

ontvangen via Soddy,  
18/9/86

2A

K12-10



IG7734001

WELL PROGNOSIS

K12 - 10

Placid International Oil Ltd.  
Den Helder

5.12.e

December, 1985

BLOCK : K12

WELL : K12 - 10

A.F.E. : 21031

SURFACE LOCATION : 53° 22' 18.1'' N  
03° 42' 20.9'' E  
UTM: 5,913,978 N  
546,962 E  
LINE: PK 12-79-22 shotpoint 940

BOTTOM HOLE LOCATION : As above (straight hole)

PURPOSE OF WELL : To develop Rotliegendes formation

WATER DEPTH : 92 ft (28 m)

RKB to MSL : 110 ft (34 m)

DRILLING RIG : Penrod 64 or Penrod 67

PROPOSED T.D. : 12350 ft 3764 m) MD - RKB  
12240 ft 3731 m) TVD - ss

DIRECTIONAL DATA : Straight hole

### Introduktion

Well K12-10 will be ~~straight hole~~ drilled in the S-W part of Block K-12 in the vicinity of the K12-5 well.

Due to drilling through a fault plane, the K12-5 well showed a tendency to drift updip to the N-E after 13 3/8" casing point. Inclination was build up to 7 deg. and several pendulum assemblies were used to drop angle causing lots of problems in the 12 1/4" hole.

The bottom hole location of the well was  $\pm$  470 ft away from the original anticipated one, due to drilling through a fault no Rotliegendes was found but only Carboniferous, the reservoir turned out to be dry and the hole was side-tracked at 8010 ft in the direction S45 W.

Volcanic tuffs were encountered in the side-tracked hole when drilling the Zechstein. The Rotliegendes reservoir sands were never reached due to stuck pipe and as being already deeper than the anticipated top Rotliegendes it was decided to permanently plug and abandon this well.

After re-evaluation it is felt that the K12-5 ST structure is a good potential Rotliegendes reservoir and well K12-10 will be drilled to this structure with its bottom hole location in between the K12-5 and K12-5 ST bottom hole locations as is indicated on attached well location map.

ESTIMATED FORMATION TOPS (RKB)

|                    | MD = TVD |          |
|--------------------|----------|----------|
| Chalk              | 3185 ft  | - 971 m  |
| Lower Cretaceous   | 4070 ft  | - 1241 m |
| Triassic           | 5090 ft  | - 1551 m |
| Rot salt           | 6290 ft  | - 1917 m |
| Base Rot salt      | 6450 ft  | - 1966 m |
| Volpriehausen      | 6890 ft  | - 2100 m |
| Base Volpriehausen | 7170 ft  | - 2185 m |
| Zechstein          | 8520 ft  | - 2597 m |
| Basal Zechstein.   | 11350 ft | - 3459 m |
| Ten Boer           | 11510 ft | - 3508 m |
| Upper Slochteren   | 11550 ft | - 3520 m |
| Ameland            | 11990 ft | - 3655 m |
| Lower Slochteren   | 12070 ft | - 3679 m |
| Carboniferous      | 12300 ft | - 3749 m |

LOGGING PROGRAM

|           |                                                                                    |
|-----------|------------------------------------------------------------------------------------|
| 26" hole  | None                                                                               |
| 17½" hole | None                                                                               |
| 12¼" hole | SLS/BGT/GR                                                                         |
| 8½" hole  | DLL/MSFL<br>LTD/CNT/NGT/<br>DIL/BHC/GR<br>WST<br>RFT - optional<br>SHDT - optional |

# K12-10

E 003 40  
0545000

0550000

05915000

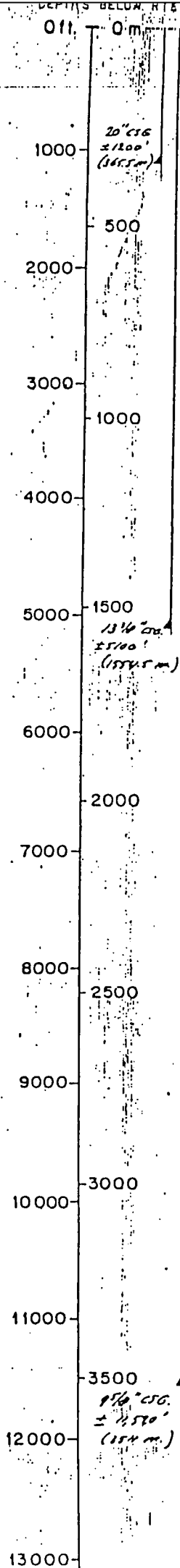
05915000

K12-10  
K12-5  
K12-5 S.T.

0545000  
E 003 40

0550000

SCALE : 1:50,000



110' (33.5 m)  
303' (92.4 m)

NGL  
SEAFLOOR

BASE TERTIARY - 3075' (937.5 m)

BASE CHALK - 3960' (1207 m)

### PROGNOSED SECTION

WELL: K12-PA (KR-10)

PROPOSED LOCATION: 53° 22' 10.1" N  
03° 42' 29.9" E

UTM: 5,912,970  
548,962

LINE: PK12-79-22 SP 940

RTE: 1110 ft (33.5 m)

WATER DEPTH: 92' (28 m)

TOTAL DEPTH: 12,350' (3764.5 m)

SPUD DATE:

3125' (951 m)

4070' (1240.5 m)

5090' (1551.5 m)

TOP TRIASSIC - 4980' (1518 m)

6290' (1917 m)

KÖR SALT - 6180' (-1904 m)

6450' (1966 m)

- 6340' (-1933 m)

6890' (2100 m)

VOLARINHAUEN SST. - 6780' (-2066.5 m)

7170' (2185 m)

- 7060' (-2152 m)

8420' (2563 m)

TOP ZECHSTEIN - 8410' (2563.5 m)

11350' (3457.5 m)

TOP BASAL ZECHSTEIN - 11240' (-3416 m)

11510' (3508 m)

BASE ZECHSTEIN - 11400' (-3472.5 m)

11550' (3520.5 m)

TOP UPPER SLOCHTEREN - 11440' (-3497 m)

11990' (3654.5 m)

TOP RINELAND - 11880' (-3631 m)

12070' (3679 m)

TOP LOWER SLOCHTEREN - 11960' (-3645.5 m)

12300' (3749 m)

TOP CARBONIFEROUS - 12190' (-3715.5 m)

12350' (3764.5 m)

TD - 12340' (-3731 m)

DEPTHS BELOW RTE

0 ft. 0 m.

1000

20" CSG  
±1200'  
(365.5 m.)

500

2000

1000

4000

5000

1500  
13 1/4" CSG  
±5100'  
(1554.5 m.)

6000

2000

7000

8000

2500

9000

10000

3000

11000

3500

9 5/8" CSG  
±11580'  
(354 m.)

12000

13000

110' (33.5 m.)  
202' (61.5 m.)

MSL  
SEAFLOOR

3185' (971 m.)

4070' (1240.5 m.)

5090' (1551.5 m.)

6290' (1917 m.)

6450' (1966 m.)

6890' (2100 m.)

7170' (2185.5 m.)

8520' (2597 m.)

11350' (3458.5 m.)

11510' (3508 m.)

11550' (3520.5 m.)

11990' (3654.5 m.)

12070' (3679 m.)

12300' (3749 m.)

12350' (3764.5 m.)

BASE TERTIARY - 3075' (937.5 m.)

BASE CHALK - 3960' (1207 m.)

## PROGNOSED SECTION

WELL: K12-PA (KQ-10?)

PROPOSED LOCATION: 53° 22' 10.1" N  
03° 42' 29.9" E

UTM: 5,913,978  
546,962

LINE: PK12-79-22 SP 940

RTE: ±110 ft (33.5 m.)

WATER DEPTH: 92' (28 m.)

TOTAL DEPTH: 12,350' (3764.5 m.)

SPUD DATE:

TOP TRIASSIC - 4980' (1518 m.)

RÖT SALT - 6180' (-1084 m.)  
- 6340' (-1983 m.)

VOLPHEHAUSEN SST. - 6780' (-2066.5 m.)  
- 7060' (-2152 m.)

TOP ZECHSTEIN - 8410' (2563.5 m.)

TOP BASAL ZECHSTEIN - 11240' (-3416 m.)

BASE ZECHSTEIN - 11400' (-3474.5 m.)

TOP UPPER SLOCHTEREN - 11440' (-3487 m.)

TOP ANELAND - 11880' (-3621 m.)

TOP LOWER SLOCHTEREN - 11960' (-3645.5 m.)

TOP CARBONIFEROUS - 12,190' (-3715.5 m.)

TD - 12,340' (-3731 m.)

**PLACID INTERNATIONAL OIL, LTD.**

KON. JULIANAPLEIN 15  
2595 AA THE HAGUE  
P.O. BOX 11727, 2502 AS THE HAGUE  
CABLE ADDRESS : PLACID HAGUE  
TELEPHONE : (070) 81 45 81  
TELEX : 33255  
TELEFAX : (070) 47 49 11  
OUR REFERENCE: 5734/dJh/aa

THE HAGUE, 3 december 1985

Ministerie van Economische Zaken  
Directie Algemeen Energiebeleid en Mijnwezen  
Postbus 20101  
2500 EC 's-GRAVENHAGE

Betr.: K12-10 boring

Mijne Heren,

Hierbij berichten wij U dat wij voornemens zijn in de nabije toekomst de K12-10 boring te verrichten.

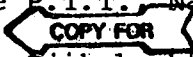
De voorlopige coördinaten van deze boring zijn:

53° 22' 18" N.B.  
03° 42' 21" O.L.

Gaarne vernemen wij van U of een locatie gelegen binnen een straal van 250 meter van genoemde coördinaten U aanleiding geeft tot het maken van opmerkingen.

Hoogachtend,  
PLACID INTERNATIONAL OIL, LTD.

5.1.2.e

c.c.: Hoofd van de Afdeling Hydrografie  
KLM Helikopters B.V.  
Directeur Generaal voor de Landinrichting, Grond- en Bosbeheer  
Directeur Generaal van de P.T.T. Nautische Dienst  
Rijks Geologische Dienst  COPY FOR  
Directeur Generaal van de Rijksluchtvaartdienst  
Rijkswaterstaat, Directie Noordzee  
Directeur Generaal Scheepvaart en Maritieme Zaken  
Scheveningen Radio, IJmuiden  
Staatstoezicht op de Mijnen, Rijswijk  
Marine Vliegkamp Valkenburg, Afdeling Navigatie