ENI

E/P 57

AGIP S.p.A. DIVISIONE EXPLORATION & PRODUCTION ARCHIVIO TECNICO

11/8 Agip

12/84

WELL **RADICOSA 1**

DATA RECEIVED FROM AGIP

Permit : LODIGIANO
Rig : IDECO-PIGNONE Super T/h Junior (SAIPEM)
Spudding date : May 19, 1970 8.30 a.m.
Completion of drilling : July 2, 1970
Completion date : July 11, 1970
Total depth : 1848 m.
Status : dry and abandoned
Location : on the Po river (Lombardia) close to Fosso della Radicosa, Pizzoni province.
Coordinates : " Long : 01° 06' 07" W
" Lat : 44° 10' 25" N
Ground elevation : 960.60 m
Elevation Rotary Table : 964.20 m
K.B.D. : 964.65 m

Limestone
Marly la.
Sandy la.
Clay
Shale
Marlstone
Sandstone
Siltstone
Calcite
Chert
Unconformity
Fault
Core dips

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

PROVEN RESERVOIR
Interval with gas
Interval with oil
Interval with salt water
Interval with fresh water
Porosity: poor / good

Core (8.70 hs)
Sidewall core
Casing perforation
Bridge plug
Drilled Bridge plug
Casing shoe
Cement plug
Cement plug (plotted)
DST
DST (failed)
Mud loss

INDEX MAP
RADICOSA 1
Two Fosse della Radicosa (1 km)
SCALE 1:25.000

Report "RADICOSA 1 WILDCAT - FINAL REPORT"
by G.Stendrini - Milano, Aug 1970

SCALE 1:1000

Geologist : G. SPONDRINI
Mudlogger : U. FOLLADOR

Milano, August 1970

DATE | MUD LOSS | DEVIATION | CASING | CEMENT PLUG

DRILLING TIME min/m AND BITS

MUD
TYPE & PROPERTIES (WEIGHT, VISCOSITY, WATER LOSS)

CARBONATE (vessel) %

PERCENTAGE

GAMMA RAY API units

STRATIGRAPHIC COLUMN

RESISTIVITY Ohms m²/m (A-16" M)

LITHOLOGY

LITHOLOGIC DESCRIPTION

TIME (days)

LITHOLOGIC COMPOSITION DITCH SAMPLES

SHOWS

STRATIGRAPHIC UNIT

AGE

DEPTH (meters)

CHROMATOLOGY
METHANE % | ETHANE % | PROPANE % | BUTANE % | n BUTANE %

SAMPLES WET WASHED THROUGH COLLECTED FROM FLOW LINE

SHALE - SHAKER

DRY - FASSED

MUD RECORDING

LITHOLOGIC DESCRIPTION

Clay: marly, grey to dark grey, locally greenish and narrow, plastic with thin levels of siltstone, sandy, micaceous, locally argillaceous, plastic; local presence of pyrite stone; grey, fine to very fine, poorly sorted intercalations of sandstone; local increase in carbonate content with occurrence of calcite.

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Limestone: grey to dark grey, fine to very fine, well sorted, calcitarenic, coarse with carbonaceous material grading into calcilutites; dark grey, presence of laminae of shale, grey.

Clay: grey, green and black, dark grey, intercalations of limestone, beige, microcrystalline, hard and compact with veinlets of calcite.

Mostly sandstone, grey and dark grey, fine, marly-calcareous cement, micaceous, argillaceous, locally greenish and clay, grey to dark grey and shale, dark grey, levels of siltstone, thin zone.

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GENERAL

BARZAGLI

LEMNA

UPPER LIVELLO

UPPER CARDABIAN

MARNOSO-ARENACEA

UNDIFFERENTIATED

ARGILLE AZZURRE

Type Oligocene

UPPER MARNOSO-ARENACEA

Pay show: ~25% ; after 25 min circulation show increase to ~35%

gas show

- 1 : from 1514 m. to 1524 m.
1st F.P. : initial mud flowed 30.6 kg/cm² (swelling of salt pierce?)
Recovery : 3.05 m³ gas cut mud (3500 ppm)
Gas composition: C1 2.07, C2 0.59, C3 0.075 + air

- 2 : from 1648 m. to 1774 m.
2nd F.P. : initial mud flowed 39.0 kg/cm²
Recovery : 2.55 m³ mud cut water (300 ppm)

- 3 : from 1648 m. to 1774 m.
1st F.P. : initial 30.1 kg/cm² - flowed 32.0 kg/cm²
Inserted 90 bbls. - Recovery 31 m³ mud cut water with mud filtrate (1-150 ppm F = 2100 ppm) and traces of C1
- 973 ft casing perforations
172 shots m.3
- from 1531 m. to 1539 m.
- from 1532 to 1538 m.
- from 1180 to 1500 m.

- 4 : from 1700 m. to 1724 m.
2nd F.P. : initial 32.0 kg/cm² - flowed 30.1 kg/cm²
Recovery : 2.1 m³ water (300 ppm) - gas inverted to C1+ flare (1 30.817, C2 1.17, C3 0.307

- 5 : from 1500 m. to 1514 m.
F.P. : initial 18.8 kg/cm² - flowed 31.1 kg/cm²
Inserted to 1367' - Recovery 2.1 m³ water flow1400 ppm f - 2300 ppm?
gas burning to the flare C1 85.067, C2 1.367, C3 0.397

- 6 : from 1500 m. to 1524 m.
F.P. : initial 32.3 kg/cm² - flowed 28.0 kg/cm²
Inserted to 2000' - Recovery 1.27 m³ water (1-200 ppm f=4240 ppm)
gas burning to the flare C1 86.45, C2 1.197, C3 0.367

P & A

- bridge plug at 1800 m.
- cement plug from 1300 m. to 1198 m.
(11.4 tons Bonaci 325 cement)

PERFORATIONS

- 1st run
- 2nd run
- 3rd run

GIS	from 402.5 m. to 31.0 m.	
1403.5 GR	from 402.5 m. to 31.0 m.	
GIS	from 402.5 m. to 30.0 m.	
TL	from 373.0 m. to 35.0 m.	
GIS	from 1508.0 m. to 395.0 m.	
TIS	from 1618.5 m. to 395.5 m.	
1403.5 GR	from 1618.5 m. to 1398.0 m.	
BHC-S	from 1618.0 m. to 1180.0 m. and from 1618.5 m. to 403.0 m.	
TL	from 1615.0 m. to 395.0 m.	

(check-shot) Survey with geophone at : 1586, 1505, 1182, 900 and 400 m.

TESTS

- 1 from 1253 m. to 1221 m.
Recovery 500 l - sandstone

- 2 from 1684 m. to 1648 m.
Recovery 735 l - sandstone