

MASTER LOG



MLM

OPERATOR S. A. R. M.

Società Adriatica Ricerche Minerarie / SpA

WELL S. PIETRO AL NATISONE 1

STATE ITALIA

FIELD or DISTRICT

LOCATION Lat 46° 07' 8.65" Longi. 12° 07' 50" E

ELEVATION KB

SPUDDED on _____ TD _____

DEPTH from 0 to 230

SCALE 1: 500° UNIT N° 1

ENGINEERS RENAUD BERNARD

Each horizontal division equal 2 Meters

LEGEND

MUD DATA

- W. Weight in lb/Gal
- V Viscosity
- WL Filtrate in cc
- FC Filter Cake
- Cl Chloride Cont. in ppm
- Rm. Mud Resistivity in Ω m/m²
- Rmf. Mud Filtrate Resistiv. in Ω m/m²

DRILLING LEGEND

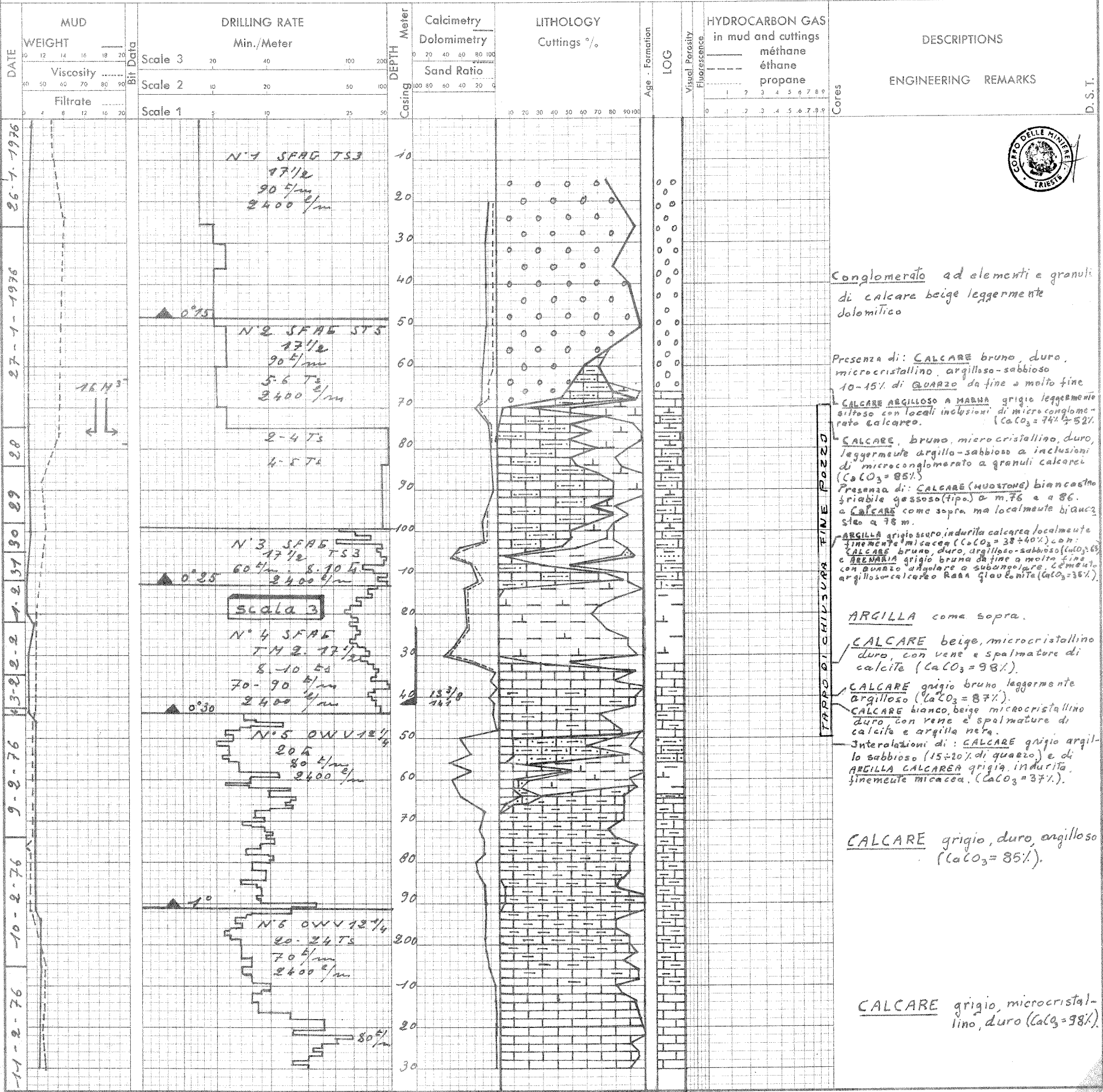
- NB New Bit
- RRB Rerun Bit
- DB Diamond Bit
- TB Turbo Drill
- CB Core Bit
- DCB Diamond Core Bit
- DS Deviation Survey
- W/B Weight on bit
- RPM Rotation (Revol/min)
- LC Lost Circulation
- NR No Returns
- TG Trip Gas

LITHOLOGY LEGEND

- Sand. Sandstone
- Silt
- Quartzite
- Conglomerate
- Shale. Clay
- Silty shale
- MARNA ARGILLA CALCAREA.
- Limestone
- Ool limestone
- Dolomite
- Salt
- Gypsum
- Anhydrite
- Coal. Lignite
- Chert
- Métamorphic rock (Gneiss....)
- Extrusive rock (Basalt....)
- Intrusive rock (Granite....)

ENGINEERING LEGEND

- C1 Core N°1
- rec. 95% recovery 95%
- DST1 Drill Stem Test N°1
- Dry
- ⊕ Water
- Oil
- ☼ Gas



Conglomerato ad elementi e granuli di calcare beige leggermente dolomitico

Presenza di: CALCARE bruno, duro, microcristallino, argilloso-sabbioso 10-15% di QUARZO da fine a molto fine

CALCARE ARGILLOSO a MARNA grigio leggermente siltoso con locali inclusioni di microconglomerato calcareo. (CaCO₃ = 74% ± 5%)

CALCARE, bruno, microcristallino, duro, leggermente argilloso-sabbioso a inclusioni di microconglomerato a granuli calcarei (CaCO₃ = 85%)

Presenza di: CALCARE (MUDSTONE) biancastro friabile gessoso (tip.) a m. 76 e a 86. a CALCARE come sopra, ma localmente biancastra a 78 m.

ARGILLA grigio scuro, indurita calcarea localmente finemente micacea (CaCO₃ = 38-40%) con: CALCARE bruno, duro, argilloso-sabbioso (CaCO₃ 69) e ARENARIA grigio bruno da fine a molto fine con QUARZO angolare e subangolare, cemento argilloso-calcareo RARA glauconite (CaCO₃ = 35%).

ARGILLA come sopra.

CALCARE beige, microcristallino duro, con vene e spalmature di calcite (CaCO₃ = 98%).

CALCARE grigio bruno leggermente argilloso (CaCO₃ = 87%).

CALCARE bianco, beige microcristallino duro con vene e spalmature di calcite e argilla nera.

Interpolazioni di: CALCARE grigio argilloso sabbioso (15-20% di quarzo) e di ARGILLA CALCAREA grigia indurita, finemente micacea. (CaCO₃ = 37%).

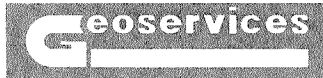
CALCARE grigio, duro, argilloso (CaCO₃ = 85%).

CALCARE grigio, microcristallino, duro (CaCO₃ = 98%).

TARPO DI CHIUSURA FINE POZZO



MASTER LOG



MLM

OPERATOR J. A. R. M.

WELL S. PIETRO AL NATISONE 1

STATE ITALIA

FIELD or DISTRIC

LOCATION lat 46°07'06.5" Longi 1°01'08.50" E

ELEVATION KB

SPUDDED on _____ TD _____

DEPTH from 230 to 460

SCALE 1: 500° UNIT N° 2

ENGINEERS RENAUD BERNARD

Each horizontal division equal 2 Meters

LEGEND

MUD DATA

- W. Weight in lb/Gal
- V Viscosity
- WL Filtrate in cc
- FC Filter Cake
- Cl Chloride Cont. in ppm
- Rm. Mud Resistivity in Ω m/m²
- Rmf. Mud Filtrate Resistiv. in Ω m/m²

DRILLING LEGEND

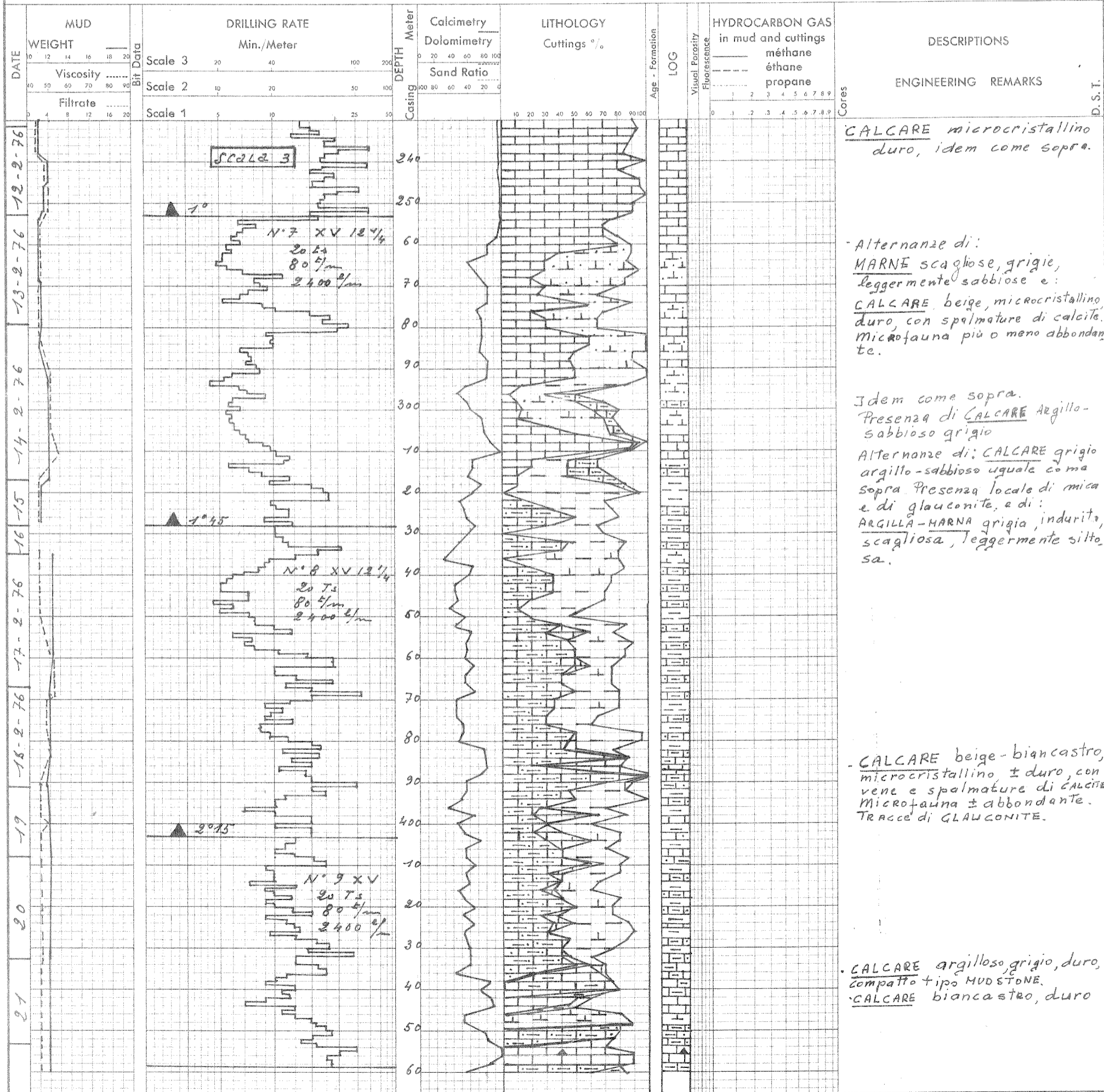
- NB New Bit
- RRB Rerun Bit
- DB Diamond Bit
- TB Turbo Drill
- CB Core Bit
- DCB Diamond Core Bit
- DS Deviation Survey
- W/B Weight on bit
- RPM Rotation (Revol/min)
- LC Lost Circulation
- NR No Returns
- TG Trip Gas

LITHOLOGY LEGEND

- Sand. Sandstone
- Silt
- Quartzite
- Conglomerate
- Shale. Clay
- Silty shale
- Limestone
- Ool limestone
- Dolomite
- Salt
- Gypsum
- Anhydrite
- Coal. Lignite
- Chert
- Métamorphic rock (Gneiss....)
- Extrusive rock (Basalt....)
- Intrusive rock (Granite....)

ENGINEERING LEGEND

- C1 Core N°1
- rec. 95% recovery 95%
- DST1 Drill Stem Test N°1
- Dry
- ⊕ Water
- Oil
- ☀ Gas



MASTER LOG



MLM

OPERATOR *SARM*

WELLS *PIETRO AL NATISONE 1*

STATE *ITALIA*

FIELD or DISTRICT

LOCATION lat *46°02'26.5"* long *1°01'35.0" E*

ELEVATION KB

SPUDED on _____ TD

DEPTH from *460* to *690*

SCALE 1:500° UNIT N° *3*

ENGINEERS *RENAUD BERNARD*

Each horizontal division equal 1 Meter

LEGEND

LITHOLOGY LEGEND

MUD DATA

- W. Weight in lb/Gal
- V Viscosity
- WL Filtrate in cc
- FC Filter Cake
- Cl Chloride Cont. in ppm
- Rm. Mud Resistivity in Ω m/m²
- Rmf. Mud Filtrate Resistiv. in Ω m/m²

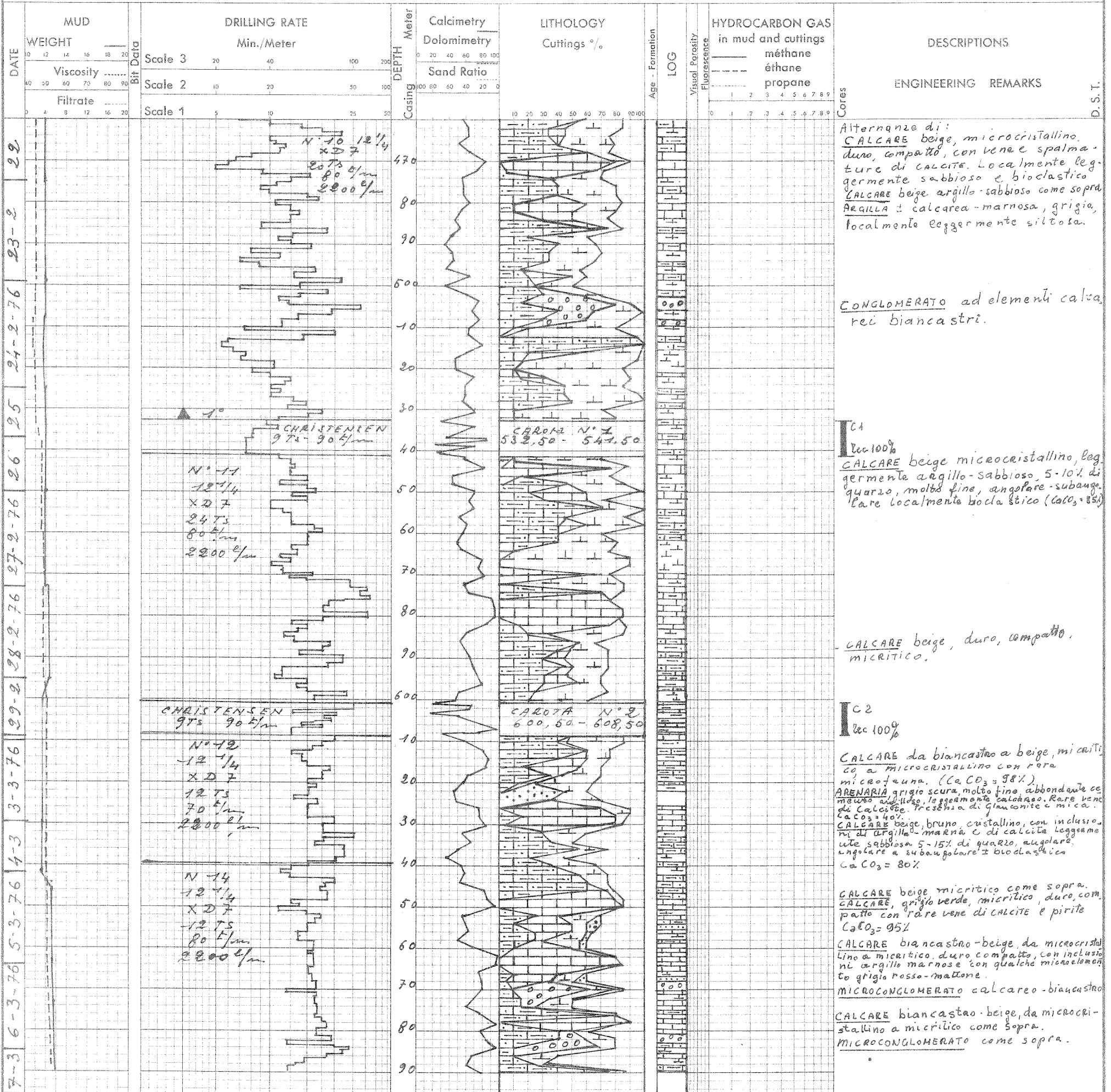
DRILLING LEGEND

- NB New Bit
- RRB Rerun Bit
- DB Diamond Bit
- TB Turbo Drill
- CB Core Bit
- DCB Diamond Core Bit
- DS Deviation Survey
- W/B Weight on bit
- RPM Rotation (Revol/min)
- LC Lost Circulation
- NR No Returns
- TG Trip Gas

- Sand. Sandstone
- Silt
- Quartzite
- Conglomerate
- Shale. Clay
- Silty shale
- Limestone
- Ool limestone
- Dolomite
- Salt
- Gypsum
- Anhydrite
- Coal. Lignite
- Chert
- Métamorphic rock (Gneiss...)
- Extrusive rock (Basalt...)
- Intrusive rock (Granite...)

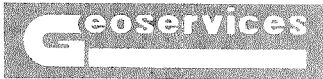
ENGINEERING LEGEND

- C1 Core N°1
- rec. 95% recovery 95%
- DST1 Drill Stem Test N°1
- Dry
- Water
- Oil
- Gas



MASTER LOG

OPERATOR *SARM*



MLM

WELL *S. PIETRO AL NATISONE*

STATE *ITALIA*

FIELD or DISTRICT

LOCATION lat *46°07'865* Longi- *1°01'850 E*

ELEVATION KB

SPUDED on _____ TD

DEPTH from *690* to *920*

SCALE 1:500° UNIT N° *4*

ENGINEERS *RENATO BERNARD*

Each horizontal division equal 2 Meters

MUD DATA

- W. Weight in lb/Gal
- V Viscosity
- WL Filtrate in cc
- FC Filter Cake
- Cl Chloride Cont. in ppm
- Rm. Mud Resistivity in $\Omega m/m^2$
- Rmf. Mud Filtrate Resistiv. in $\Omega m/m^2$

DRILLING LEGEND

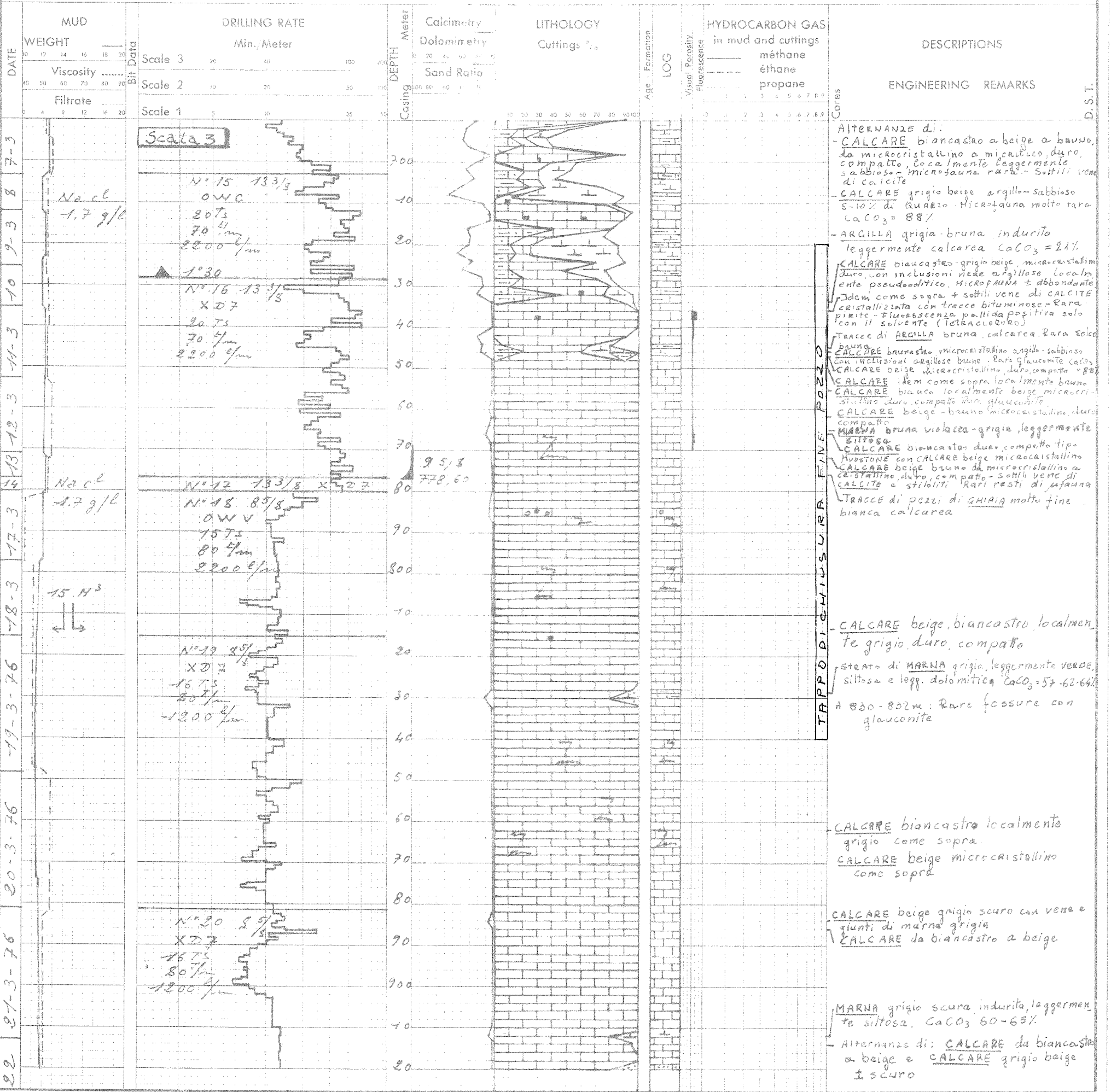
- NB New Bit
- RRB Rerun Bit
- DB Diamond Bit
- TB Turbo Drill
- CB Core Bit
- DCB Diamond Core Bit
- DS Deviation Survey
- W/B Weight on bit
- RPM Rotation (Revol./min)
- LC Lost Circulation
- NR No Returns
- TG Trip Gas

LITHOLOGY LEGEND

- Sand. Sandstone
- Silt
- Quartzite
- Conglomerate
- Shale. Clay
- Silty shale
- MARL
- Limestone
- Ool limestone
- Dolomite
- Salt
- Gypsum
- Anhydrite
- Coal. Lignite
- Chert
- Pyrite
- Métamorphic rock (Gneiss...)
- Extrusive rock (Basalt...)
- Intrusive rock (Granite...)

ENGINEERING LEGEND

- C1 Core N°1
- rec. 95% recovery 95%
- DST1 Drill Stem Test N°1
- Dry
- Water
- Oil
- Gas



MASTER LOG



MLM

OPERATOR SARM

WELL S. PIETRO AL NATISONE

STATE ITALIA
 FIELD or DISTRICT _____
 LOCATION lat 46°07'36.5" Longi 12°04'36.0" E
 ELEVATION KB _____
 SPUDDED on _____ TD _____
 DEPTH from 920 to 1150
 SCALE 1: 500° UNIT N° 5
 ENGINEERS MUSSINI SERGIO

Each horizontal division equal 9. Meters.

MUD DATA

- W. Weight in lb/Gal
- V Viscosity
- WL Filtrate in cc
- FC Filter Cake
- Cl Chloride Cont. in ppm
- Rm. Mud Resistivity in Ω m/m²
- Rmf. Mud Filtrate Resistiv. in Ω m/m²

DRILLING LEGEND

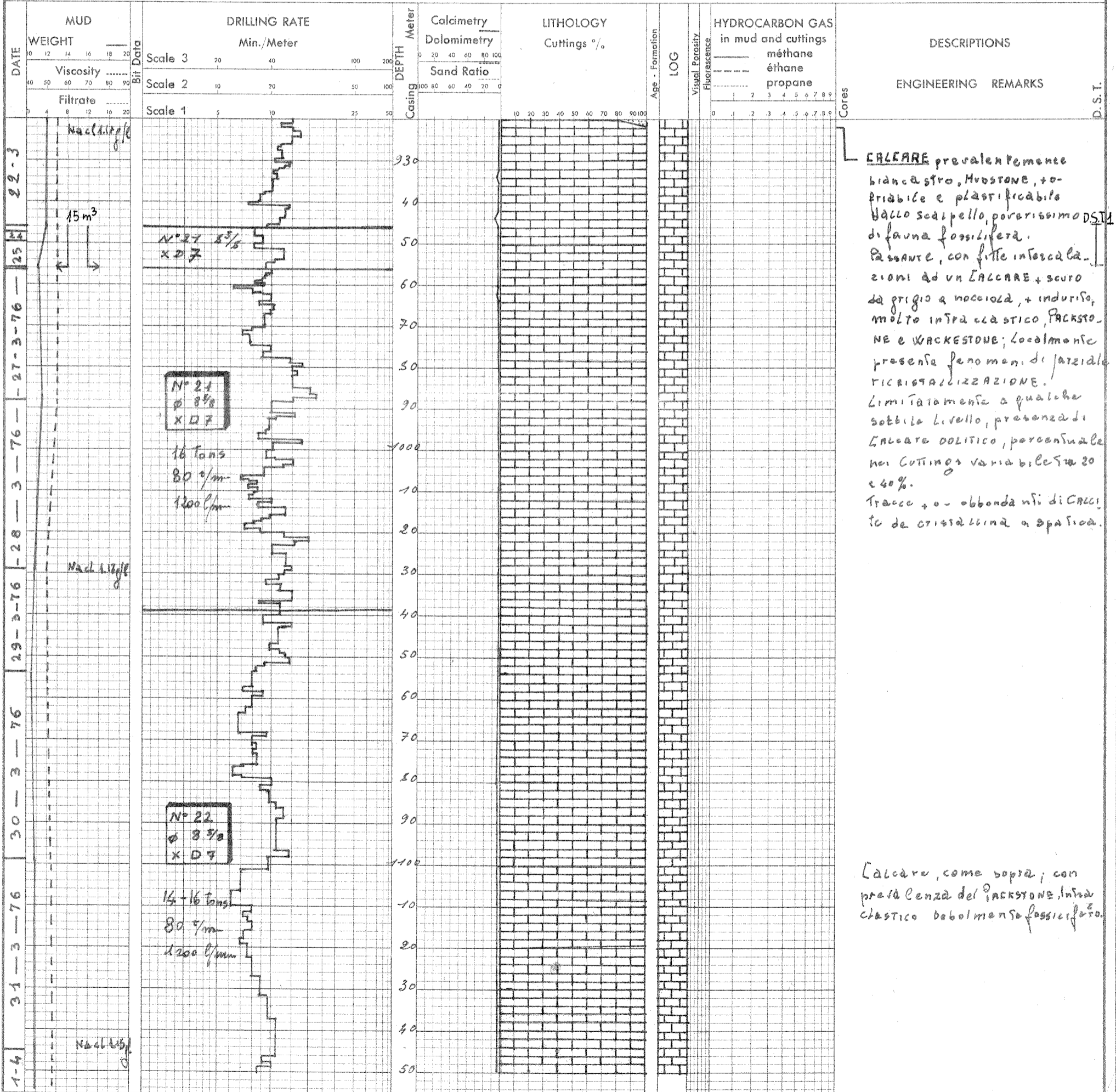
- NB New Bit
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- TB Turbo Drill
- CB Core Bit
- DCB Diamond Core Bit
- DS Deviation Survey
- W/B Weight on bit
- RPM Rotation (Revol/min)
- LC Lost Circulation
- NR No Returns
- TG Trip Gas

LITHOLOGY LEGEND

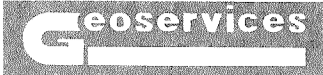
- Sand, Sandstone
- Silt
- Quartzite
- Conglomerate
- Shale, Clay
- Silty shale
- Limestone
- Ool limestone
- Dolomite
- Salt
- Gypsum
- Anhydrite
- Coal, Lignite
- Chert
- Métamorphic rock (Gneiss...)
- Extrusive rock (Basalt...)
- Intrusive rock (Granite...)

ENGINEERING LEGEND

- C1 Core N°1 rec. 95% recovery 95%.
- DST1 Drill Stem Test N°1
- Dry
- Water
- Oil
- Gas



MASTER LOG



MLM

OPERATOR SARM

WELL S. PIETRO AL NATISONE

STATE ITALIA
 FIELD or DISTRICT _____
 LOCATION lat 46° 07' 45" S Longi 1° 01' 50" E
 ELEVATION KB _____
 SPUDDED on _____ TD _____
 DEPTH from 1150 to 1380
 SCALE 1:500° UNIT N° 6
 ENGINEERS MUSSINI SERGIO

Each horizontal division equal 1 Meter

LEGEND

MUD DATA

- W. Weight in lb/Gal
- V Viscosity
- WL Filtrate in cc
- FC Filter Cake
- Cl Chloride Cont. in ppm
- Rm. Mud Resistivity in $\Omega \cdot m/m^2$
- Rmf. Mud Filtrate Resistiv. in $\Omega \cdot m/m^2$

DRILLING LEGEND

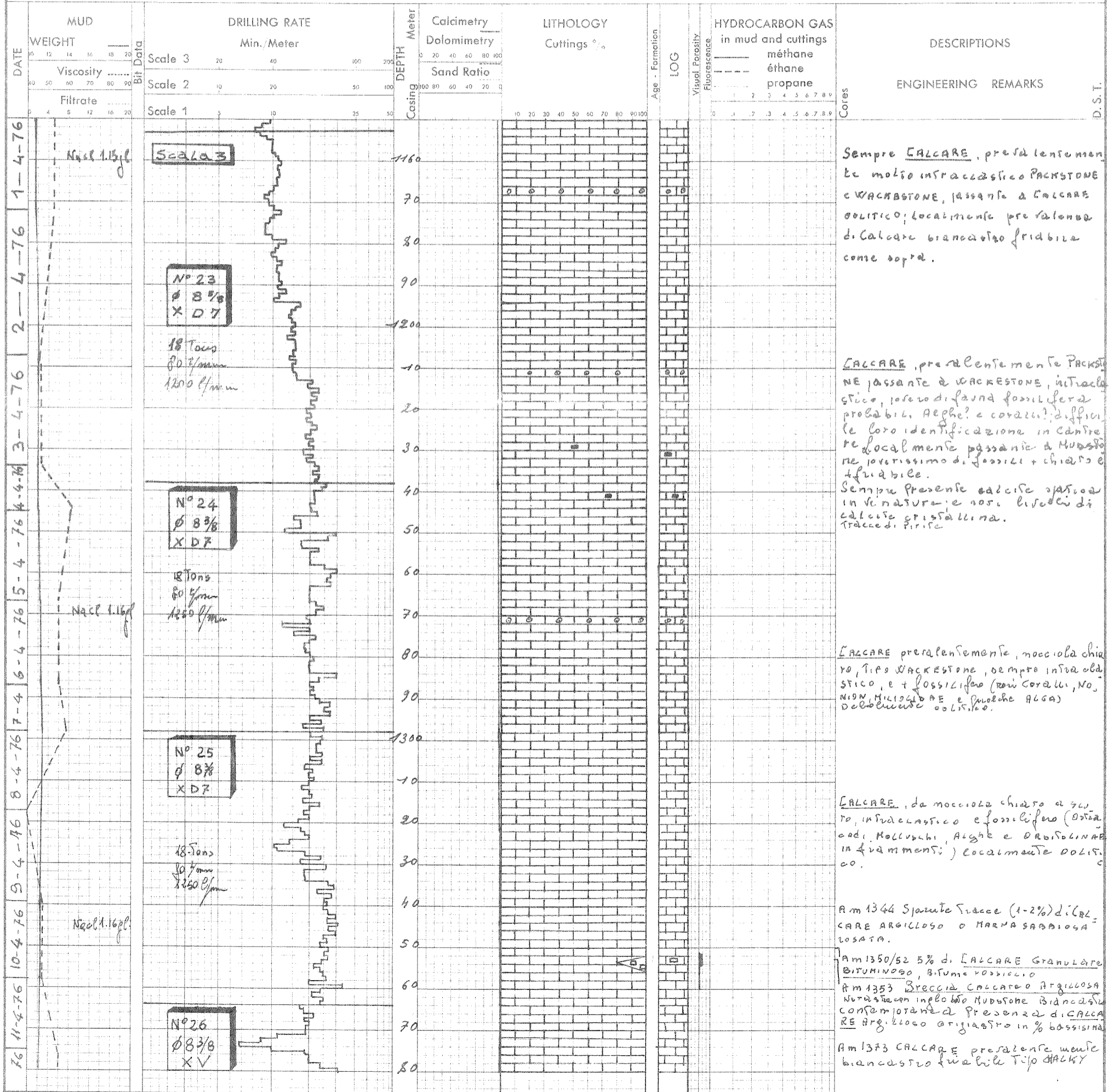
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- W/B Weight on bit
- RPM Rotation (Revol/min)
- LC Lost Circulation
- NR No Returns
- TG Trip Gas

LITHOLOGY LEGEND

- Sand. Sandstone
- Silt
- Quartzite
- Conglomerate
- Shale. Clay
- Silty shale
- Elementi Breccia
- Limestone
- Ool limestone
- Dolomite
- Salt
- Gypsum
- Anhydrite
- Coal. Lignite
- Chert
- Pyrite
- Métamorphic rock (Gneiss....)
- Extrusive rock (Basalt....)
- Intrusive rock (Granite....)

ENGINEERING LEGEND

- C1 Core N°1
- rec. 95% recovery 95%
- DST1 Drill Stem Test N°1
- Dry
- Water
- Oil
- Gas



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