

COMMITTENTE:



ALTA SORVEGLIANZA:



GENERAL CONTRACTOR:



**INFRASTRUTTURE FERROVIARIE STRATEGICHE DEFINITE DALLA LEGGE OBIETTIVO N. 443/01  
LINEA A.V. /A.C. TORINO – VENEZIA Tratta MILANO – VERONA  
Lotto Funzionale Brescia-Verona  
PROGETTO DEFINITIVO**

**CRITERI PROVE PENETROMETRICHE  
STATICHE**

**CAMPAGNA INDAGINE 1992-1994**

**Da km112+000 a 121+000 Linea A.C./A.V.**

IL PROGETTISTA INTEGRATORE  
**saipem spa**  
Tommaso Tarantè

Dottore in Ingegneria Civile Iscritto all'Albo degli Ingegneri della Provincia di Milano al n. A23763 - Sez. A Settori: a) civile e ambientale b) industriale c) dell'informazione  
Tel. 02.52020511 Fax: 02.52020309 CF. e P.IVA: 0083708137

IL PROGETTISTA  
**saipem spa**  
Tommaso Tarantè

Dottore in Ingegneria Civile Iscritto all'Albo degli Ingegneri della Provincia di Milano al n. A23763 - Sez. A Settori: a) civile e ambientale b) industriale c) dell'informazione  
Tel. 02.52020511 Fax: 02.52020309 CF. e P.IVA: 0083708137

ALTA SORVEGLIANZA



Verificato	Data	Approvato	Data

COMMESSA LOTTO FASE ENTE TIPO DOC. OPERA/DISCIPLINA PROGR. REV.

I	N	0	5	0	0	D	E	2	R	I	I	D	0	0	0	2	0	1	0	0
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PROGETTAZIONE GENERAL CONTRACTOR									Autorizzato/Data
Rev.	Data	Descrizione	Redatto	Data	Verificato	Data	Approvato	Data	
0	31.03.14	Emissione per CdS	M.	31.03.14		31.03.14	LAZZARI	31.03.14	Consorzio <b>Cepav due</b> Project Director (Ing. E. Lombardi)
									Data: _____

SAIPEM S.p.a. COMM. 032121

Data: 31.03.14

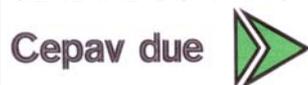
Doc. N.: 030756\_00.doc



Progetto cofinanziato dalla Unione Europea

CUP: F81H9100000008

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N. 03756\_00

Progetto  
IN05Lotto  
00Codifica Documento  
DE2SGGE0001004Rev.  
0Foglio  
2 di 35

Codice Prova	N° Tavola Planimetrica	Progressiva	Descrizione Prova	Tratta
DP607	Tavola 19	112+310	Prova Penetrometrica Statica (CPTe)	Linea A.C./A.V.
DP608	Tavola 19	112+890	Prova Penetrometrica con Piezocono (CPTU)	Linea A.C./A.V.
DP609	Tavola 20	113+875	Prova Penetrometrica Statica (CPTe)	Linea A.C./A.V.
DP611	Tavola 20	114+590	Prova Penetrometrica Statica (CPTe)	Linea A.C./A.V.
DP612	Tavola 20	115+225	Prova Penetrometrica con Piezocono (CPTU) Prova Penetrometrica di Dissipazione (PPD)	Linea A.C./A.V.
DP613	Tavola 20	115+545	Prova Penetrometrica Statica (CPTe)	Linea A.C./A.V.
DP614	Tavola 20	116+030	Prova Penetrometrica Statica (CPTe)	Linea A.C./A.V.
DP615	Tavola 20	116+500	Prova Penetrometrica Statica (CPTe)	Linea A.C./A.V.
DP616	Tavola 20	116+950	Prova Penetrometrica con Piezocono (CPTU) Prova Penetrometrica di Dissipazione (PPD)	Linea A.C./A.V.
DP619	Tavola 21	117+950	Prova Penetrometrica Statica (CPTe)	Linea A.C./A.V.
DP620	Tavola 21	118+220	Prova Penetrometrica con Piezocono (CPTU)	Linea A.C./A.V.
DP621	Tavola 21	118+820	Prova Penetrometrica Statica (CPTe)	Linea A.C./A.V.
DP622	Tavola 21	119+480	Prova Penetrometrica Statica (CPTe)	Linea A.C./A.V.
DP623	Tavola 21	119+900	Prova Penetrometrica Statica (CPTe)	Linea A.C./A.V.

GENERAL CONTRACTOR

Cepav due 

ALTA SORVEGLIANZA



Doc. N. 03756\_00

Progetto  
IN05Lotto  
00Codifica Documento  
DE2SGGE0001004Rev.  
0Foglio  
3 di 35

<b>Codice Prova</b>	<b>N° Tavola Planimetrica</b>	<b>Progressiva</b>	<b>Descrizione Prova</b>	<b>Tratta</b>
DP624	Tavola 21	120+280	Prova Penetrometrica con Piezocono (CPTU) Prova Penetrometrica di Dissipazione (PPD)	Linea A.C./A.V.
DP625	Tavola 21	120+640	Prova Penetrometrica Statica (CPTU)	Linea A.C./A.V.

**INDGEO**

S. GIUSEPPE - Via Roma 72/A  
Tel. (0533) - 380450  
Fax. (0533) - 380075

Amittente: CEPAY2

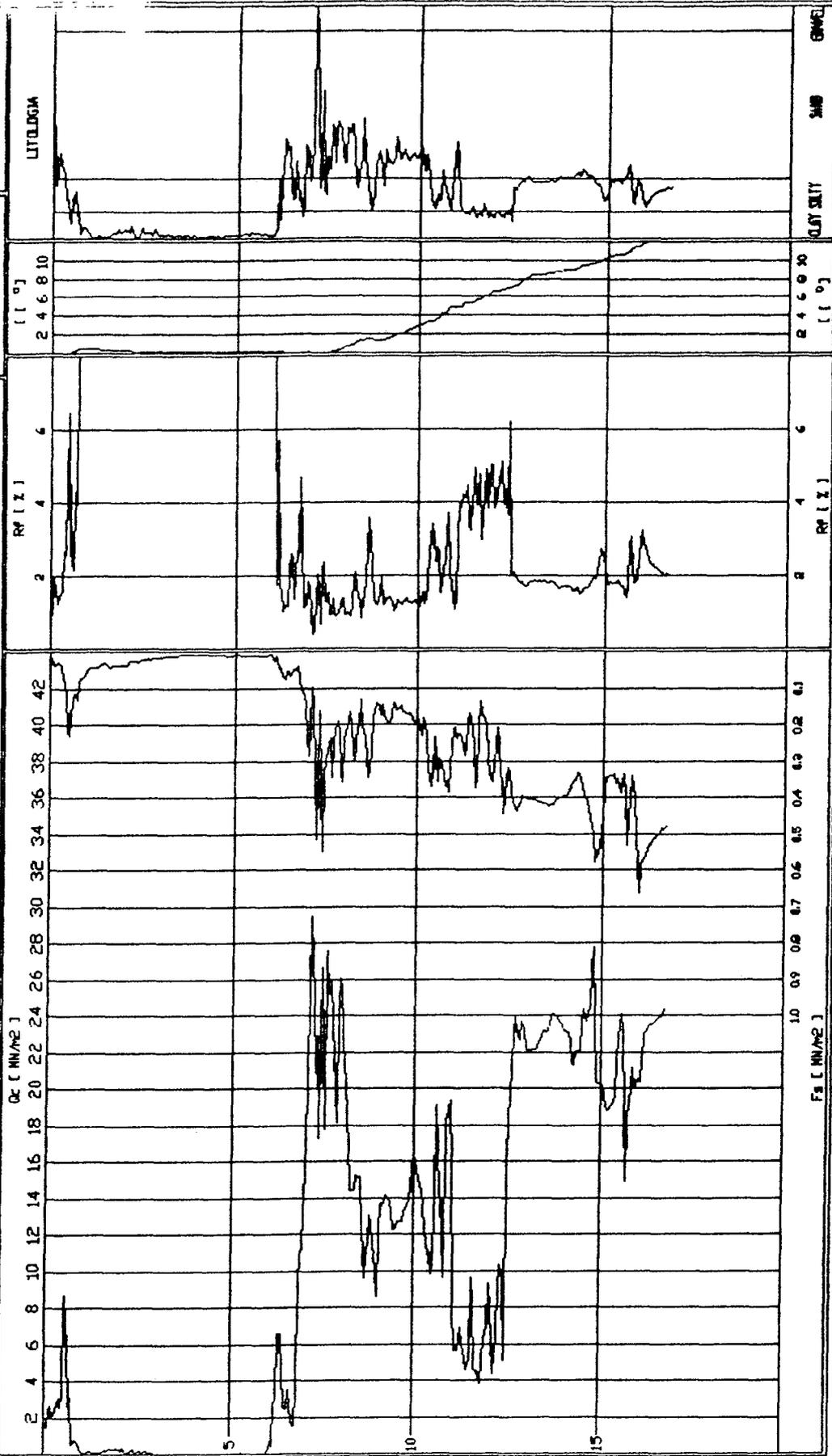
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Dir Lavori: DOTT SECHI

Data 07-09-92

Prof 187 (m)

Quota: (m)

CFTE  
607



INDGEO

S. GIUSEPPE - Via Roma 72/A  
Tel. (0533) - 380450  
Fax. (0533) - 380075

Amministrato: CEPAV2

Localita' : MONTONALE Km 91+800

Dir Lavori: DOTT BECHI

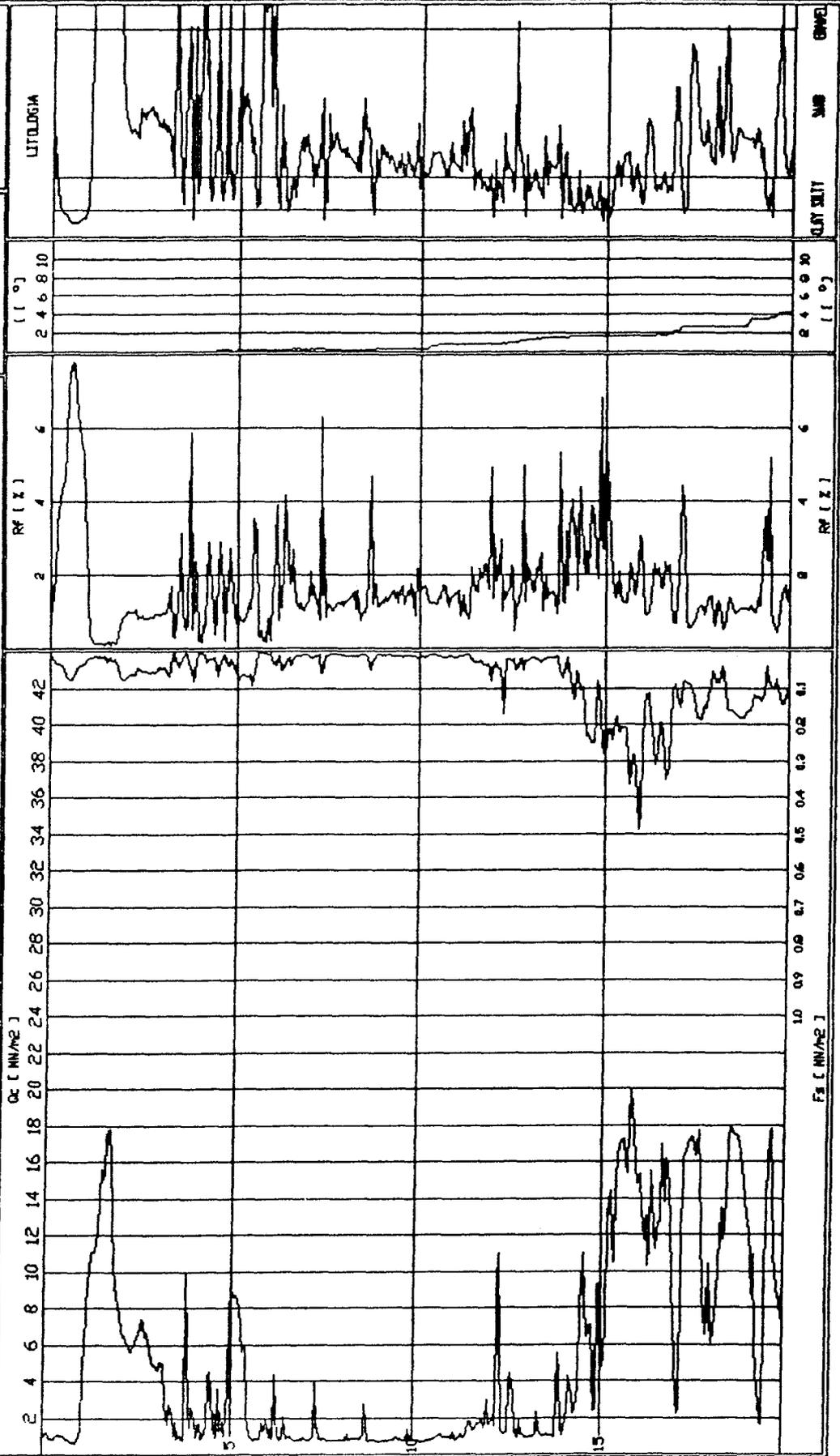
Data 07-09-92

Prof: 25 1 (m)

Quota: (m)

CPV

608



INDGEO

S. GIUSEPPE - Via Roma 72/A  
Tel. (0533) - 380450  
Fax. (0533) - 380075

mittente: CERAV2

Località: MONTONALE Km 91+800

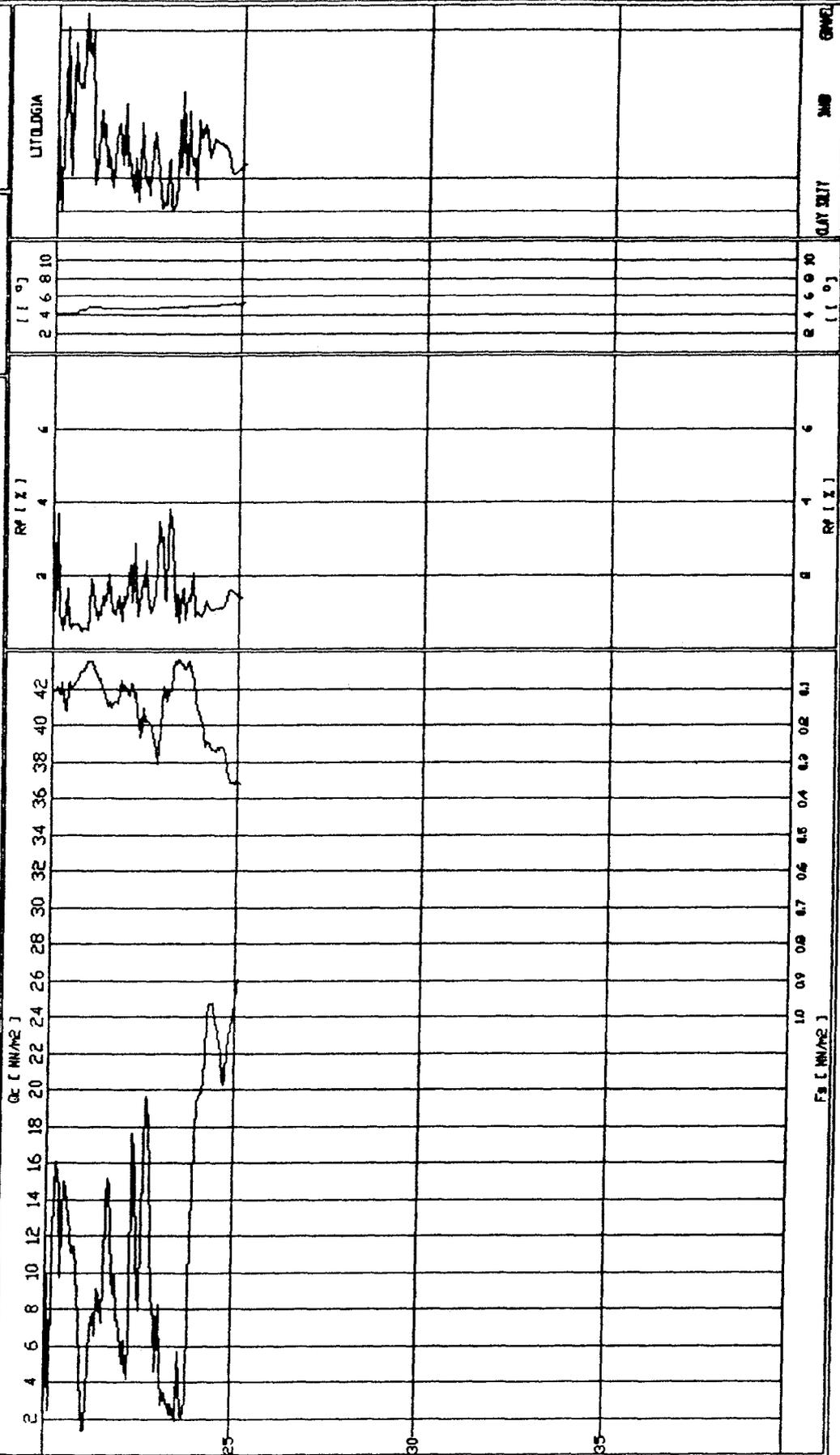
Dir Lavori: DOTT BECHI

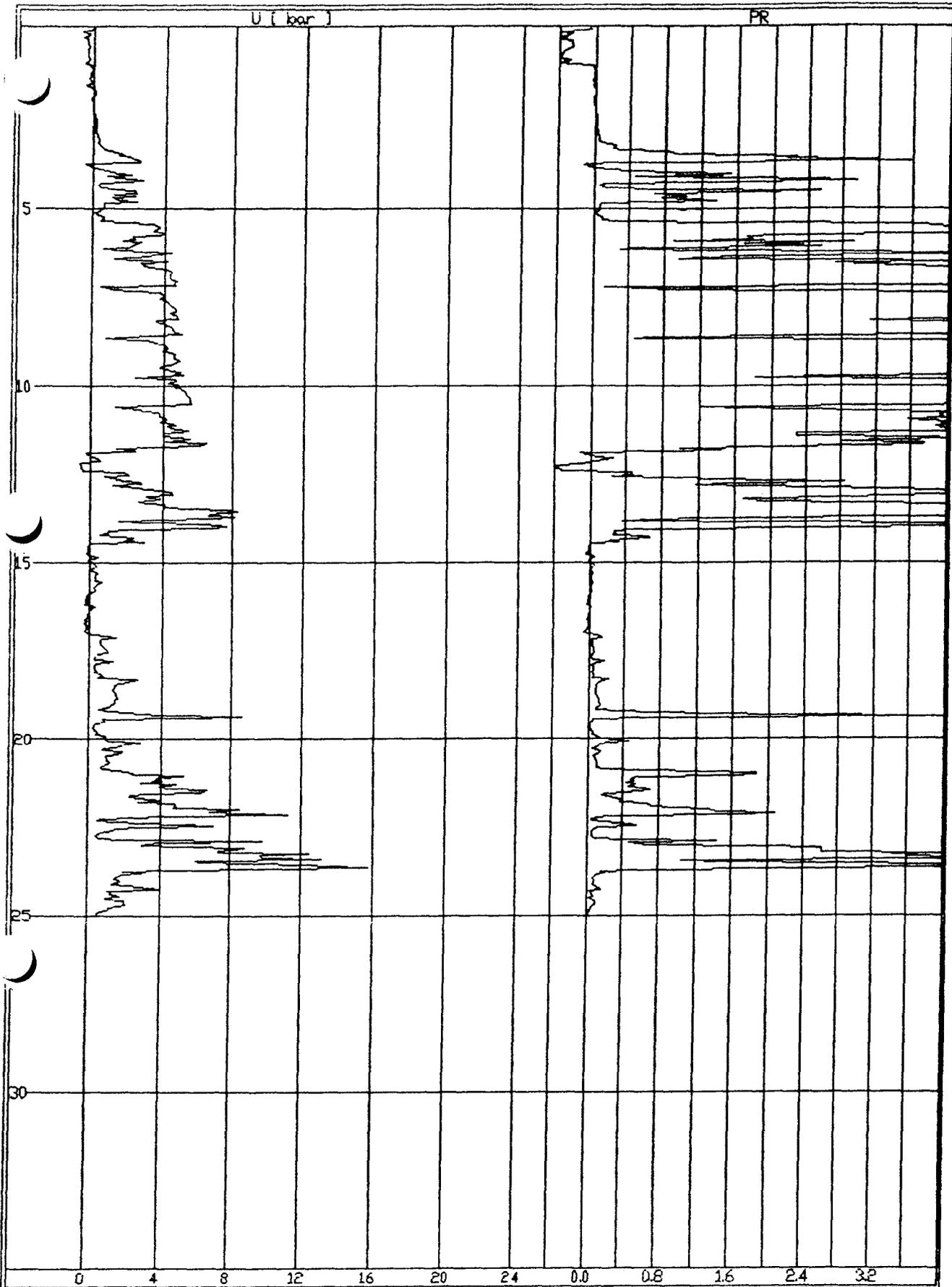
Data 07-09-92

Prof. 25 1 (m)

Quota: (m)

CFU  
608





**INDGEO**  
 S. GIUSEPPE - Via Rinaldi 72/A  
 Tel. (0533) - 360450  
 Fax (0533) - 360075

Committente: CEPAV2  
 Localita': MONTONALE Km 91+800  
 Dir. Lavori: DOTT. SECHI

Data : 07-09-92  
 Prof : 25.1 (m)  
 Quota (m)

**CPTU**  
**608**

INDGEO

S. GIUSEPPE - Via Roma 72/A  
Tel. (0533) - 380450  
Fax. (0533) - 380075

mittente: CEPAV2

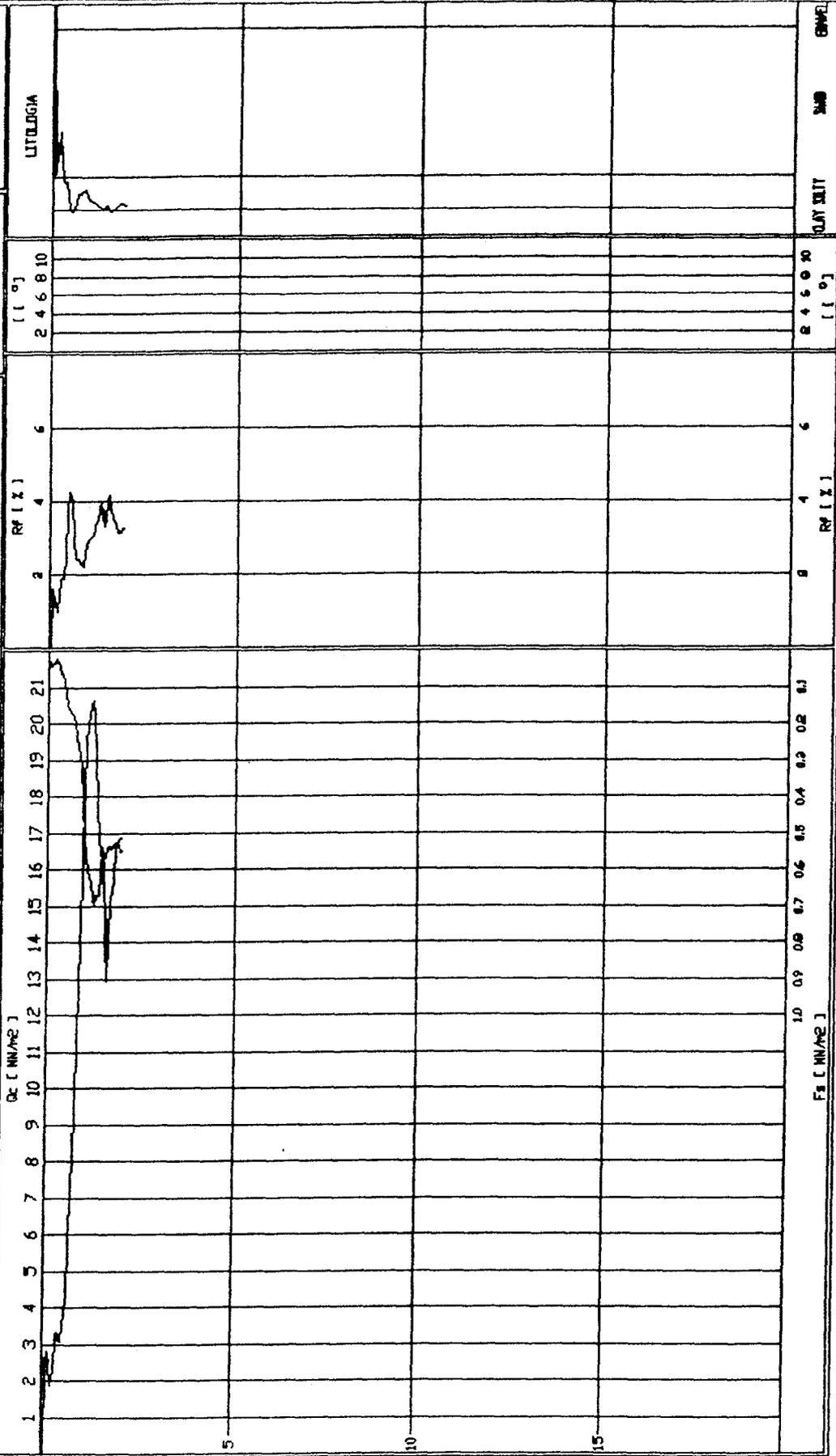
Località: MONTONALE Km 92+850  
Dir. Lavori: DOTT. SECHI

Data: 04-09-92

Prof.: 2 (m)

Quota: (m)

CFIE  
609



CFIE 609

INDGEO

S. GIUSEPPE - Via Roma 72/A  
Tel. (0533) - 380450  
Fax. (0533) - 380075

mittente: CEPAV2

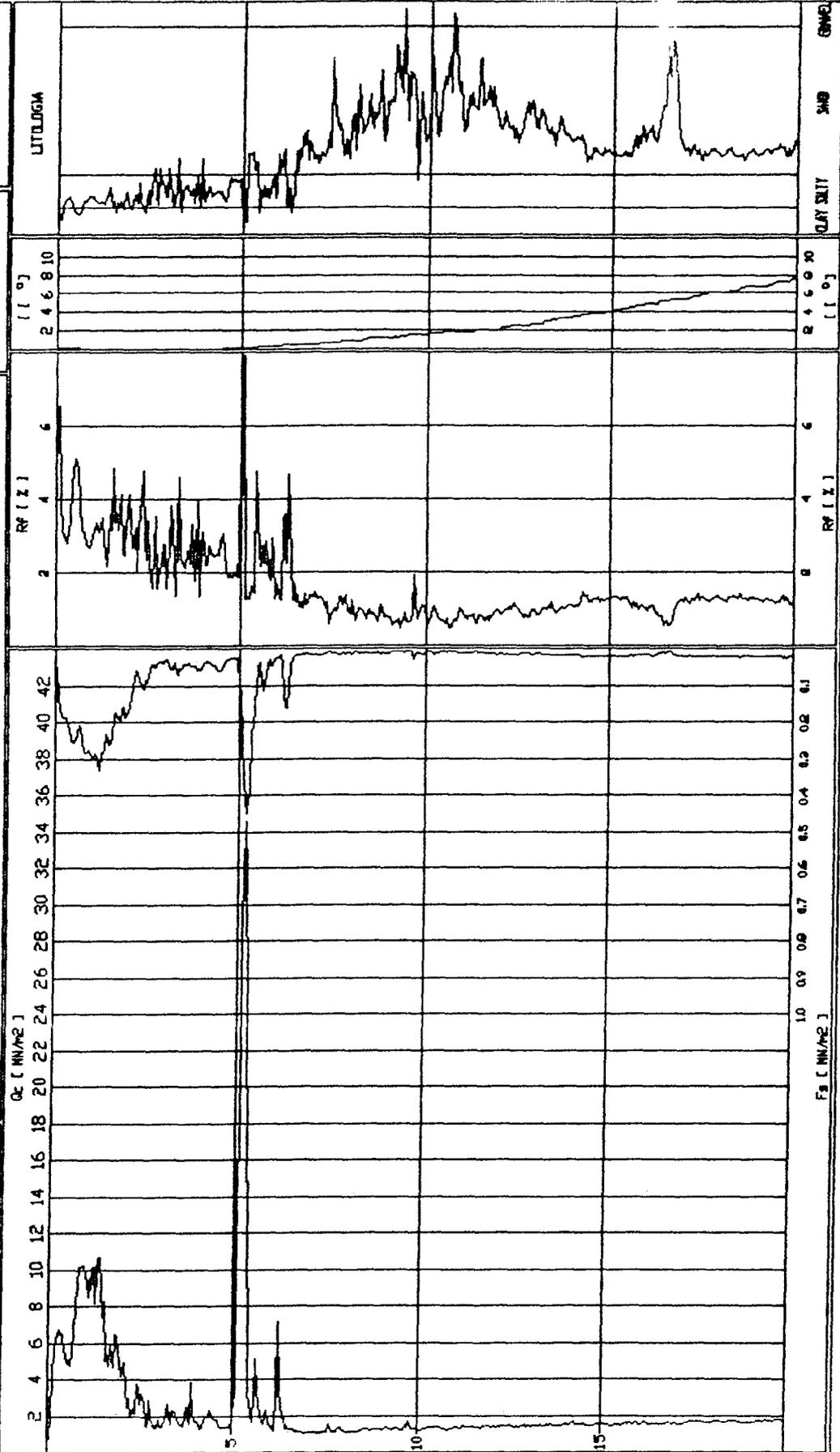
Localita' : MONTONALE Km 93+580  
Dir Lavori: DOTT SECHI

Date 04-09-92

Prof. 20 2 (m)

Quota: (m)

CFE  
611





INDGEO

S. GIUSEPPE - Via Roma 72/A  
Tel. (0533) - 380450  
Fax. (0533) - 380075

mittente: CEPAV2

Localita' : S MARTINO Km 94+200

Dir Lavori: DOTT BECHI

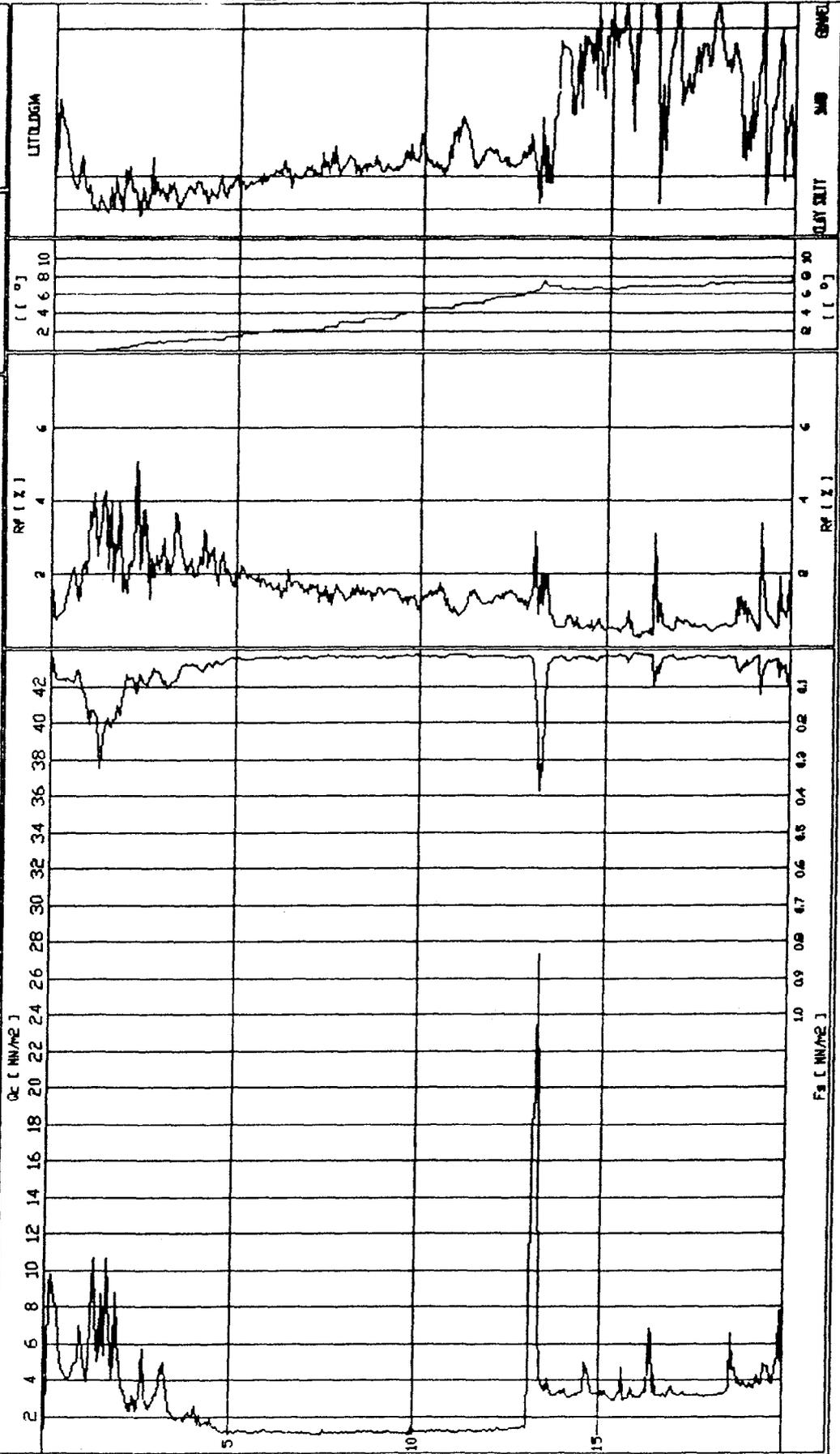
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Prof 25 1 (m)

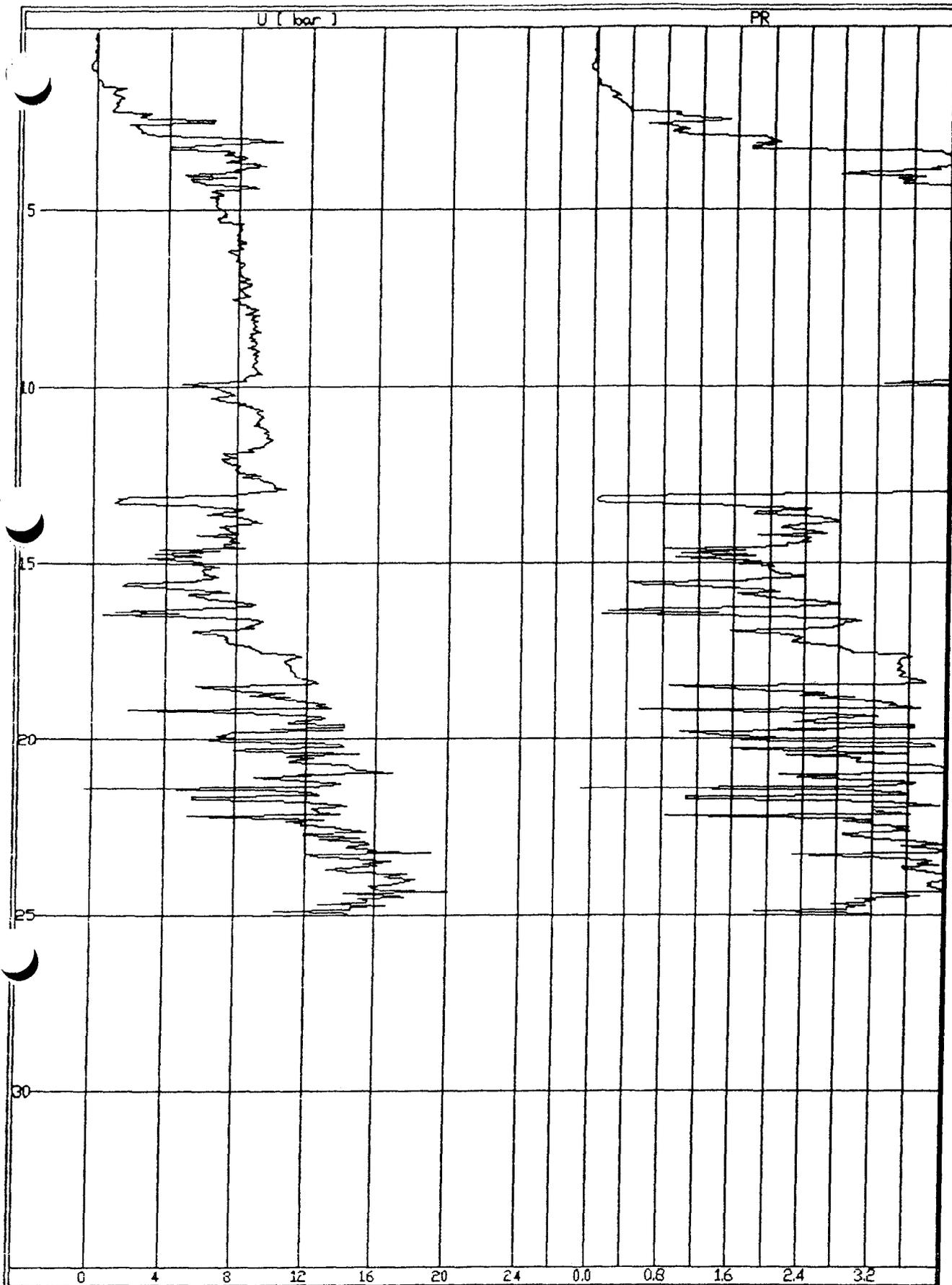
Quota: (m)

CFIU

612







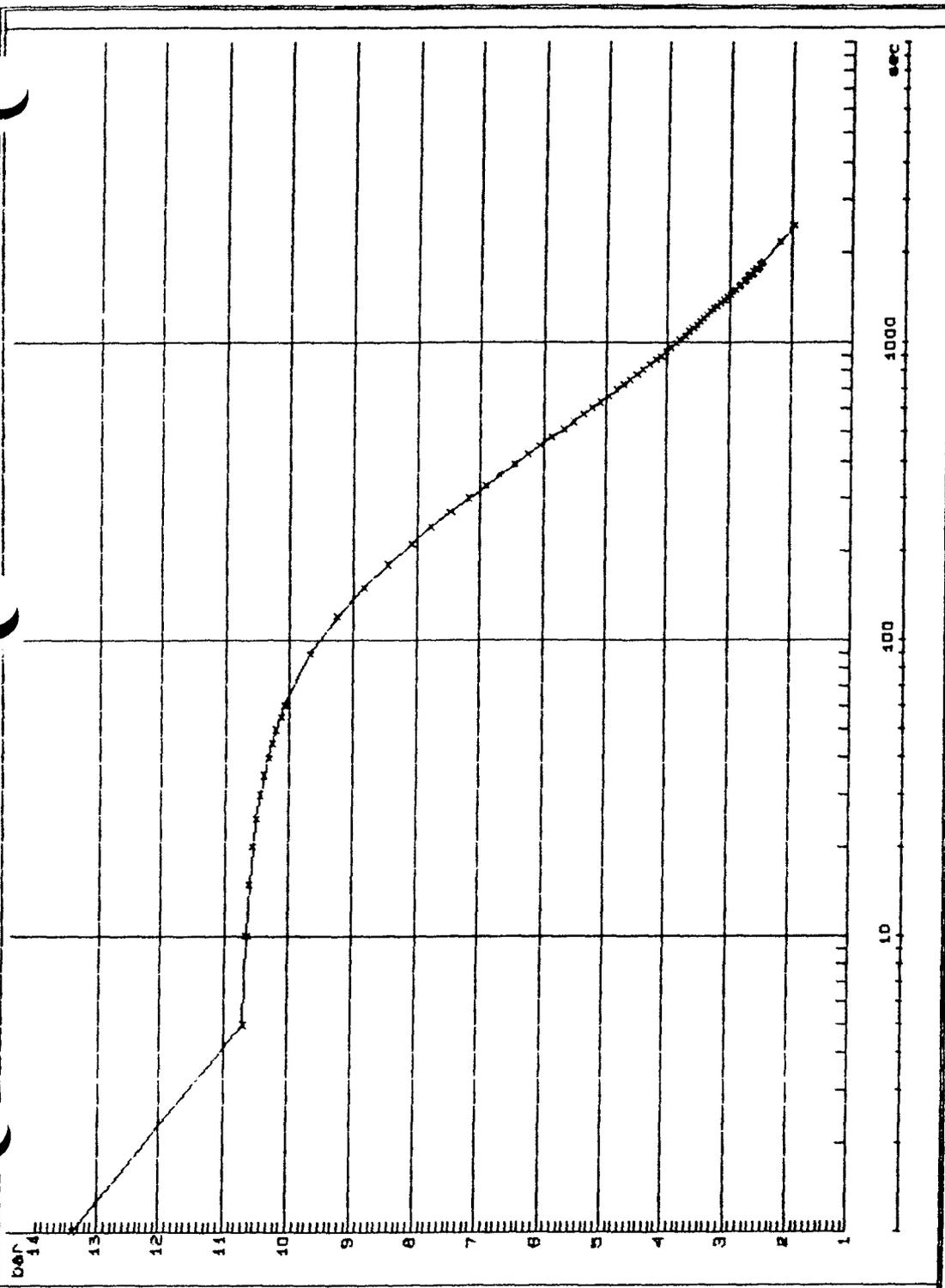
**INDGEO**

S GIUSEPPE - Via Ronca 72/A  
 Tel. (0533) - 360450  
 (0533) - 360075

Committente: CEPAVZ  
 Località: S MARTINO Km 94+200  
 Dir. Lavori: DOTT SECHI

Data: 03-09-92  
 Prof: 25.1 (m)  
 Quota (m)

**CPTU**  
**612**



**INDGEO**

S. GIUSEPPE - Via Roma 72/A  
 Tel. (0533) - 380450  
 Fax. (0533) - 380075

Committente: CEPAY2

Localita' : S MARTINO Km 94+200

Dir. Lavori: DDTT.SECHE

Data : 03-09-92

Prof : 19.2 (a)

PPD

612

INDGEO

S. GIUSEPPE - Via Roma 72/A  
Tel. (0533) - 380450  
Fax. (0533) - 380075

Committente: CEPAY2

Localita' : S MARTINO Km 94+520

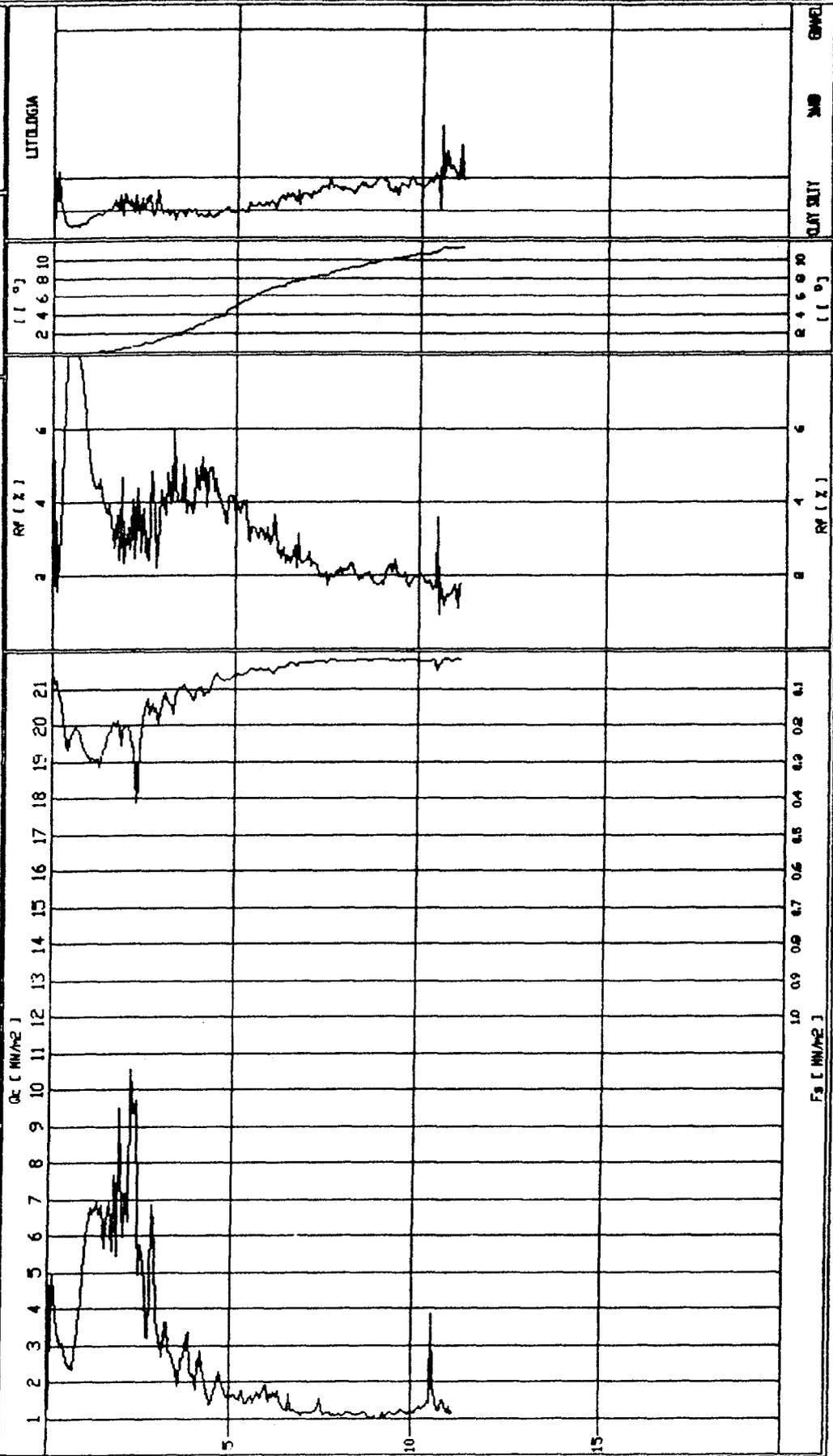
Dir Lavori: DOTT SECHI

Date : 03-09-92

Prof 11 15 (m)

Quota: (m)

CPIE  
613





INDGEO

S. GIUSEPPE - Via Roma 72/A  
Tel. (0533) - 380450  
Fax. (0533) - 380075

Committente: CEPAY2

Localita' : SICMIONE Km 95+480

Dir Lavori: DOTT BECHI

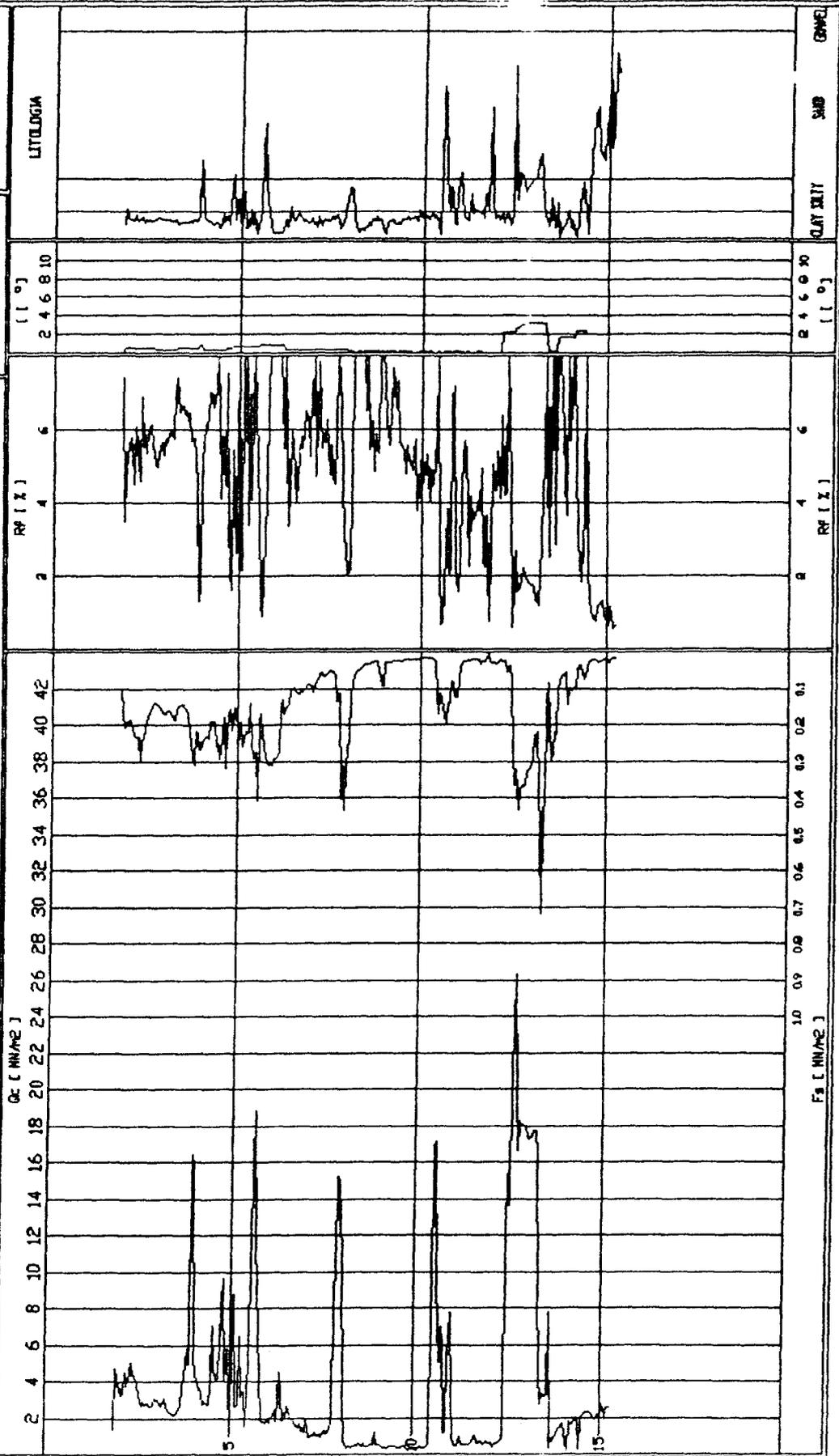
Date : 03-09-92

Prof. : 15 25 (m)

Quota: (m)

CPIE

615



Fs [ mV/m ]

1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1

Rf [ Ωm ]

8 4 2

Gc [ mV/m ]

2 4 6 8 10

LITOLOGIA

CPIE 615

INDGEO

S. GIUSEPPE - Via Roma 72/A  
Tel. (0533) - 380450  
Fax. (0533) - 380075

Mittente: CEPAV2

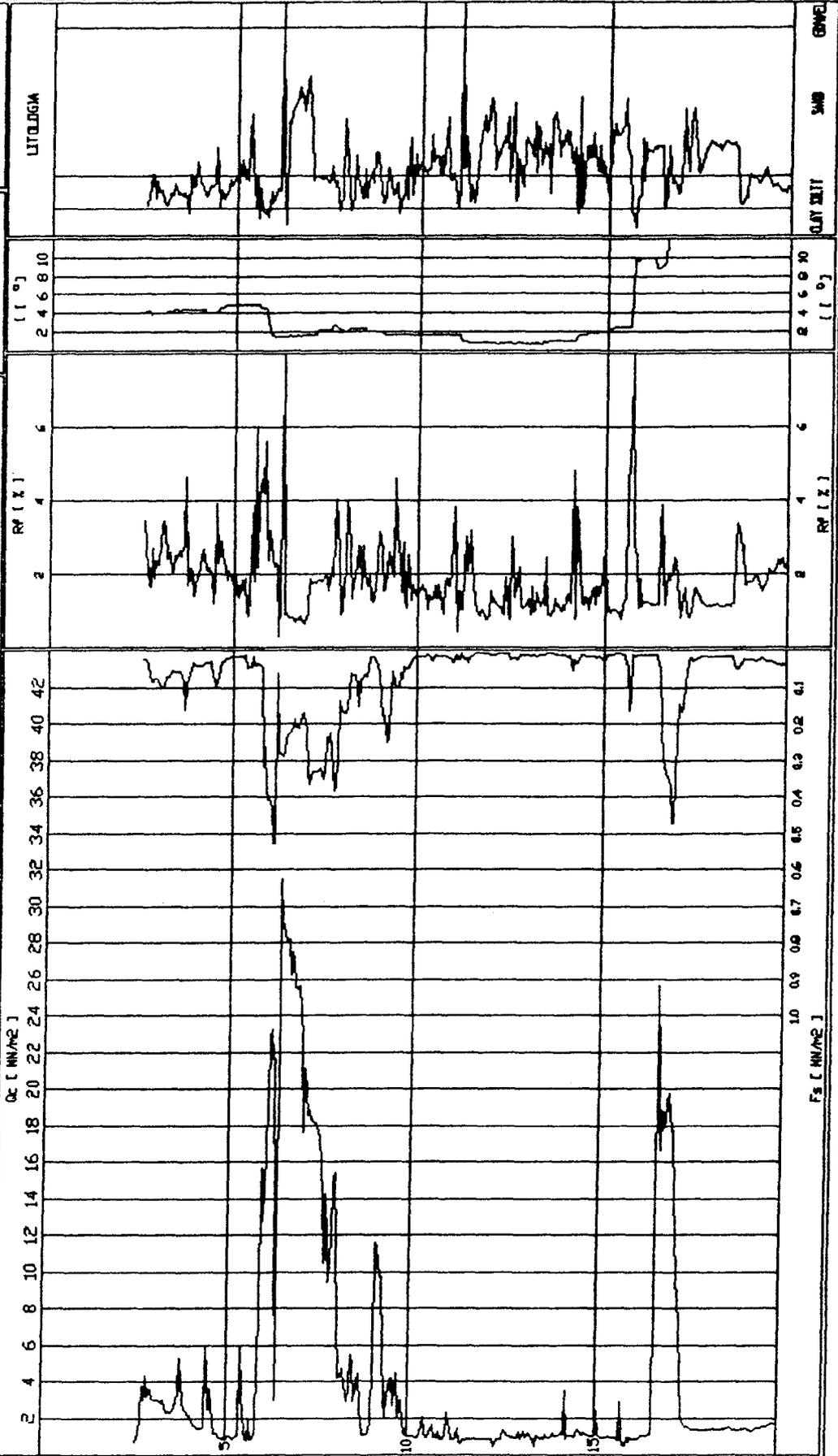
Localita' : B. MARTINO Km 95+920  
Dir Lavori: DOTT BECHI

Date 02-09-92

Prof 20 45 (m)

Quota: (m)

CFU  
616



LITOGIA

[ ( ° )  
2 4 6 8 10

Rp [ X ]  
2 4 6

Oe [ MN/m² ]  
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42

Fz [ MN/m² ]  
10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410

[ ( ° )  
2 4 6 8 10

Rp [ X ]  
2 4 6

Oe [ MN/m² ]  
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42

DAY 2011 2010 2009 2008 2007 2006 2005 2004 2003 2002 2001 2000 1999 1998 1997 1996 1995 1994 1993 1992 1991 1990 1989 1988 1987 1986 1985 1984 1983 1982 1981 1980 1979 1978 1977 1976 1975 1974 1973 1972 1971 1970 1969 1968 1967 1966 1965 1964 1963 1962 1961 1960 1959 1958 1957 1956 1955 1954 1953 1952 1951 1950 1949 1948 1947 1946 1945 1944 1943 1942 1941 1940 1939 1938 1937 1936 1935 1934 1933 1932 1931 1930 1929 1928 1927 1926 1925 1924 1923 1922 1921 1920 1919 1918 1917 1916 1915 1914 1913 1912 1911 1910 1909 1908 1907 1906 1905 1904 1903 1902 1901 1900 1899 1898 1897 1896 1895 1894 1893 1892 1891 1890 1889 1888 1887 1886 1885 1884 1883 1882 1881 1880 1879 1878 1877 1876 1875 1874 1873 1872 1871 1870 1869 1868 1867 1866 1865 1864 1863 1862 1861 1860 1859 1858 1857 1856 1855 1854 1853 1852 1851 1850 1849 1848 1847 1846 1845 1844 1843 1842 1841 1840 1839 1838 1837 1836 1835 1834 1833 1832 1831 1830 1829 1828 1827 1826 1825 1824 1823 1822 1821 1820 1819 1818 1817 1816 1815 1814 1813 1812 1811 1810 1809 1808 1807 1806 1805 1804 1803 1802 1801 1800 1799 1798 1797 1796 1795 1794 1793 1792 1791 1790 1789 1788 1787 1786 1785 1784 1783 1782 1781 1780 1779 1778 1777 1776 1775 1774 1773 1772 1771 1770 1769 1768 1767 1766 1765 1764 1763 1762 1761 1760 1759 1758 1757 1756 1755 1754 1753 1752 1751 1750 1749 1748 1747 1746 1745 1744 1743 1742 1741 1740 1739 1738 1737 1736 1735 1734 1733 1732 1731 1730 1729 1728 1727 1726 1725 1724 1723 1722 1721 1720 1719 1718 1717 1716 1715 1714 1713 1712 1711 1710 1709 1708 1707 1706 1705 1704 1703 1702 1701 1700 1699 1698 1697 1696 1695 1694 1693 1692 1691 1690 1689 1688 1687 1686 1685 1684 1683 1682 1681 1680 1679 1678 1677 1676 1675 1674 1673 1672 1671 1670 1669 1668 1667 1666 1665 1664 1663 1662 1661 1660 1659 1658 1657 1656 1655 1654 1653 1652 1651 1650 1649 1648 1647 1646 1645 1644 1643 1642 1641 1640 1639 1638 1637 1636 1635 1634 1633 1632 1631 1630 1629 1628 1627 1626 1625 1624 1623 1622 1621 1620 1619 1618 1617 1616 1615 1614 1613 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515 514 513 512 511 510 509 508 507 506 505 504 503 502 501 500 499 498 497 496 495 494 493 492 491 490 489 488 487 486 485 484 483 482 481 480 479 478 477 476 475 474 473 472 471 470 469 468 467 466 465 464 463 462 461 460 459 458 457 456 455 454 453 452 451 450 449 448 447 446 445 444 443 442 441 440 439 438 437 436 435 434 433 432 431 430 429 428 427 426 425 424 423 422 421 420 419 418 417 416 415 414 413 412 411 410 409 408 407 406 405 404 403 402 401 400 399 398 397 396 395 394 393 392 391 390 389 388 387 386 385 384 383 382 381 380 379 378 377 376 375 374 373 372 371 370 369 368 367 366 365 364 363 362 361 360 359 358 357 356 355 354 353 352 351 350 349 348 347 346 345 344 343 342 341 340 339 338 337 336 335 334 333 332 331 330 329 328 327 326 325 324 323 322 321 320 319 318 317 316 315 314 313 312 311 310 309 308 307 306 305 304 303 302 301 300 299 298 297 296 295 294 293 292 291 290 289 288 287 286 285 284 283 282 281 280 279 278 277 276 275 274 273 272 271 270 269 268 267 266 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Fz [ MN/m² ]

[ ( ° )  
2 4 6 8 10

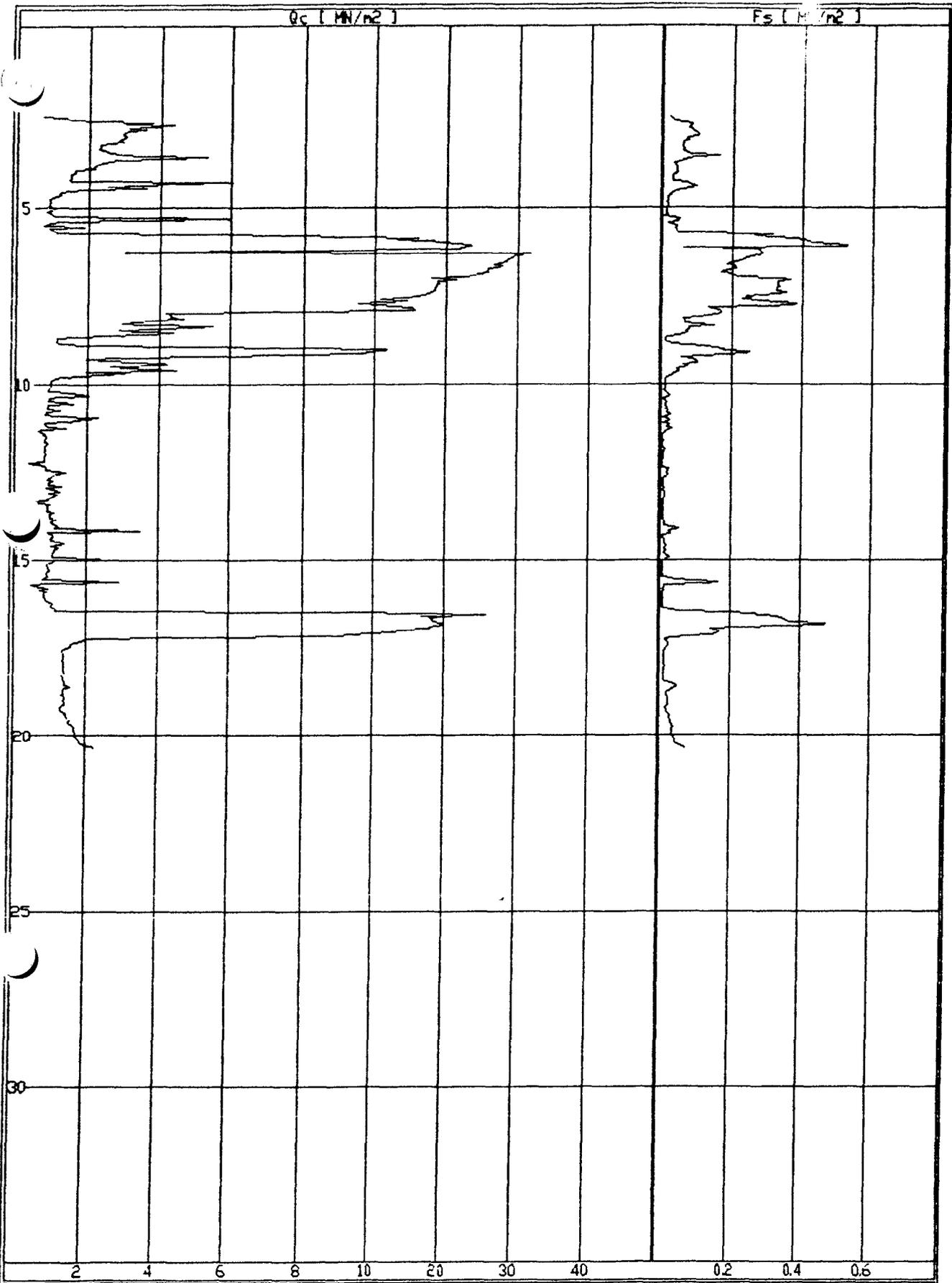
Rp [ X ]  
2 4 6

Oe [ MN/m² ]  
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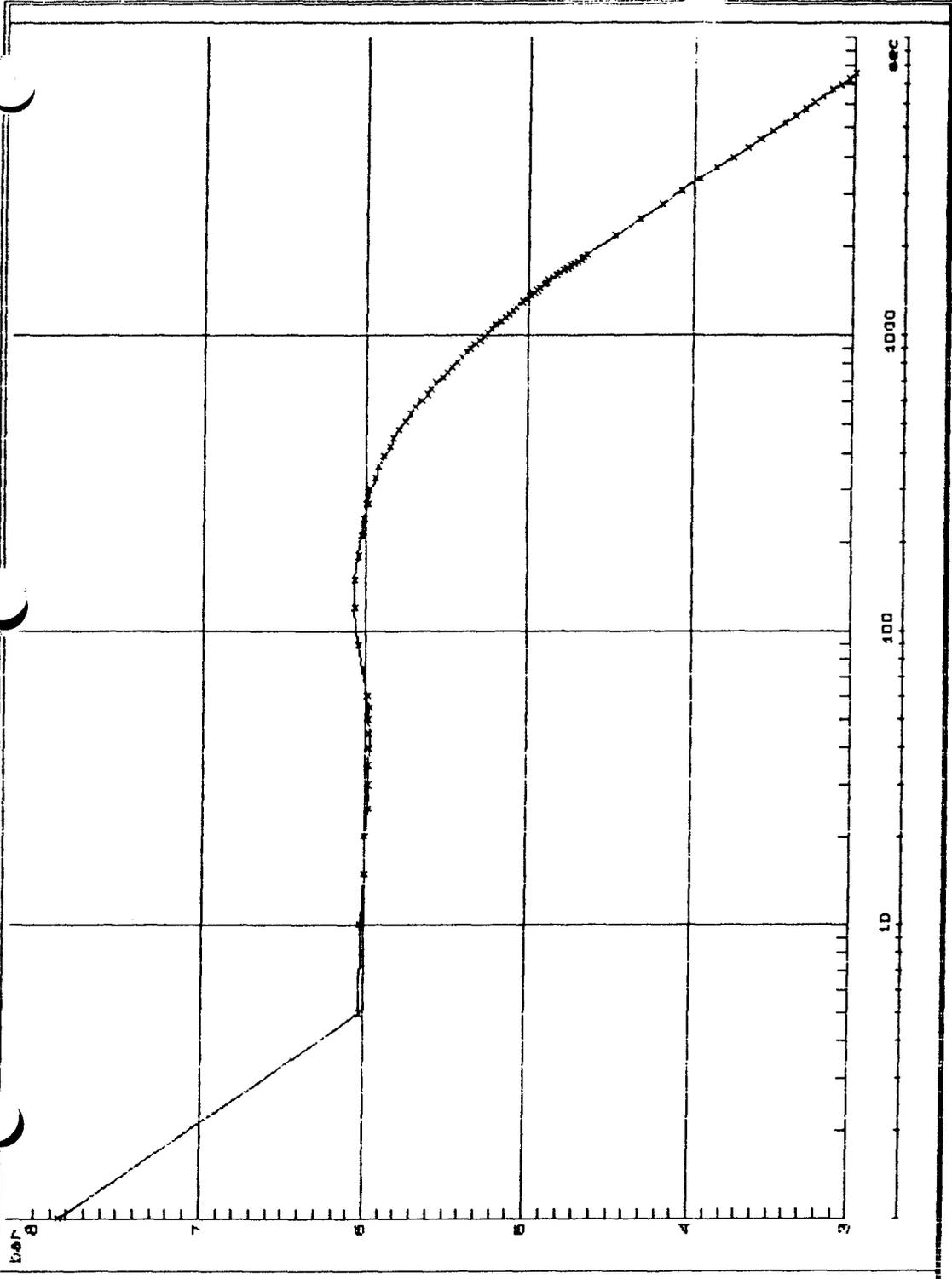




**INDGEO**  
 S GIUSEPPE - Via Roma 72/A  
 Tel. (0533) - 360450  
 (0533) - 360375

Committente: CEPAV2  
 Località: S. MARTINO Km 95+920  
 Dir. Lavori: DOTT. SECHI  
 Data: 02-09-92  
 Prof: 20.45 (m)  
 quota (m)

**CPTU**  
**616**



**INDGEO**  
 S. SILCENNE - Via Roma 72/A  
 Tel. (0533) - 380450  
 Fax. (0533) - 380075

Committente: CEPAV2  
 Localita' : S MARTINO KM 95+920  
 Dir. Lavori: DOTT. SECHI

Data : 02-09-92  
 Prof : 18.65 (m)

PPD  
 616

INDGEO

S. GIUSEPPE - Via Roma 72/4  
Tel. (0533) - 380450  
Fax. (0533) - 380075

Contatto: CEPAV2

Località: S. MARTINO Km 98+950

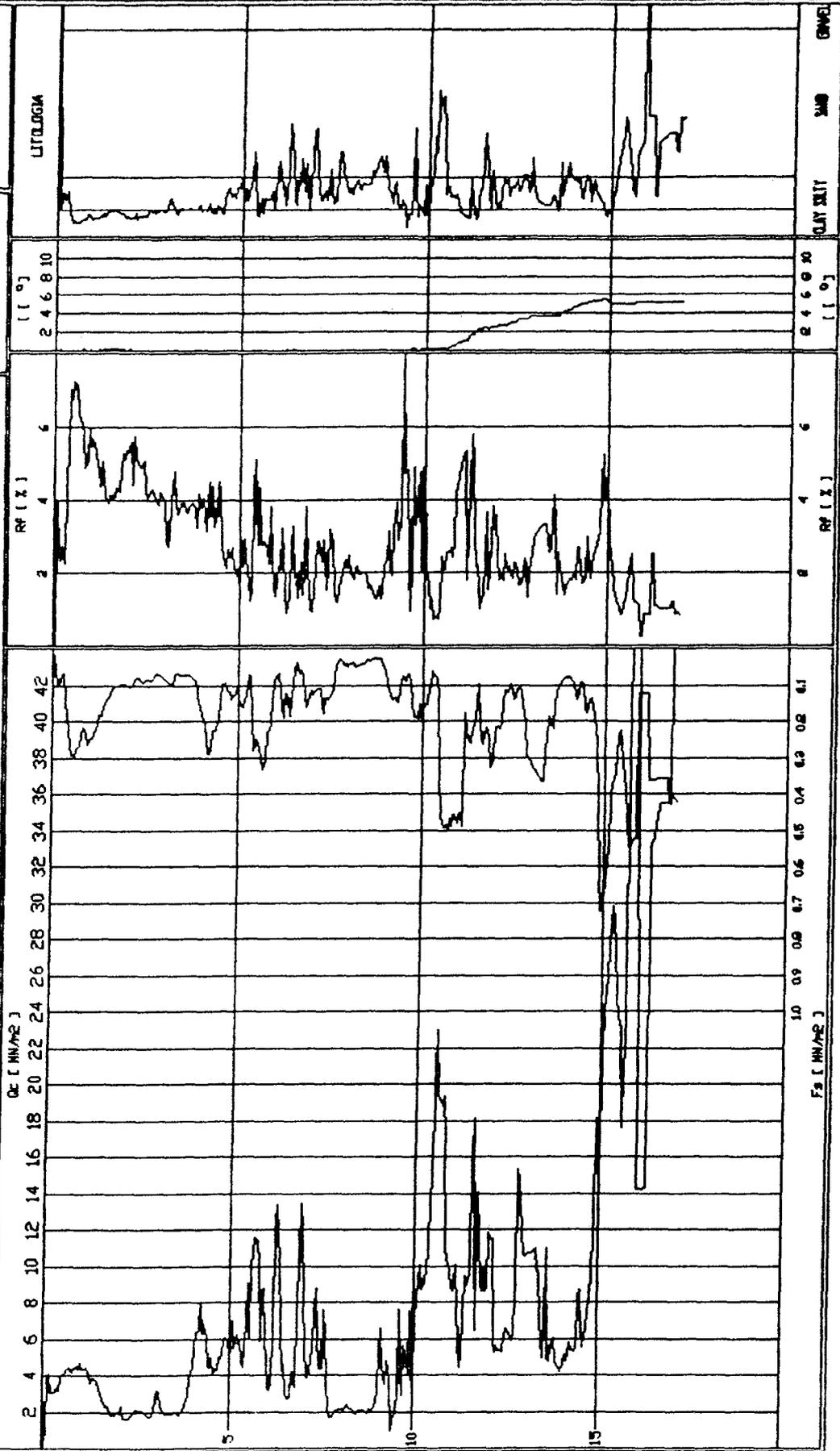
Dir Lavori: DOTT SECHI

Data 01-09-92

Prof 17 (m)

Quota: (m)

CPIE  
619



INDGEO

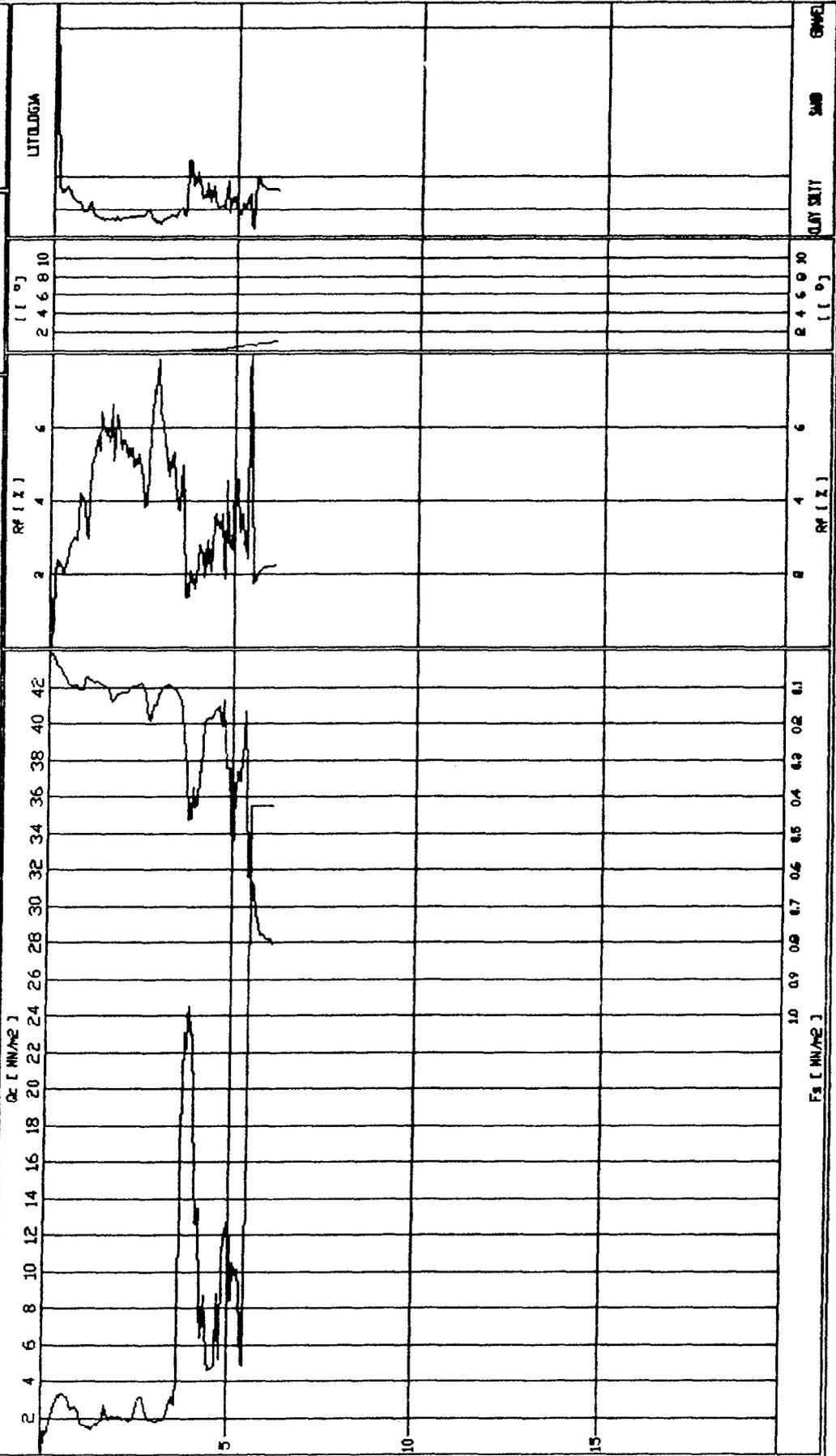
S. GIUSEPPE - Via Roma 72/A  
Tel. (0533) - 380450  
Fax. (0533) - 380075

Comittente: CEPAV2

Localita' : ROVEGLIA Km 97+190  
Dir Lavori: DOTT. BECHI

Data 08-09-92  
Prof. 6.1 (m)  
Quota: (m)

CPTU  
620



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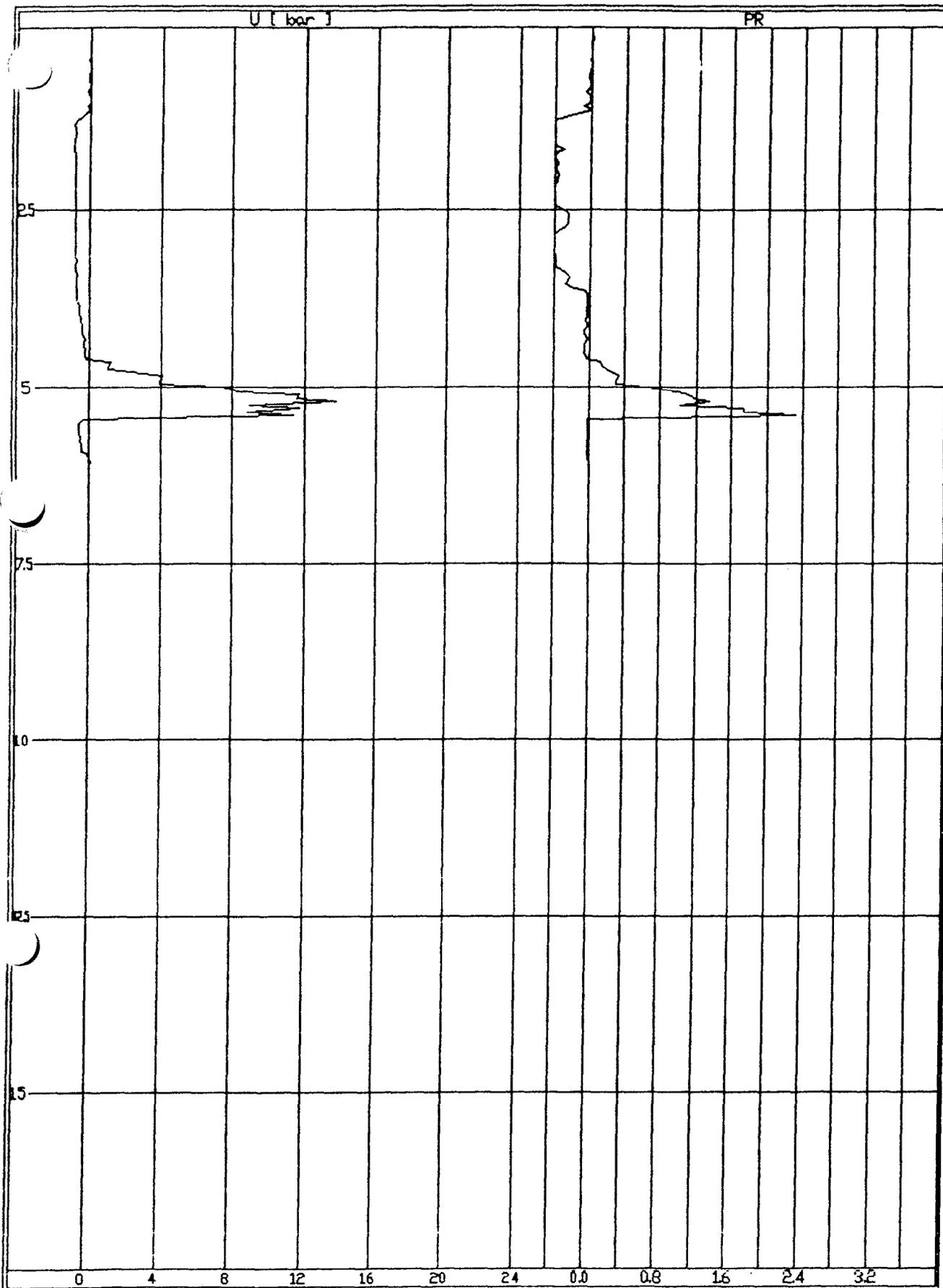
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**INDGEO**

5 GIUSEPPE - Via Roma 72/A  
 Tel. (0533) - 380450  
 (0533) - 380075

Committente: CEPAV2  
 Localita': ROVESLIA Km 97+190  
 Dir. Lavori: DOTT. SECHI

Data: 08-09-92  
 Prof: 5.1 (m)  
 Quota (m):

CPTU  
**620**

INDGEO

S. GIUSEPPE - Via Roma 72/A  
Tel. (0533) - 380450  
Fax. (0533) - 380075

Cont. - cto: CEPAV2

Localita' : SIRMIONE Km 97+790

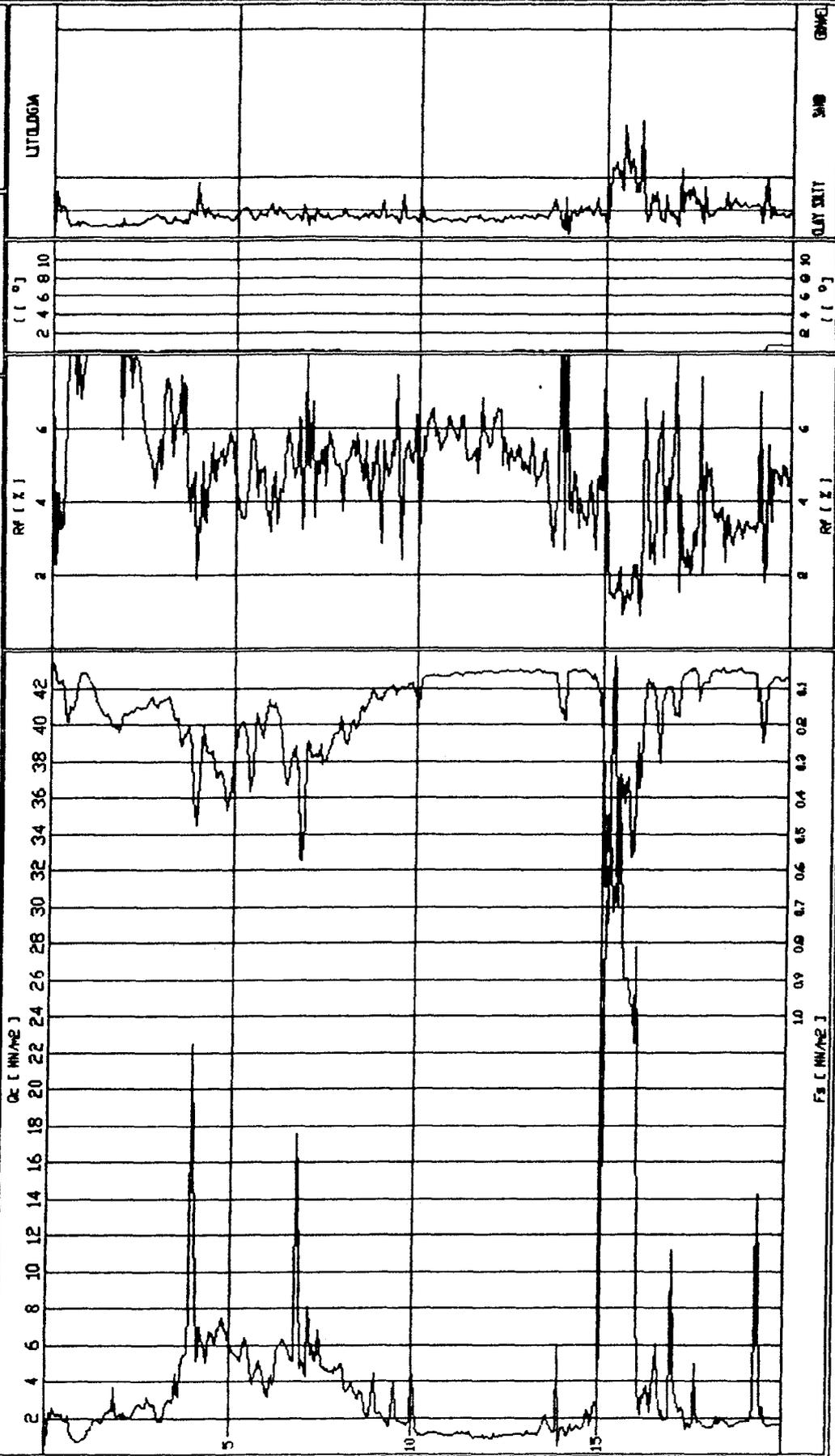
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Data 01-09-92

Prof 20 25 (m)

Quota: (m)

CPTE  
621





INDGEO

S. GIUSEPPE - Via Roma 72/A  
Tel. (0533) - 380450  
Fax. (0533) - 380075

Committente: CEPAV2

Località: C.NA ROVEG. Km 08+48

Dir Lavori: DOTT SECHI

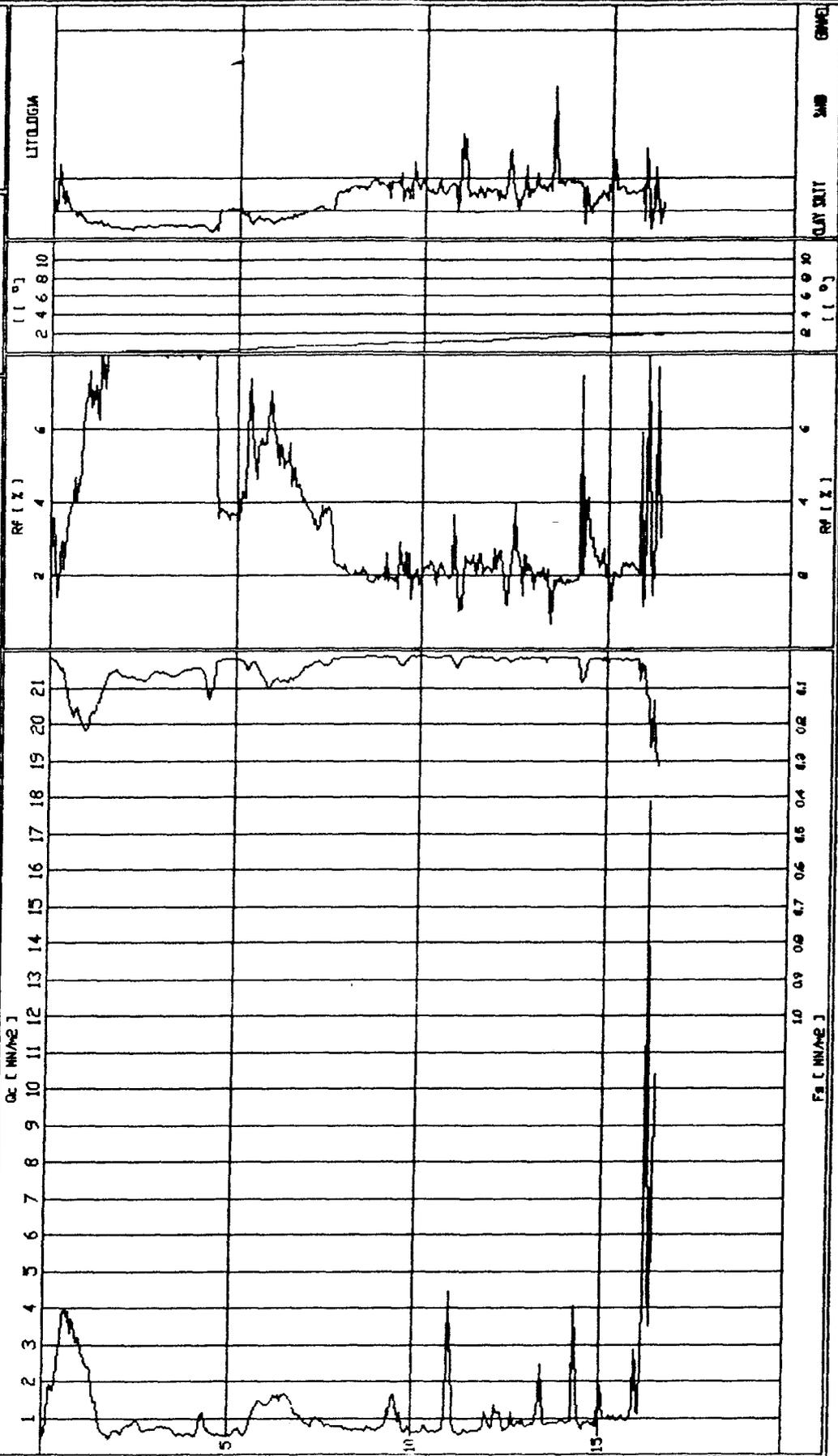
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Quota: (m)

CPTE

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INDGEO

S. GIUSEPPE - Via Roma 72/A  
Tel. (0533) - 380450  
Fax. (0533) - 380075

Committente: CERAV2

Localita' : BROGLIE Km 98+280

Dir Lavori: DOTT SECHI

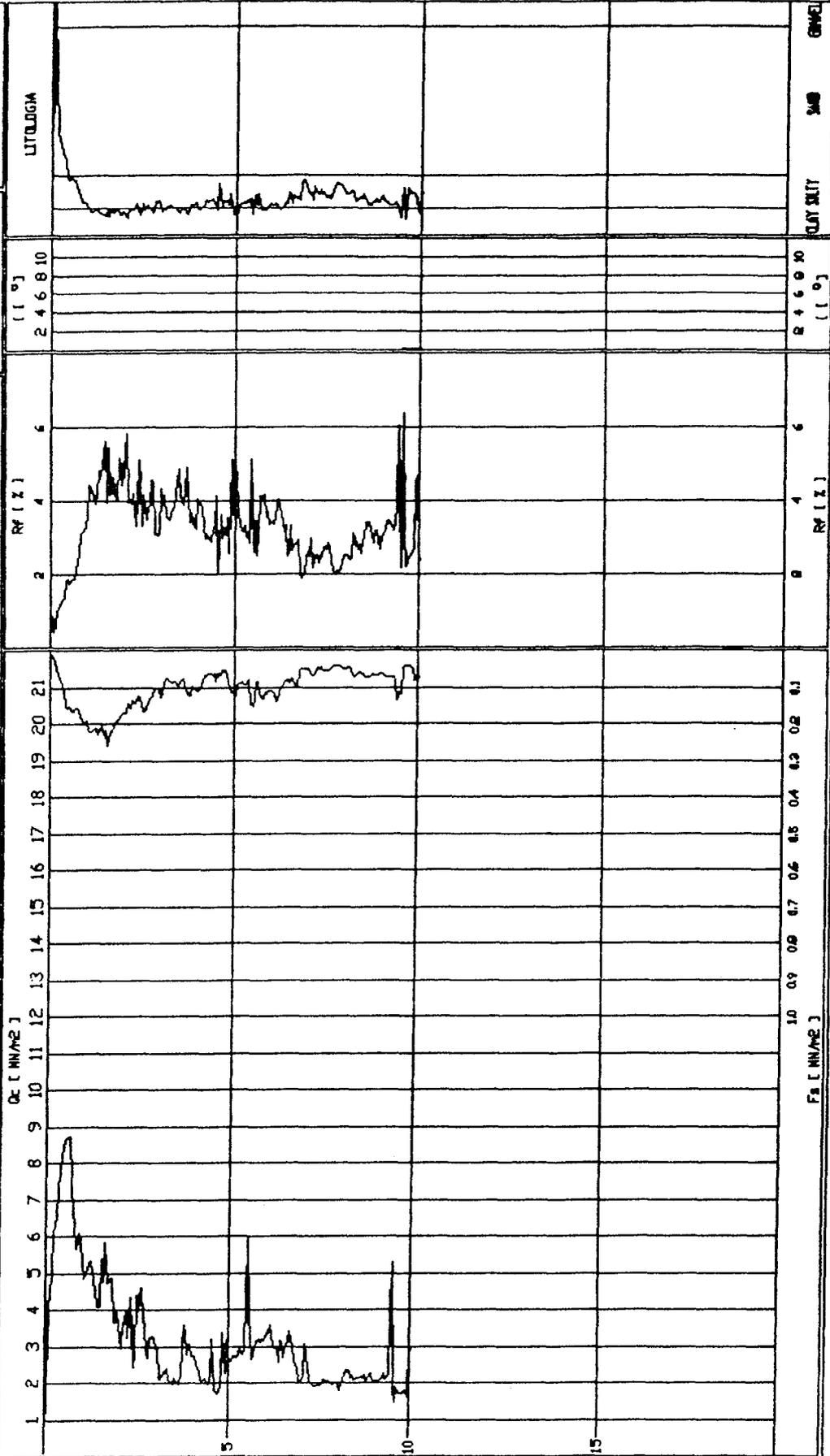
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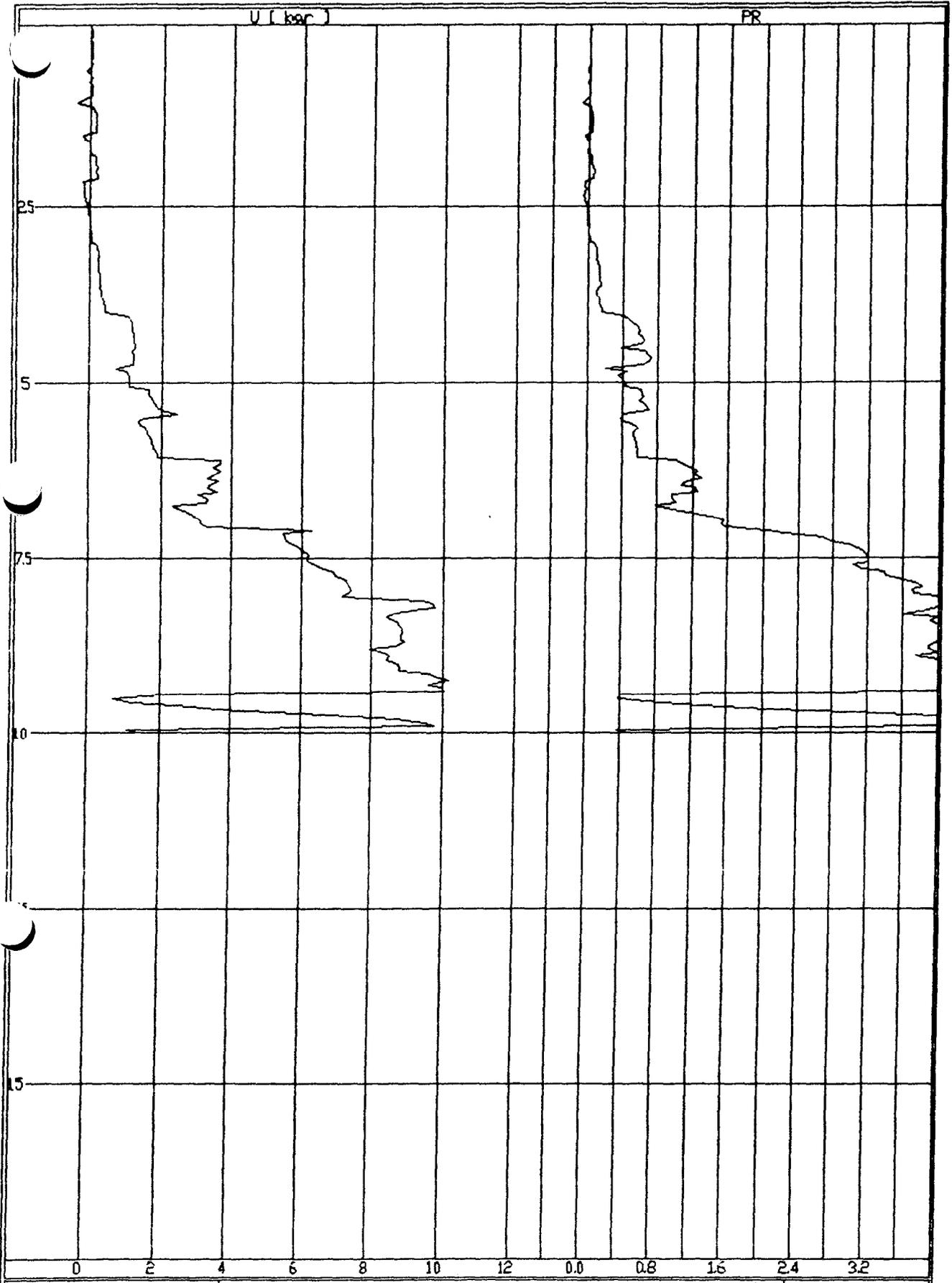
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Quota: (m)

CPTU

624



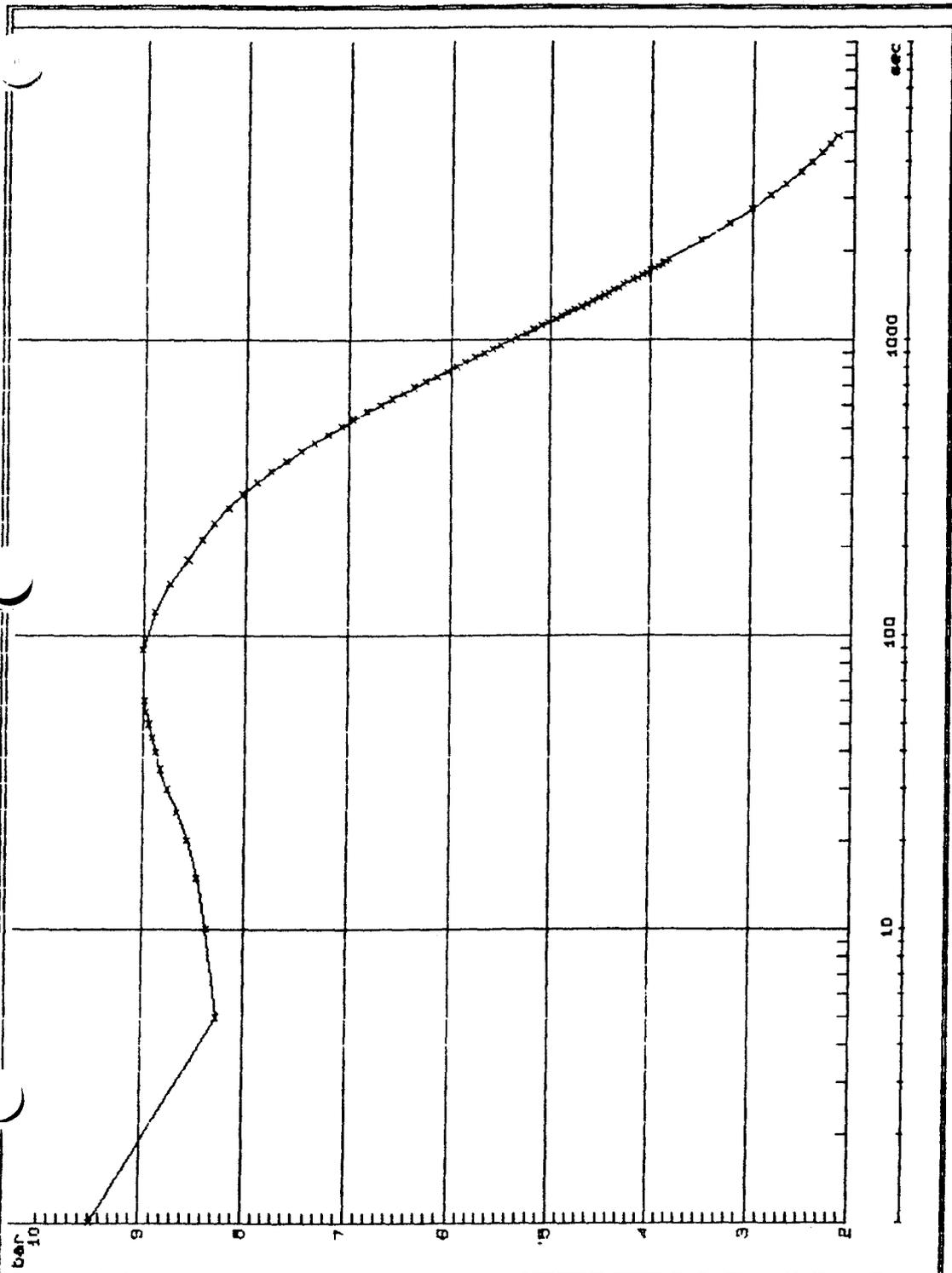


**INDGEO**  
 S. GIUSEPPE - Via Foglio 72/A  
 (0523) - 380450  
 (0535) - 380078

Committente: CEPAV2  
 Localita': BROGLIE Km 99+280  
 Dir. Lavori: GOTT. SELMI

Data: 08-09-92  
 Prof.: 10.05 (m)  
 Quota (m)

**CPTU**  
**624**



**INDGEO**

S. GIUSEPPE - Via Roma 72/A  
 Tel. (0533) - 380450  
 Fax. (0533) - 380075

Committente: CEPAV2  
 Localita' : BROGLIE Km 99+280  
 Dir. Lavori: DDTT. SECHI

Data : 08-09-92  
 Prof : 9.95 (m)

PPD  
 624

INDGEO

S. GIUSEPPE - Via Roma 72/A  
Tel. (0533) - 380450  
Fax. (0533) - 380075

Col. Contente: CEPAV2

Localita' : PESCHIERA Km 09+640

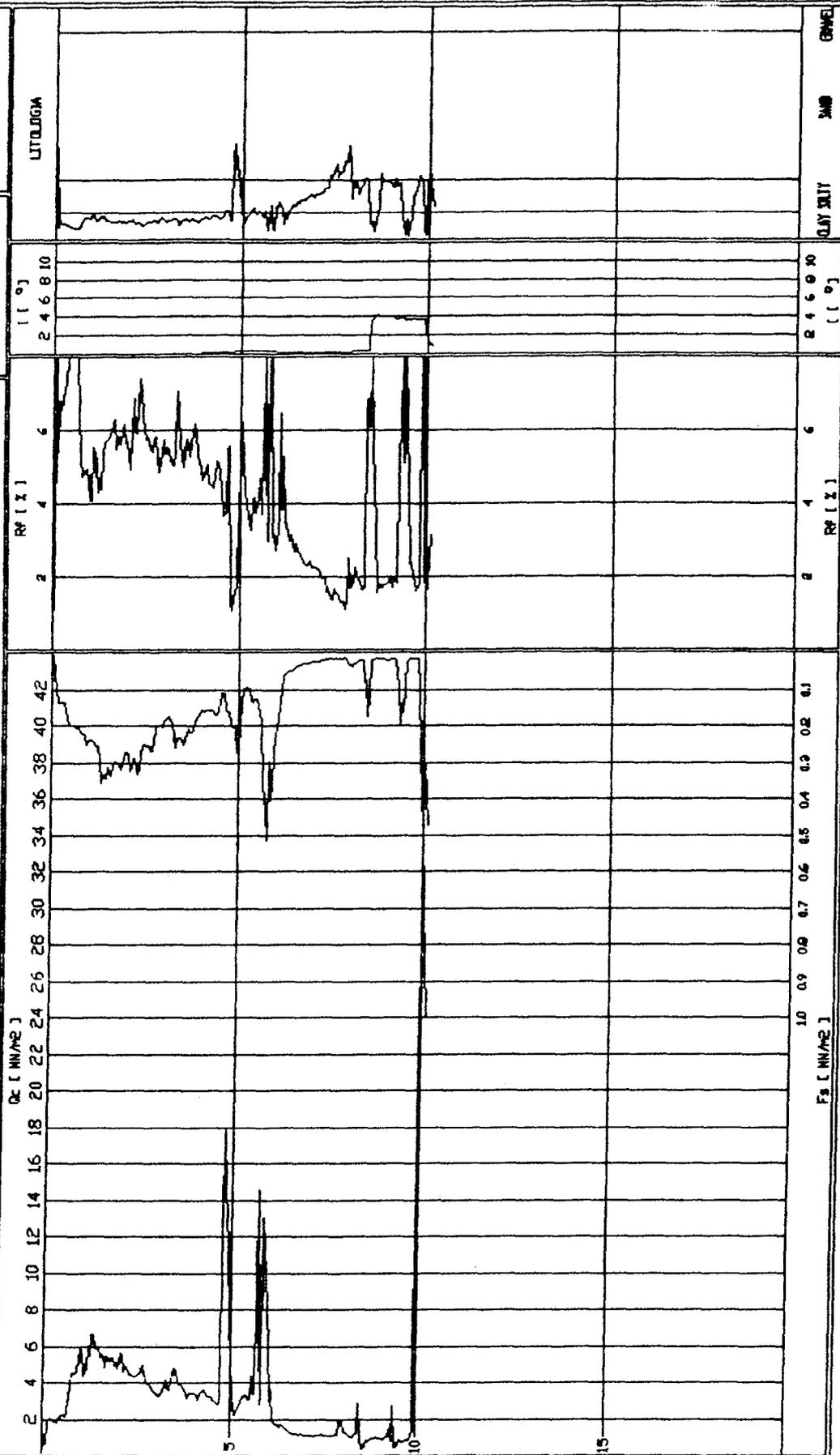
Dir. Lavori: DOTT. BECHI

Data: 28-08-92

Prof: 10.1 (m)

Quota: (m)

CPiE  
625



2 4 6 8 10  
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2 4 6 8 10

LITOLGIA  
QUANTITÀ  
MAB  
GRWE