n° 1887

CONOCO IDROCARBURI SPA

ESSO/HISPANOIL/NORSK HYDRO/
BOW VALLEY/TRICENTROL/SANTA FE

WELL: **SPADA MARE -1**

COMPOSITE WELL LOG

LOCATION : *Ubicazione*

Latitude : **36° 35'00.5"N**

Longitude : **14° 49'37.7"E**

ELEVATIONS : *Quote*

KB dal livello medio marino
K B Mean Sea Level : **22.25m**

KB dal fondo marino
K B Sea Floor : **106.07m**

Profondità marina
Water Depth : **83.82m**

Profondità finale
Total Depth : **3654m** T.

TAPPATO E ABBANDONATO CON MANIFESTAZIONI DI OLIO.

Country : **Italy**

Area : **Offshore Sicily**

Permesso
Licence : **Zone"C" Block 87**

Field :

Data inizio
Date Spudded : **30 Oct 1982**

Fine perforazione
T D Date : **3 Jan 1983**

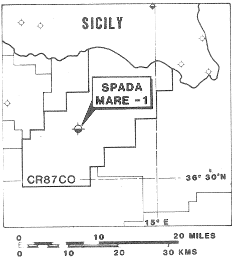
Data completamento
Date Completed : **22 Jan 1983**

Stato finale
Completion Status :

Plugged & Abandoned with oil shows

LOCATION PLAT 1:500,000

CARTA UBICAZIONE



CONOCO GEOLOGISTS *GEOLOGI*

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CONOCO ENGINEERS

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MUDLOG SERVICE

EXPLORATION LOGGING

DRILLING CONTRACTORS & RIG

DIAMOND M COMPANY

DIAMOND M HUNTER

SCHLUMBERGER LOGS

TYPE	RUN No	INTERVAL
DIL/SLS/GR	1	169.0m - 639.0m (GR to 80m)
DIL/SLS/GR/SP	2	623.5m - 1750.0m
DIL/SLS/GR/SP	3	1746.0m - 2692.5m
LDL/CNL/GR/CAL	1	1746.0m - 2693.5m
DLL/MSFL/GR	1	1746.0m - 2691.0m
DIL/SLS/GR/SP	4	2654.0m - 3648.0m
LDL/CNL/GR/CAL	2	2654.0m - 3648.0m
DLL/GR	2	2654.0m - 3643.0m
HDT	1	2654.0m - 3648.0m
FIL	1	2654.0m - 3610.0m
Magnetic Multishot	1	3642.5m - 3630.0m
VSP	1	106.0m - 3630.0m (118 stations)
CST	1	2655.0m - 3635.0m (shot 30, rec 23)
RFT	1	26 tests, 2 samples

INTERVALLO & SCOPO

PLUG No	CEMENT	INTERVAL & PURPOSE
1	250 sx class G	2710m - 2682.5m abandonment
2	Squeeze 100 sx Class G	2644m - 2651.5m DST 2
	EZSV retainer	2644m DST 2
	EZSV	2642m DST 3
3	Squeeze 60 sx class G	2642m - 2609.4m DST 3
	EZSV retainer	2609.4m DST 3
4	7 sx class G	2609.4m - 2603m DST 3
5	Squeeze 50 sx class G	2560m - 2479.5m DST 4
	EZSV retainer	2479.5m DST 4
6	70 sx class G	2479.5m - 2418.6m
7	107 sx class G	213.4m - 122m abandonment

MUD TYPE *TIPO DI FANGO*	INTERVAL
Seawater	169m - 1178m
Freshwater + lignosulphonate	1178m - 3654m

BIT SIZE *SCALPELLI*	INTERVAL
26"	169m - 640m
17½"	640m - 1766m
12¼"	1766m - 2690m
8½"	2690m - 3654m

CASING *TIPO & CEMENTO*

MISURA SIZE	*SCARPA* SHOE	TYPE & CEMENT
30"	169m	5 jts 310 ppf X52, friction set.
20"	623m	41 jts 94 ppf K55 cmt.w.1100 sx class G + 0.42 gal/sk D75. Tailed w.1700 sx class G neat.
13⅜"	1745m	3 jts 72 ppf N80, 77 jts 68 ppf K55, 57 jts 72 ppf N80, cmt.w.2121 sx class G + 12% bentonite + 0.01 gal/sk D80 + 0.03 gal/sk D81. Tailed w. 650 sx class G + 0.02 gal/sk D80 + 0.06 gal/sk D81.
9⅝"	2651m	214 jts 47 ppf N80 cmt.w.850 sx class G + 10% bentonite. Tailed w.1000 sx class G + 0.2 gal/sk K80 + 0.23 gal/sk D73.

DATI CAROTE PARETE

WELLSITE CORE DATA

CAROTA CORE No	INTERVAL	CUT	REC.	REC.%
1	2690.0 - 2692.7m	2.7m	2.1m	78
2	2692.7 - 2699.2m	6.5m	4.9m	75
3	2718.0 - 2730.2m	12.2m	10.3m	84
4	2730.2 - 2742.2m	11.9m	11.9m	100
5	2742.2 - 2750.0m	7.8m	7.4m	95
6	2750.0 - 2759.1m	9.1m	8.9m	98
7	2759.1 - 2768.3m	9.1m	8.7m	96
8	2768.3 - 2777.5m	9.2m	9.0m	98
9	2777.5 - 2786.6m	9.1m	8.6m	95
10	3235.8 - 3244.9m	9.1m	8.48m	93
11	3411.9 - 3415.9m	4.0m	1.4m	36
12	3415.9 - 3425.0m	9.1m	9.1m	100

CORE DATA CORRECTED TO G.R. LOG

CORE No *CAROTE*	INTERVAL	CUT *TAGLIO*	REC.	REC.%
No corrections made				

AUTHORS: *AUTORI* **R. BULMAN**	**APPROVED:** *APPROVATO*
DRAFTED: *DISEGNATO* **F.J.KENNY**	**DATE:**

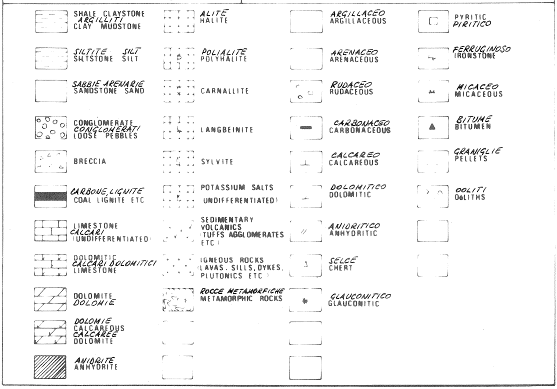
REMARKS:

SIMBOLI LITOLOGICI PRINCIPALI

MAIN LITHOLOGICAL SYMBOLS

SIMBOLI LITOLOGICI SECONDARI

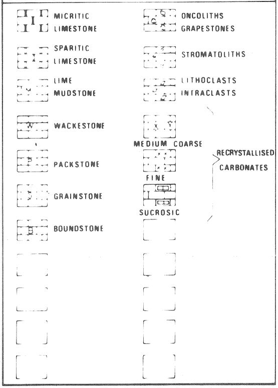
SECONDARY LITHOLOGICAL SYMBOLS



- SHALE CLAYSTONE *ARGILLITI* CLAY MUDSTONE
- *SILTITE SILT* SILTSTONE SILT
- *SABBIE ARENARIE* SANDSTONE SAND
- CONGLOMERATE *CONGLOMERATI* LOOSE PEBBLES
- BRECCIA
- *CARBONE, LIGNITE* COAL LIGNITE ETC
- LIMESTONE *CALCARI* (UNDIFFERENTIATED)
- DOLOMITIC *CALCARI DOLOMITICI* LIMESTONE
- DOLOMITE *DOLOMIE*
- *DOLOMIE* CALCAREOUS *CALCAREE* DOLOMITE
- *ANIDRITE* ANHYDRITE
- *ALITE* HALITE
- *POLIALITE* POLYHALITE
- CARNALLITE
- LANGBEINITE
- SYLVITE
- POTASSIUM SALTS (UNDIFFERENTIATED)
- SEDIMENTARY VOLCANICS (TUFFS AGGLOMERATES ETC)
- IGNEOUS ROCKS (LAVAS, SILLS, DYKES, PLUTONICS ETC)
- *ROCCE METAMORFICHE* METAMORPHIC ROCKS
- *ARGILLACEO* ARGILLACEOUS
- *ARENACEO* ARENACEOUS
- *RUDACEO* RUDACEOUS
- *CARBONACEO* CARBONACEOUS
- *CALCAREO* CALCAREOUS
- *DOLOMITICO* DOLOMITIC
- *ANIDRITICO* ANHYDRITIC
- *SELCE* CHERT
- *GLAUCONITICO* GLAUCONITIC
- PYRITIC *PIRITICO*
- *FERRUGINOSO* IRONSTONE
- *MICACEO* MICACEOUS
- *BITUME* BITUMEN
- *GRANIGLIE* PELLETS
- *OOLITI* OOLITHS

SIMBOLI LITOLOGICI PER ROCCE CALCAREE

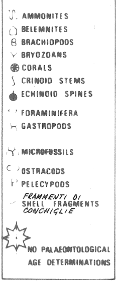
SYMBOLS FOR USE IN CARBONATE PROVINCES



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

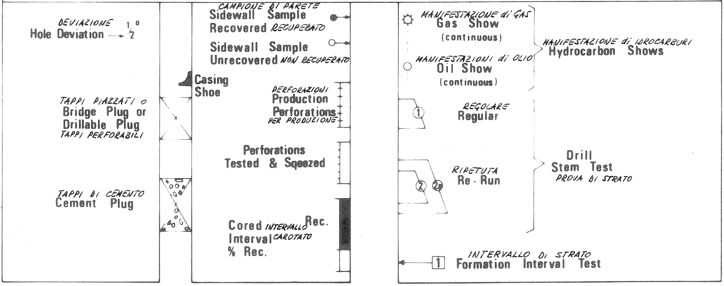
SIMBOLI DEI FOSSILI

FOSSIL SYMBOLS



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

CASING & COMPLETION LITHOLOGY



DEVIAZIONE Hole Deviation → 1/2°
TAPPI PIAZZATI o Bridge Plug or Drillable Plug *TAPPI PERFORABILI*
TAPPI DI CEMENTO Cement Plug
CAMPIONE DI PARETE Sidewall Sample Recovered *RECUPERATO*
Sidewall Sample Unrecovered *NON RECUPERATO*
Casing Shoe
PERFORAZIONI Production Perforations *PER PRODUZIONE*
Perforations Tested & Sqeezed
Cored *INTERVALLO* Interval *CAROTATO* % Rec.
Rec.
MANIFESTAZIONE di GAS Gas Show (continuous)
MANIFESTAZIONI di OLIO Oil Show (continuous)
MANIFESTAZIONE di IDROCARBURI Hydrocarbon Shows
1
REGOLARE Regular
2
2r
RIPETUTA Re-Run
Drill Stem Test *PROVA DI STRATO*
1
INTERVALLO DI STRATO Formation Interval Test

GEOLOGICAL AGE AND FORMATION
ETA' GEOLOGICA E FORMAZIONE

DRILLING RATE
Mins/5ft
0 10 20

SPONTANEOUS POTENTIAL
MILLIVOLTS
− | 10 | +

GAMMA RAY
0 API UNITS 50

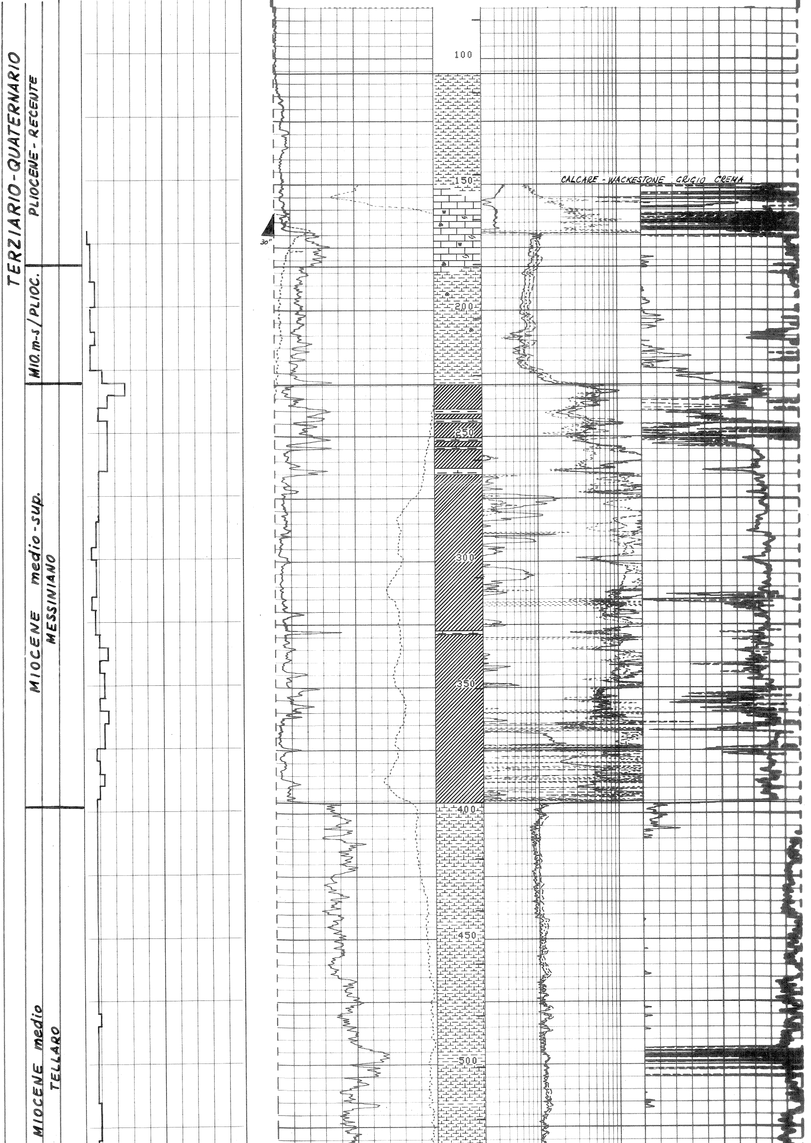
CAROTE & INTERVALLI CAROTATI
CORING & PERF INTERVALS

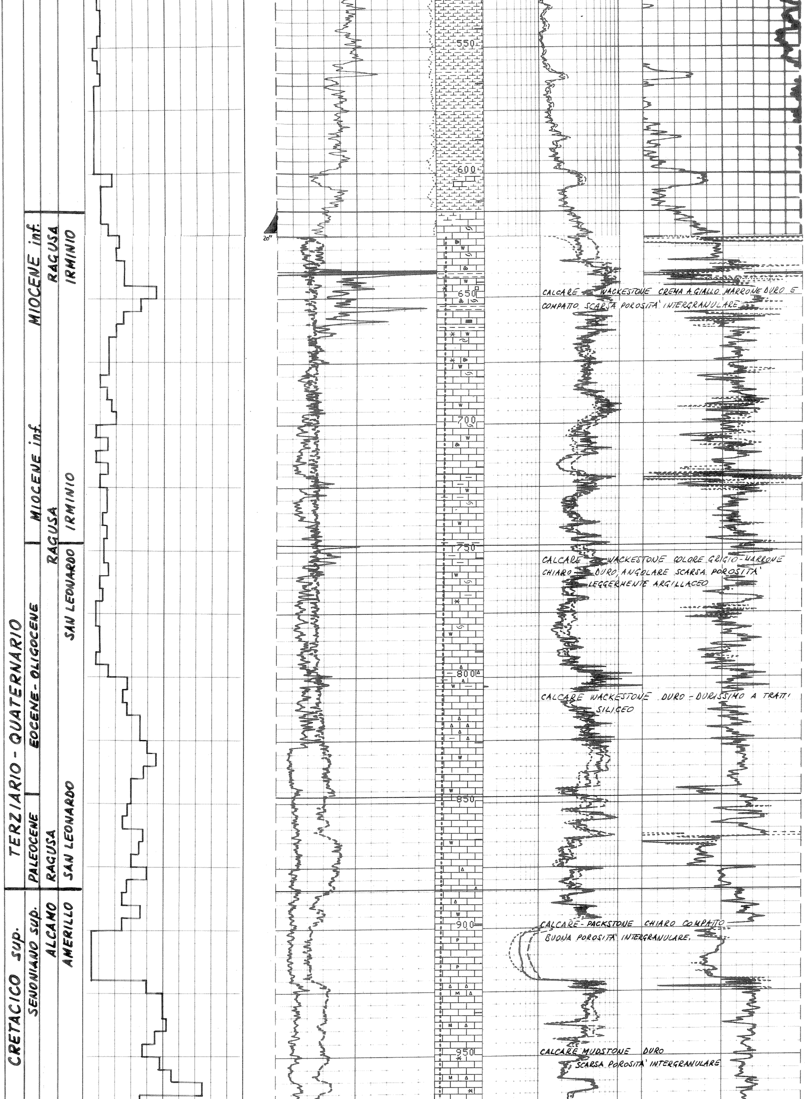
DEPTH SCALE
1:1000

RESISTIVITY
OHMS M²/M
DEEP INDUCTION
0.2 RILD 20
FOCUSED RESISTIVITY (SFL)
0.2 RSFL AV 20

BOREHOLE COMPENSATED SONIC LOG
INTERVAL TRANSIT TIME
MICROSECONDS PER FOOT
190 90

DESCRIZIONE LITOLOGICA
LITHOLOGICAL DESCRIPTION





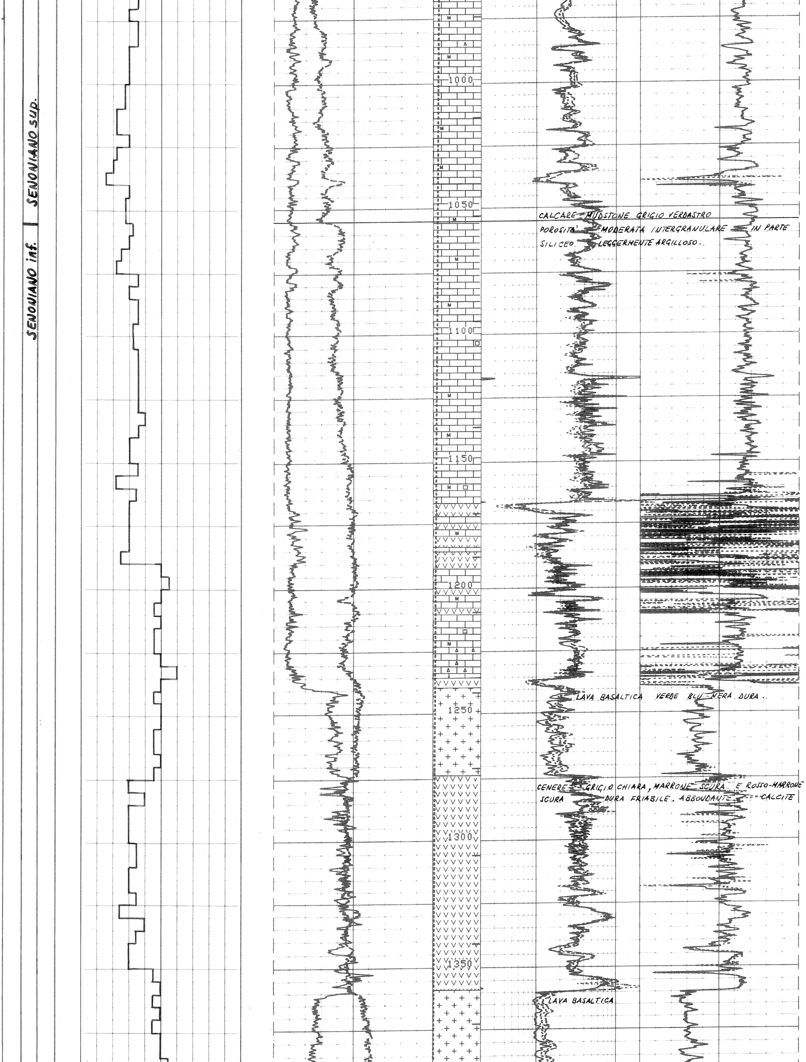
CALCARE WACKESTONE CREMA A GIALLO MARRONE DURO E
COMPATTO SCARSA POROSITÀ INTERGRANULARE

CALCARE WACKESTONE COLORE GRIGIO-MARRONE
CHIARO DURO, ANGOLARE SCARSA POROSITÀ
LEGGERMENTE ARGILLACEO

CALCARE WACKESTONE DURO - DURISSIMO A TRATTI
SILICEO

CALCARE - PACKSTONE CHIARO COMPATTO
BUONA POROSITÀ INTERGRANULARE.

CALCARE MUDSTONE DURO
SCARSA POROSITÀ INTERGRANULARE

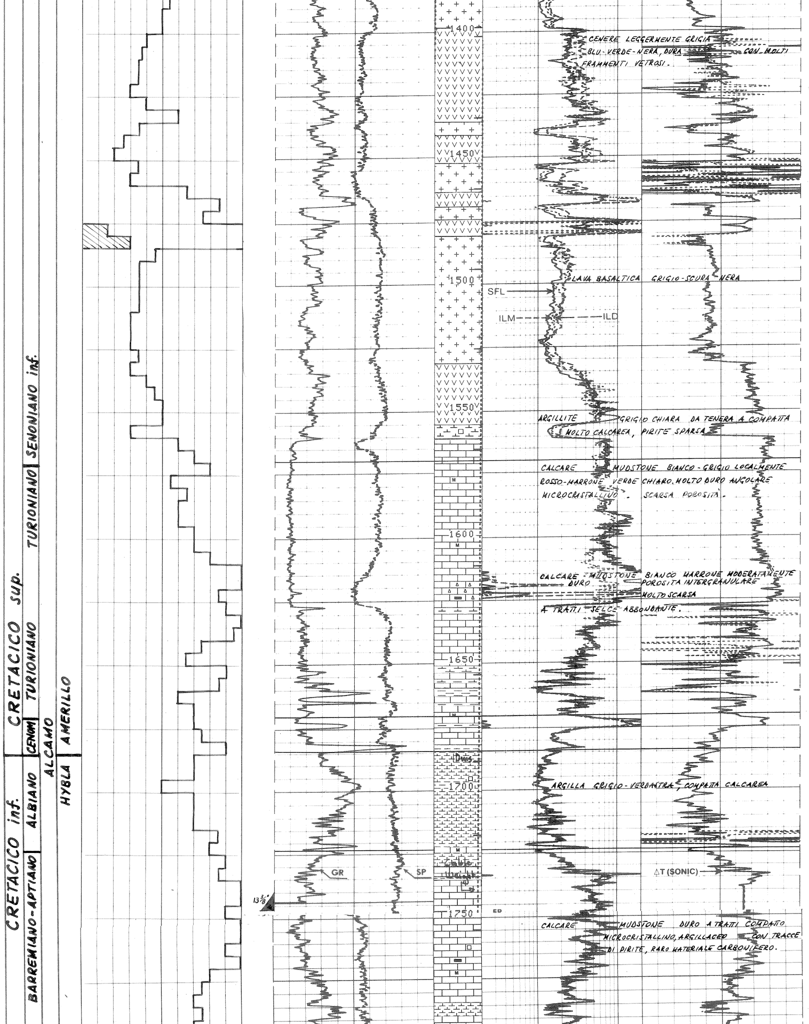


CALCARE MUDSTONE GRIGIO VERDASTRO POROSITÀ MODERATA INTERGRANULARE IN PARTE SILICEO. LEGGERMENTE ARGILLOSO..

LAVA BASALTICA VERDE BLU-NERA DURA.

CENERE GRIGIO CHIARA, MARRONE SCURA E ROSSO-MARRONE SCURA DURA FRIABILE. ABBONDANTE CALCITE

LAVA BASALTICA



CENERE LEGGERMENTE GRIGIA BLU-VERDE-NERA, DURA CON MOLTI FRAMMENTI VETROSI.

LAVA BASALTICA GRIGIO-SCURA NERA

ARGILLITE GRIGIO CHIARA DA TENERA A COMPATTA MOLTO CALCAREA, PIRITE SPARSA

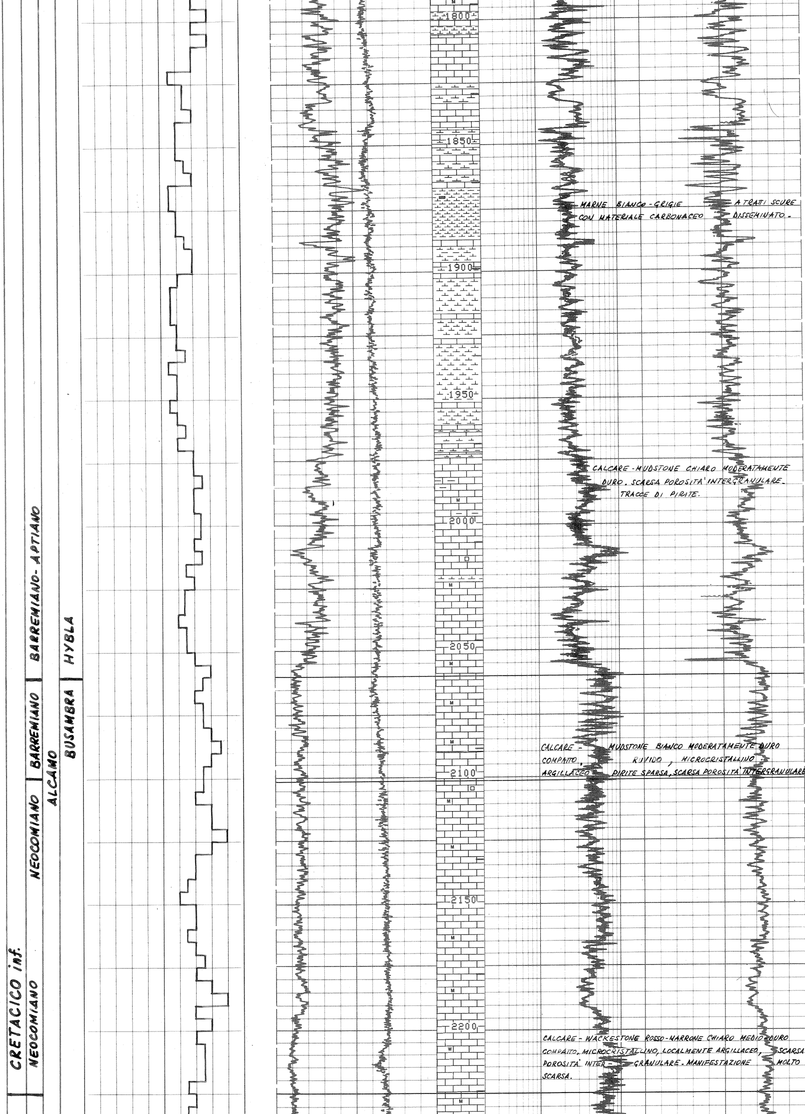
CALCARE MUDSTONE BIANCO-GRIGIO LOCALMENTE ROSSO-MARRONE VERDE CHIARO. MOLTO DURO ANGOLARE MICROCRISTALLINO. SCARSA POROSITÀ.

CALCARE - MUDSTONE BIANCO MARRONE MODERATAMENTE DURO POROSITA INTERGRANULARE MOLTO SCARSA

A TRATTI SELCE ABBONDANTE.

ARGILLA GRIGIO-VERDASTRA, COMPATTA CALCAREA

CALCARE MUDSTONE DURO A TRATTI COMPATTO MICROCRISTALLINO, ARGILLACEO CON TRACCE DI PIRITE, RARO MATERIALE CARBONIFERO.

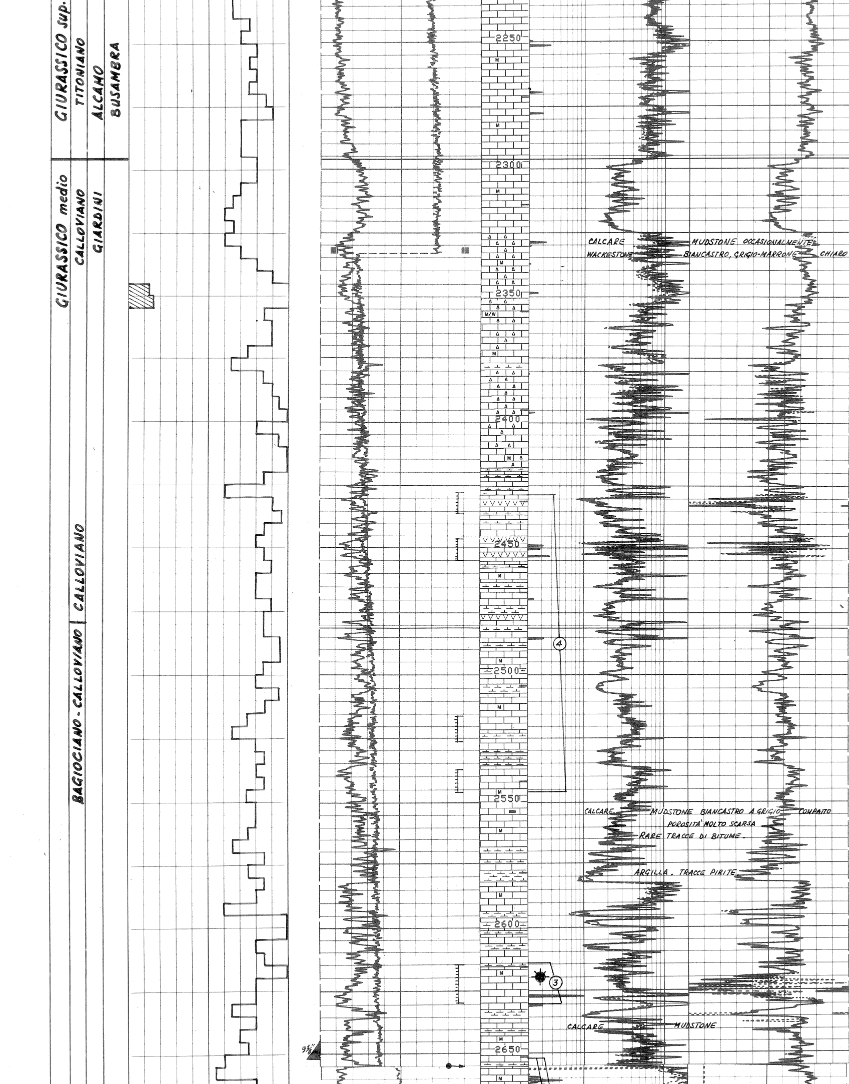


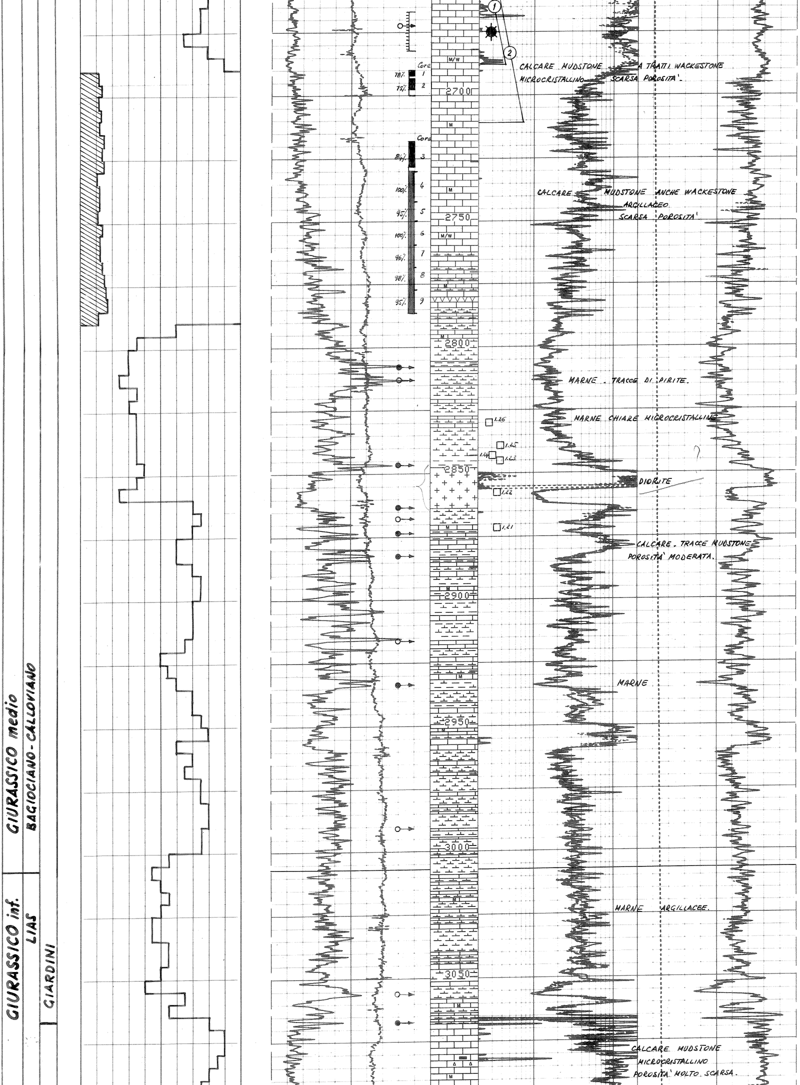
MARNE BIANCO-GRIGIE A TRATTI SCURE
CON MATERIALE CARBONACEO DISSEMINATO.

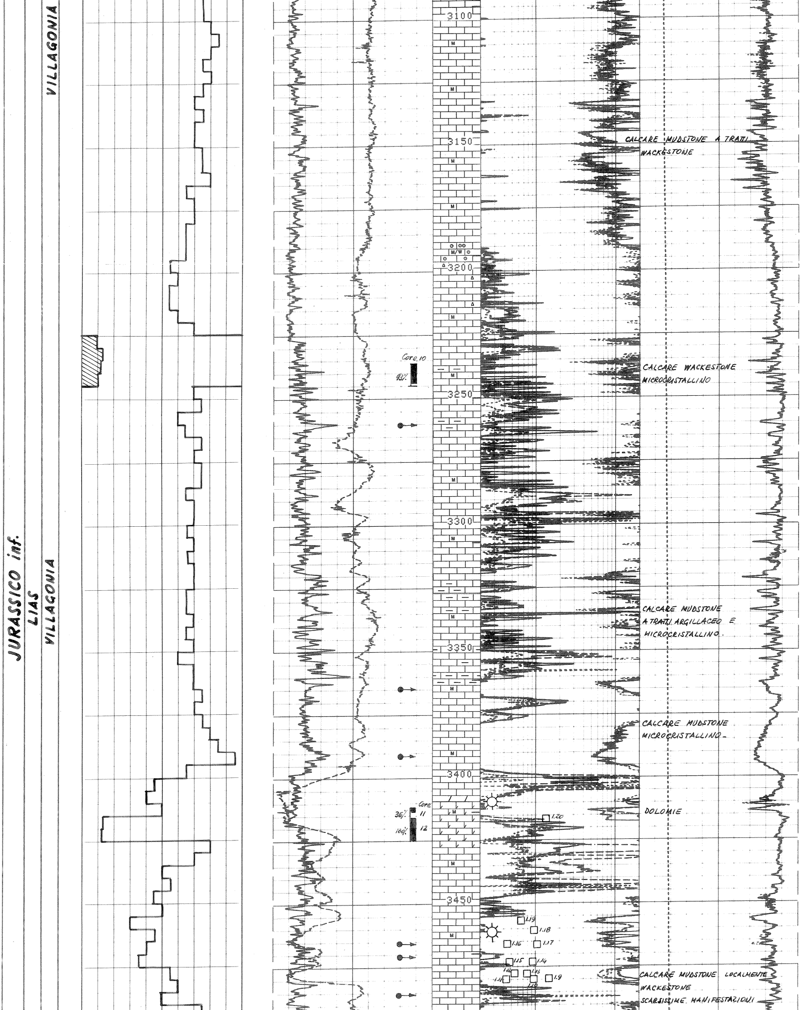
CALCARE - MUDSTONE CHIARO MODERATAMENTE DURO. SCARSA POROSITA' INTERGRANULARE. TRACCE DI PIRITE.

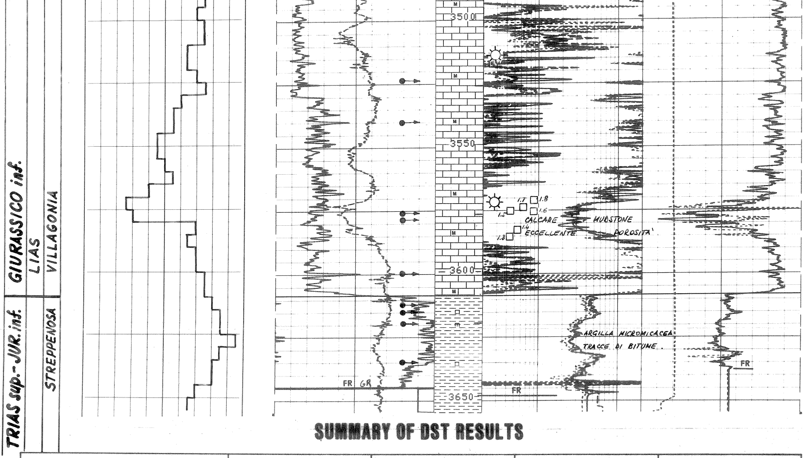
CALCARE - MUDSTONE BIANCO MODERATAMENTE DURO COMPATTO, RUVIDO, MICROCRISTALLINO. ARGILLACEO PIRITE SPARSA, SCARSA POROSITA' INTERGRANULARE

CALCARE - WACKESTONE ROSSO-MARRONE CHIARO MEDIO-DURO COMPATTO, MICROCRISTALLINO, LOCALMENTE ARGILLACEO, SCARSA POROSITA' INTER-GRANULARE. MANIFESTAZIONE MOLTO SCARSA.









SUMMARY OF DST RESULTS

		No. 1	No. 2	No. 3	No. 4
Interval	Metres	2651.3m - 2692.8m	2651.5m - 2710.3m	2615.0m - 2630.0m	2428.0m - 2546.0m
Perforations	Metres	Open Hole	2667.0m - 2682.5m	2615.0m - 2630.0m	2428.0m - 2436.0m, 2446.0m - 2455.0m, 2516.0m - 2526.0m, 2537.0m - 2546.0m,
Initial Hydrostatic	PSIG	4230	-	-	-
Initial Flow	Mins.	410 - 472	30	8	5
Initial Build-Up	Mins.	4004	90	60	46
2nd Flow	Mins.	-	-	318	-
2nd Build-Up	Mins.	-	-	565	-
Final Flow	Mins.	492 - 1169	330	415	184
Final Build-Up	Mins.	3291	570		237
Final Hydrostatic	PSIG	4158	-	-	-
Formation Fluids Recovered		35 bbl oil	300 bbl oil	192 bbl oil	Nil
Stabilised Flowrate	BOPD	128	-	70	-
Oil Gravity @ 60° F	°API	18.5	17.0	17.0	-
Kh	MD/FT	27.5	0.5	0.5	0.23
Skin		+ 0.7			+ 0.8
Productivity Index	BOPD/PSI			0.38	

SUMMARY OF RFT RESULTS

TEST NO.	DEPTH (M,KB)	HYDROSTATIC PRESSURE (PSIG)	FORMATION PRESSURE (PSIG)	PRESSURE GRADIENT (PSI/FT)	FLUIDS RECOVERED
1,1	3601.3	6031	No Seal		
1,2	3598.6	6022	Dry Test		
1,3	3585.6	6000	No Seal		
1,4	3583.0	5995	Dry Test		
1,5	3575.0	5977	No Seal		
1,6	3574.5	5977	No Seal		
1,7	3573.3	5967	No Seal		
1,8	3570.3	5970	No Seal		
1,9	3479.8	5797	No Seal		
1,10	3479.5	5790	No Seal		
1,11	3479.5	5820	5093	0.446	
1,12	3477.7	5791	No Seal		
1,13	3477.7	5820	No Seal		
1,14	3473.0	5817	Dry Test		
1,15	3472.5	5810	Dry Test		
1,16	3466.0	5765	5029	0.442	
1,17	3466.0	5809	5029	0.442	11 minutes to fill 1 gallon chamber Upper chamber: approx. 3000 cc mud filtrate mixed with formation water: 8500 ppm Cl-, 200 ppm Ca^+ PH,7 (RW = 0.464 @ 23° C) Lower Chamber: 15 minutes to fill 2¾ gallon chamber 9463 cc mud: 7000 ppm Cl- 200 ppm Ca^+ PH, 11
1,18	3465.5	5808	No Seal		
1,19	3457.5	5782	Dry Test		
1,20	3417.0	5711	4961	0.442	
1,21	2871.4	4833	No Seal		
1,22	2857.5	4798	No Seal		
1,23	2845.0	4784	No Seal		
1,24	2842.7	4774	No Seal		
1,25	2839.0	4770	No Seal		
1,26	2830.0	4741	No Seal		