AGIP-DIMI ARCHIVIO GEOL

UFFICIO CONTITOLARI RICERCHE IDROCARBURI
APPENNINO SETTENTRIONALE

AGIP ARCHIVIO POZZI AGEO

E/PROF

ALL. R/RFIN

Plate 1

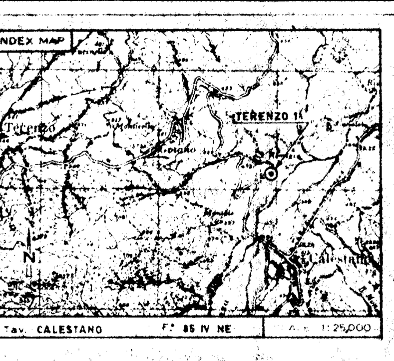
WELL TERENZO 1

Permit	Terenzo
Rig	IDECO-PIGNONE Super 7/11 Jr. (SAIPEM)
Spudding date	Nov. 19, 1970 (4th a.m.)
Completion of drilling	April 23, 1971 (5th a.m.)
Completion date	April 26, 1971 (8th a.m.)
Total depth	2531.20 m.
Status	dry and abandoned
Location	on the Calestano - Fornovo T. road, close to S. Remigio farm.
Coordinates	Long 02° 19' 55" W; Lat 44° 35' 25" N
Ground elevation	400.34 m.
Elevation Rotary Table	403.94 m.
K B	404.39 m.

Legend: Limestone; Marly limestone; Calcarenite; Limey marl; Silty marl; Marl; Marly clay; Clay; Shale; Sandstone; Chert; Unconformity or tectonic contact; Fault; Core dips; Core (R 70%); Squeezing; Casing perforation; Bridge plug; Bridge plug (drilled); Dipmeter data; Casing shoe; Cement plug; Cement plug (drilled); DST; DST (failed); Mud loss zone.

SHOWS: Visible gas shows; Chromatograph indications — Weak (e.g. emulsion); Strong (e.g. blow); Weak; Strong; Oil stain; Oil show (traces); Oil show (evident); Oil and gas show; Heavy oil show; Bitumen show; Salt water show; Fresh water show.

PROVEN RESERVOIR: Interval with gas; Interval with oil; Interval with salt water; Interval with fresh water; Porosity: poor, fair, good.



Report: "Terenzo 1 wildcat - Final geological report" Milano, May 1971

SCALE 1:1,000

Geologists: S. LANZAVECCHIA - G. SFONDRINI

Micropaleontologist: U. FOLLADOR

Mud logging Contractor: SAMEGA, Paris

① D.S.T.s

DST 1 from 2449 to 2344 meters with packer set at 2053.5 meters in 9 5/8" casing.
Recovery: 1066 lt. of gas cut mud (gas C_1 85% C_2 7% C_3 3.5% iC_4 0.8% nC_4 1.1% + air)
Pressures: IF 12 atm; ISIP 60 atm; FFP 16.4 atm / 23.0 atm.
~~Presence of shale plugs or bridges below packer~~

DST 2 from 2449 to 2344 meters with packer set at 2332.5 meters in 7" liner.
Recovery: 486 lt. of gas cut mud
Pressures: IF 227 atm; ISIP 249 atm; FFP 227 atm / 138 atm.

DST 3 from 2449 to 2344 meters with packer set at 2332.5 meters in 7" liner.
Recovery: 1140 lt. of gas cut mud
Pressures: IF 60.5 atm; ISIP 73 atm; FFP 60.5 atm / 63.0 atm.

② CORE 1

from 2530 to 2531.2 meters (T.D.)
Recovery: 100% = Sandstone with silty marl; no shows; dips 45°

Ø = { H = 4.45%; V = 1.18% } K = { H = 1.5 md.; V = 0.7 md. }

③ CEMENT PLUGS

from 0 to 20 meters with 0.8 Tons. cement
from 2450 to 2240 meters with 7.0 Tons. cement
bridge plug at 2040 meters.

④ SCHLUMBERGER AND WELL VELOCITY SURVEYS

Run	Log	From	To
1st run	IES	from 676	to 104.5 meters
	BHC/GR	from 673.3	to 104.5 meters
2nd run	IES	from 2164.6	to 674 meters
	BHC/GR/C	from 2162.2	to 674 meters
	CDM	from 2167.0	to 674 meters

one Well Velocity Survey was performed with geophone at 2165, 1964, 1500, 1100, 680, 360 and 200 meters
T log from 2150 to 800 meters.

Run	Log	From	To
3rd run	BHC/GR/C	from 2442	to 2111 meters
4th run	IES	from 2448	to 2340 meters
	MLL	from 2444.5	to 2340 meters
	CDM	from 2445	to 2340 meters
5th run	IES	from 2527	to 2390 meters
	BHC/GR/C	from 2524	to 2390 meters
	MLL	from 2527	to 2390 meters
	CDM	from 2527	to 2390 meters

⑤ LEFT IN HOLE 8 + 3 4" DC + bit and 6 8" Hydrill washing pipes from 2229 meters to 2170.28 meters and cemented in 9 5/8" casing with 4.0 Tons. Rossi 425 cement.

⑥ 7" LINER SHOE found by Schlumberger logs at 2340 meters instead of 2344 meters

⑦ CUT WINDOW from 2115 meters to 2135 meters in 9 5/8" casing and sidetracked 8 1/2" hole from 2116 meters