SUMMARY OF EQUIPMENT MAINTENANCE DD.MM.YY PAGE-999

STATION NAME : XXX-XXX-99

EQUIPMENT NAME	EQUIPMENT POPULAR NAME	OBJECT NO.	TYPE	END DATE OF WORK	*1	*2	EXECUTOR NAME	*3	*4	*5	MAINTENANCE COST US$	RP1000	REPORT NO.
XX-999	XXXXXXXXXXXXXXXXXXXX	9999999	9	DD.MM.YYYY	XX	X.X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	9	99.99.99	9	99.999.999	9.999.999	999999999
				DD.MM.YYYY	XX	X.X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	9	99.99.99	9	99.999.999	9.999.999	999999999
				DD.MM.YYYY	XX	X.X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	9	99.99.99	9	99.999.999	9.999.999	999999999
							EQUIPMENT TOTAL				99.999.999	9.999.999	
XX-999	XXXXXXXXXXXXXXXXXXXX	9999999	9	DD.MM.YYYY	XX	X.X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	9	99.99.99	9	99.999.999	9.999.999	999999999
				DD.MM.YYYY	XX	X.X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	9	99.99.99	9	99.999.999	9.999.999	999999999
							EQUIPMENT TOTAL				99.999.999	9.999.999	
							STATION TOTAL				99.999.999	9.999.999	

*1 Period of work

*2 Kind of organization (for executor)

*3 Kind of repair

*4 Kind of inspection

*5 Result of inspection

(R9)

EQUIPMENT MAINTENANCE COST DATA BY FISCAL YEAR DD.MM.YY PAGE-999

STATION NAME : XXX-XXX-99

EQUIPMENT NAME	EQUIPMENT POPULAR NAME	OBJECT NO.	TYPE	EQUIPMENT COST US$	COST RP1000	DATE OF INSTALLATION	FISCAL YEAR	MAINTENANCE COST PER FISCAL YEAR US$	MAINTENANCE COST PER FISCAL YEAR RP1000
XX-999	XXXXXXXXXXXXXXXXXXX	9999999	9	99.999.999	9.999.999	MM YYYY	YYYY	99.999.999	9.999.999
							YYYY	99.999.999	9.999.999
							YYYY	99.999.999	9.999.999
						EQUIPMENT TOTAL		99.999.999	9.999.999
XX-999	XXXXXXXXXXXXXXXXXXX	9999999	9	99.999.999	9.999.999	MM YYYY	YYYY	99.999.999	9.999.999
							YYYY	99.999.999	9.999.999
							YYYY	99.999.999	9.999.999
						EQUIPMENT TOTAL		99.999.999	9.999.999
	STATION TOTAL			99.999.999	9.999.999			99.999.999	9.999.999

(H10)

SYSTEM'S EQUIPMENT DATA DD.MM.YY PAGE-999

STATION NAME : XXX-XXX-99

EQUIP-MENT NAME	EQUIPMENT POPULAR NAME	OBJECT NO.	TY-PE	NAME OF MANUFACTURER	DATE OF INSTAL-LATION	EQUIPMENT COST US$	COST RPT000	INVOICE NO.	DRAWING NO.	DOCUMENT NO.
(SYSTEM NAME : XXXXXXXXXXXXXXXXXXX_XX-999)										
XX-999	XXXXXXXXXXXXXXXXXXX	999999	9	XXXXXXXXXXXXXXXXXXX	MM.YYYY	99,999,999	9,999,999	999999999	999999999	999999999
					SYSTEM TOTAL	99,999,999	9,999,999			
(SYSTEM NAME : XXXXXXXXXXXXXXXXXXX_XX-999)										
XX-999	XXXXXXXXXXXXXXXXXXX	999999	9	XXXXXXXXXXXXXXXXXXX	MM.YYYY	99,999,999	9,999,999	999999999	999999999	999999999
					SYSTEM TOTAL	99,999,999	9,999,999			
					STATION TOTAL	99,999,999	9,999,999			

AI-585

NOTE 1

(KIND OF EQUIPMENT)

SEPARATOR	[M3/D][STD.M3/D][KG/CM2 G]
VESSEL TANK	[M3] [KG/CM2 G]
ABSORBER	[KG/H] [L/MIN] [KG/CM2 G]
STRIPPER	[KG/H] [L/MIN] [KG/CM2 G]
FILTER	[M3/D][STD.M3/D][KG/CM2 G]
ADSORBER	[KG/H][KG/CM2 G]
STORAGE TANK	[M3] [CM H2O G]
HEAT EXCHANGER	[KCAL/H] [M2]
FIRED HEATER	[KCAL/H] [M2]
REFRIGERATER	[KCAL/H] [M3/H]
PUMP	[M3/H] [KG/CM2]
COMPRESSOR	[STD.M3/H] [KG/CM2]
GENERATOR	[KVA] [VOLT]
FAN OR BLOWER	[STD.M3/H] [CM H2O]
AGITATOR	[KW] [M3/EACH]
ELECTRIC MOTOR	[KW] [RPM]
IGNITION ENGINE	[KW] [RPM]
STEAM ENGINE	[KW] [SPM]
GAS TURBINE	[KW] [RPM]
STEAM TURBINE	[KW] [RPM]
FIRE FIGHTING SYSTEM	[L/MIN] [KG/MIN] [MIN]

NOTE 2

(KIND OF EQUIPMENT)	(MAIN SPECIFICATION)	(KIND OF EQUIPMENT)	(MAIN SPECIFICATION)
SEPARATOR	FLOW RATE (LIQ.) [M3/D] FLOW RATE (GAS) [STD. M3/D] PRESSURE [KG/CM2 G]	GENERATOR	OUTPUT VOLTAGE CAPACITY [KVA] [VOLT]
VESSEL TANK	VOLUME [M3] PRESSURE [KG/CM2 G]	FAN OR BLOWER	FLOW RATE HEAD [STD. M3/D] [CM H2O G]
ADSORBER	FLOW RATE [KG/H] PRESSURE [KG/CM2 G]	AGITATOR	POWER [KW] VOLUME [M3/EACH]
STRIPPER	FLOW RATE [KG/H] PRESSURE [KG/CM2 G]	ELECTRIC MOTOR	POWER [KW] SPEED [RPM]
FILTER	FLOW RATE (LIQ.) [M3/D] FLOW RATE (GAS) [STD. M3/D] PRESSURE [KG/CM2 G]	IGNITION ENGINE	POWER [KW] SPEED [RPM]
ADSORBER	FLOW RATE [KG/H] PRESSURE [KG/CM2 G]	STEAM ENGINE	POWER [KW] SPEED [RPM]
STORAGE YARD	VOLUME [M3] PRESSURE [CM H2O G]	GAS TURBINE	POWER [KW] SPEED [RPM]
HEAT EXCHANGER	THERMAL DUTY [KCAL/H] SURFACE AREA [M2]	STEAM TURBINE	POWER [KW] SPEED [RPM]
FIRED HEATER	THERMAL DUTY [KCAL/H] SURFACE AREA [M2]	FIRE FIGHTING SYSTEM	FLOW RATE (LIQ.) [M3/D] TYPE (OTHER) [KG/MIN] DURATION [MIN]
REFRIGERATOR	THERMAL DUTY [KCAL/H] FLOW RATE (BRINE) [M3/H]		
PUMP	FLOW RATE [M3/H] HEAD [KG/CM2]		
COMPRESSOR	FLOW RATE [STD. M3/H] HEAD [KG/CM2]		

PAGE

9 I-Pipeline Information

```
PIPELINE INFORMATION                              DD.MM.YY            PAGE-999

END POINT OF PIPELINE

   FACILITIES FIELD NAME      :  XXXXXXXXXXXXXXXXXXXXXXXX
   STATION NAME               :  XXX-XXX-99
   PIPELINE NO.               :  99
   PROVINCE NAME              :  XXXXXXXXXX
   FIELD OFFICE NAME          :  XXXXXXXXXX

STARTING POINT OF PIPELINE

   FACILITIES FIELD NAME      :  XXXXXXXXXXXXXXXXXXXXXXXX
   NAME OF WELL OR STATION    :  XXX-XXX-99
```

```
P I P E L I N E   R E S U M E

  DATE OF INSTALLATION          :  MM.YYYY

  DATE OF WRITE-OFF             :  MM.YYYY

  OBJECTIVE AT INSTALLATION     :  XXXXXXXXXX

  MAJOR DATA OF PIPELINE

     NOMINAL SIZE               :     99.999  [INCH]
     LENGTH OF PIPELINE         :  999999     [M]
     DESIGN PRESSURE            :    9999.9   [KG/CM2 G]

  LINEPIPE

     KIND                       :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
     SPECIFICATION              :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

  TYPE OF CONNECTION            :  XXXXXXX

  TYPE OF VALVE                 :  XXXXXXXXX

  DRAWING

     TITLE                      :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
     DATE                       :  DD.MM.YYYY
     DRAWING NO.                :  XXXXXXXXX

  EXECUTOR

     KIND OF ORGANIZATION       :  XXXXXXXXX
     NAME OF ORGANIZATION       :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

  PIPELINE COST

     US$                        :  99,999,999
     RP1000                     :   9,999,999

  INVOICE

     TITLE                      :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
     DATE                       :  DD.MM.YYYY
     INVOICE NO.                :  XXXXXXXXX

                                                                                  ( IO-1 )
```

PIPELINE INFORMATION DD.MM.YY PAGE-999

ORDER DOCUMENT

TITLE : XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
DATE : DD.MM.YYYY
DOCUMENT NO. : XXXXXXXXX

(10-1)

```
                    PIPELINE INFORMATION                                    DD.MM.YY              PAGE-999

P I P E L I N E   M A I N T E N A N C E

  MAINTENANCE NO.                  :  999

  WORK PERIOD                      :  DD.MM.YYYY - DD.MM.YYYY

  KIND OF WORK

       KIND OF INSPECTION          :  XXXXXXXXXXXXXXXXXXXXXXXXX
       KIND OF REPAIR              :  XXXXXXXXXXXXXXXXXXXX

  EXECUTOR

       KIND OF ORGANIZATION        :  XXXXXXXXX
       NAME OF ORGANIZATION        :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

  POSITION OF PIPELINE             :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
       INSPECTED AND/OR               XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
       REPAIRED                       XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

  RESULT OF INSPECTION             :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

  REPORT

       TITLE                       :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
       DATE                        :  DD.MM.YYYY
       REPORT NO.                  :  XXXXXXXXX

  MAINTENANCE COST

       MATERIAL US$                :  99.999.999
       MATERIAL RP1000             :   9.999.999
       WORK US$                    :  99.999.999
       WORK RP1000                 :   9.999.999

  INVOICE

       TITLE                       :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
       DATE                        :  DD.MM.YYYY
       INVOICE NO.                 :  XXXXXXXXX

  ORDER DOCUMENT

       TITLE                       :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
       DATE                        :  DD.MM.YYYY
       DOCUMENT NO.                :  XXXXXXXXX
                                                                                                        ( 10-1 )
```

```
          PIPELINE INFORMATION                                   DD.MM.YY          PAGE 999

    END POINT OF PIPELINE

        FACILITIES FIELD NAME       :   XXXXXXXXXXXXXXXXXXXXXXXXX
        STATION NAME                :   XXX-XXX-99
        PIPELINE NO.                :   99
        PROVINCE NAME               :   XXXXXXXXXX
        FIELD OFFICE NAME           :   XXXXXXXXXX

    STARTING POINT OF PIPELINE

        FACILITIES FIELD NAME       :   XXXXXXXXXXXXXXXXXXXXXXXXX
        NAME OF WELL OR STATION     :   XXX-XXX-99
```

```
P I P E L I N E   R E S U M E

   DATE OF INSTALLATION            :  MM.YYYY

   DATE OF WRITE-OFF               :  MM.YYYY

   OBJECTIVE AT INSTALLATION       :  XXXXXXXXXXX

   MAJOR DATA OF PIPELINE

       NOMINAL SIZE                :       99.999 [INCH]
       LENGTH OF PIPELINE          :  999999      [M]
       DESIGN PRESSURE             :    9999.9    [KG/CM2 G]

   LINEPIPE

       KIND                        :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
       SPECIFICATION               :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

   TYPE OF CONNECTION              :  XXXXXXX

   TYPE OF VALVE                   :  XXXXXXXXX

   DRAWING

       TITLE                       :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
       DATE                        :  DD.MM.YYYY
       DRAWING NO.                 :  XXXXXXXXX

   EXECUTOR

       KIND OF ORGANIZATION        :  XXXXXXXXX
       NAME OF ORGANIZATION        :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

   PIPELINE COST

       US$                         :  99,999,999
       RP1000                      :   9,999,999

   INVOICE

       TITLE                       :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
       DATE                        :  DD.MM.YYYY
       INVOICE NO.                 :  XXXXXXXXX

                                                                        ( 10-11 )
```

```
                PIPELINE INFORMATION                           DD.MM.YY          PAGE 999

   ORDER DOCUMENT

      TITLE               :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      DATE                :  DD.MM.YYYY
      DOCUMENT NO.        :  XXXXXXXXX
```

PAGE=999

DD/MM/YY

PIPELINE INFORMATION

END POINT OF PIPELINE

FACILITIES FIELD NAME : XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

STATION NAME : XXX=XXX=99

PIPELINE NO. : 99

PROVINCE NAME : XXXXXXXXXX

FIELD OF FACE NAME : XXXXXXXXXX

STARTING POINT OF PIPELINE

FACILITIES FIELD NAME : XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

NAME OF WELL OR STATION : XXX=XXX=99

(10-12)

```
                              PIPELINE INFORMATION                              DD.MM.YY          PAGE-999

P I P E L I N E   M A I N T E N A N C E

   MAINTENANCE NO.               :  999

   WORK PERIOD                   :  DD.MM.YYYY - DD.MM.YYYY

   KIND OF WORK

      KIND OF INSPECTION         :  XXXXXXXXXXXXXXXXXXXXXXXXXX
      KIND OF REPAIR             :  XXXXXXXXXXXXXXXXXXXX

   EXECUTOR

      KIND OF ORGANIZATION       :  XXXXXXXXX
      NAME OF ORGANIZATION       :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

   POSITION OF PIPELINE          :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      INSPECTED AND/OR              XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      REPAIRED                      XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

   RESULT OF INSPECTION          :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

   REPORT

      TITLE                      :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      DATE                       :  DD.MM.YYYY
      REPORT NO.                 :  XXXXXXXXX

   MAINTENANCE COST

      MATERIAL US$               :  99.999.999
      MATERIAL RP1000            :   9.999.999
      WORK US$                   :  99.999.999
      WORK RP1000                :   9.999.999

   INVOICE

      TITLE                      :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      DATE                       :  DD.MM.YYYY
      INVOICE NO.                :  XXXXXXXXX

   ORDER DOCUMENT

      TITLE                      :  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      DATE                       :  DD.MM.YYYY
      DOCUMENT NO.               :  XXXXXXXXX

                                                                                                          (10-12)
```

SUMMARY OF PIPELINE DD.MM.YY

FACILITIES FIELD NAME AT PIPELINE END POINT : XXXXXXXXXXXXXXXXXXXXXXXXX

PIPE LINE NO.	WELL OR STATION *1	MAJOR SPECIFICATION N. *2	SIZE [INCH]	LENGTH [M]	O.PRESS. [KG/CM2]	*3	LINEPIPE SPECIFICATION	DRAWING NO.	*4	PIPELINE COST US$	RP1000	DATE OF INSTALLATION	INVOICE NO.	DOCUMENT NO.
(STATION NAME AT PIPELINE END POINT : XXX-XXX-99)														
XX	XXX-XXX-99	9	99.999	999999	9999.9	9	XXXXXXXXXXXXXXXXXXXXXXXXX	99999999	9,9	99,999,999	9,999,999	MM.YYYY	99999999	99999999
							STATION TOTAL			99,999,999	9,999,999			
(STATION NAME AT PIPELINE END POINT : XXX-XXX-99)														
XX	XXX-XXX-99	9	99.999	999999	9999.9	9	XXXXXXXXXXXXXXXXXXXXXXXXX	99999999	9,9	99,999,999	9,999,999	MM.YYYY	99999999	99999999
							STATION TOTAL			99,999,999	9,999,999			
							FACILITIES FIELD TOTAL			99,999,999	9,999,999			

*1 Well or station at pipeline starting point

*2 Objective at installation

*3 Kind of linepipe

*4 Kind of organization (for executor)

(II)

PIPELINE COST DATA BY KIND OF LINEPIPE　　DD.MM.YY　　PAGE-999

KIND OF LINEPIPE : XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

END POINT (STATION)	PIPE LINE NO.	STARTING POINT (STATION)	*)	MAJOR SPECIFICATION N. SIZE [INCH]	LENGTH [M]	D.PRESS [KG/CM2]	LINEPIPE SPECIFICATION	PIPELINE COST US$	RP1000	COST/LENGTH [US$/M]	[RP/M]	DATE OF INSTAL-LATION
(FACILITIES FIELD NAME AT PIPELINE END POINT : XXXXXXXXXXXXXXXXXXXXXXXXX)												
XXX-XXX-99	XX	XXX-XXX-99	9	99.999	999999	9999.9	XXXXXXXXXXXXXXXXXXXXXXXXX	99,999,999	9,999,999	9,999,999	9,999,999	MM.YYYY
							FACILITIES FIELD TOTAL	99,999,999	9,999,999			
(FACILITIES FIELD NAME AT PIPELINE END POINT : XXXXXXXXXXXXXXXXXXXXXXXXX)												
XXX-XXX-99	XX	XXX-XXX-99	9	99.999	999999	9999.9	XXXXXXXXXXXXXXXXXXXXXXXXX	99,999,999	9,999,999	9,999,999	9,999,999	MM.YYYY
							FACILITIES FIELD TOTAL	99,999,999	9,999,999			
							LINEPIPE TOTAL	99,999,999	9,999,999			

*) Objective at installation

(12)

PIPELINE COST DATA BY FISCAL YEAR   DD.MM.YY   PAGE-999

FISCAL YEAR : YYYY

DATE OF INSTAL-LATION	END POINT (STATION)	PIPE-LINE NO.	STARTING POINT (STATION)	*1	N.	MAJOR SPECIFICATION SIZE [INCH]	LENGTH [M]	D.PRESS [KG/CM2]	*2	LINEPIPE SPECIFICATION	PIPELINE US$	COST RP1000
MM.YYYY	XXX-XXX-99	XX	XXX-XXX-99	9		99.999	999999	9999.9	9	XXXXXXXXXXXXXXXXXXXXXXXXXX	99,999,999	9,999,999
MM.YYYY	XXX-XXX-99	XX	XXX-XXX-99	9		99.999	999999	9999.9	9	XXXXXXXXXXXXXXXXXXXXXXXXXX	99,999,999	9,999,999
										FISCAL YEARLY TOTAL	99,999,999	9,999,999

*1 Objective of construction

*2 Kind of linepipe

(13)

SUMMARY OF PIPELINE MAINTENANCE DD.MM.YY PAGE-999

PIPE-LINE NO.	STARTING POINT (STATION)	*1	N.SIZE [INCH]	END DATE OF WORK	*2	*3	EXECUTOR NAME	*4	*5	*6	MAINTENANCE COST US$	RP1000	INVOICE NO.	DOCUMENT NO.	REPORT NO.
(STATION NAME AT PIPELINE END POINT : XXX-XXX-99)															
XX	XXX-XXX-99	X	99.999	DD.MM.YY	99	X.X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	9	9.9.9	9	99,999,999	9,999,999	999999999	999999999	99999999
				DD.MM.YY	99	X.X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	9	9.9.9	9	99,999,999	9,999,999	999999999	999999999	99999999
				DD.MM.YY	99	X.X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	9	9.9.9	9	99,999,999	9,999,999	999999999	999999999	99999999
							PIPELINE TOTAL				99,999,999	9,999,999			
XX	XXX-XXX-99	X	99.999	DD.MM.YY	99	X.X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	9	9.9.9	9	99,999,999	9,999,999	999999999	999999999	99999999
				DD.MM.YY	99	X.X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	9	9.9.9	9	99,999,999	9,999,999	999999999	999999999	99999999
							PIPELINE TOTAL				99,999,999	9,999,999			
							STATION TOTAL				99,999,999	9,999,999			
(STATION NAME AT PIPELINE END POINT : XXX-XXX-99)															
XX	XXX-XXX-99	X	99.999	DD.MM.YY	99	X.X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	9	9.9.9	9	99,999,999	9,999,999	999999999	999999999	99999999

*1 Kind of linepipe

*2 Period of work (days)

*3 Kind of organization (for executor)

*4 Kind of repair

*5 Kind of inspection

*6 Result of inspection

(14)

PIPELINE MAINTENANCE COST DATA BY FISCAL YEAR DD.MM.YY PAGE-999

FACILITIES FIELD NAME AT PIPELINE END POINT : XXXXXXXXXXXXXXXXXXXXXXX

PIPE-LINE NO.	STARTING POINT (STATION) *1	N	SIZE (INCH)	DATE OF INSTAL-LATION	CONSTRUCTION COST US$	CONSTRUCTION COST RP1000	FISCAL YEAR	MAINTENANCE COST US$	MAINTENANCE COST RP1000
(STATION NAME AT PIPELINE END POINT : XXX-XXX-99)									
XX	XXX-XXX-99	9	99.999	MM.YYYY	99,999.999	9,999.999	YYYY	99,999.999	9,999.999
							YYYY	99,999.999	9,999.999
							YYYY	99,999.999	9,999.999
							YYYY	99,999.999	9,999.999
					PIPELINE TOTAL			99,999.999	9,999.999
XX	XXX-XXX-99	9	99.999	MM.YYYY	99,999.999	9,999.999	YYYY	99,999.999	9,999.999
							YYYY	99,999.999	9,999.999
							YYYY	99,999.999	9,999.999
					PIPELINE TOTAL			99,999.999	9,999.999
					STATION TOTAL			99,999.999	9,999.999
(STATION NAME AT PIPELINE END POINT : XXX-XXX-99)									
XX	XXX-XXX-99	9	99.999	MM.YYYY	99,999.999	9,999.999	YYYY	99,999.999	9,999.999
							YYYY	99,999.999	9,999.999
							YYYY	99,999.999	9,999.999
					PIPELINE TOTAL			99,999.999	9,999.999
					STATION TOTAL			99,999.999	9,999.999
					FACILITIES FIELD TOTAL			99,999.999	9,999.999

*1 Kind of line pipe

(15)

APPENDIX II

METHOD OF ASSIGNMENT

FOR

THE PETROLEUM EXPLORATION AND PRODUCTION DATA

BANK SYSTEM OF PERTAMINA UNIT EP-II

INTRODUCTORY REMARKS

This APPENDIX refers to the method of assignment by which the output report can be produced from the Petroleum Exploration and Production Data Bank System.

As described in "the Report of Conceptual System Design", each of output reporting methods has a respective set of assignment parameters which limit a scope of data to be output. Three hundres and thirty (330) reporting methods are classified into twenty-six (26) output reporting method groups, each of which holds some of assignment parameters in common. Consequently, each output reporting method group has their common assignment parameters other than the independent assignment parameters which are used independently for over more than two groups.

In application to computer, accordingly, assignment parameter cards for outputing reports are organized as follows,

Header Card
Independent Assignment Cards
End Card

A header card is for assignment parameters which are held in common by a group, independent assignment cards are for assignment parameters which are used independently for over more than two groups and an end card is used for marking end of assignment.

In this APPENDIX, relation of output reporting method and assignment parameters is shown in Paragraph 1 by output reporting method groups, header card layout is shown in Paragraph 2 by output reporting method groups and independent assignment cards layout is shown in Paragraph 3.

Remarks related to this APPENDIX are made as follows.

1. As shown in Paragraph 1, assignment parameters, which is held in common by a group, are collected all together in one header card, while assignment parameters, which are used independently for over more than two groups, are collected in separate cards respectively.

2. As for Paragraph 1, followings are noted.

- The mark "○" stands for the assignment parameters to be used in the corresponding output reporting method and an error message comes out at a misuse of the assignment parameters without a mark "○".
- The mark "◎" stands for the indispensable assignment parameters and an error message comes out when it happens to fail to assign them.
- The figure in the mark "ⓝ" stands for the number limit of codes for assignment to be used.

3. As shown in Paragraph 2, assignment parameters in a header card are put by the name of the corresponding code which is referred to APPENDIX IV, together with their position in the card and their data properties.

4. As shown in Paragraph 3, assignment parameters in independent assignment cards layout are marked by the name of the corresponding code. These all codes are also referred to APPENDIX IV.

5. As for the function of assignment parameters, it is noted that the mutual relation of more than two assignment parameters is mathematically "Conjunction (And)", while the mutual relation of codes for an assignment parameter is "Union (Or)".

6. Among codes corresponding to assignment parameters, there are hierarchical codes such as "Kind of geological survey", "Kind of geological analysis", "Kind of map and figure (geology)", "Kind of map (geophysics)" and "Kind of report (geophysics)".

Example:

- Kind of geological survey
  - 10 (Geological field)
  - 11 Regional mapping
  - 12 Structural mapping

13 Stratigraphic mapping

14 Reconnaissance sampling

15 Other geological field

In this case, assignment of all the data can be made by using code 10 instead of assigning 11, 12, 13, 14 and 15.

7. Method of assignment for "Period" is such as follows.

	From	To	Explanation
- Typical case	01051979	05011980	All the data during the period from May 1, 1979 to Jan. 5, 1980
- Exception	01051980	(blank)	All the data since May 1, 1980
	(blank) 1980	(blank)	All the data since Jan. 1, 1980
	(blank)	(blank) 1980	All the data before Dec. 31,1980
	(blank) 051980	(blank) 051980	All the data during the period of may, 1980

8. Method of assignment for "Water cut" is such as follows.

	From	To	Explanation
- Typical case	050	070	50 ≦ "Water cut" ≦ 70 [%]
- Exception	050	(blank)	50 ≦ "Water cut" [%]
	(blank)	070	"Water cut" ≦ 70 [%]

9. Method of assignment for "Gas-oil ratio" is such as follows.

	Form	To	Explanation
- Typical case	010000	015000	10,000 ≦ "Gas-oil ratio" ≦ 15,000 [Mm^3/m^3]
- Exception	010000	(blank)	10,000 ≦ "Gas-oil ratio" [Mm^3/m^3]
	(blank)	015000	"Gas-oil ratio" ≦ 15,000 [Mm^3/m^3]

10. As for assignment for "Main specification" of equipment in the independent card "Kind of equipment & specification", followings are noted as examples.

Examples

Method of assignment for "Main specification" of storage tank

	Form	To	Explanation
- Typical case	010	100	10 ≦ "Volume of tank" ≦ 100 [m^3]
- Exception	010	(blank)	10 ≦ "Volume of tank" [m^3]
	(blank)	100	"Volume of tank" ≦ 100[m^3]
	(blank)	(blank)	

11. Method of assignment for "Nominal Size" of pipeline is such as follows.

	From	To	Explanation
- Typical case	02500	10000	2.5 ≦ "Nominal Size" ≦ 10.0 [inch]
- Exception	02500	(blank)	2.5 ≦ "Nominal Size" [inch]
	(blank)	10000	"Nominal Size" ≦ 10.0 [inch]

12. As for "header card layout by method groups", followings noted.

- "HEADBR " is punched in the first ten (10) columns as Card-id (Card identification) for a header card.
- The headword "Position" shows the column number starting data.
- Regarding the headword "Property", reference are made to following examples.

  X(3); area of three digits in character
  ex. [F][A][F]

  9(2); area of two digits in numeric number
  ex. [7][3]

  X(3)*2; two times occurrence of X(3)
- "DD", "MM" and "YY" shows Date, Month and Year respectively.

13. As for "Independent assignment cards layout", the followings are noted.

The following names are punched in the first ten (10) columns for Card-id (Card identification) of each independent assignment card.

- "AREA " (for "Area card")
- "FIELD " (for "Field card")
- "FACILITY " (for "Facilities field card")
- "STATION " (for "Station card")
- "FORMATION " (for "Formation card")
- "RESERVOIR " (for "Reservoir unit card")
- "LAYER " (for "Layer card")
- "WELL " (for "Well card")
- "MAP " (for "Map card")
- "REPORT " (for "Report card")
- "CONTRACT " (for "Contract card")
- "GLSURVEY " (for "Geological survey card")
- "GLANALYSIS" (for "Geological analysis card")
- "GPSURVEY " (for "Geophysical survey card")
- "PET/PVT " (for "Petrophysical and PVT analysis card")
- "TEST/STIM " (for "Well test and stimulation card")
- "LABORATORY" (for "Field laboratory fluid analysis card")
- "EQUIPMENT " (for "Equipment card")

- "K/EQUIP " (for "Kind of equipment & specification card")
- "MANUFAC " (for "Manufacturer card")
- "PIPELINE " (for "Pipeline card")
- "CONTRACTOR" (for "Contractor card")
- "OPERATOR " (for "Operator card")
- "K/ANALYSIS" (for "Kind of analysis performed card")
- "COMPANY " (for "Company card")
- "K/TEST " (for "Kind or type of well test and stimulation card")
- "BS-NO " (for "Block station card")

- Ex. "Field code *20" indicates that the maximum twenty (20) codes can be punched in a card.

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1-1 A-Geological Data and Contract Area Information

(1) Contract area

Card Name	Method / Parameter	A0-1	A0-11	A0-12	A1	A2		
Header	Province code	○	○	○	○	○		
	Kind of contract	○	○	○	○	○		
	Period *1	○	○	○	○	○		
Contract	Contract code	(20)	(20)	(20)				
Contractor	Contractor code	(20)	(20)	(20)	(20)	(20)		
Operator	Operator code	(20)	(20)	(20)	(20)	(20)		

*1 Followings are retrieved.

Date of contract A0-1, A0-11, A1

Relinquished date A0-12, A2

(2) Geological survey

Card Name	Parameter \ Method	A0-2	A3					
Header	Area code	○	○					
	Kind of geological survey	○	○					
	PERTAMINA or contractor		○					
	Period *1	○	○					
Geological survey	Geological survey code	(20)						

*1 Survey period is retrieved.

(3) Geological analysis

Card Name	Parameter \ Method	A0-3	A4					
Header	Area code	○	○					
	Kind of geological analysis	○	○					
	PERTAMINA or contractor		○					
	Period *1	○	○					
Field	Field code	(20)	(20)					
Geological analysis	Geological analysis code	(20)						
Well	Well code	(20)						

*1 Followings are retrieved.

A0-3 ..... Analysis period

A4 ..... (in case of map)
Prepared or revised date

(in case of report)
Reported date

(4) MAP, figure and report

Card Name	Method / Parameter	A0-5	A0-6	A6	A7			
Header	Area code	○	○	○	○			
	Kind of map	○		○				
	Kind of report		○		○			
	Point coodinate *1	○		○				
	Scale	○		○				
	Sorting pattern			◎	◎			
	Period *2	○	○	○	○			
Field	Field code	(20)		(20)	(20)			
Formation	Formation code	(7)		(7)				
Map	Map code	(20)		(20)				
Report	Report code		(20)		(20)			

*1 In case of map

*2 Followings are retrieved.

Prepared or revised date A0-5, A6

Reported date A0-6, A7

(5) Miscellaneous (1/2)

Card Name	Method / Parameter	A0-4	A5	A8	A9	A10	A11	A12
Header	Area code	○	○	○	○	○	○	
	Kind of geological survey		○					
	Kind of geological analysis		○					
	Type of trap	○						
	Objective of well		○	○	○	○	○	
	PERTAMINA or contractor *1		○					
	Kind of geophysical survey		○					
	Period *2	○	○		○	○		
Field	Field code	(20)		(20)	(20)	(20)	(20)	(20)
Well	Well code			(20)	(20)	(20)	(20)	(20)
Formation	Formation code			(8)	(8)	(8)	(8)	

*1 In case of geological data

*2 Followings are retrieved.

A0-4 ..... Period (PAD01PRO)

A5 ..... (in case of geological survey)
Survey period
(in case of geophysical survey)
Period for field operation
(in case of geophysical survey data processing)
Period (PBA05DPR)

(in case of exploration drilling)
Rig release date (Original well)
(in case of geological analysis)
Analysis period

A9, A10 ..... Rig release date

(5) Miscellaneous (2/2)

Card Name	Parameter \ Method	A13	A14	A15				
Header	Area code	○	○	○				
	Kind of geological survey							
	Kind of geological analysis							
	Type of trap	○		○				
	Objective of well							
	PERTAMINA or contractor							
	Kind of geophysical survey							
	Period *1	○	○	○				
Field	Field code	20	20	20				
Well	Well code							
Formation	Formation code		8	8				

*1 Period (PAD01PRO) is retrieved.

1-2 B-Geophysical Data Information

(1) Basic output (1/3)

Card Name	Method / Parameter	B0-1	B0-11	B0-12	B0-13	B0-14	B0-15	B0-2
Header	Area code *1	○	○	○	○	○	○	○
	Method of survey	○	○	○	○	○	○	
	Period *2	○	○	○	○	○	○	○
Field	Field code	(20)	(20)	(20)	(20)	(20)	(20)	(20)
Geophysical survey	Geophysical survey code	(10)	(10)	(10)	(10)	(10)	(10)	(10)
Well	Well code							

*1 Main area code and area code are retrieved.

*2 Followings are retrieved.

Period for survey B0-1, B0-2
Period for field operation B0-11
Period (PBA05DPR) B0-12
Period (PBA09INT) B0-13, B0-14, B0-15

(1) Basic output (2/3)

Card Name	Method / Parameter	B0-21	B0-22	B0-23	B0-24	B0-3	B0-31	B0-32
Header	Area code *1	○	○	○	○	○	○	○
	Method of survey							
	Period *2	○	○	○	○	○	○	○
Field	Field code	(20)	(20)	(20)	(20)	(20)	(20)	(20)
Geophysical survey	Geophysical survey code	(10)	(10)	(10)	(10)	(10)	(10)	(10)
Well	Well code							

*1 Main area code and area code are retrieved.

*2 Followings are retrieved.

Period for survey B0-3
Period for field operation B0-21, B0-31
Period (PBA05DPR) B0-22, B0-32
Period (PBA09INT) B0-23, B0-24

(1) Basic output (3/3)

Card Name	Method / Parameter	B0-33	B0-34	B0-4	B0-5			
Header	Area code *1	○	○	○	○			
	Method of survey							
	Period *2	○	○	○	○			
Field	Field code	20	20	20	20			
Geophysical survey	Geophysical survey code	10	10	10	10			
Well	Well code			10				

*1 Main area code and area code are retrieved.

*2 Followings are retrieved.

Period for survey B0-4, B0-5

Period (PBA09INT) B0-33, B0-34

(2) Map and report

Card Name	Parameter \ Method	B5	B6	B15	B16	B17		
Header	Area code *1	○	○			○		
	Method of survey *2	○	○	○	○	○		
	Kind of map		○		○			
	Kind of report	○		○				
	Horizon code *3		○					
	Scale		○					
	Period *4	○	○	○	○	○		
Field	Field code	(20)	(20)			(20)		
Geophysical survey	Geophysical survey code			(10)	(10)	(10)		

*1 Main area code and area code are retrieved.

*2 In case of seismic survey

*3 Except magnetic map and gravity map

*4 Followings are retrieved.

Date (PBD01REP) B5, B15
Date (PBB01MAP) B6, B16
Date (PBC01SEC) B17

(3) Miscellaneous (1/2)

Card Name	Method / Parameter	B1	B2	B3	B4	B7	B8	B9
Header	Main area code	○	○	○	○		○	
	Area code	○	○	○	○	*1	○	*1
	Kind of geophysical survey and study	○	○	○	○	○	○	○
	Period *2	○	○	○	○	○	○	○
Geophysical survey	Geophysical survey					10		
Company	Company code	20	20				20	

*1 Main area code and area code are retrieved.

*2 Followings are retrieved.

B1, B2 ..... (in case of seismic, magnetic or gravity)
Period for field operation
(in case of well velocity, special study)
Period for survey

B3, B9 ..... Period for field operation

B4 ..... (in case of seismic, magnetic or gravity)
Period (PBA09INT)
(in case of special study)
Period for survey

B7 ..... Period for field operation and period (PBA05DPR)

B8 ..... Period for survey

(3) Miscellaneous (2/2)

Card Name	Method / Parameter	B10	B11	B12	B13	B14		
Header	Main area code	○	○	○	○	○		
	Area code	○	○	○	○	○		
	Kind of geophysical survey and study	○	○	○	○	○		
	Period *1	○	○	○	○	○		
Geophysical survey	Geophysical survey				(10)	(10)		
Company	Company code	(20)						

*1 Followings are retrieved.

Period for field operation B10, B11, B12

Period for survey B13, B14

1-3 C-Well Data Information

(1) Basic output

Card Name	Method / Parameter	C0-1	C0-11	C0-12	C0-13	C0-14	C0-15	C0-16
Header	Province code	○	○	○	○	○	○	○
	Area code	○	○	○	○	○	○	○
	Field office code	○	○	○	○	○	○	○
	Objective of well	○	○	○	○	○	○	○
	Objective of workover	○	○	○	○	○	○	○
	Completion status	○	○	○	○	○	○	○
	Workover number	◎	◎	◎	◎	◎	◎	◎
	Period *1	○	○	○	○	○	○	○
Field	Field code	(20)	(20)	(20)	(20)	(20)	(20)	(20)
Well	Well code	(20)	(20)	(20)	(20)	(20)	(20)	(20)

*1 Rig release date is retrieved.

(2) Completion

Card Name	Parameter \ Method	C8	C9	C10	C11	C12	C13	
Header	Area code	○	○	○	○	○	○	
	Completion status	○	○					
	String specification		○					
	Type of sub-surface pump			○				
	Macaroni pipe					○		
Field	Field code	(20)	(20)	(20)	(20)	(20)	(20)	
Well	Well code	(20)	(20)	(20)	(20)	(20)	(20)	
Formation	Formation code		(5)					
Layer *1	Field code Layer code		○					

*1 Field code 10
Layer code 20

(3) Drilling

Card Name	Method / Parameter	C14	C15	C16	C17	C18	C19	C20
Header	Area code	○	○	○	○	○	○	
	Bit size	○						
	Kind of trouble					○		
	Period *1	○	○	○		○	○	
Field	Field code	20	20	20	20	20	20	
Well	Well code	20	20	20	20	20	20	20
Formation	Formation code				7			
Layer *2	Field code Layer code							◎

*1 Followings are retrieved.

Spud date C14, C15, C16, C18
Rig release date C19

*2 Field code 10
Layer code 15

(4) Test

Card Name	Method / Parameter	C21	C22	C23	C24	C25	C26	C27
Header	Area code	○	○	○	○	○	○	○
	Objective of well	○	○	○	○	○	○	○
	Kind of log	○						
	Period *1	○	○	○	○	○	○	○
Field	Field code	(20)	(20)	(20)	(20)	(20)	(20)	(20)
Well	Well code	(20)	(20)	(20)	(20)	(20)	(20)	(20)
Formation	Formation code	(7)		(7)	(7)		(7)	
Layer *2	Field code Layer code			○	○		○	○

*1 Followings are retrieved.

Survey date	C21
Spud date	C22, C25
Coring date	C23
Sampling date	C24
Test period	C26
Tested date	C27

*2 Field code 10
Layer code 20

(5) Miscellaneous (1/2)

Card Name	Method / Parameter	C1	C2	C3	C4	C5	C6	C7
Header	Province code	○	○			○		
	Area code	○	○	○		○	○	○
	Field office code	○	○	○			○	
	Objective of well	○	○	○		○		○
	Objective of workover						○	
	Completion status							
	Completion status and date *1	○	○	○				
	Workover number							○
	Period *2	○	○	○		○	○	○
Field	Field code	(20)	(20)	(20)				(20)
Well	Well code	(20)	(20)	(20)				(20)
Layer *3	Field code Layer code				◎			

*1 Rig release date is retrieved.

*2 Followings are retrieved.

Rig release date (Original well) C1, C2, C3, C5

Rig release date (Workover well) C6

*3 Field code 10

Layer code 12

(5) Miscellaneous (2/2)

Card Name	Method / Parameter	C28	C29	C30	C31	C32	C33	
Header	Province code		(*1)	○				
	Area code	○	○	○	○	○	○	
	Field office code							
	Objective of well	○	○	○	○	○	○	
	Objective of workover			○	○			
	Completion status			○				
	Completion status and date							
	Workover number			○	○	○	○	
	Period *2	○	○	○	○	○	○	
Field	Field code	(20)		(20)	(20)	(20)	(20)	
Well	Well code			(20)	(20)	(20)	(20)	
Layer	Field code Layer code							

*1 Province code should not be assigned with area code.

*2 Followings are retrieved.

Rig release date C28, C29, C30, C31

Spud date C32, C33

1-4 D-Petrophysical and PVT Analysis Data information

(1) Petrophysical and PVT analysis

Card Name	Method / Parameter	D0-1	D1	D2	D3			
Header	Area code	○	○	○	○			
	Formation code	○						
	Kind of petro-physical and PVT analysis	○	○					
	Period *1	○	○	○	○			
Field	Field code	(20)	(20)	(20)	(20)			
Reservior unit *2	Field code Reservior unit code *3	○			○			
Layer *4	Field code Layer code *5	○		○				
Kind of analysis performed	Kind of analysis performed	(20)	(20)					
#1	Petrophysical and PVT analysis code	(20)						

#1 Petrophysical and PVT analysis

*1 Sampling date is retrieved.

*2 Field code 10
Reservoir unit code 10

*3 In case of PVT analysis

*4 Field code 10
Layer code 20

*5 In case of core analysis

1-5 E-Production Information

(1) Basic output

Card Name	Method / Parameter	E0-1	E0-2					
Header	Area code	○	○					
	Period *1	○	○					
Field	Field code	(20)	(20)					
Well	Well code	(20)	(20)					

*1 Followings are retrieved.

E0-1 ..... Date (PEA02MPR)
E0-2 ..... Date (PEA04MIJ)