Remarks

As for "Supplementary Explanation for Output Item" of
the output program specification for EPB55200 - EPB55220 in
this Paragraph, reference is made to the following tables.

Table-1   Output Item for Statistics

Table-2   Supplemental Headword

In segments PFA020SG and PFA03COG in APPENDIX III, the
following major data items are listed together with their
minor data items.

- Initial oil in place

- Oil reserves

- Oil production

- Initial solution gas in place

- Solution gas reserves

- Solution gas production

- Initial condensate in place

- Condensate reserves

- Condensate production

- Initial gas in place

- Gas reserves

- Gas production

- Gas injection

These major data items except for Initial oil in place,
Initial solution gas in place, Initial condensate in place,

and Initial gas in place, are subclassified into their minor data items by "Kind of recovery method". And also all these major data items subclassified into their minor data items by "Kind of reserves". In addition, condensate reserves and gas reserves are subclassified into two categories, high and low abandonment pressures by "Abandonment condition". These are used in the output reporting mehtods as assignment parameters and limit the respective output data.

When output data is assigned by "Kind of recovery method" to one of the followings, the indication is given on the cover of the output report and relevant data will be output.

1) Primary

2) Secondary

3) Tertiary

4) Primary + Secondary

5) Primary + Secondary + Tertiary

6) Secondary + Tertiary

When, furthermore, output data is assigned by "Kind of reserves" to one of the followings, the indication is given by output of the corresponding name in the position with asterisks in the output report layout and relevant data will be output.

1) Oil

2) Gas cap condensate

3) Non associated condensate

4) Total condensate

5) Oil & total condensate

6) Solution gas

7) Gas cap gas

8) Non associated gas

9) Total gas

Thus, the minor items of a major item will be identified by assignment parameters "Abandonment condition", "Kind of recovery method" and "Kind of reserves" in the output report layout.

Special note is made to three kinds, such as "Proven", "Probable" and "Possible", of all the major data items as to "In place" and "Reserves", and further to the discounted value which is defined as the value of "Proven", "Probable" and "Possible" multiplied by a discounted factor.

In Table-1, the description of output items is made by use of major data items. Supplemental headword in the output report layout are listed in Table-2 together with their description.

"Output Items for Statistics" and "Supplemental Headword" in "Supplementary Explanation for Output Item" are referred to Table-1 and Table-2 respectively as exampled in the following. In referring, the following is noted.

Note:

PROV.:   Proven

PROB.:   Probable

POSS.:   Possible

DIS.:   Discounted

"Unit of Statistics" in "Supplementary Explanation for Output Item" is the unit for statistics of the corresponding "Output Item for Statistics", which will be calculated and output by the respective output reporting methods. The following example is referred.

Example

Output Item for Statistics	Unit of Statistics
PROV.-1, 3, 4	Unit-II
PROB.-1, 3, 4	Area
POSS.-1, 3, 4	Field
DIS.-4	
2	

In this case, the data items of PROV.-1, 3, 4, PROB.-1, 3, 4, POSS.-1, 3, DIS.-4 and 2 are calculated and output by Unit II, by Areas and by Fields respectively.

Table-1, Output Item for Statistics (1/2)

Referrence is made to Table Note in page AVIII-243
as for this table.

No.	Output Item	Description
1	REMAINING RESERVES AT THE BEGINNING OF THE LAST YEAR	Applied to "Proven", "Probable" and "Possible" Reserves $(Y-1) - \sum^{Y-2}$ (Production - Injection)
2	PROD. & INJ. DUR. THE LAST YEAR	Production $(Y-1)$ Injection $(Y-1)$
3	EXTENSION OR REDUCTION REVISION DUR. THE LAST YEAR	Applied to "Proven", "Probable" and "Possible" Reserves (Y) - Reserves $(Y-1)$
4	REMAINIKG RESERVES AT THE BEGINNING OF THE YEAR	Applied to "Proven", "Probable", "Possible" and "Discounted" Reserves $(Y) - \sum^{Y-1}$ (Production - Injection)
5	INITIAL HYDROCARBON IN PLACE	Applied to "Proven", "Probable" and "Possible" In place (Y)
6	RECOVERABLE HYDROCARBON	Applied to "Proven", "Probable", "Possible" and "Discounted" Reserves (Y)

No.	Output Item	Description
7	RECOVERY FACTOR	Applied to "Proven", "Probable" and "Possible" $$\frac{\text{Reserves (Y)}}{\text{In place (Y)}} \times 100$$
8	PROD. & INJ. DUR. THE YEAR	Production (Y) Injection (Y)
9	EXTENSION OR REDUCTION BY REVISION DUR. THE YEAR	Applied to "Proven", "Probable" and "Possible" Reserves (Y + 1) - Reserves (Y)
10	REMAINING RESERVES AT THE END OF THE YEAR	Applied to "Proven", "Probable", "Possible and "Discounted" Reserves (Y + 1) $- \sum^{Y}$ (Production $-$ Injection)
11	PERCENTAGA RECOVERED OF INITIAL HYDROCARBON IN PLACE	$$\frac{\sum^{Y-1} \text{Production}}{\text{In place (Y)}} \times 100$$
12	PERCENTAGE RECOVERED OF RECOVERABLE HYDROCARBON	$$\frac{\sum^{Y-1} \text{Production}}{\text{Reserves (Y)}} \times 100$$
13	WITHDRAWAL RATE	$$\frac{\text{Production (Y-1)}}{\text{Reserves (Y)} - \sum^{Y-1} \text{Production}}$$

Table-2, Supplemental Headword

No.	Output Item	Description
1	AREA NAME	"Field code" in "PFA01RES"
2	FIELD NAME	"Field code" in "PFA01RES"
3	FORMATION NAME	"Formation code" in "PFA01RES"
4	RESERVOIR UNIT	"Reservoir unit code" in "PFA01RES"
5	TYPE OF RESERVOIR CONTENT	"Type of reservoir content" in "PFA01RES"
6	DEVELOPMENT STATUS	"Development status of reservoir unit" in "PFA02OSG" (in case "Kind of reserves" is "1" or "4") "Development status of reservoir unit" in "PFA03COG" (in case "Kind of reserves" is "2", "3", "5" or "6")
7	KIND OF RESERVES	Name of "Kind of Reserves"
8	YEAR	"Date" in "PFA02OSG" (in case "Kind of reserves" is "1" or "4") "Date" in "PFA03COG" (in case "Kind of reserves" is "2", "3", "5" or "6")

Table Note

Note 1; Reference is made to the segments PPA020SG and PPA03COG in APPENDIX III.

Note 2; "Reserves" is referred to the following major data items.

- Oil reserves

- Solution gas reserves

- Condensate reserves

- Gas reserves

"In place" is referred to the following major items

- Initial oil in place

- Initial solution gas in place

- Initial condensate in place

- Initial gas in place

"Production" is referred to the following major data items

- Oil production

- Solution gas production

- Condensate production

- Gas production

"Injection" is referred to the following major data items.

- Gas injection

Note 3; The following is noted as exampled.

Example

-Y; An assigned year

- Y-1; Year before an assigned year

- Reserves (Y-1); Reserves as of Jan. 1,Y-1

- Production (Y-1); Production during Y-1

-$\sum^{Y-1}$ Production; The cumulative production as of

Jan. 1, Y-1

(1)　EPB55100

Output Reporting Method

 - FO-1 Reserves information

Assignment Parameter

 - Header card of "Basic Output"

 - Independent assignment card
     - "Field Card"
     - "Reservoir Unit Card"

Segment Name

 　　　　(PFARESVS, "Reserves Data")
 - PFA01RES, "Reserves"
 - PFA02OSG, "Oil and Solution Gas"
 - PFA03COG, "Condensate and Gas"

Master File Name

 - Field master

Output Sequence

 - Area code
 - Field code
 - Reservoir unit code

Condition of Changing Page

 - Area code
 - Field code

(2) EPB55110

Output Reporting Method

- FO-2   Reservoir parameter information
- FO-21   Reservoir parameter of oil zone
- FO-22   Reservoir parameter of gas cap zone and gas reservoir

Assignment Parameter

- Header card of "Basic Output"

- Independent assignment card
    - "Field Card"
    - "Reservoir Unit Card"

Segment Name

(PPARESVS, "Reserves Data")
- PPA01RES, "Reserves"
- PPA02OSG, "Oil and Solution Gas"
- PPA03COG, "Condensate and Gas"

Master File Name

- Field master

Output Sequence

- Area code
- Field code
- Reservoir unit code

Condition of Changing Page

- Area code
- Field code
- Reservoir unit code
- Development status of reservoir unit
- Date

(3)   EPB55200

Output Reporting Method

- F1, F2, F3, F4
  (Remaining reserves)

Assignment Parameter

- Header card of "Reservoir"

- Independent assignment card
    - "Field Card"

Segment Name

(PFARESVS, "Reserves Data")
- PFA01RES, "Reserves"
- PFA02OSG, "Oil and Solution Gas"
- PFA03COG, "Condensate and Gas"

Master File Name

- Field master

Output Sequence

- F1   Area code, Field code
- F2   Formation code, Area code, Field code
- F3   Area code, Field code, Reservoir unit code
- F4   Area code, Field code, Reservoir unit code

Supplementary Explanation for Output Item

Output Reporting Method	Output Item for Statistics	Unit of Statistics	Supplemental Headword
P1	PROV.-1,3,4 PROB.-1,3,4 POSS.-1,3,4 DIS.-4 2,13	Unit-II, Area, Field	1,2
P2	PROV.-1,3,4 PROB.-1,3,4 POSS.-1,3,4 DIS.-4 2,13	Formation, Area, Formation by field	1,2,3
P3	PROV.-1,3,4 PROB.-1,3,4 POSS.-1,3,4 DIS.-4 2,13	Area, Field, Development status by reservoir unit	1,2,4,6
P4	PROV.-4 DIS.-4 11,12	Area, Field, Development status by reservoir unit	1,2,4,5,6

(4) EPB55210

Output Reporting Method

- F5, F6, F7, F8
    (Initial hydrocarbon in place and recoverable hydrocarbon)

Assignment Parameter

- Header card of "Reserves"

- Independent assignment card
    - "Field Card"

Segment Name

    (PFARESVS, "Reserves Data")
- PFA01RES, "Reserves"
- PFA02OSG, "Oil and Solution Gas"
- PFA03COG, "Condensate and Gas"

Master File Name

- Field master

Output Sequence

- F5 Area code, Field code
- F6 Formation code, Area code, Field code
- F7 Area code, Field code, Reservoir unit code
- F8 Area code, Field code, Reservoir unit code

Supplementary Explanation for Output Item

Output Reporting Method	Output Item for Station	Unit of Statistics	Supplemental Headword
F5	PROV.-5,6,7 PROB.-5,6,7 POSS.-5,6,7 DIS.-7	Unit-II, Area, Field	1,2
F6	PROV.-5,6,7 PROB.-5,6,7 POSS.-5,6,7 DIS.-7	Formation, Area, Formation by field	1,2,3
F7	PROV.-5,6,7 PROB.-5,6,7 POSS.-5,6,7 DIS.-7	Area, Field, Development status by reservoir unit	1,2,4,5,6
F8	PROV.-5,6,7 PROB.-5,6,7 POSS.-5,6,7 DIS.-7	Area, Field, Kind of reserves by development status by reservoir unit	1,2,4,5,6,7

(5)　EPB55220

Output Reporting Method

- F9, F10, F11, F12, F13, F14
  (Historical remaining reserves summary)

Assignment Parameter

- Header card of "Reserves"

- Independent assignment card
  - "Field Card"
  - "Reservoir Unit Card"

Segment Name

(PFARESVS, "Reserves Data")
- PFA01RES, "Reserves"
- PFA02OSG, "Oil and Solution Gas"
- PFA03COG, "Condensate and Gas"

Master File Name

- Field master

Output Sequence

- F9   Date
- F10 Area code, Date
- F11 Area code, Field code, Date
- F12 Formation code, Area code or field code, Date
- F13 Field code, Reservoir unit code, Date
- F14 Field code, Reservoir unit code, Date

Supplementary Explanation for Output Item

Output Reporting Method	Output Item for Statistics	Unit of Statistics	Supplemental Headword
P9	PROV.-4,9,10 PROB.-4,9,10 POSS.-4,9,10 DIS.-10 8, 13	Date	8
P10	PROV.-4,9,10 PROB.-4,9,10 POSS.-4,9,10 DIS.-10 8, 13	Date by area	1,8
P11	PROV.-4,9,10 PROB.-4,9,10 POSS.-4,9,10 DIS.-10 8,13	Date by field	1,2,8
P12	PROV.-4,9,10 PROB.-4,9,10 POSS.-4,9,10 DIS.-10 8,13	Date for formation by area or date for formation by field	1,2,3,8
P13	PROV.-4,9,10 PROB.-4,9,10 POSS.-4,9,10 DIS.-10 8, 13	Date by reservoir unit	2,4,8
P14	PROV.-4,9,10 PROB.-4,9,10 POSS.-4,9,10 DIS.-10 8, 11,12	Development status by date by reservoir unit	2,4,5,6,8

(6) EPB55230

Output Reporting Method

    - P15 Reservoir parameter for oil zone

Assignment Parameter

    - Header card of "Reservoir Parameter"

    - Independent assignment card
       - "Field Card"
       - "Reservoir Unit Card"

Segment Name

      (PFARESVS, "Reserves Data")
    - PFA01RES, "Reserves"
    - PFA02OSG, "Oil and Solution Gas"

Master File Name

    - Field master

Output Sequence

    - Area code
    - Field code
    - Reservoir unit code

Condition of Changing Page

    - Area code
    - Field code

(7) EPB55240

Output Reporting Method

- F16 Reservoir parameter for gas cap zone and gas reservoir

Assignment Parameter

- Header card of "Reservoir Parameter"
- Independent assignment card
    - "Field Card"
    - "Reservoir Unit Card"

Segment Name

(PFARESVS, "Reserves Data")

- PFA01RES, "Reserves"
- PFA03COG, "Condensate and Gas"

Master File Name

- Field master

Output Segment

- Area code
- Field code
- Reservoir unit code

Condition of Changing Page

- Area code
- Field code

Supplementary Explanation for Output Item

- EI

    "Initial" in "PFA03COG"

- E60

    "Abandon condition" (High pressure) in "PFA03COG"

- E30

"Abandon condition" (Low pressure) in "PFA03COG"

- FG

"Fractional gas" in "PFA03COG"

7 G-Production Operation Data Information

(1) EPB56100

Output Reporting Method

- GO-1   Well test and stimulation information
- GO-11   Production test information
- GO-12   Injection test information
- GO-13   Subsurface pressure survey information
- GO-14   Production log information
- GO-15   Well stimulation information

Assignment Parameter

- Header card of "Well Test and Stimulation"
- Independent assignment card
    - "Field Card"
    - "Well Card"
    - "Reservoir Unit Card"
    - "Layer Card"
    - "Kind or Type of Well Test and Stimulation Card"
    - "Well Test and Stimulation Card"

Segment Name

(PGAWELTS, "Well Test and Stimulation")
- PGA01TES,   "Well Test and Stimulation"
- PGA02PRT,   "Production Test"
- PGA03FLW,   "Flow Rate by Choke Size"
- PGA04IJT,   "Injection Test"
- PGA05SPS,   "Subsurface Pressure Survey"
- PGA06PRL,   "Production Log"
- PGA07WLS,   "Well Stimulation"

Master File Name

- Field master
- Zone master

Output Sequence

- Well test and stimulation code

Condition of Changing Page

- Well test and stimulation code

(2) EPB56110

Output Reporting Method

- GO-2 Field laboratory fluid analysis information
- GO-21 Oil analysis information
- GO-22 Condensate analysis information
- GO-23 Gas analysis information
- GO-24 Water analysis information

Assignment Parameter

- Header card of "Field Laboratory Fluid Analysis"
- Independent assignment card
  - "Facilities Field Card"
  - "Station Card"
  - "Field Card"
  - "Well Card"
  - "Reservoir Unit Card"
  - "Layer Card"
  - "Field Laboratory Fluid Analysis Card"

Segment Name

(PGBFLUID, "Field Laboratory Fluid Analysis")
- PGB01ANL, "Field Laboratory Fluid Analysis"
- PGB02OAN, "Oil Analysis"
- PGB03CAN, "Condensate Analysis"
- PGB04GAN, "Gas Analysis"
- PGB05WAN, "Water Analysis"

Master File Name

- Field master
- Zone master

Output Sequence

- Field laboratory fluid analysis code

Condition of Changing Page

- Field laboratory fluid analysis code

(3) EPB56200

Output Reporting Method

- G1 Production test result

Assignment Parameter

- Header card of "Well Test and Stimulation"

- Independent assignment card
    - "Field Card"
    - "Well Card"
    - "Reservoir Unit Card"
    - "Layer Card"
    - "Kind or Type of Well Test and Stimulation Card"

Segment Name

(PGAWELTS, "Well Test and Stimulation")
- PGA01TES, "Well Test and Stimulation"
- PGA02PRT, "Production Test"
- PGA03FLW, "Flow Rate by Choke Size"

Master File Name

- Field master
- Zone master

Output Sequence

- Field code
- Well code
- Workover number

Condition of Changing Page

- Field code

Supplementary Explanation for Output Item

- KIND

  "Kind of production test" in "PGA02PRT"

- TYPE

  "Type of production test" in "PGA02PRT"

- TEST PERIOD

  "Test or stimulation period" in "PGA02PRT"

- BEAN

  "Choke size" in "PGA03FLW"

- BS & W

  "Water cut" in "PGA03FLW"

- AOF

  "Absolute open flow potential" in "PGA02PRT"

(4)   EPB56205

Output Reporting Method

- G2   Injection test result

Assignment Parameter

- Header card of "Well Test and Stimulation"

- Independent assignment card
    - "Field Card"
    - "Well Card"
    - "Reservoir Unit Card"
    - "Layer Card"
    - "Kind or Type of Well Test and Stimulation Card"

Segment Name

(PGAWELTS, "Well Test and Stimulation")
- PGA01TES, "Well Test and Stimulation"
- PGA04IJT, "Injection Test"

Master File Name

- Field master
- Zone master

Output Sequence

- Field code
- Well code
- Workover number

Condition of Changing Page

- Field code

Supplementary Explanation for Output Item

- COMPLET

   "Kind of completed zone" in "PGA01TES"

- KIND

   "Kind of injection test" in "PGA04IJT"

- TYPE

   "Type of injection test" in "PGA04IJT"

- FLUID

   "Kind of injection fluid" in "PGA04IJT"

- TEST PERIOD

   "Test or stimulation period" in "PGA01TES"

- WHFP

   "Maximum wellhead flowing pressure" in "PGA04IJT"

- INJECTION RATE

   "Average daily injection rate" in "PGA04IJT"

(5) EPB56210

Output Reporting Method

- G3 Bottomhole pressure survey record diagram

Assignment Parameter

- Header card of "Well Test and Stimulation"

- Independent assignment card
    - "Field Card"
    - "Well Card"
    - "Reservoir Unit Card"

Segment Name

(PGAWELTS, "Well Test and Stimulation")
- PGA01TES, "Well Test and Stimulation"
- PGA05SPS, "Subsurface Pressure Survey"

Master File Name

- Field master

Output Sequence

- Field code
- Well code
- Reservoir unit code

Condition of Changing Page

- Field code

Supplementary Explanation for Output Item

Number of tests conducted in wells by reservoir units
be output in the form of "BUILDUP (XX)", "FALLOFF (XX)"
and "SPOT (XX)" as formatted in the layout.
"BUILDUP", "FALLOFF" and "SPOT" is refered to items
name "Type of survey" in "PGA05SPS"

(6) EPB56215

Output Reporting Method

- G4 Current bottomhole pressure survey record

Assignment Parameter

- Header card of "Well Test and Stimulation"
- Independent assignment card
    - "Field Card"
    - "Well Card"
    - "Reservoir Unit Card"
    - "Layer Card"
    - "Kind or Type of Well Test and Stimulation"

Segment Name

(PGAWELTS, "Well Test and Stimulation")
- PGA01TES, "Well Test and Stimulation"
- PGA05SPS, "Subsurface Pressure Survey"

Master File Name

- Field master
- Zone master

Output Sequence

- Field code

Condition of Changing Page

- Field code

Supplementary Explanation for Output Item

- AV. GAS COLUMN GRADIENT

  "Average pressure gradient for gas column" in "PGA05SPS"

- AV. LIQUID COLUMN GRADIENT

  "Average pressure gradient for liquid column" in "PGA05SPS"

(7) EPB56220

Output Reporting Method

    - G5 Current buildup and falloff pressure survey result

Assignment Parameter

    - Header card of "Well Test and Stimulation"

    - Independent assignment card
        - "Field Card"
        - "Well Card"
        - "Reservoir Unit Card"
        - "Layer Card"
        - "Kind or Type of Well Test and Stimulation"

Segment Name

        (PGAWELTS, "Well Test and Stimulation")
    - PGA01TES, "Well Test and Stimulation"
    - PGA05SPS, "Subsurface Pressure Survey"

Master File Name

    - Field master

Output Sequence

    - Field code
    - Well code
    - Workover number

Condition of Changing Page

    - Field code

Supplementary Explanation for Output Item

- TEST PERIOD

    "Test or stimulation period" in "PGA01TES"

- TYPE OF SUBSURFACE PRESSURE SURVEY

    "Type of survey" in "PGA05SPS"

- AOFP

    "Absolute open flow potential" in "PGA05SPS"

(8) EPB56225

Output Reporting Method

- G6 List of production by survey

Assignment Parameter

- Header card of "Well Test and Stimulation"
- Independent assignment card
  - "Field Card"
  - "Well Card"
  - "Reservoir Unit Card"
  - "Layer Card"
  - "Kind or Type of Well Test and Stimulation Card"

Segment Name

(PGAWELTS, "Well Test and Stimulation")
- PGA01TES, "Well Test and Stimulation"
- PGA06PRL, "Production Log"

Master File Name

- Field master
- Zone master

Output Sequence

- Field code
- Well code
- Workover number

Condition of Changing Page

- Field code

Supplementary Explanation for Output Item

- PERIOD

    "Test or stimulation period" in "PGA01TES"

- INTERVAL

    "Test interval" in "PGA06PRL"

- IDENTIFICATION NO.

    "Log identification number" in "PGA06PRL"

(9) EPB56230

Output Reporting Method

- G7 Stimulation job activity record

Assignment Parameter

- Header card of "Well Test and Stimulation"
- Independent assignment card
    - "Field Card"
    - "Well Card"
    - "Reservoir Unit Card"
    - "Layer Card"
    - "Kind or Type of Well Test and Stimulation Card"

Segment Name

(PGAWELTS, "Well Test and Stimulation")
- PGA01TES, "Well Test and Stimulation"
- PGA02PRT, "Production Test"
- PGA03FLW, "Flow Rate by Choke Size"
- PGA07WLS, "Well Stimulation"

Master File Name

- Field master
- Zone master

Output Sequence

- Field code
- Well code
- Workover number

Condition of Changing Page

- Field code

Supplementary Explanation for Output Item

- PERIOD

    "Test or stimulation period" in "PGA01TES"

- OBJECT

    "Objective for stimulation" in "PGA07WLS"

- TYPE

    "Type of stimulation" in "PGA07WLS"

- BEFORE OR AFTER TEST

    Refer to "Kind of well test and stimulation" and
    "Test or stimulation period" in "PGA01TES"
    and compare the period of test with the period
    of stimulation.

        in case the period of test is greater than
        the period of stimulation
        output "AFTER"

        in case the period of test is less than the
        period of stimulation
        output "BEFORE"

- METHOD (BEAN)

    "Flowing method for test" in "PGA03FLW"
    "Choke size" in "PGA03FLW"

- BS & W

    "Water cut" in "PGA02PRT"

(10)　EPB56235

Output Reporting Method

- G8, G9

    (Field laboratory fluid analysis data summary)

Assignment Parameter

- Header card of "Field Laboratory Fluid Analysis"
- Independent assignment card
    - "Facilities Field Card"
    - "Station Card"
    - "Well Card"
    - "Reservoir Unit Card"
    - "Layer Card"

Segment Name

    (PGBFLUID, "Field Laboratory Fluid Analysis")
- PGB01ANL, "Field Laboratory Fluid Analysis"
- PGB020AN, "Oil Analysis"
- PGB03CAN, "Condensate Analysis"
- PGB04GAN, "Gas Analysis"
- PGB05WAN, "Water Analysis"

Master File Name

- Field master
- Zone master

Output Sequence

- G8　Field code, Well code, Workover number
- G9　Facilities field code, Station code

Condition of Changing Page

- G8　Field code
- G9　Facilities field code

Supplementary Explanation for Output Item

- GHV

    "Gross heating value" in "PGB04GAN"

- NCV

    "Net calorific value" in "PGB04GAN"

- SI

    "Scaling index" in "PGB05WAN"

- TOTAL SOLID

    Suspended solid + Discolved solid
       (PGB05WAN)   (PGB05WAN)

(11) EPB56240

Output Reporting Method

- G10, G11
  (Field laboratory gas analysis data summary)

Assignment Parameter

- Header card of "Field Laboratory Fluid Analysis"
- Independent assignment card
    - "Facilities Field Card"
    - "Station Card"
    - "Field Card"
    - "Well Card"
    - "Reservoir Unit Card"
    - "Layer Card"

Segment Name

   (PGBFLUID, "Field Laboratory Fluid Analysis")
- PGB01ANL, "Field Laboratory Fluid Analysis"
- PBG04GAN, "Gas Analysis"

Master File Name

- Field master
- Zone master

Output Sequence

- G10 Field code, Well code, Workover number
- G11 Facilities field code, Station code

Condition of Changing Page

- G10 Field code
- G11 Facilities field code

(12) EPB56245

Output Reporting Method

- G12, G13
  (Field laboratory water analysis data summary)

Assignment Parameter

- Header card of "Field Laboratory Fluid Analysis"

- Independent assignment card
    - "Facilities Field Card"
    - "Station Card"
    - "Field Card"
    - "Well Card"
    - "Reservoir Unit Card"
    - "Layer Card"

Segment Name

(PGBFLUID, "Field Laboratory Fluid Analysis")
- PGB01ANL, "Field Laboratory Fluid Analysis"
- PGB05WAN, "Water Analysis"

Master File Name

- Field master
- Zone master

Output Sequence

- G12 Field code, Well code, Workover number
- G13 Facilities field code, Station code

Condition of Changing Page

- G12 Field code
- G13 Facilities field code

8 H-Production Facilities Data Information

(1) EPB57100

Output Reporting Method

- HO-1 Station information
- HO-11 Station resume
- HO-12 Station modification

Assignment Parameter

- Header card of "Production Facilities"

- Independent assignment card
    - "Facilities Field Card"
    - "Station Card"

Segment Name

(PHASTATN, "Station")
- PHA01STN, "Station"
- PHA02MOD, "Station Modification"
- PHA03EQP, "Equipment in Station"
- PHA04REF, "Station Reference"
- PHA05WEL, "Well Reference"

Master File Name

- Field master

Output Sequence

- Station code

Condition of Changing Page

- Station code

Supplementary Explanation for Output Item

- PERTAMINA COST SUBTOTAL

  Total of "Station cost (1) ∿ (4)" in "PHA01STN"

- CONTRACTOR COST SUBTOTAL

  Total of "Station cost (5) ∿ (9)" in "PHA01STN"

- TOTAL

  Total of "PERTAMINA COST SUBTOTAL" and "CONTRACTOR COST SUBTOTAL"

(2)   EPB57110

Output Reporting Method

- HO-2 Equipment information
- HO-21 Equipment resume
- HO-22 Equipment maintenance

Assignment Parameter

- Header card of "Production Facilities"
- Independent assignment card
    - "Facilities Field Card"
    - "Station Card"
    - "Kind of Equipment and Specification Card"
    - "Equipment Card"

Segment Name

(PHBEQUIP, "Equipment")
- PHB01EQP, "Equipment"
- PHB02MNT, "Equipment Maintenance"

Master File Name

- Field master

Output Sequence

- Equipment code

Condition of Changing Page

- Equipment code

(3) EPB57200

Output Reporting Method

    - H1 Summary of station

Assignment Parameter

    - Header card of "Production Facilities"

    - Independent assignment card
        - "Facilities Field Card"
        - "Station Card"

Segment Name

      (PHASTANT, "Station")

    - PHA01STN, "Station"

Master File Name

    - Field master

Output Sequence

    - Facilities field code

    - Station code

Condition of Changing Page

    - Facilities field code

Supplementary Explanation for Output Item

- MAIN FUNCTION AND DESIGN CAPACITY

  Refer to "Function and capacity" in "PHA01STN" and
  output the data related to the headword.

- DRAWING NUMBER

    - FLOW DIAGR.

      "Ident. No." of "Document (1)" in "PHA01STN"

    - PLOT PLAN

      "Ident. No." of "Document (2)" in "PHA01STN"

    - PIPING

      "Ident. No." of "Document (3)" in "PHA01STN"

- DOCUMENT NUMBER

  "Ident. No." of "Document (4)" in "PHA01STN"

- FACILITIES FIELD TOTAL

  Total of "Station cost" in "PHA01STN" by
  "Facilities fields"

(4) EPB57205

Output Reporting Method

    - H2 Station cost data by kind of station

Assignment Parameter

    - Header card of "Production Facilities"
    - Independent assignment card
        - "Facilities Field Card"
        - "Station Card"

Segment Name

        (PHASTATN, "Station")
    - PHA01STN, "Station"

Master File Name

    - Field master

Output Sequence

    - Kind of station
    - Facilities field code
    - Station code

Condition of Changing Page

    - Kind of station

Supplementary Explanation for Output Item

- PERTAMINA

    Total of "Station cost (1) ∿ (4)" in "PHA01STN"

- CONTRACTOR

    Total of "Station cost (5) ∿ (9)" in "PHA01STN"

- TOTAL

    Total of "PERTAMINA" and "CONTRACTOR"

- INVOICE NO.

    "Ident. No." of "Document (5)" in "PHA01STN"

- P. FIELD TOTAL

    Total of the necessary headword by "Facilities fields"

- STATION TOTAL

    Total of the necessary headword by "Kind of stations"

(5) EPB57210

Output Reporting Method

- H3 Station cost data by fiscal year

Assignment Parameter

- Header card of "Production Facilities"
- Independent assignment card
    - "Facilities Field Card"

Segment Name

(PHASTATN, "Station")

- PHA01STN, "Station"

Master File Name

- Field master

Output Sequence

- Facilities field code
- Year
- Station code

Supplementary Explanation for Output Item

- YEAR

    Four digits of "Date of station delivery" in "PHA01STN"

- STATION CONSTRUCTION COST

    "Station cost (6)" in "PHA01STN"

- YEARLY TOTAL

    Yearly total of "STATION CONSTRUCTION COST"

- F. FIELD TOTAL

    Total of "STATION CONSTRUCTION COST" by "Facilities fields"

(6)   EPB57215

Output Reporting Method

- H4   Summary of equipment

Assignment Parameter

- Header card of "Production Facilities"
- Independent assignment card
    - "Facilities Field Card"
    - "Station Card"
    - "Kind of Equipment and Specification Card"
    - "Equipment Card"

Segment Name

(PHBEQUIP, "Equipment")

- PHB01EQP, "Equipment"

Output Sequence

- Station code
- Kind of equipment
- Equipment code

Condition of Changing Page

- Station code

Supplementary Explanation for Output Item

- TYPE

  "Type of vessel" in "PHB01EQP"

- DRAWING NO.

  "Indent. No." of "Document (3)" in "PHB01EQP"

- DOCUMENT NO.

  "Indent. No." of "Document (2)" in "PHB01EQP"

- (XXXXXXXXXXXXXX)

  "Kind of equipment" in "PHB01EQP"

- STATION TOTAL

  Total of "Equipment cost" in "PHB01EQP" by stations

(7) EPB57220

Output Reporting Method

    - H5 Equipment cost data by kind of equipment

Assignment Parameter

    - Header card of "Production Facilities"
    - Independent assignment card
        - "Facilities Field Card"
        - "Station Card"
        - "Kind of Equipment and Specification Card"

Segment Name

      (PHBEQUIP, "Equipment")
    - PHB01EQP, "Equipment"

Output Sequence

    - Kind of equipment
    - Equipment code

Condition of Changing Page

    - Kind of equipment

Supplementary Explanation for Output Item

    - TYPE

    "Type of Vessel" in "PHB01EQP"

    - EQUIPMENT TOTAL

    Total of "Equipment cost" in "PHA01EQP" by "Kind of equipment"

(8) EPB57225

Output Reporting Method

- H6 Equipment data by manufacturer

Assignment Parameter

- Header card of "Production Facilities"

- Independent assignment card
    - "Facilities Field Card"
    - "Station Card"
    - "Kind of Equipment and Specification Card"
    - "Manufacturer Card"

Segment Name

(PHBEQUIP, "Equipment")
- PHB01EQP, "Equipment"

Master File Name

- Company master

Output Sequence

- Manufacturer's country code
- Manufacturer code
- Station code
- Equipment code

Condition of Changing Page

- Manufacturer's country code

Supplementary Explanation for Output Item

- TYPE

   "Type of vessel" of "PHB01EQP"

- MANUFACTURER TOTAL

   Total of "Equipment cost" in "PHB01EQP" by
   "Manufacturer codes"

- COUNTRY TOTAL

   Total of "Equipment cost" in "PHB01EQP" by
   "Country codes"

(9) EPB57230

Output Reporting Method

- H7 Equipment cost data by fiscal year

Assignment Parameter

- Header card of "Production Facilities"
- Independent assignment card
    - "Facilities Field Card"
    - "Station Card"
    - "Kind of Equipment and Specification Card"

Segment Name

(PHBEQUIP, "Equipment")
- PHB01EQP, "Equipment"

Master File Name

- Company master

Output Sequence

- Kind of Equipment
- Year
- Equipment code

Condition of Changing Page

- Kind of Equipment

Supplementary Explanation for Output Item

- TYPE

  "Type of vessel" in "PHB01EQP"

- YEARLY TOTAL

  Yearly total of "Equipment cost" in "PHB01EQP"

- EQUIPMENT TOTAL

  Total of "Equipment cost" in "PHB01EQP" by "Kind of equipment"

(10) EPB57235

Output Reporting Method

- H8   Summary of station modification

Assignment Parameter

- Header card of "Production Facilities"
- Independent assignment card
    - "Facilities Field Card"
    - "Station Card"

Segment Name

(PHASTATN, "Station")
- PHA01STN, "Station"
- PHA02MOD, "Station Modification"

Master File Name

- Field master

Output Sequence

- Facilities field code
- Station code
- Date of station delivery

Condition of Changing Page

- Facilities field code

Supplementary Explanation for Output Item

- STATION COST

  Total of "Station cost (1) ∿ (9)" in "PHA01STN"

- END DATE OF MODIFICATION

  End date (Year and Month) of "Modification period" in "PHA02MOD"

- PERIOD OF MODIFICATION (DAYS)

  Days of "Modification period" in "PHA02MOD"

- INVOICE NO.

  "Ident. No." of "Document (1)" in "PHA02MOD"

- M. DOCUMENT NO.

  "Ident. No." of "Document (2)" in "PHA02MOD"

- REPORT NO.

  "Ident. No." of "Document (3)" in "PHA02MOD"

- STATION TOTAL

  Total of "Modification cost" in "PHA02MOD" by stations

- F. FIELD TOTAL

  Total of "Modification cost" in "PHA02MOD" by "Facilities fields"

(11) EPB57240

Output Reporting Method

- H9 Summary of equipment maintenance

Assignment Parameter

- Header card of "Production Facilities"
- Independent assignment card
    - "Facilities Field Card"
    - "Station Card"
    - "Kind of Equipment and Specification Card"
    - "Equipment Card"

Segment Name

(PHBEQUIP, "Equipment")
- PHB01EQP, "Equipment"
- PHB02MNT, "Equipment Maintenance"

Master File Name

- Field master

Output Sequence

- Station code
- Equipment code

Condition of Changing Page

- Station code

Supplementary Explanation for Output Item

- TYPE

  "Type of vessel" in "PHB01EQP"

- END DATE OF WORK

  Year and month of end date of "Work period" in "PHB01EQP"

- PERIOD OF WORK

  Year and month of "Work period" in "PHB02MNT"

- REPORT NO.

  "Ident. No." of "Report" in "PHB02MNT"

- EQUIPMENT TOTAL

  Total of "Maintenance cost" in "PHB02MNT" by "Equipment codes"

- STATION TOTAL

  Total of "Maintenance cost" in "PHB02MNT" by stations

(12) EPB57245

<u>Output Reporting Method</u>

- H10 Equipment maintenance cost data by fiscal year

<u>Assignment Parameter</u>

- Header card of "Production Facilities"
- Independent assignment card
    - "Facilities Field Card"
    - "Station Card"
    - "Kind of Equipment and Specification Card"
    - "Equipment Card"

<u>Segment Name</u>

(PHBEQIUP, "Equipment")
- PHB01EQP, "Equipment"
- PHB02MNT, "Equipment Maintenance"

<u>Output Sequence</u>

- Station code
- Equipment code

<u>Condition of Changing Page</u>

- Station code

Supplementary Explanation for Output Item

    - TYPE

      "Type of vessel" of "PHB01EQP"

    - YEAR AT MAINTENANCE

      "Work period (End of date)" of "PHB01EQP"

    - MAINTENANCE COST PER YEAR

      Yearly total of "Maintenance cost" in "PHB02MNT"

    - EQUIPMENT TOTAL

      Total of "Maintenance cost" in "PHB02MNT" by
      "Equipment codes"

    - STATION TOTAL

      Total of "Maintenance cost" in "PHB02MNT" and
      "Equipment cost" in "PHB01EQP" by stations

(13) EPB57250

Output Reporting Method

- H11 System's equipment data

Assignment Parameter

- Header card of "Production Facilities"
- Independent assignment card
    - "Facilities Field Card"
    - "Station Card"

Segment Name

(PHBEQUIP, "Equipment")
- PHB01EQP, "Equipment"

Output Sequence

- Station code
- Equipment code

Condition of Changing Page

- Station code

Supplementary Explanation for Output Item

- TYPE

"Type of vessel" in "PHB01EQP"

- INVOICE NO.

"Ident. No." of "Document (1)" in "PHB01EQP"

- DRAWING NO.

"Ident. No." of "Document (3)" in "PHB01EQP"

- DOCUMENT NO.

"Ident. No." of "Document (2)" in "PHB01EQP"

- SYSTEM TOTAL

Total of "Equipment cost" in "PHB01EQP" by "System codes"

- STATION TOTAL

Total of "Equipment cost" in "PHB01EQP" by stations

9 I-Pipeline Data Information

(1) EPB58100

Output Reporting Method

    - IO-1 Pipeline information
    - IO-11 Pipeline resume
    - IO-12 Pipeline maintenance

Assignment Parameter

    - Header card of "Pipeline"
    - Independent assignment card
        - "Facilities Field Card"
        - "Station Card"
        - "Pipeline Card"

Segment Name

      (PIAPIPLN, "Pipeline")
    - PIA01PIP, "Pipeline"
    - PIA02MNT, "Pipeline Maintenance"

Master File Name

    - Field master

Output Sequence

    - Pipeline code

Condition of Changing Page

    - Pipeline code

(2) EPB58200

Output Reporting Method

   - Il Summary of pipeline

Assignment Parameter

   - Header card of "Pipeline"
   - Independent assignment card
       - "Facilities Field Card"
       - "Station Card"
       - "Pipeline Card"

Segment Name

   (PIAPIPLN, "Pipeline")
   - PIA01PIP, "Pipeline"

Master File Name

   - Field master

Output Sequence

   - Facilities field code
   - Station code
   - Pipeline code

Condition of Changing Page

   - Facilities field code

Supplementary Explanation for Output Item

- DRAWING NO.

    "Ident. No." of "Document (1)" in "PIA01PIP"

- INVOICE NO.

    "Ident. No." of "Document (2)" in "PIA01PIP"

- DOCUMENT NO.

    "Ident. No." of "Document (3)" in "PIA01PIP"

- STATION TOTAL

    Total of "Pipeline cost" in "PIA01PIP" by
    stations

- FACILITIES FIELD TOTAL

    Total of "Pipeline cost" in "PIA01PIP" by
    "Facilities fields"

(3) EPB58205

Output Reporting Method

- I2 Pipeline cost data by kind of linepipe

Assignment Parameter

- Header card of "Pipeline"
- Independent assignment card
    - "Facilities Field Card"
    - "Station Card"
    - "Pipeline Card"

Segment Name

(PIAPIPIN, "Pipeline")

- PIA01PIP, "Pipeline"

Output Sequence

- Kind of linepipe
- Facilities field code
- Station code

Condition of Changing Page

- Kind of linepipe

Supplementary Explanation for Output Item

- FACILITIES FIELD TOTAL

  Total of "Pipeline cost" in "PIA01PIP" by "Facilities fields"

- LINEPIPE TOTAL

  Total of "Pipeline cost" in "PIA01PIP" by "Kinds of linepipe"

(4) EPB58210

Output Reporting Method

    - I3 Pipeline cost data by fiscal year

Assignment Parameter

    - Header card of "Production Facilities"
    - Independent assignment card
        - "Facilities Field Card"
        - "Station Card"
        - "Pipeline Card"

Segment Name

        (PIAPIPLN, "Pipeline")
    - PIA01PIP, "Pipeline"

Output Sequence

    - Date of installation
    - Station code
    - Pipeline code

Supplementary Explanation for Output Item

    - YEARLY TOTAL

    Yearly total of "Pipeline cost" in "PIA01PIP"

(5) EPB58215

Output Reporting Method

- I4 Summary of pipeline maintenance

Assignment Parameter

- Header card of "Production Facilities"
- Independent assignment card
    - "Facilities Field Card"
    - "Station Card"
    - "Pipeline Card"

Segment Name

(PIAPIPLN, "Pipeline")
- PIA01PIP, "Pipeline"
- PIA02MNT, "Pipeline Maintenance"

Output Sequence

- Station code (end point)
- Pipeline number
- Station code (starting point)

Supplementary Explanation for Output Item

- END DATE OF WORK

    End date of "Work period" in "PIA02MNT"

- PERIOD OF WORK

    "Days of work period" in "PIA02MNT"

- EXECUTOR NAME

    "Name of organization" in "PIA02MNT"

- MAINTENANCE COST

    - US$

        Material US$ + Work US$
        (PIA02MNT)   (PIA02MNT)

    - RP1000

        Material RP + Work US$
        (PIA02MNT)   (PIA02MNT)

- INVOICE NO.

    "Ident No." of "Document (2)" in "PIA02MNT"

- DOCUMENT NO.

    "Ident No." of "Document (3)" in "PIA02MNT"

- REPORT NO.

    "Ident No." of "Document (1)" in "PIA02MNT"

- PIPELINE TOTAL

    Total of "Maintenance cost" in "PIA02MNT" by
    "Pipeline codes"

- STATION TOTAL

    Total of "Maintenance cost" in "PIA02MNT" by stations

(6) EPB58220

Output Reporting Method

- I5 Pipeline maintenance cost data by fiscal year

Assignment Parameter

- Header card of "Pipeline"
- Independent assignment card
    - "Facilities Field Card"
    - "Station Card"
    - "Pipeline Card"

Segment Name

(PIAPIPLN, "Pipeline")
- PIA01PIP, "Pipeline"
- PIA02MNT, "Pipeline Maintenance"

Output Sequence

- Facilities field code
- Station code
- Pipeline code

Condition of Changing Page

- Facilities field code

Supplementary Explanation for Output Item

- CONSTRUCTION COST

  Total of "Pipeline cost" in "PIA01PIP" by Pipeline codes"

- YEAR OF MAINTENANCE

  year of end date of "Work period" in "PIA01PIP"

- MAINTENANCE COST

  - UR$

    Material US$ + Work US$
    (PIA02MNT)   (PIA02MNT)

  - RP1000

    Material RP + Work RP
    (PIA02MNT)   (PIA02MNT)

- PIPELINE TOTAL

  Total of "MAINTENANCE COST" by "Pipeline codes"

- STATION TOTAL

  Total of "MAINTENANCE COST" by stations

- FACILITIES FIELD TOTAL

  Total of "MAINTENANCE COST" by "Facilities fields"

APPENDIX IX

INSTRUCTION

ON

INPUT DATA PROCESSING

FOR

THE PETROLEUM EXPLORATION AND PRODUCTION DATA

BANK SYSTEM OF PERTAMINA UNIT EP-II

INTRODUCTORY REMARKS

For the purpose of keeping correctives and logic of the data stored in the data base, instruction on input data processing is established in this APPENDIX.

Since input data processing to the data base is to be carried out through Master files, Data for Master file has to be prepared preferentially.

LIST OF CONTENTS

(1) Master File

- As for input data processing of "Field master", "Zone
  master" and "Well master", the following order must
  be kept in processing pertinent input data record.

  - input data record for "Field master"
  - inpur data record for "Zone master"
  - input data record for "Well master"

- As for input data processing of "Layer" & "Reservoir unit"
  for "Zone master", following input processing order must be
  kept.

  - Layer
  - Reservoir unit

(2) Contract Area (PAACONTR)

- Input data for "Geological Map and Figure" (PAEGLMAP)
  has to be processed before processing input data having
  the codes of pertinent "Map and Figure" for "Contract
  Area" (PAA01CRT).

(3) Geological Survey (PABGLSVY)

- Input data for "Geological Map and Figure" (PAEGLMAP)" or
  "Geological Report" (PAFGLREP) has to be processed

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before processing input data having the codes of pertinent "Map and Figure" or "Report" for "Geological Report and Map Reference" (PAB02MAP).

- Data for "Survey period" in "PAB01SVY" should not be extended over more than two years.

(4) Geological Analysis (PACGLANL)

- Input data for "Geological Map and Figure" (PAEGLMAP) or "Geological Report" (PAFGLREP) has to be processed before processing input data having the codes of pertinent "Map and Figure" or "Report" for "Geological Report and Figure Reference" (PAC04FIG).

(5) Resource Prospect (PADPROSP)

- Input data for "Geological Map and Figure" (PAEGLMAP) or "Geological Report" (PAFGLREP) has to be processed before processing input data having the codes of pertinent "Map and Figure" or "Report" for "Prospect Report and Map Reference" (PAD03MAP).

(6) Geological Map and Figure (PAEGLMAP)
Geological Report (PAFGLREP)

- Deletion of "Geological Map and Figure" (PAE01MAP) and "Geological Report" (PAF01REP) should be carried out

together with deletion of the said data of the following
segments.

- Contract Area (PAA01CRT)
- Geological Report and Map Reference (PAB02MAP)
- Geological Report and Figure Reference (PAC04FIG)
- Prospect Report and Map Reference (PAD03MAP)

(7) Geophysical Data (PBAGPSVY)

- Input data for "Geophysical Map" (PBBGPMAP) has to be
  processed before processing input data having the code
  of pertinent "Map" or "Section" for
  "Location Map and Report Reference" (PBA03LOC),
  "Section and Report Reference" (PBA07REP) or
  "Map and Report Reference" (PBA11IMR).

- Input data for "Geophysical Seismic Section" (PBCGPSEC)
  has to be processed before processing input data having
  the code of pertinent "Map (Section)" for
  "Section and Report Reference" (PBA07REP).

- Input data for "Geophysical Report" (PBDGPREP) has to
  be processed before processing input data having the
  code of pertinent "Report" for
  "Location Map and Report Reference" (PBA03LOC),
  "Section and Report Reference" (PBA07REP),
  "Map and Report Reference" (PBA11IMR) or
  "Well Velocity Survey Report Reference" (PBA14REP).

(8) Geophysical Map (PBBGPMAP)

- Input data for "Geophysical Report" (PBDGPREP) has to
  be processed before processing input data having the
  code of pertinent "Report" for "Geophysical Report"
  (PBD01REP).

- Input data for "Geophysical Seismic Section" (PBCGPSEC)
  has to be processed before processing input data having
  the code of pertinent "Map" for "Section Reference"
  (PBB02SEC).

(9) Geophysical Seismic Section (PBCGPSEC)

- Input data for "Geophysical Map" (PBBGPMAP) has to be
  processed before processing input data having the code of
  pertinent "Map (Section)" for "Map Reference" (PBC02MAP).

(10) Well Data (PCAWELL)

- Deletion of "Well" (PCA01WEL) is carried out by the
  following unit of data.

  - Data for current well
  - Data for all the well (original well and work over
    wells)

- Following are input data processing for workover well.

  - Copy the necessary data from the last well through the program "EPB52050".
  - Replace the old data by the data obtained from workover operation.

(11) Production and Injection (PEAPRDIN)

  - Followings are the normal procedure of input data processing related to "Production and Injection" (PEAPRDIN).

    - Insert the pertinent new data in case of a newly drilled well or replace data of the well master with pertinent new data.

    - Insert the pertinent production and injection data to "Production and Injection" (PEAPRDIN).

      It is preferable to carry out the above processing contineously.

  - Updating procedure of historical production and injection data has not been established yet in this stage, these should be established after a careful consideration of operation situation. Consequently the system is designed to insert, replace and delete the data related to the wells of which the information is stored in the well master.

- In case that zero production is expected to continue because of well status of shut-in or waiting, no input data of production and injection is required for "Production and Injection" (PEAPRDIN).

- In case that one well has different well statuses during pertinent month, one well status must be determined as the status representing for the month. If there coexist producing and shut-in for a well during a month, producing must be selected as the status for the month.

(12) Reserves Data (PFARESVS)

- Calculation of remaining reserves needs yearly production and injection by reservoir units which is moved "Production and Injection" (PEAPRDIN) to "Reserves Data" (PFARESVS) through the program "EPB55050".

(13) Well Test and Stimulation (PGAWBLTS)

- In case that there is no data for pertinent well on the data base, input data processing for "Well test and stimulation" could not be carried out.

- Input data processing for production test must be carried out before processing input data having the codes of pertinent production test for well stimulation.

(14) Station (PHASTATN)

- Input data processing for "Equipment" (PHB01EQP) must
  be carried out before processing input data having the
  code of pertinent "Equipment" for "Equipment in station"
  (PHA03EQP).

- Input data processing for "Station" (PHA01STN) must be
  carried out before processing input data having the
  code of pertinent "Station" for "Station reference"
  (PHA04REP).

(15) Equipment (PHBEQUIP)

- Input data processing for equipments included in "System*"
  must be carried out before processing the other input
  data related to the "System*".

  * Refer to APPENDIX III.

- As for equipments composed of prime mover and its
  associated machinery, input data processing for the
  associated machinery must be carried out before processing
  the data of the prime mover.

(16)   Pipeline (PIAPIPLN)

- Input data processing for "Station" (PHA01STN) must be
  carried out before processing input data having the
  code of pertinent "Station" (PHA01STN) with them for
  "Pipeline" (PIA01PIP).