CONOCO

4417

CONOCO IDROCARBURI SPA

ANADARKO/MURPHY/ODECO POZZO WELL **STELLA-1**

COMPOSITE WELL LOG

LOCATION : *UBICAZIONE*

Latitude : 42° 19' 53.18"N

Longitude : 15° 27' 56.43"E

ELEVATIONS : *QUOTE*

DAL LIVELLO MEDIO MARINO
K B Mean Sea Level : 25.60m

DAL FONDO MARINO
K B Sea Floor : 163.97m

PROFONDITA' FONDO MARINO
Water Depth : 138.37m

PROFONDITA' TOTALE
Total Depth : 3000m

STATO
Country : ITALY

Area : ADRIATIC ZONE B

PERMESSO
Licence : BLOCK 159

AGIP
ARCHIVIO POZZI
AGEO

Field : —

E/PROR

DATA INIZIO
Date Spudded : 24th October 1981

FINE PERFORAZIONE
T D Date : 1st December 1981

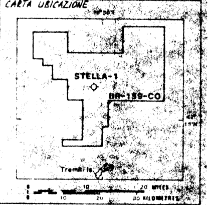
DATA COMPLETAMENTO
Date Completed : 7th Dec 1981

STATO FINALE DEL POZZO
Completion Status : Plugged and abandoned Dry hole

CHIUSO E ABBANDONATO

LOCATION PLAT Scale 1:500,000

CARTA UBICAZIONE



CONOCO GEOLOGISTS *GEOLOGI*

J.MURPHY
A.MACHELL

CONOCO ENGINEERS *INGEGNERI*

S.McGOFFIN
D.LEROUX

MUDLOG SERVICE

GEOSERVICES

DRILLING CONTRACTORS & RIG

CONTRATTISTA E IMPIANTO PERFORAZIONE

PENROD DRILLING COMPANY/"PENROD 70"

SCHLUMBERGER LOGS

TYPE	RUN No	INTERVAL
DIL/SLS/GR/SP (Pass 1)	1	532 m - 900 m
DIL/SLS/GR/SP (Pass 2)	1	532 m - 1,078 m
DIL/BHC/GR/SP	1	497 m - 1,440 m
DIL/SLS/GR/SP	2	1,421.5 m - 2,2[illegible] m
DIL/SLS/GR/SP	[illegible]	2,17[illegible] m - 2,997 m
FDC/CNL/GR	1	1,421 m - 2,994 m
DLL/MSFL/GR	1	1,421 m - 2,991.5 m
HDT	1	1,421 m - 2,993.5 m
RFT/GR	1	2,255.5 m - 2,482.5 m
VSP	1	200 m - 2,990 m

PLUG No	CEMENT	INTERVAL & PURPOSE *INTERVALLO E SCOPO*
1	140 sx Class 'G' at 15.7 ppg	1396.70 m - 1456.00 m (Below Retainer)
2	35 sx Class 'G' at 15.7 ppg	1390.45 m - 1395.90 m (Above Retainer)
3	117 sx Class 'G' at 16.5 ppg	186.41 m - 230.33 m

MUD TYPE *TIPO DI FANGO*	INTERVAL
Seawater/Polymer	Spud to 3,000 m

BIT SIZE *SCALPELLI*	INTERVAL *INTERVALLO*
26"	240 m - 546 m
17½"	546 m - 1,442 m
12¼"	1,442 m - 3,000 m

CASING

SIZE *DIMENSIONE*	SHOE *SCARPA*	TYPE & CEMENT *TIPO E CEMENTO*
30"	239.37m	6 JNTS 1" Wall w/ATD connectors. CMTD w/ 346 sx class 'G' neat, at 15.6 ppg
20"	532.18m	39 JNTS K55m 91.5 lb/ft w/ VETCO L connections. CMTD w/ lead 1741 sx class 'G' + 10% gel at 13.0 ppg. Tail 300 sx class 'G' neat at 15.6 ppg.
13⅜"	1426.18m	103 JNTS K55, 68 lb/ft w/ buttress connections. CMTD w/lead 2146 sx class 'G' + 10% gel + 0.3% D13 + 0.3% D65 + 0.1% D46 at 12.8 ppg. Tail 300 sx class 'G' + 0.04 gal/sx D-81 + 0.15 gal/sx D-80 + 1 pnt/bbl D47 at 15.8 ppg.

DATI CAROTE PARETE

WELLSITE CORE DATA

CORE No *CAROTA No*	INTERVAL *INTERVALLO*	CUT *TAGLIO*	REC.	REC %
	NO CORES WERE CUT			

CORE DATA CORRECTED TO G.R. LOG

CORE No *CAROTA No*	INTERVAL *INTERVALLO*	CUT *TAGLIO*	REC.	REC %

AUTHORS *AUTORI*

J.MURPHY

APPROVED *APPROVATO*

DRAFTED *DISEGNATO*:

J.MURPHY/P.JARVIS

DATE

15th April 1982

REMARKS: *NOTE*:

38m on bearing 165° true from intended location at shot point 370 Line B159-79-08

38m. DALLA LOCAZIONE PREVISTA (PUNTO DI SCOPPIO 370 SULLA LINEA B159-79-08) MISURATI SULL'ANGOLO DI 165°.

SIMBOLI LITOLOGICI PRINCIPALI / MAIN LITHOLOGICAL SYMBOLS

- SHALE, CLAYSTONE / *ARGILLITE* / CLAY, MUDSTONE
- SILTITE - SILT / SILTSTONE SILT
- SABBIE ARENARIE / SANDSTONE SAND
- *ALITE* / HALITE
- *POLIALITE* / POLYHALITE
- *CARNALLITE* / CARNALLITE

SIMBOLI LITOLOGICI SECONDARI / SECONDARY LITHOLOGICAL SYMBOLS

- *ARGILLACEO* / ARGILLACEOUS
- *ARENACEO* / ARENACEOUS
- *RUDACEO* / RUDACEOUS
- PYRITIC / *PIRITICO*
- IRONSTONE / *FERRUGINOSO*
- *MICACEO* / MICACEOUS

SIMBOLI LITOLOGICI PER ROCCE CALCAREE / SYMBOLS FOR USE IN CARBONATE PROVINCES

- *CALCARE* MICRITIC *MICRITICO* LIMESTONE
- SPARITIC *CALCARE* LIMESTONE *SPARITICO*
- LIME *LIME E* MUDSTONE
- ONCOLITHS *ONCOLITI* / GRAPESTONES
- STROMATOLITHS *STROMATOLITI*
- LITHOCLASTS *LITOCLASTI* INTRACLASTS *INTRACLASTITE*

CONGLOMERATE CONGLOMERATI LOOSE PEBBLES
BRECCIA
CARBONE LIGNITE ECC. COAL LIGNITE ETC
CALCARI LIMESTONE (INDIFFERENZIATI) (UNDIFFERENTIATED)
DOLOMITIC CALCARI DOLOMITICI LIMESTONE
DOLOMIE DOLOMITE
CALCARI CALCAREOUS DOLOMITICI DOLOMITIC
ANIDRITE ANHYDRITE

LANGBEINITE LANGBEINITE
SILVITE SYLVITE
POTASSIUM SALTS (UNDIFFERENTIATED)
TUFI VULCANICI, SEDIMENTARI, AGGLOMERATI, ECC.
ROCCE VULCANICHE LAVE, INTRUSIONI
ROCCE METAMORFICHE METAMORPHIC ROCKS

CARBONACEO CARBONACEOUS
CALCAREO CALCAREOUS
DOLOMITICO DOLOMITIC
ANIDRITICO ANHYDRITIC
SELCE CHERT
GLAUCONITICO GLAUCONITIC
MARL

BITUME BITUMEN
PELLETS GRANULE
OOLITI OOLITHS

WACKESTONE
PACKSTONE
GRAINSTONE
BOUNDSTONE

MEDIUM COARSE
FINE
FINE
SACCAROIDE
SUCROSIC
CALCARI RICRISTALLIZZATI RECRYSTALLISED CARBONATES

SIMBOLI DEI FOSSILI FOSSIL SYMBOLS

- AMMONITES
- BELEMNITES
- BRACHIOPODS
- BRYOZOANS BRIOZOI
- CORALS
- CRINOID STEMS
- ECHINOID SPINES
- FORAMINIFERA
- GASTROPODS
- MICROFOSSILS
- OSTRACODS
- PELECYPODS
- FRAMMENTI DI CONCHIGLIE SHELL FRAGMENTS
- MEZZI DI RIFERIMENTO PALEONTOLOGICO PER DETERMINARE L'ETÀ PALEONTOLOGICAL AGE DETERMINATIONS

TUBAZIONE E COMPLETAMENTO CASING & COMPLETION

DEVIAZIONE Hole Deviation – ½°

TAPPI DIAZZATI E Bridge Plug or Drillable Plug TAPPI PERFORATI

TAPPI DI CEMENTO Cement Plug

CAMPIONE DI PARETE Sidewall Sample RECUPERATO Recovered

Sidewall Sample Unrecovered

SCARPA DEL CASING Casing Shoe

PERFORAZIONE PER PRODUZIONE Production Perforations

Perforations Tested & Squeezed

Cored INTERVALLO CAROTATO Interval Rec. % Rec.

LITOLOGIA LITHOLOGY

GAS Gas Show (continuous)
OLIO Oil Show (continuous)

MANIFESTAZIONI Hydrocarbon Shows

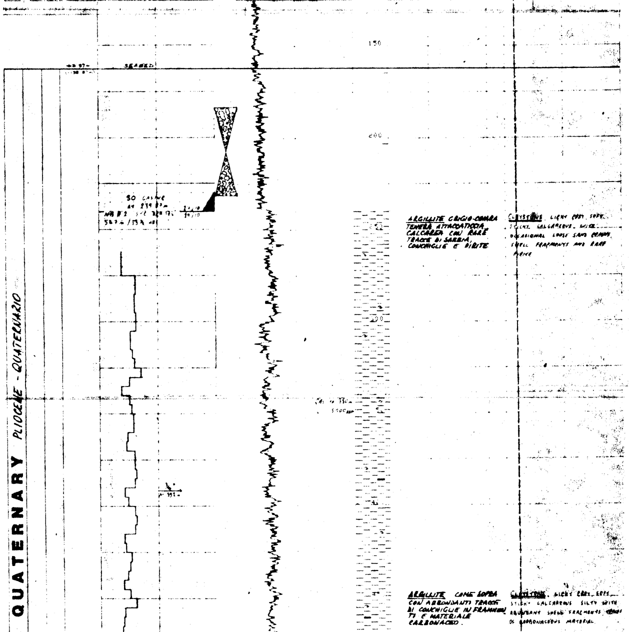
REGOLARE Regular
Re Run RIPETUTA

Drill Stem Test PROVA DI STATO

INTERVALLO PROVATO Formation Interval Test

ETA' GEOLOGICHE E FORMAZIONE GEOLOGICAL AGE AND FORMATION	SCALPELLI E DEVIAZIONI BIT & DEVIATION DATA TEMPI DI PERFORAZIONE DRILLING RATE Mins / M (5M AVERAGE) 0 1 2 4 8 16 BITS/SCALPELLI DEVIATIONS – DATE DATES	SPONTANEOUS POTENTIAL MILLIVOLTS – |10| + GAMMA RAY API UNITS 0 – 100 CAROTE E INTERV. PERFORATI CORING & PERF INTERVALS	SCALA DI PROFOND. DEPTH SCALE 1 1000	RESISTIVITY ILD (OHMM) 0.2 – 20, 20 – 2000 ILM (OHMM) 0.2 – 20, 20 – 2000 SFLU (OHMM) 0.2 – 20, 20 – 2000	LONG SPACED SONIC LOG INTERVAL TRANSIT TIME MICROSECONDS PER FOOT 190 – 80

DESCRIZIONE LITOLOGICA LITHOLOGICAL DESCRIPTION

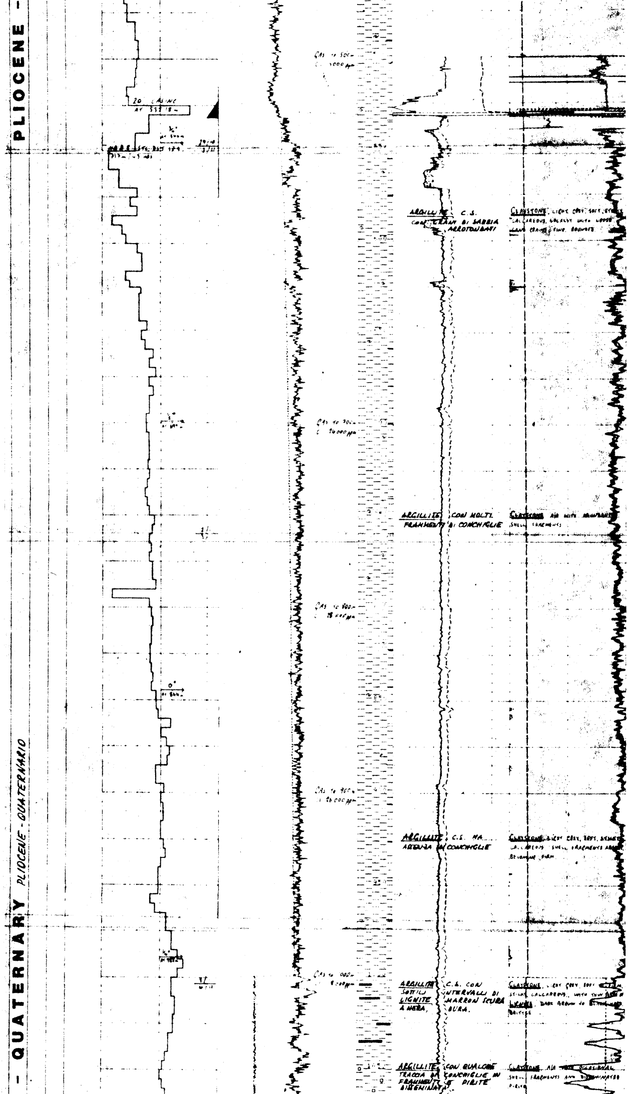


ARGILLITE GRIGIO-CHIARA TENERA ATTACCATICCIA CALCAREA CON RARE TRACCE DI SABBIA, CONCHIGLIE E PIRITE.

CLAYSTONE LIGHT GREY, SOFT, STICKY, CALCAREOUS, WITH OCCASIONAL LOOSE SAND GRAINS, SHELL FRAGMENTS AND RARE PYRITE

ARGILLITE COME SOPRA CON ABBONDANTI TRACCE DI CONCHIGLIE IN FRAMMENTI E MATERIALE CARBONACEO.

CLAYSTONE, LIGHT GREY, SOFT, STICKY CALCAREOUS SILTY WITH ABUNDANT SHELL FRAGMENTS, TRACES OF CARBONACEOUS MATERIAL



ARGILLITE C.S. CON GRANI DI SABBIA ARROTONDATI

CLAYSTONE, LIGHT GREY, SOFT, STICKY, CALCAREOUS, LOCALLY WITH LOOSE SAND GRAINS, FINE, ROUNDED

ARGILLITE CON MOLTI FRAMMENTI DI CONCHIGLIE

CLAYSTONE A/A WITH ABUNDANT SHELL FRAGMENTS

ARGILLITE C.S. MA ASSENZA DI CONCHIGLIE

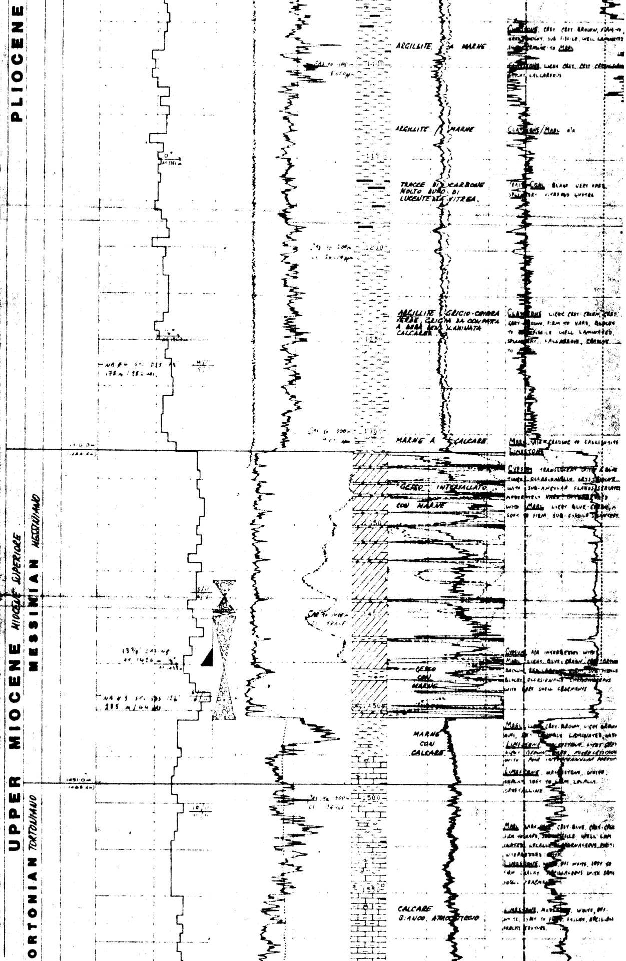
CLAYSTONE, LIGHT GREY, SOFT, SEMI CALCAREOUS SHELL FRAGMENTS ABSENT, BECOMING FIRM

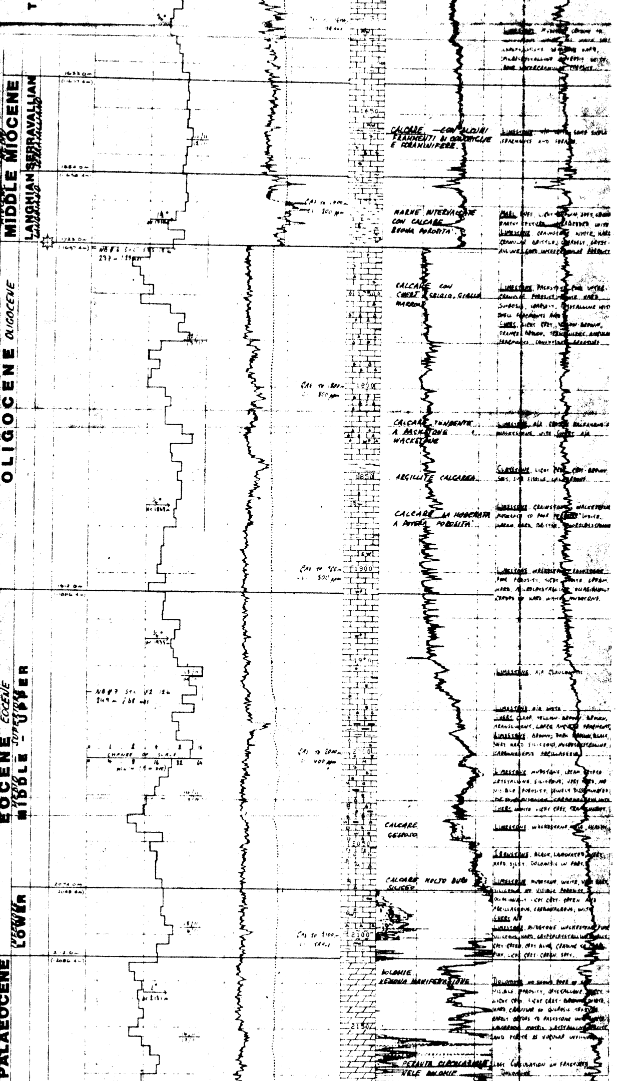
ARGILLITE C.S. CON SOTTILI INTERVALLI DI LIGNITE MARRON SCURA A NERA, DURA.

CLAYSTONE, LIGHT GREY, SOFT, STICKY, CALCAREOUS, WITH THIN LIGNITE, DARK BROWN to BLACK, BRITTLE

ARGILLITE CON QUALCHE TRACCIA DI CONCHIGLIE IN FRAMMENTI E PIRITE DISSEMINATA.

CLAYSTONE A/A OCCASIONAL SHELL FRAGMENTS AND DISSEMINATED PIRITE





LIMESTONE [illegible] HARD, MICROCRYSTALLINE [illegible] INTERGRANULAR POROSITY.

CALCARE CON ALCUNI FRAMMENTI DI CONCHIGLIE E FORAMINIFERE.

LIMESTONE [illegible] SOME SHELL FRAGMENTS AND [illegible].

MARNE INTERCALATE CON CALCARE BUONA POROSITA'.

MARL, SOFT, LIGHT BROWN, GREY, [illegible] EARTHY TEXTURE, INTERBEDDED WITH LIMESTONE, GRAINSTONE, WHITE, HARD, GRANULAR, BRITTLE, COARSELY CRYSTALLINE, GOOD INTERGRANULAR POROSITY.

CALCARE CON CHERT GRIGIO, GIALLO, MARRONE.

LIMESTONE, PACKSTONE, FAIR INTERGRANULAR POROSITY, WHITE, HARD, SUCROSIC, COARSELY CRYSTALLINE WITH SHELL FRAGMENTS AND CHERT, LIGHT GREY, YELLOW-BROWN, ORANGE BROWN, [illegible] FRAGMENTS, [illegible].

CALCARE TENDENTE A PACKSTONE E WACKESTONE

LIMESTONE A/A [illegible] WACKESTONE WITH CHERT A/A

ARGILLITE CALCAREA.

CLAYSTONE, LIGHT GREY, GREY-BROWN, SOFT, SUB FISSILE, CALCAREOUS.

CALCARE DA MODERATA A POVERA POROSITA'.

LIMESTONE, GRAINSTONE, WACKESTONE, MODERATE TO POOR POROSITY, WHITE, CREAM, HARD, BRITTLE, MICROCRYSTALLINE.

LIMESTONE, WACKESTONE - PACKSTONE, POOR POROSITY, LIGHT WHITE, CREAM, HARD, MICROCRYSTALLINE, OCCASIONALLY GRADING TO HARD WHITE MUDSTONE.

LIMESTONE. A/A GLAUCONITIC

LIMESTONE. A/A WITH CHERT CLEAR, YELLOW-BROWN, BROWN, TRANSLUCENT, LARGE [illegible] FRAGMENTS, LIMESTONE, BROWN, DARK BROWN, BLACK, VERY HARD SILICEOUS, MICROCRYSTALLINE, CARBONACEOUS, ARGILLACEOUS.

LIMESTONE MUDSTONE, CREAM, [illegible] CRYSTALLINE, SILICEOUS, VERY HARD, NO VISIBLE POROSITY, [illegible] DISSEMINATED [illegible] CARBONACEOUS [illegible] CHERT WHITE, LIGHT GREY, TRANSLUCENT.

CALCARE GESSOSO

LIMESTONE. WACKESTONE, A/A, [illegible]

IRONSTONE, BLACK, LAMINATED, VERY HARD, SILTY, DOLOMITIC IN PART.

CALCARE MOLTO DURO SILICEO

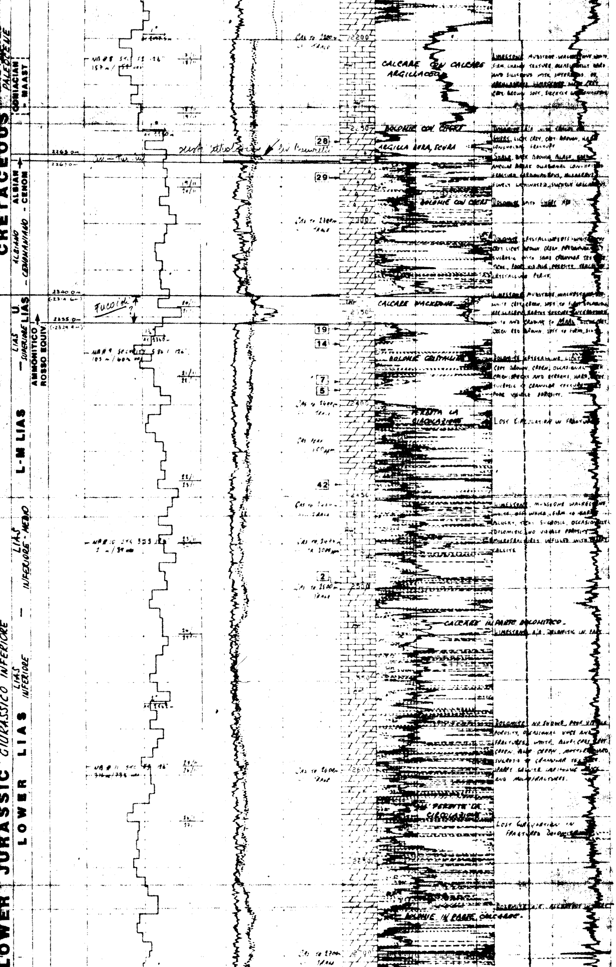
LIMESTONE. MUDSTONE, WHITE, VERY HARD, SILICEOUS, NO VISIBLE POROSITY, OCCASIONALLY LIGHT GREY-GREEN AND ARGILLACEOUS, CARBONACEOUS, WITH CHERT A/A
LIMESTONE. MUDSTONE, WACKESTONE, [illegible] SILICEOUS, HARD, CRYPTOCRYSTALLINE, [illegible] GREY GREEN, GREY BLUE, GRADING TO [illegible] PINK, LIGHT GREY-GREEN, SOFT.

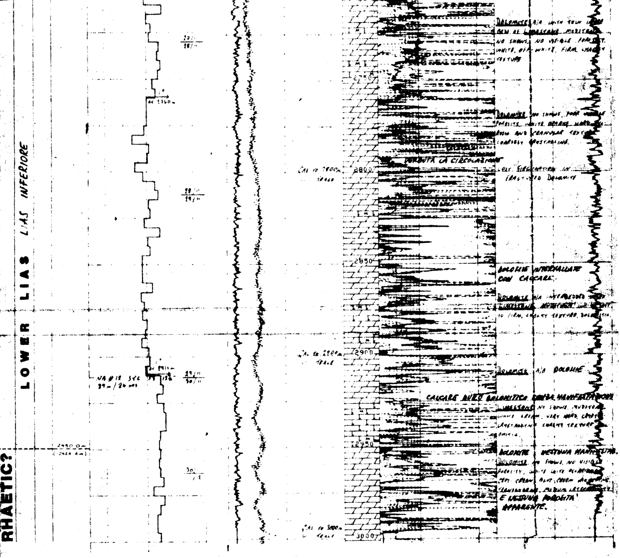
DOLOMIE NESSUNA MANIFESTAZIONE

DOLOMITE, NO SHOWS, POOR TO [illegible] VISIBLE POROSITY, CRYSTALLINE, [illegible] LIGHT GREY, LIGHT GREY-BROWN, WHITE, HARD, GRANULAR TO SUCROSIC TEXTURE, RARELY GRADES TO PACKSTONE [illegible] CALCAREOUS MATRIX, [illegible] AND PYRITE IN VUGULAR [illegible].

PERDITA CIRCOLAZIONE NELLE DOLOMIE

LOST CIRCULATION IN FRACTURED DOLOMITE





SUMMARY OF RFT RESULTS

RFT NO.	DEPTH M KB	FORMATION PRESSURE PSIG	PRESSURE GRADIENT PSI/M	SAMPLES
1	2,492.1	Tight	-	TAKEN AT 2,391 M RKB 2½ Gallon Chamber (filled first):- Time to fill : 13 minutes Recovered: 2½ gallons of medium brown water with H_2S odour. No Hydrocarbons. No gas. TAKEN AT 2,366 M RKB 1 Gallon Chamber Time to fill : 2½ hrs Recovered: 1 gallon medium brown water, H_2S odour. No Hydrocarbons. No gas. Both fluid samples were analysed as being mud filtrate.
2	2,497	3711?	1.486	
3	2,461	Tight		
4	2,422	Seal failure	-	
5	2,391	3473	1.453	
6	2,387	Seal failure		
7	[illegible]	3467	1.452	
8	2,377	Tight	-	
9	2,369	Seal failure	-	
10	2,368.7	Seal failure	-	
11	2,368.5	Seal failure	-	
12	2,370.5	Seal failure	-	
13	2,371.5	Seal failure	-	
14	2,366	3437	1.453	
15	2,366	Tight	-	
16	2,365.5	Tight	-	
17	2,366	3437	1.453	
18	2,357	Tight	-	
19	2,357.5	3424	1.452	
20	2,318	Tight	-	
21	2,317.5	Tight	-	
22	2,317	Seal failure	-	
23	2,317.3	Tight	-	
24	2,303	Tight	[illegible]	
25	2,292	Tight	-	
26	2,291.5	Tight		
27	2,258.5	Tight	-	
28	2,255.5	3276	1.452	
29	2,275.2	3437?	1.511	
30	2,275.2	Tight	-	
31	2,274.5	Seal failure	-	
32	2,274	Tight	-	
33	2,267.5	Seal failure	-	
34	2,268	Seal failure	-	
35	2,271	Seal failure	-	
36	2,271	Seal failure	-	
37	2,283.6	Seal failure	-	
38	2,310.5	Seal failure	-	
39	2,442.5	Tight	-	
40	2,456	Tight	-	
41	2,453.5	Seal failure	-	
42	2,442.4	3549	1.453	
43	2,404.7	Seal failure	-	
44	2,404.7	Seal failure	-	
45	2,404.4	Tight	-	
46	2,383	Tight	-	

STELLA -1

CONOCO IDROCARBURI SpA