eocene Souar shales
Turonian (Sao Dahdouss)	Fractured Globigerinids rich limestone	5 - 15	1 -10	100	Oil / Bolli	Middle Eocene Souar shales
Mid-Eocene (Salmeche)	Nummulitic limestone	3 - 20	10	15	Oil / Cercina Gas / Chergui	Middle Eocene Souar shales
Middle-Upper Eocene (Sidi El Kilani)	Fractured bioclastic limestone	25	700	120		Middle Miocene shales
Oligocene-Miocene (Metlaoui)	Fractured limestones	15 - 20	Good	300	Oil / Hole El Menzel	Middle Miocene Mahmoud shales
Lowshtan (Ain Grab)	Bioclastic limestones	10 - 22	0,2 - 100	40	Oil / Mazmouna	Middle Miocene Mahmoud shales
Middle Miocene	Sandstone	Up to 33	10 - 200	Up to 300	Oil / Sirec / Zeitz	Serravallian Oum Douil shales

FIG. 4B SERBATOIO REGIONALE

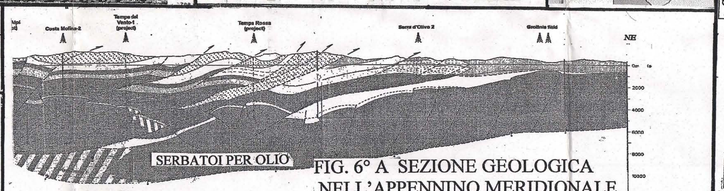


FIG. 6° A SEZIONE GEOLOGICA NELL'APPENNINO MERIDIONALE

FIG 6 B SEZIONE GEOLOGICA NEL CANALE DI SICILIA (ZONA DELLA ISTANZA)

FIG.7 CORRELAZIONI DEI POZZI DEL GOLFO DI TUNISIA

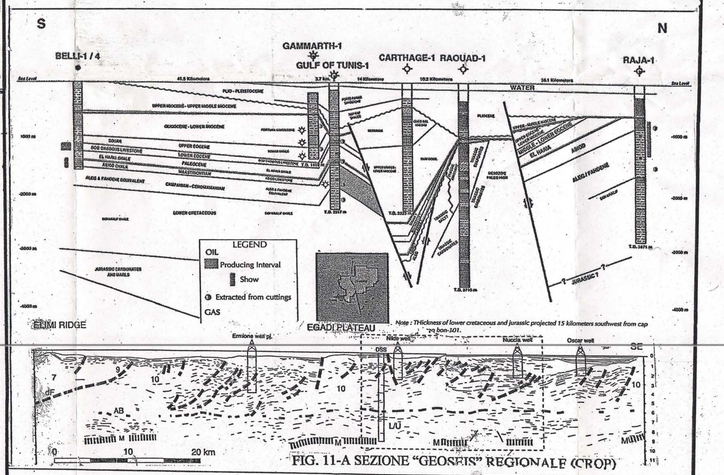


FIG. 11-A SEZIONE "GEOSEIS" REGIONALE (CROP)

FIG.5 POZZO ERMIONE-1

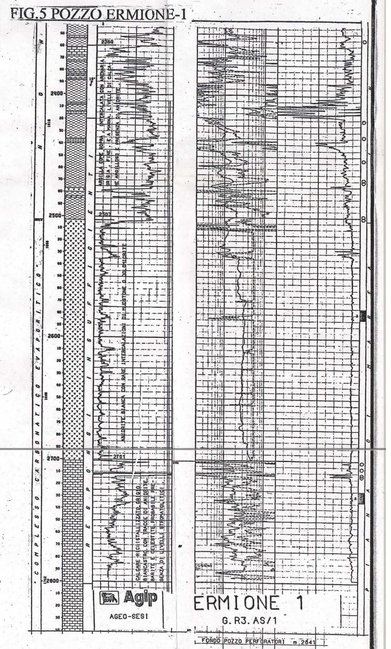
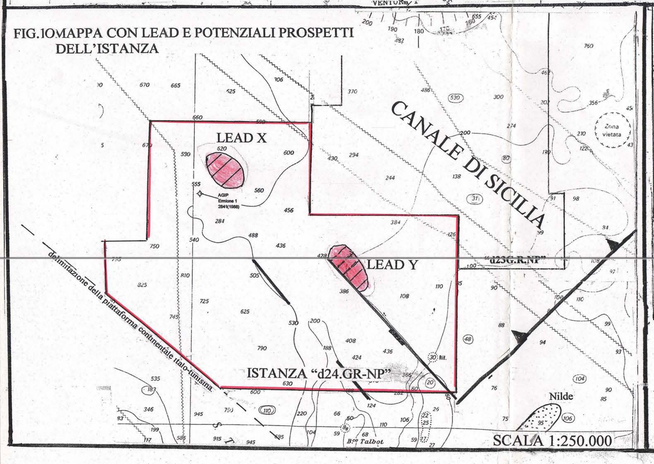


FIG.10MAPPA CON LEAD E POTENZIALI PROSPETTI DELL'ISTANZA



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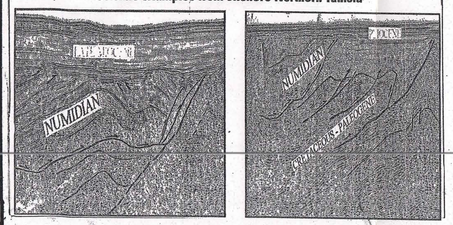
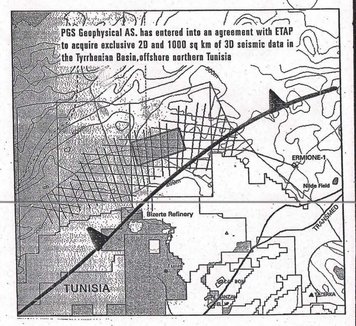
Offshore Northern Tunisia MC2D & MC3D

Seismic examples from offshore Northern Tunisia



GEOSEIS NELL'OFFSHORE NORD TUNISIA

FIG. 8 NUOVA CAMPAGNA SEISMIC DELLA PGS IN TUNISIA



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