CONOCO

CONOCO IDROCARBURI SPA

NORSK HYDRO ITALIA SpA
HISPANOIL ITALIA SpA

WELL: VALLO-1

COMPOSITE WELL LOG

4638 BN

ARCHIVIO
CEDI

LOCATION : E/PROF 01

Latitude : 37° 32' 06.63" N

Longitude : 12° 13' 38.51" E

ELEVATIONS :

K B Mean Sea Level : 23.8m.

K B Sea Floor : 91.8m.

Water Depth : 68.0m.

Total Depth : 2748.0m.

EHIU 1044565

Country : ITALY

Area : SICILY CHANNEL

Licence : BLOCK CR83-ZONE C

Field : VALLO - 1

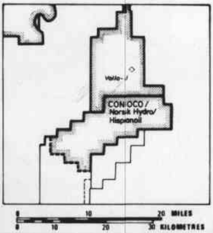
Date Spudded : 15th May 1982

T D Date : 15th June 1982

Date Completed : 19th June 1982

Completion Status : Plugged and abandoned dry hole.

LOCATION PLAT **1:500,000**



CONOCO GEOLOGISTS

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MUDLOG SERVICE

EXPLORATION LOGGING

DRILLING CONTRACTORS & RIG

DIAMOND M./HUNTER

SCHLUMBERGER LOGS

TYPE	No	INTERVAL
ISF/SLS/GR	1	90 - 1766 m
DIL/SLS/GR	1	1739 - 2751 m
FDC/CNL/GR	1	1763 - 2751.4 m
LDT/GR	1	1800 - 2105 m 2400 - 2705 m
DLL/MSFL/GR	1	1763 - 2750 m
HDT	1	1763.1 - 2750.8 m
CST	1	1808 - 2745 m
VSP	1	110 - 2750 m 109 Stations

PLUG No	CEMENT	INTERVAL & PURPOSE
1	200 sx class 'G'	282.2 - 366 m (below retainer)
2	380 sx class 'G'	121.9 - 282.2 m (above retainer) for abandonment

MUD TYPE	INTERVAL
Sea Water - Gel	Spud - 1777 m
Fresh water - Lignosulfanate	1777 - 2748 m

BIT SIZE	INTERVAL
36"	Spud - 141 m
26"	141 - 582 m
17½"	582 - 1777 m
12¼"	1777 - 2748 m

CASING

SIZE	SHOE	TYPE & CEMENT
30"	140.2 m	4 jts 310 lbs/ft w. ATD threads, cmtd w. 850 sx 'G' + 0.75% CFR-2 + fresh water
20"	555.3 m	94 lbs/ft, vetco X-52 cmtd w. 1950 sx 'G' + 2.5% prehyd. gel in 500 bbl water + 0.75% CFR-2; tailed w. 800 sx 'G' + 1500 lbs prehyd $CACL_2$ w. 95 bbls water + 0.75% CFR-2
13⅜"	1763 m	72 lb/ft N-80 butt, cmtd w. 2900 sx 'G' + 10% gel + 0.4% HALAD-14, tailed w. 560 sx 'G' + 0.4% HALAD-14.

WELLSITE CORE DATA

CORE No	INTERVAL	CUT	REC.	REC.%
NO	CORES WERE CUT			

CORE DATA CORRECTED TO G.R. LOG

CORE No	INTERVAL	CUT	REC.	REC.%

AUTHORS: S.M.PERKINS

APPROVED:

DRAFTED: D.RYDER

DATE: NOV. 1982

REMARKS:

136.7m. on bearing 081.5° from intended location on SP406 line C-1006.

MAIN LITHOLOGICAL SYMBOLS

- SHALE CLAYSTONE CLAY MUDSTONE
- SILTSTONE SILT
- SANDSTONE SAND
- CONGLOMERATE LOOSE PEBBLES
- BRECCIA
- COAL LIGNITE ETC
- LIMESTONE (UNDIFFERENTIATED)
- DOLOMITIC LIMESTONE
- DOLOMITE
- CALCAREOUS DOLOMITE
- ANHYDRITE
- HALITE
- POLYHALITE
- CARNALLITE
- LANGBEINITE
- SYLVITE
- POTASSIUM SALTS (UNDIFFERENTIATED)
- SEDIMENTARY VOLCANICS (TUFFS, AGGLOMERATES, ETC)
- IGNEOUS ROCKS (LAVAS, SILLS, DYKES, PLUTONICS ETC)
- METAMORPHIC ROCKS

SECONDARY LITHOLOGICAL SYMBOLS

- ARGILLACEOUS
- ARENACEOUS
- RUDACEOUS
- CARBONACEOUS
- CALCAREOUS
- DOLOMITIC
- ANHYDRITIC
- CHERT
- GLAUCONITIC
- PYRITIC
- IRONSTONE
- MICACEOUS
- BITUMEN
- PELLETS
- OOLITHS

SYMBOLS FOR USE IN CARBONATE PROVINCES

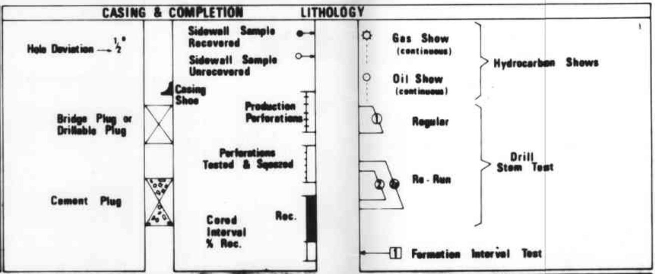
- MICRITIC LIMESTONE
- SPARITIC LIMESTONE
- LIME MUDSTONE
- WACKESTONE
- PACKSTONE
- GRAINSTONE
- BOUNDSTONE
- ONCOLITHS GRAPESTONES
- STROMATOLITHS
- LITHOCLASTS INTRACLASTS
- RECRYSTALLISED CARBONATES
  - MEDIUM
  - COARSE
  - FINE
  - SUCROSIC

FOSSIL SYMBOLS

- AMMONITES
- BELEMNITES
- BRACHIOPODS
- BRYOZOANS
- CORALS
- CRINOID STEMS
- ECHINOID SPINES
- FORAMINIFERA
- GASTROPODS
- MICROFOSSILS
- OSTRACODS
- PELECYPODS
- SHELL FRAGMENTS
- NO PALAEONTOLOGICAL AGE DETERMINATIONS

CASING & COMPLETION

LITHOLOGY



GEOLOGICAL AGE AND FORMATION

BIT & DEVIATION DATA
DRILLING RATE
Mins /
0 10 20

BITS / DEVIATIONS DATES

SPONTANEOUS POTENTIAL
MILLIVOLTS
- | 10 | +

GAMMA RAY
0 API UNITS 100

CORING & PERF INTERVALS

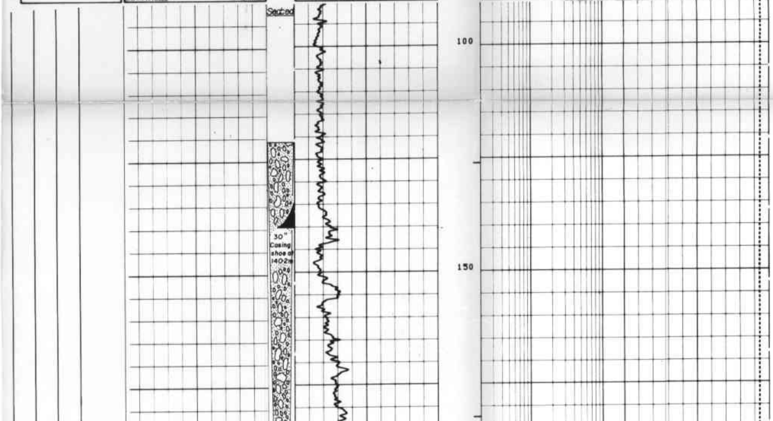
DEPTH SCALE 1:500

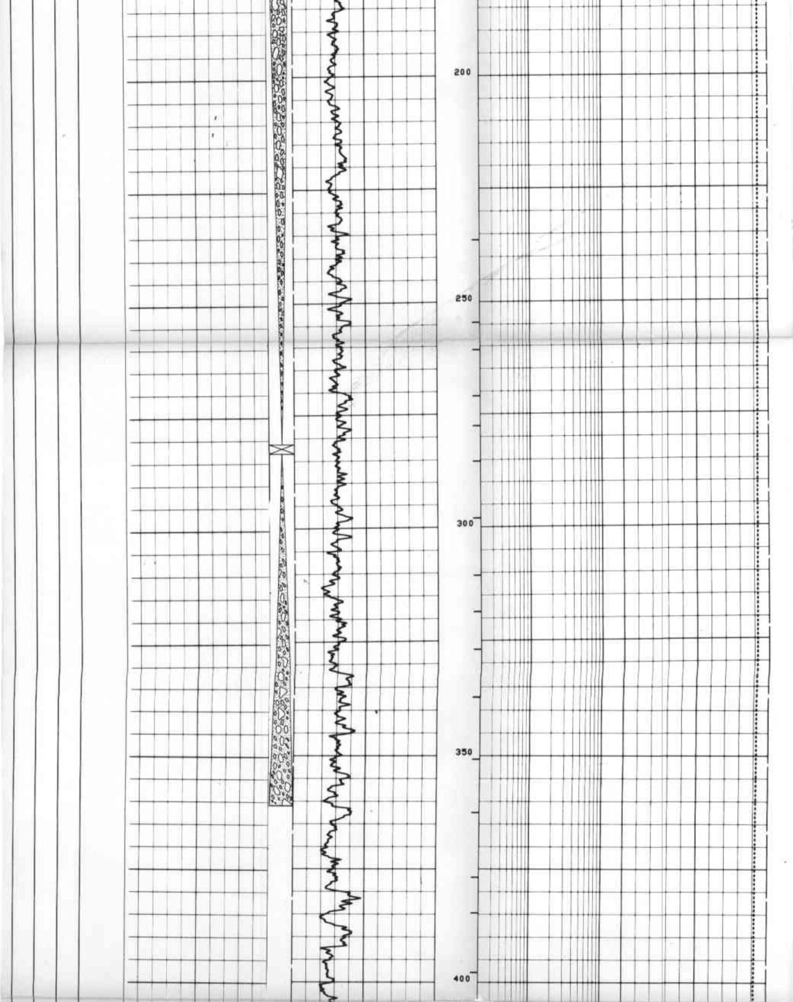
RESISTIVITY
OHMS m^2/m

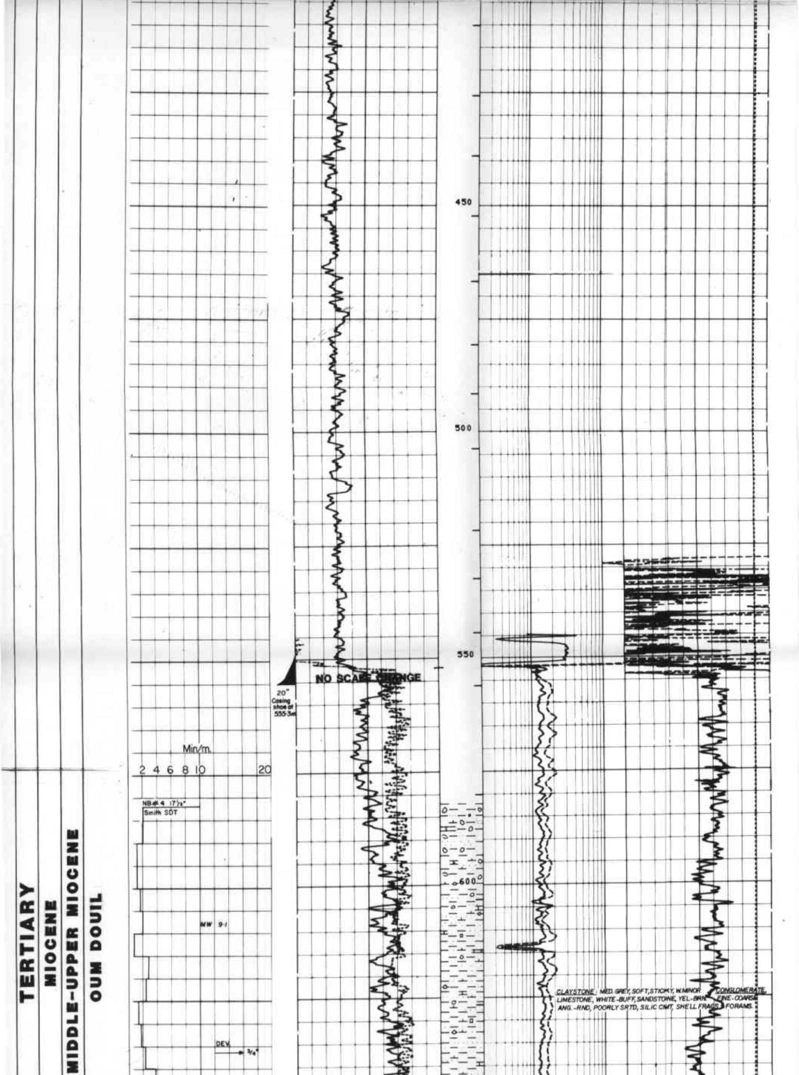
0.2 R_{ILD} 20
0.2 RILM 20
0.2 RSFL 20

LONG SPACED SONIC
INTERVAL TRANSIT TIME
MICROSECONDS PER FOOT
190 90

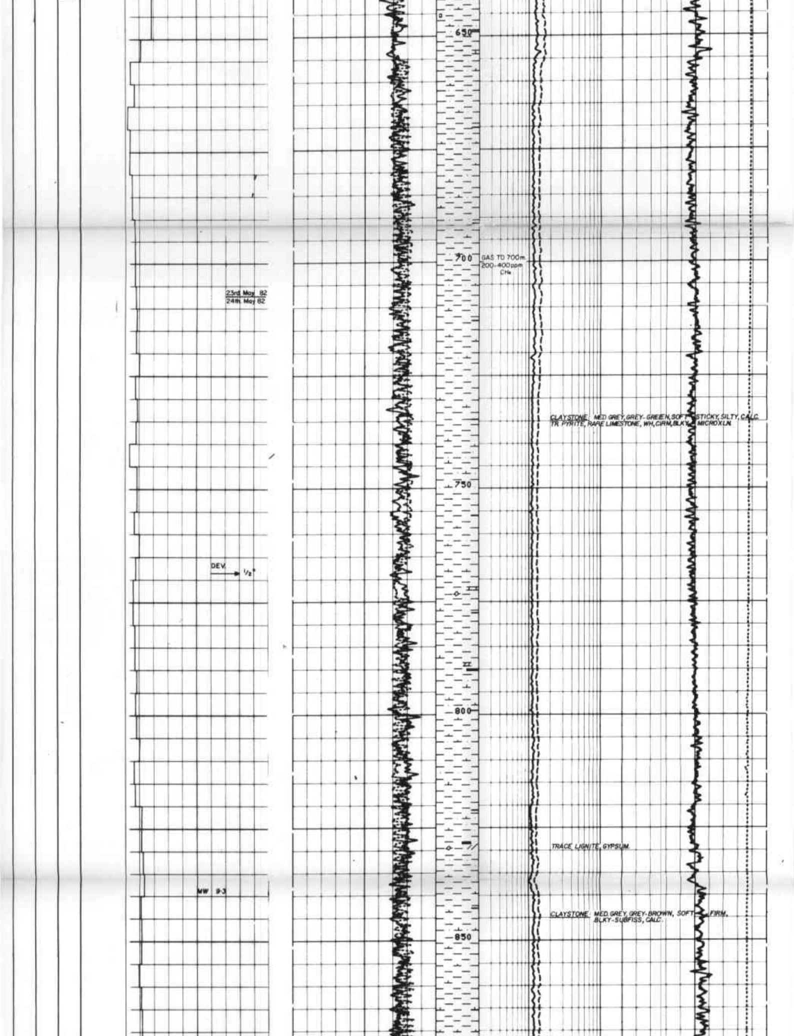
LITHOLOGICAL DESCRIPTION







CLAYSTONE: MED. GREY, SOFT, STICKY, W.MINOR LIMESTONE, WHITE-BUFF, SANDSTONE, YEL-BRN. CONGLOMERATE, FINE-COARSE, ANG.-RND, POORLY SRTD, SILIC CMT, SHELL FRAGS & FORAMS.



GAS TO 700m.
200-400ppm
CH₄

23rd. May 82
24th. May 82

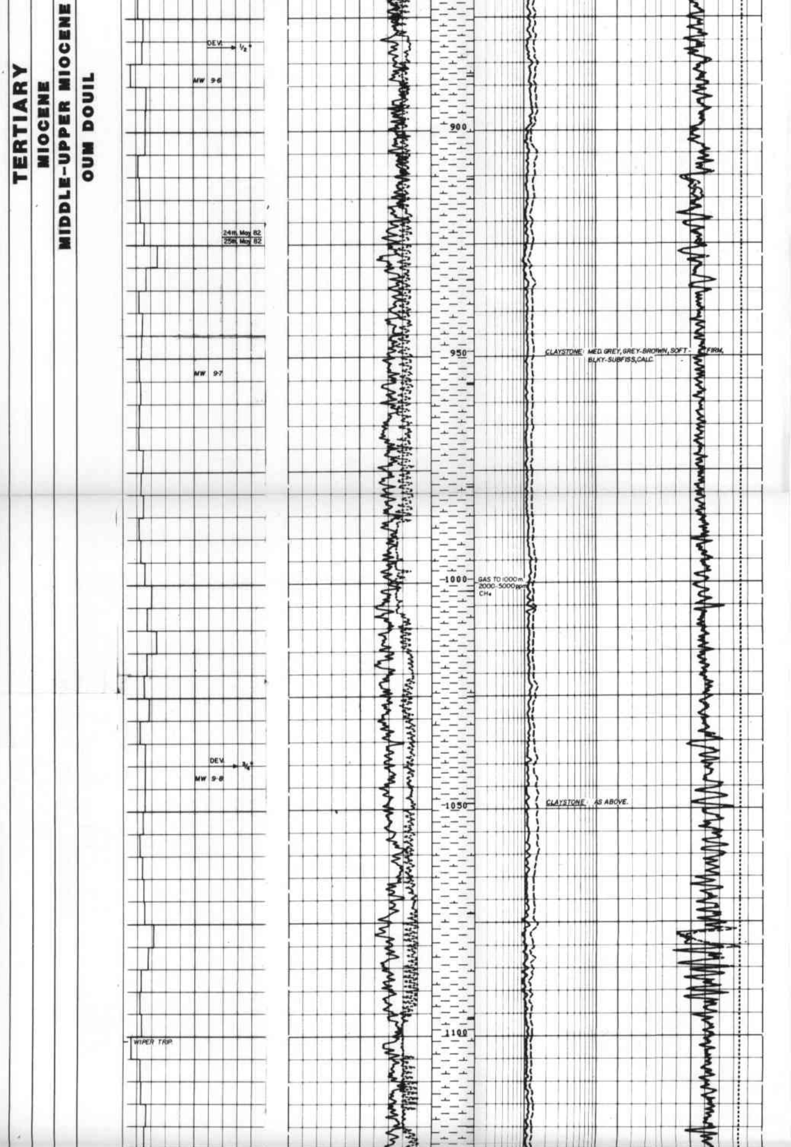
CLAYSTONE: MED GREY, GREY-GREEN, SOFT STICKY, SILTY, CALC.
TR PYRITE, RARE LIMESTONE, WH, FIRM, BLKY MICROXLN.

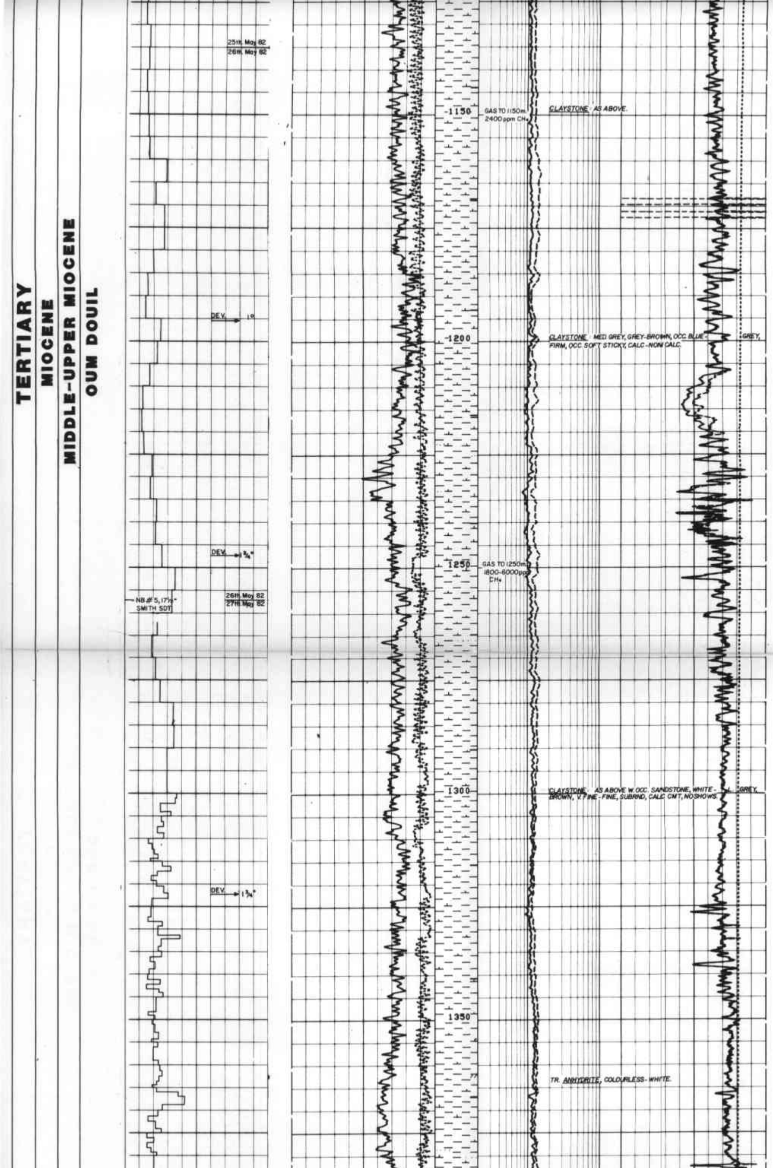
DEV. → 1/2°

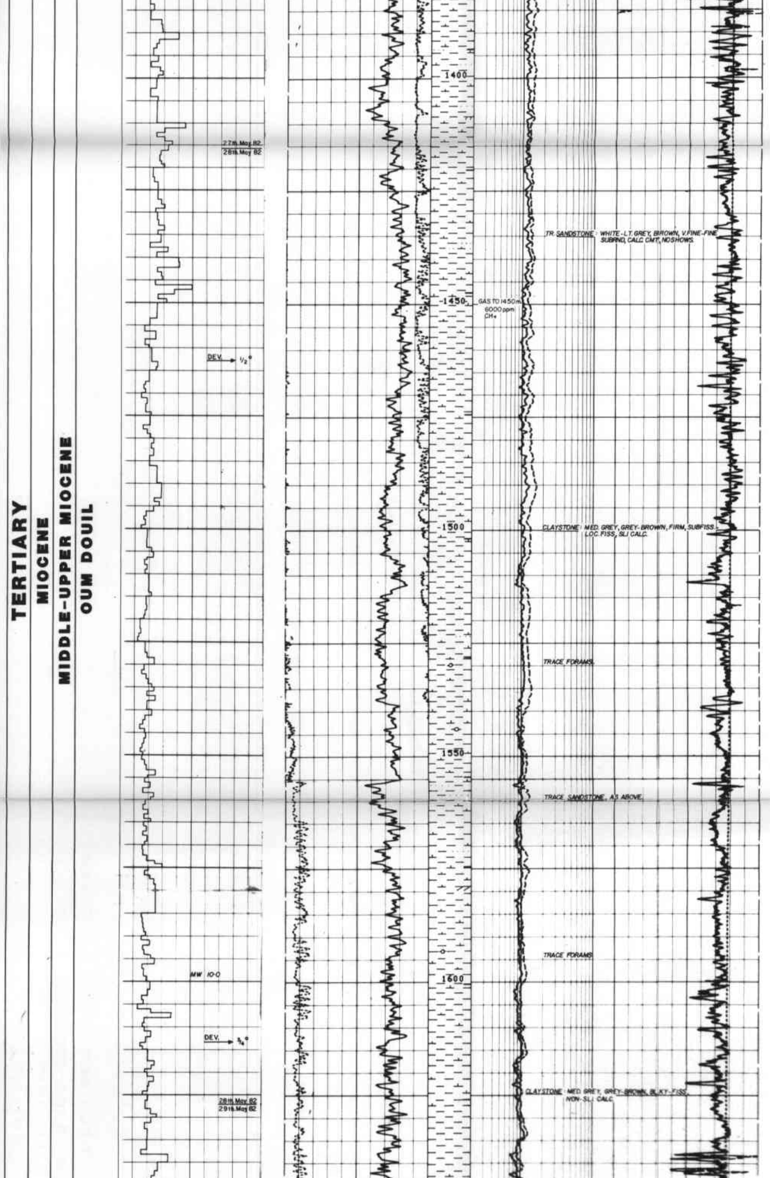
TRACE LIGNITE, GYPSUM.

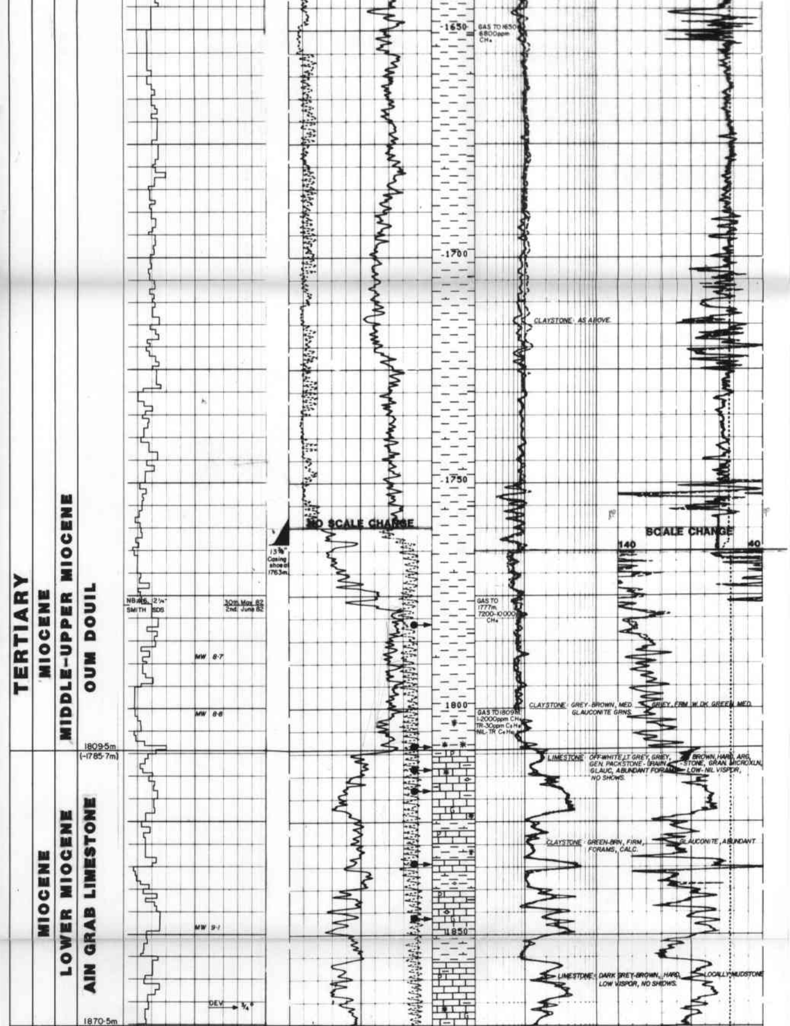
MW 9·3

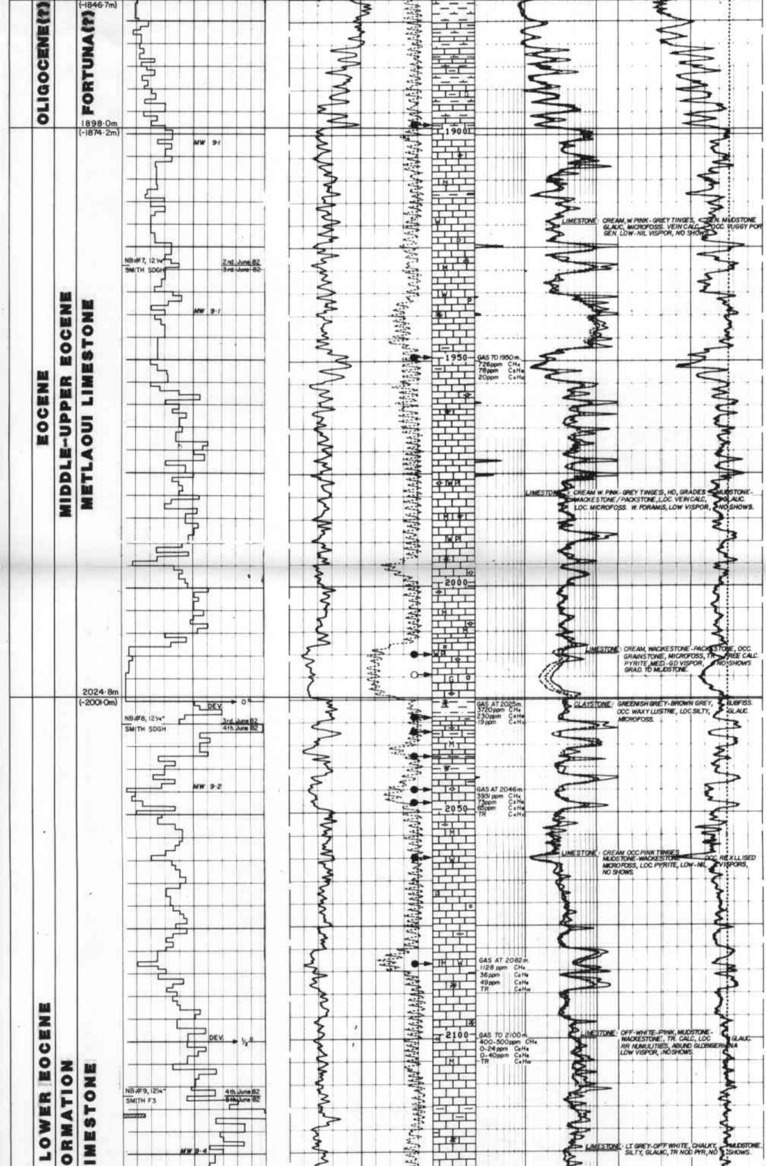
CLAYSTONE: MED GREY, GREY-BROWN, SOFT FIRM,
BLKY-SUBFISS, CALC.











GAS TO 1950m.
726ppm CH_4
78ppm C_2H_6
20ppm C_4H_{10}

GAS AT 2025m.
3720ppm CH_4
230ppm C_3H_8
19ppm C_4H_{10}

GAS AT 2046m.
3931 ppm CH_4
73ppm C_2H_6
65ppm C_3H_8
TR C_4H_{10}

GAS AT 2082m.
1128 ppm CH_4
36ppm C_2H_6
49ppm C_3H_8
TR C_4H_{10}

GAS TO 2100m.
400-500ppm CH_4
0-24ppm C_2H_6
0-40ppm C_3H_8
TR C_4H_{10}

LIMESTONE: CREAM, W PINK-GREY TINGES, GEN. MUDSTONE GLAUC, MICROFOSS. VEIN CALC, OCC. VUGGY POR GEN. LOW-NIL VISPOR, NO SHOWS.

LIMESTONE: CREAM W. PINK-GREY TINGES, HD, GRADES MUDSTONE-WACKESTONE/PACKSTONE, LOC. VEIN CALC, GLAUC. LOC. MICROFOSS. W. FORAMS, LOW VISPOR, NO SHOWS.

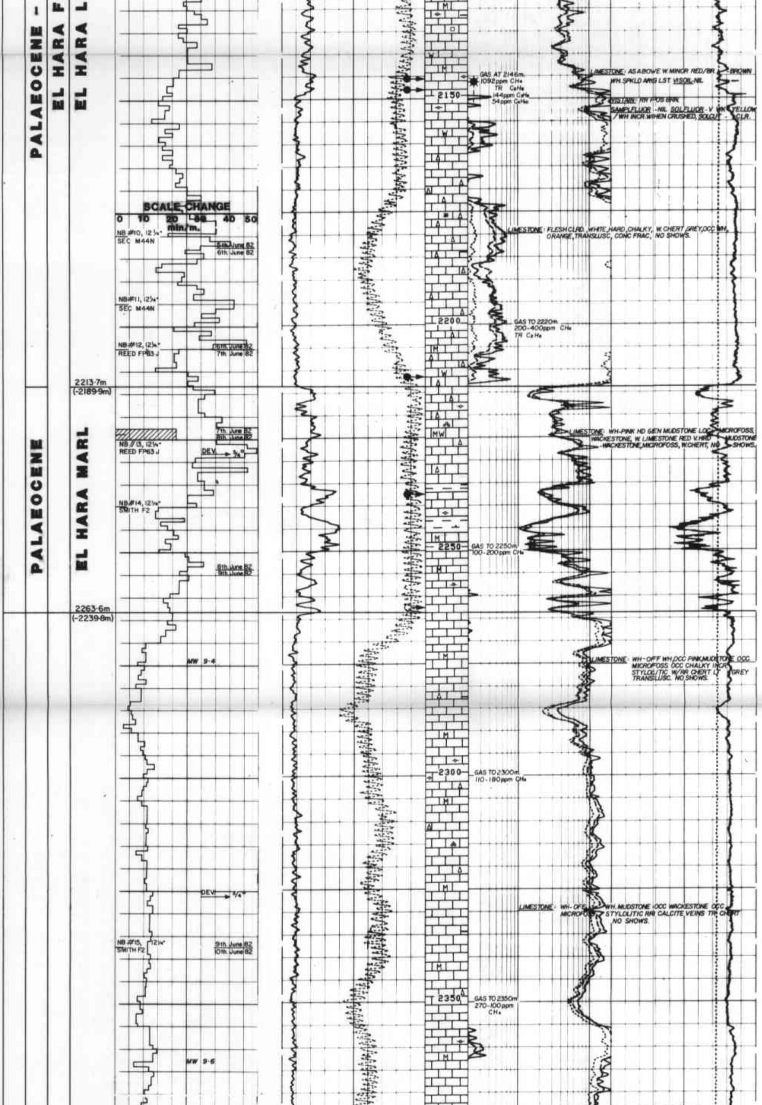
LIMESTONE: CREAM, WACKESTONE-PACKSTONE, OCC. GRAINSTONE, MICROFOSS, TR FREE CALC. PYRITE, MED.-GD VISPOR, NO SHOWS GRAD. TO MUDSTONE.

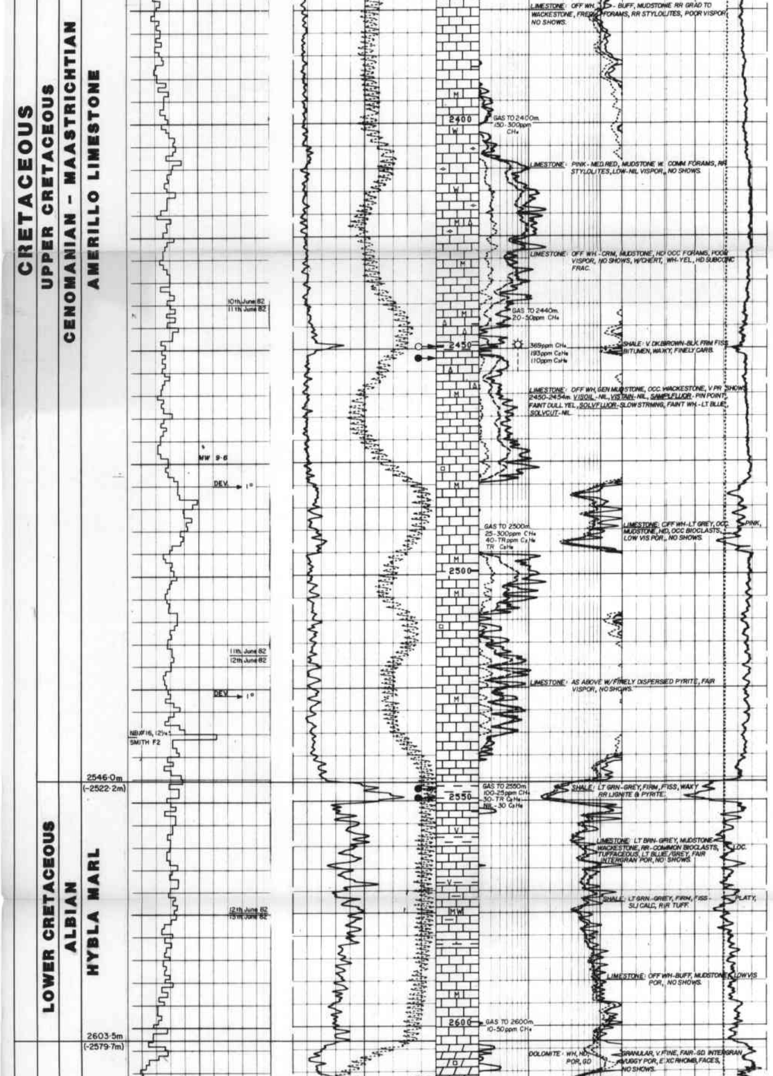
CLAYSTONE: GREENISH GREY-BROWN GREY, SUBFISS. OCC. WAXY LUSTRE, LOC SILTY, GLAUC. MICROFOSS.

LIMESTONE: CREAM OCC PINK TINGES MUDSTONE-WACKESTONE OCC. REXLLISED MICROFOSS, LOC PYRITE, LOW-NIL VISPORS, NO SHOWS.

LIMESTONE: OFF-WHITE-PINK, MUDSTONE-WACKESTONE, TR. CALC, LOC GLAUC RR NUMULITIES, ABUND GLOBIGERINA LOW VISPOR, NO SHOWS.

LIMESTONE: LT GREY-OFF WHITE, CHALKY, MUDSTONE. SILTY, GLAUC, TR NOD PYR, NO SHOWS.





LIMESTONE: OFF WH. - BUFF, MUDSTONE RR GRAD TO WACKESTONE, FREQ FORAMS, RR STYLOLITES, POOR VISPOR, NO SHOWS.

GAS TO 2400m.
150-300ppm CH₄

LIMESTONE: PINK - MED.RED, MUDSTONE W. COMM FORAMS, RR STYLOLITES, LOW-NIL VISPOR., NO SHOWS.

LIMESTONE: OFF WH. - CRM, MUDSTONE, HD OCC FORAMS, POOR VISPOR, NO SHOWS, W/CHERT, WH-YEL, HD SUBCONC FRAC.

GAS TO 2440m.
20-50ppm CH₄

369ppm CH₄
193ppm C₂H₆
110ppm C₃H₈

SHALE: V. DK.BROWN-BLK, FRM FISS BITUMEN, WAXY, FINELY CARB.

LIMESTONE: OFF WH, GEN MUDSTONE, OCC. WACKESTONE, V PR SHOWS 2450-2454m. VISOIL - NIL, VISTAIN - NIL, SAMPLFLUOR - PIN POINT, FAINT DULL YEL., SOLVFLUOR - SLOW STRMNG, FAINT WH. - LT BLUE, SOLVCUT - NIL.

GAS TO 2500m.
25-300ppm CH₄
40-TR ppm C₂H₆
TR C₃H₈

LIMESTONE: OFF WH - LT GREY, OCC. PINK, MUDSTONE, HD, OCC BIOCLASTS, LOW VIS POR., NO SHOWS.

LIMESTONE: AS ABOVE W/FINELY DISPERSED PYRITE, FAIR VISPOR, NO SHOWS.

GAS TO 2550m.
100-25ppm CH₄
30-TR C₂H₆
NIL-30 C₃H₈

SHALE: LT GRN-GREY, FIRM, FISS, WAXY RR LIGNITE & PYRITE.

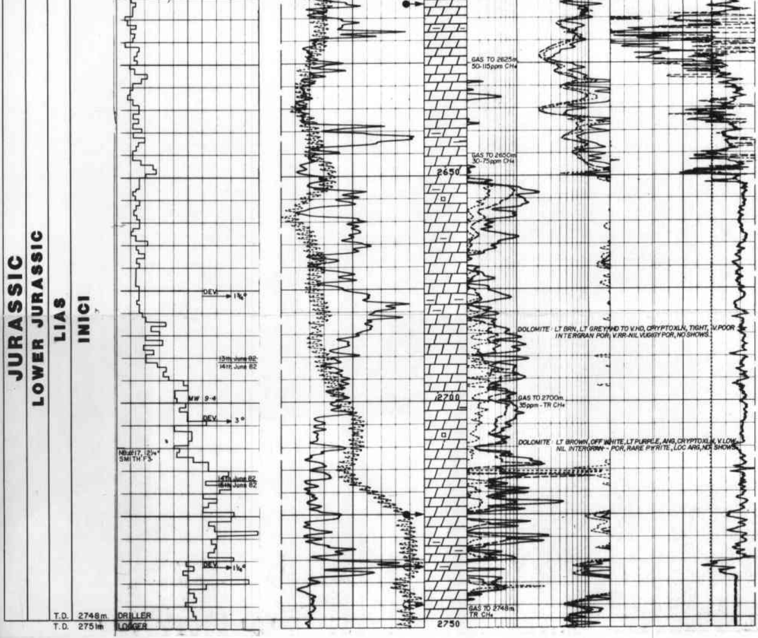
LIMESTONE: LT BRN-GREY, MUDSTONE - WACKESTONE, RR - COMMON BIOCLASTS, LOC. TUFFACEOUS, LT BLUE/GREY, FAIR INTERGRAN POR, NO SHOWS.

SHALE: LT GRN-GREY, FIRM, FISS - PLATY, SLI CALC, R/R TUFF.

LIMESTONE: OFF WH-BUFF, MUDSTONE, LOW VIS POR., NO SHOWS.

GAS TO 2600m.
10-50ppm CH₄

DOLOMITE: WH, HD, GRANULAR, V.FINE, FAIR-GD INTERGRAN POR, GD VUGGY POR, EXC RHOMB FACES, NO SHOWS.



VALLO-1