

GENERAL INFORMATION MAP STRATIGRAPHY - TECTONICS

SCALE 1:100,000

LEGEND

- QUATERNARY PLAINS (CATANIA GRABEN, VITTORIA GRABEN, LENTINI, AUGUSTA, MAGNISI) AND SYRACUSE QUATERNARY DEPRESSIONS.
- RECENT LAVA FLOWS (ETNA)
- MIOCENE TO CALABRIAN VOLCANICS (IBLEAN VOLCANITES)
- SYRACUSE PLATEAU
- RAGUSA PLATEAU
- MINEO ZONE: LOWER PLOCENE MARLS, UPPER MIOCENE EVAPORITES, MIDDLE-LOWER MIOCENE SHALES AND LMSTS.
- ANTICLINAL OR SINCLINAL AXIS: VERY GENTLE FOLDING AND POSTMIOCENE TECTONIC TRENDS.
- FAULTS
- QUATERNARY TO PLOCENE AND MIOCENE OLIGOSTROMES
- GEOLOGIC CROSS SECTIONS 1, 2.
- OIL FIELD
- GAS FIELD
- GAS SHOWS
- OIL SHOWS
- DRY HOLE
- PROGRAMMED SEISMIC LINES

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CATANIA PLAIN
FAULT TROUGH AREA NE-SW TO NNE-SSW AND NW-SE TO NNW-SSE NORMAL FAULT SYSTEMS DOWNDROPPED BLOCKS TO NW AND TO SW, OR TO NE AND TO E ON THE EASTERN SIDE.
-QUATERNARY SHALES AND SANDS, 1500 mts THICK IN RIZZO AND CATANIA EAST TROUGH AREAS; UPPER QUATERNARY OLIGOSTROME.
-PLIOCENE SHALES AND SANDSTONES, LAVA SHEETS AND TUFFS.
-LOCALLY UPPER MIOCENE EVAPORITES AND SHALES.
-MIDDLE MIOCENE SHALES AND SANDS, VOLCANICS
-MIDDLE JURASSIC-LIASSIC LMSTS AND DOLOMITIC LMSTS: MELILLI FMT. EQUIV.
-GAS PRODUCTION IN QUATERNARY SANDS (CISINA, RIZZO, CATANIA GAS FIELDS).
-GAS SHOWS IN UPPER-MIDDLE MIOCENE SANDS.

RECENT LAVA FLOWS (ETNA VOLCANICS) ON SHALY AND SANDY QUATERNARY OF CATANIA PLAIN.

S. DEMETRIO 1, M.I.S.O. (T.D. 15475 mts.)
200 mts. LOWER QUATERNARY BASALT & TUFFS, ORGANOGENIC CALABRIAN LMSTS
139 .. ORGANOGENIC LOWER MIOCENE-OLIGOCENE CALCARENITES
200 .. MIDDLE UPPER EOCENE ORGANOGENIC LMSTS & MARLS
220 .. MIDDLE LOWER CRETACEOUS WHITE CHERTY LMSTS & MARLY LMSTS
230 .. UPPER MIDDLE JURASSIC (DOGGER-MALM) MARLY LMSTS & SHALES, TUFFS AND INTRUSIVE (GABBRO).
560 .. LIASSIC LMSTS & DOLOMITIC LMSTS: BIOSTROMA (MELILLI FMT) OIL (BITUMINOUS) SHOWS

MELILLI 1 ARPE (T.D. 2641 mts.)
7 125 mts MIDDLE LOWER MIOCENE CALCARENITES.
.. 275 .. LOWER MIOCENE-AQUITANIAN CALCARENITES
.. 125 .. OLIGOCENE ORGANOGENIC CALCARENITES
.. 206 .. DETRITAL ORGANOGENIC MIDDLE UPPER LMSTS
.. 310 .. UPPER CRETACEOUS DETRITAL ORGANOGENIC LMSTS
.. 140 .. CRETACEOUS VOLCANITES
.. 160 .. LOWER CRETACEOUS MARLY LMSTS AND GREENISH THIMBEDDED MARLS
.. 1300 .. TITHONIAN-DOGGER-LIASSIC LMSTS & DOLOMITIC LMSTS (BIOSTROMA OR MELILLI FMT) OIL (BITUMINOUS) SHOWS

SYRACUSE PLATEAU
HORST AND GRABEN, NE-SW TO NW-SE FAULT SYSTEMS VERY GENTLY FOLDING NW-SE TO N-S & NE-SW.
SYRACUSAN SERIES:
-TRANSGRESSIVE LOWER QUATERNARY (CALABRIAN-SICILIAN) ORGANOGENIC CALCARENITES, SANDY SHALES AND CLAYS.
-TRANSGRESSIVE LOWER PLOCENE CHALKY LMSTS
-PLEISTOCENE TO MIDDLE MIOCENE BASALT SHEETS
-MIDDLE LOWER MIOCENE CALCARENITES AND LMSTS (256 mts to 600 mts.)
-AQUITANIAN CALCARENITES-OLIGOCENE TO MIDDLE UPPER EOCENE CHERTY CALCARENITES AND MARLY LMSTS (RAGUSA FMT. EQUIV. TO 496 mts.)
-MIDDLE UPPER EOCENE CHERTY LMSTS AND MIDDLE UPPER CRETACEOUS CHERTY LMSTS (AMERILLO FMT) PASSING TO NUMMULITIC CALCARENITES.
-PALEOCENE LMSTS AND DETRITAL ORGANOGENIC LMSTS (COASTAL FACIES) (216 mts - few mts.)
-LOWER CRETACEOUS MARLY LMSTS (HYBLA FMT, 144-0 mts.)
-NEOCOMIAN AND UPPER CRETACEOUS BASALTS AND TUFFS.
-UPPER JURASSIC-LIASSIC REEFDOL AND DOLOMITIC LMSTS (BIOSTROMA, MELILLI FMT. MORE THAN 1960 mts.)
-IMPORTANT HETEROGENEOUS UPPER TRIASSIC LIASSIC, FACIES CHANGE JURASSIC RAGUSAN FMTS TO MELILLI FMT.
-OIL (BITUMINOUS) SHOWS INTO MELILLI FMT.

RAGUSA PLATEAU
HORST AND GRABEN NNE-SSW, VERY GENTLE FOLDING NNE-SSW TO NNW-SSE.
RAGUSAN SERIES:
-MIDDLE LOWER MIOCENE MARLS (TELLARO FMT. 170 mts.)
-LOWER MIOCENE CALCARENITES-OLIGOCENE TO MIDDLE AND UPPER EOCENE CALCARENITES AND CHERTY LMSTS (RAGUSA FMT. 530 mts.)
-MIDDLE UPPER CRETACEOUS CHERTY LMSTS (AMERILLO FMT. 0-325 mts.)
-LOWER CRETACEOUS MARLS AND MARLY LMSTS (HYBLA FMT. TO 283 mts.)
-UPPER JURASSIC (TITHONIAN) TO LOWER CRETACEOUS CHERTY LMSTS (TO 360 mts.)
-MIDDLE JURASSIC CHERTY LMSTS REDDISH MARLY LMSTS, INTRUSIVE ROCKS, BASALTIC SHEETS AND TUFFS. (TO 643 mts.)
-LIASSIC LMSTS AND MARLS (VILLAGONIA FMT. TO 398 mts.)
-BLACK SHALES (STREPPENOSA FMT. TO 548 mts.)
-UPPER TRIASSIC DOLOMITES (TAORMINA FMT. NOT PENETRATED, MORE THAN 3000 mts.)
-OIL PRODUCTION IN TRIASSIC DOLOMITES, CAPROCK BLACK SHALES (RAGUSA OIL FIELD), OIL SHOWS ALONG ALL THE STRATIGRAPHIC COLUMN.

VITTORIA PLAIN
FAULT TROUGH AREA COMISO FAULT SYSTEM NE-SW DOWNDROPPED BLOCKS TO NW, INTERFERED BY NW-SE FAULT SYSTEM THROW TO SW OR W.
-STRATIGRAPHIC SERIES BELOW QUATERNARY COVER IS THE SAME OF RAGUSA PLATEAU, FROM OLIGOCENE RAGUSA FMT. TO UPPER TRIASSIC TAORMINA DOLOMITES.
-TOWARDS NORTH ALSO MIDDLE MIOCENE SHALES AND CALCARENITES, UPPER MIOCENE EVAPORITES LOWER PLOCENE MARLS AND BASALT SHEETS

