APPENDIX II

DATA STRUCTURE

FOR

THE PETROLEUM EXPLORATION AND PRODUCTION

DATA BANK SYSTEM OF PERTAMINA UNIT EP-II

Introductory Remarks

- Regarding "Data Items in Segment", items in Segment are hierarchically grouped by classification code which is consisted of first code, second code and third code.

- Code number with hyphen (ex. 9-) only symbolizes group of data in minor code number.

- Regarding "Data Properties in Data Items in Segment", reference is made to the following examples.

X(3); area of three digits in character

ex. | A | C | B |

9(5); area of five digits in numeric number

ex. | 1 | 2 | 0 | 6 | 2 |

9(3)V9(1);

ex. | 8 | 3 | 2 | 5 |

↑ decimal point

X(2)*3; three times occurrence of X(2)

ex. | A | B | B | C | A | B |

1-		*3 ; three times ocurrence of 9(5) and X(8)
1		9(5)
2		X(8)

ex.

5	2	1	0	3
A	B	C	D	E	F	G	H

3	4	2	9	7
X	Y	Z	S	P	R	U	D

1	8	6	2	3
Q	R	S	T	A	B	C	D

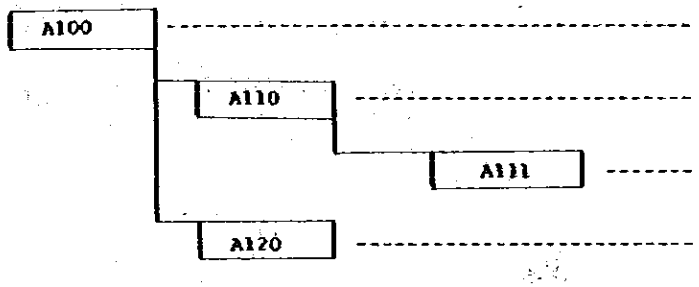
- Regarding "Source Document in Data Item in Segment", report name (ex. R101) is referred to Attachment I.

LIST OF CONTENTS

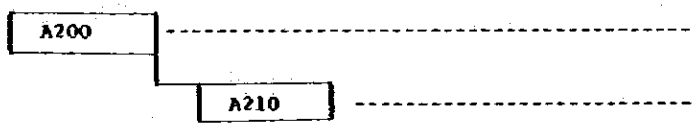
1 A-GEOLOGICAL DATA AND RIGHT HOLDER'S AREA INFORMATION

1-1 Segment Diagram Index of Data Structure

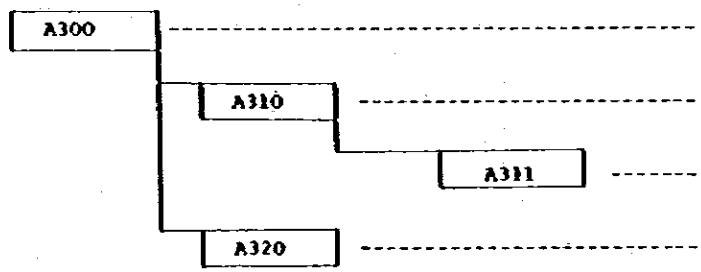
A-1 Right holder'a Area Information



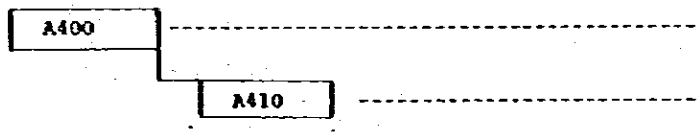
A-2 Geological Survey Information



A-3 Geological Analysis Information



A-4 Prospect Information



A-5 Map and Figure Information

A-6 Report Information

1-2 Data Items in Segment

Data Items in Segment A100 (Root Segment of Right Holder's Area Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
A100-				
1	Contract name	x(5)	To be coded as in APPENDIX III	a-15 contract agreement
2	Province name	x(1)	To be coded as in APPENDIX III	"
3	Date of contract (contract started date)	x(8)	Ex. DD.MM.YYYY	"
4	Contract area name	x(30)		"
5-	Agreement			"
1	Title	x(100)		"
2	Identification no.	x(15)		"
6	Kind of contract	9(1)	To be coded as in APPENDIX III 1. P.S. contract 2. Working contract 3. Joint venture 4. Technical assistance contract 5. Other contract	"
7	Contractor name	9(3)	To be coded as in APPENDIX III	"
8	Period of contract	x(8)x(8)	Ex. DD.MM.YYYY-DD.MM.YYYY	"
9	Name of contract area map	x(13)*2	To be coded as in APPENDIX III	"
10	Original size of contract area	9(9)v9(2)	[km^2]	

Data Items in Segment A110 (History of Relinquishment)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
A110-				
1	Relinquished area name	x(20)	If available	a-15 contract agreement
2	Relinquished data	x(8)	Ex. DD.MM.YYYY	"
3	Size of relinquished area	9(8)v9(2)	[km^2]	"
4	Name of map drawn relinquished area	x(13)*2	To be coded as in APPENDIX III	"

Data Items in Segment A111 (Points of Boundary of Relinquished Area)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
A111-				
1	Points no.	9(2)	Number of Points are less than 100	a-15 contract agreement
2-	Mercator coordinate			"
1	Latitude (N)	x(7)	Ex. 999.99.99	"
2	Longitude (E)	x(7)	Ex. 999.99.99	"

Data Items in Segment A120 (Points of Boundary of Original Area)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
A120-				
1	Point no.	9(2)	Number of Points are less than 100	a-15 contract agreement
2-	Mercator coordinate			
1	Latitude (N)	x(7)	Ex. 999.99.99	
2	Longitude (E)	x(7)	Ex. 999.99.99	

Data Items in Segment A200 (Root Segment of Geological Survey)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
A200-				
1	Survey name	x(6)	To be coded as in APPENDIX III	a-1, a-2, a-7
2	Kind of survey	9(2)	To be coded as in APPENDIX III See note 1 in page 14	a-1, a-2, a-7
3	Area name	x(2)	To be coded as in APPENDIX III	a-1, a-2, a-7
4	Identification number of main report	x(13)	Ex. MEMO-EKS-NO. 999 as currently	a-1, a-2, a-7
5	Title of main report	x(100)	used in PERTAMINA	
6	Name of locality surveyed	x(30)		a-7
7	Survey period	x(8)x(8)	DD.MM.YYYY-DD.MM.YYYY	a-1, a-2, a-7
8	PERTAMINA or foreign contractor	9(1)	To be coded as in APPENDIX III	a-1, a-2, a-7
9	Survey personnel	x(30)		a-1, a-2, a-7
10	Company name	x(50)		a-1, a-2, a-7
11	Party month			
12	Total travers measured	9(8)	[m]	a-7
13	Approximate geological compiled area size	9(8)v9(2)	[km^2]	a-7
14	Total drilled depth	9(5)	[m] If shallow wells were drilled	a-7
15	Total number of shallow wells	9(4)	If shallow wells were drilled	a-7
16-	Total survey cost			
	1. U.S.$			
	2. Rp			
17	Exchange rate of Rp to U.S.$	9(3)v9(2)		

Note 1 Kind of Geological Survey

1. Geological field survey
11 Regional mapping survey
12 Structural mapping survey
13 Stratigraphic mapping survey
14 Reconnaissance sampling survey
15 Other geological field survey

2. Photo-geological survey
21 Photo-geological survey
22 Side looking sirborne reader survey
23 Other photo-geological survey

3. Other geological survey

Data Items in Segment A210 (Map, Figure and Report Reference)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
A210-				
1	Type of map, figure and report	9(1)	To be coded as in APPENDIX III 1. Surveyed area map 2. Main map : prepared by survey 3. Main figures prepared by survey 4. Survey report	a-7
2	Reference number of map, figure and report	x(13)	To be coded as in APPENDIX III	a-7

Data Items in Segment A300 (Root Segment of Geological Analysis)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
A300-				
1	Analysis name	x(6)	To be coded as in APPENDIX III	a-6, a-9, a-10, a-13
2	Kind of analysis	9(2)	To be coded as in APPENDIX III	a-6, a-9, a-10, a-13
3	Area name	x(2)*3	To be coded as in APPENDIX III	a-6, a-9, a-13
4	PERTAMINA or foreign contractor	9(1)	To be coded as in APPENDIX III	a-6, a-9, a-13
5	Sample source	9(1)*3	To be coded as in APPENDIX III	a-6, a-9, a-10, a-13
			1. Area unit	
			2. Field unit	
			3. Well Unit	
			4. Formation unit	
			5. Reservoir unit	
6	Identification number of main report	x(13)	Currently used number in PERTAMINA	a-6, a-9, a-10
7	Title of main report	x(100)		a-6, a-9, a-10
8	Author	x(30)	Author of analysis report	a-6, a-9, a-10
9	Company name	x(50)		a-6, a-9, a-10
10	Location of laboratory	x(30)		a-6, a-9, a-10
11-	Total analysis cost			
1	U.S.$	9(8)v9(2)	Ex. 99999999.99 U.S.$.	a-6, a-9, a-10
2	Rp	9(10)	Ex. 9999999999 Rp	a-6, a-9, a-10
12	Exchange of Rp to U.S.$	9(3)v9(2)		

Note 1 Kind of Analysis

1. Geochemical analysis

2. Paleontological analysis
   21 Foraminifera analysis
   22 Pollen analysis
   23 Nanno-plankton analysis
   24 Ostracoda analysis
   25 Other paleontological analysis

3. Lithological analysis
   31 Carbonate rock analysis
   32 Clastic rock analysis
   33 Other lithological analysis

4. Other geological analysis

Data Items in A310 (Sampling Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
A310-				
1	Sample identification	x(10)	If available	a-6, a-9, a-10, a-13
2	Field name	x(3)*5	To be coded as in APPENDIX III	Same as above
3	Well name	x(6)*10	To be coded as in APPENDIX III	"
4	Formation name	x(2)*5	To be coded as in APPENDIX III	"
5	Kind of sample	9(1)	To be coded as in APPENDIX III 1. Cutting sample 2. Conventional core sample 3. Side wall core sample 4. Surface rock sample	"
6	Sampling locality	x(50)	In case of surface rock sample	"
7	Analysis period	x(8)x(8)	DD.MM.YYYY-DD.MM.YYYY	"

Data Items in Segment A111 (Analysis Performed)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
A311-				
1	Kind of analysis performed	9(2)	To be coded as in APPENDIX III See note in page AII-20	a-6, a-9, a-10, a-13
2	Number of sample	9(3)	Given by Financial Department	
3-	Unit Cost			
1	U.S.$	9(8)v9(2)		
2	Rp	9(10)		

Note 1 Kind of Analyses Performed

In case of Geochemical Analysis

1. Organic carbone analysis
2. Extraction and fractionation analysis
3. Kerogen typing analysis
4. Gas chromatography analysis
5. Gas and gasolines analysis
6. Spore colouration analysis
7. Vitrinite Reflectivity analysis
8. Thermal alteration index analysis
9. E.S.R. maximum paleontemperature analysis
10. Elemental analysis
11. Pyrolysis analysis
12. Other analysis

In case of Lithological Analysis

1. Microscopic analysis
2. Electron microscopic analysis
3. Chemical analysis
4. X-ray analysis
5. Heavy mineral analysis
6. Clay mineral analysis
7. Shaving analysis
8. Settling velocity method analysis
9. Other analysis

Data Items in Segment A320 (Report and Figure Reference)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
A320-				
1	Kind of figure and report	9(2)	To be coded as in APPENDIX XIII 1. Main chart 2. Figure 3. Analysis report	a-6, a-9, a-10, a-13
2	Reference number of figure and report	x(10)	To be coded as in APPENDIX XIII	a-6, a-9, a-10, a-13

Data Items in A400 (Root Segment of Prospect Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
A-400-				
1	Prospect name	x(3)	To be coded as in APPENDIX III	a-8
2	Area name	x(2)*3	To be coded as in APPENDIX III	a-8
3	Prospect name	x(20)		a-8
4	Well name	x(6)*3	To be coded as in APPENDIX III	a-8
5	Reference number of seismic interpretation report	x(13)*3	To be coded as in APPENDIX III	a-8
6	Reference number of map	x(13)*5	To be coded as in APPENDIX III	a-8
7	Reference number of prospect and lead report	x(13)*2	To be coded as in APPENDIX III	a-8
8	Period	x(8)x(8)	Registered date as prospect to converted date as field	a-8

Data Items in Segment A410 (Prospect Hydrocarbons Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
A410-				
1	Formation name	x(2)	To be coded as in APPENDIX III	a-8
2	Type of trap	9(2)	To be coded as in APPENDIX III	a-8
3	Number of layers	9(3)		a-8
4	Size of areal closure	9(5)	[10^3 acre]	a-8
5	Height of vertical closure	9(4)	[ft]	a-8
6	Estimated net pay thickness	9(4)	[ft]	a-8
7-	Estimated reservoir rock volume			
1	Gas bearing zone	9(6)	[10^3 acre.ft]	a-8
2	Oil bearing zone	9(6)	[10^3 acre.ft]	a-8
8-	Index productivity			
1	Gas	9(4)v9(1)	[$10^3 ft^3$/acre.ft]	a-8
2	Oil	9(4)v9(1)	[10^6 stb]	a-8
9-	Initial hydrocarbons in place			
1	Gas	9(6)v9(1)	[10^6 st.ft^3]	a-8
2	Oil	9(6)v9(1)	[10^6 st.ft^3]	a-8
10	Recovery factor	9(3)	[%]	a-8
11-	Recoverable hydrocarbons in place			
1	Gas	9(6)v9(1)	[10^6st.ft^3]	a-8
2	Oil	9(6)v9(1)	[10^6stb]	a-8
12	Chance factor	9(3)	[%]	a-8
13-	Risk reduced recoverable hydrocarbons in place			
1	Gas	9(6)v9(1)	[10^6 st.ft^3]	a-8
2	Oil	9(6)v9(1)	[10^6 stb]	

Data Items in Segment A500 (Root Segment of Map and Figure Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
A500-				
1	Map name	x(13)	To be coded as in APPENDIX III	
2	Kind of map	9(2)	See note 1 in page AII-26 To be coded as in APPENDIX III	
3	Province name	x(1)*3	To be coded as in APPENDIX III	
4	Area name	x(2)*3	To be coded as in APPENDIX III	
5	Field or prospect name	x(3)*3	To be coded as in APPENDIX III	
6	Propred or revised ate	x(8)	DD.MM.YYYY.	
7-	Map identification			
1	Title	x(100)		
2	Identification number	x(20)	Number currently used in PERTAMINA	
8	Author	x(30)		
9	Company name	x(50)		
10	Drawing number	x(10)	Number currently used in PERTAMINA	
11	Micro-film number	x(15)		
12	Map sheet size	x(2)		
13	Storage number	x(10)		
14	Reference number of report	x(13)	To be coded as in APPENDIX III	
Followings are in case of Map				
15	Scale	x(10)	Ex. 1:100000	
16	Contour interval	x(10)	Ex. 100 ft. 10m etc.	
17-	Coordinate of map limit			
1	Latitude (N)	x(7)*2	Ex. 999.99.99	
2	Longitude (E)	x(7)*2	Ex. 999.99.99	
Followings are in case of cross-section				
15	Line name	x(20)		
16-	Scale			
1	Vertical scale	x(10)		
2	Horizontal scale	x(10)		
17	Number of well	9(3)		

Data Items in Segment A500 (Root Segment of Map and Figure Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
Followings are in case of chart				
A500-				
15-	Scale			
1	Vertical scale	x(10)		
2	Horizontal scale	x(10)		
16	Number of wells	9(3)		

Note 1 Kind of Map

1. General map
11 Topographic map
12 Contract area map
13 Well location map
14 Prospect and lead map
15 Field location map
16 Exploration activity map
17 Other general map

2. Geological information map
21 Field geological map
22 Tectonic map
23 Facies map
24 Geothermal map
25 Geochemical map
26 Other geological information map

3. Geological contour map
31 Structural contour map
32 Iso-pach (Iso-lith) map
33 Other geological information map

4. Reservoir information map
41 Production map
42 Isoporosity map
43 Isopermeability map
44 Net oil isopach map
45 Net gas isopach map
46 Other reservoir information map

5. Cross-section
 51 Structural cross-section
 52 Stratigraphic cross-section
 53 Other cross-section

6. Chart
 61 Geological correlation chart
 62 Paleontological distribution chart
 63 Other chart

7. Other map and figure

Data Items in Segment A510 (Well Reference)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
A510-				
1	Objective of well	9(2)	To be coded as in APPENDIX III	
2	Well reference number	x(6)	To be coded as in APPENDIX III	

Data Items in Segment A520 (Formation and Layer Name Reference)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
A520-				
1	Formation reference number	9(2)	To be coded as in APPENDIX III	
2	Layer reference number	9(2)	To be coded as in APPENDIX III	

Data Items in Segment A500 (Root Segment of Report Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
A600-				
1	Report name (code)	x(13)	To be coded as in APPENDIX III	a-1, a-15
2	Kind of report	9(2)	To be coded as in APPENDIX III See not 1 in page AII-31	a-1, a-15
3	Area name	x(2)*3		a-1, a-15
4	Field name	x(3)*5		a-1, a-15
5	Prepared date	x(8)	Ex. DD.MM.YYYY	a-1, a-15
6-	Identification of report			
1	Title	x(100)		a-1, a-15
2	Identification number	x(20)	Currently used in PERTAMINA	a-1, a-15
7	Author	x(30)		a-1, a-15
8	Company name	x(50)		a-1, a-15
9	Storage number	x(10)	Currently used in PERTAMINA	

Note 1 Kind of Report

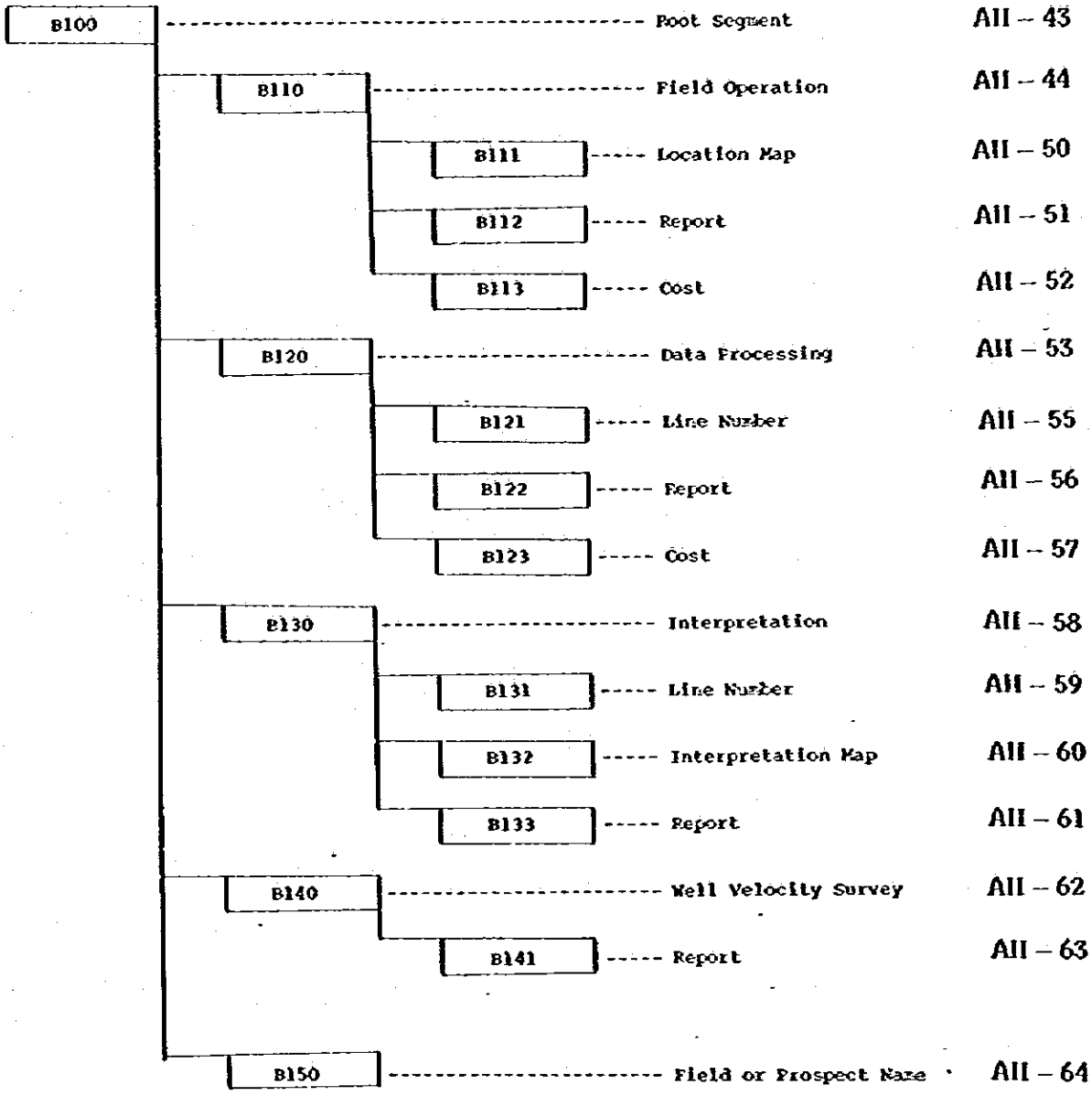
1	Monthly exploration report
2	Anual exploration report
3	Well resume report
4	Drilling proposal
5	Drilling operation program
6	Paleontological report
7	Field mapping report
8	Photogeological report
9	Prospect and lead report
10	Geochemical analysis report
11	Lithological analysis report
12	Other geological analysis report
13	Log evaluation report
14	Geological evaluation report
15	Basin study and regional study report
16	Special study report
17	Work program and budget report
18	Other geological report

Data Items in Segment A610 (Map and Figure Reference)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
A610-				
1	Kind of map and figure	9(2)	To be coded as in APPENDIX III	a-1, a-15
2	Reference number of map and figure	x(13)	To be coded as in APPENDIX III	a-1, a-15

2 B-GEOPHYSICAL DATA INFORMATION

2-1 Segment Diagram Index of Data Structure



2-2 Data Items in Segment

Data Items in Segment B100 (Root Segment)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
B100-				
1	Survey name	x(6)	To be coded as in APPENDIX III	b-1, 2, 3, 4, 5
2	Area name	x(2)*4	To be coded as in APPENDIX III	b-1, 2, 3, 4, 5
3	Well name	x(7)	In case of well velocity survey	b-4
4	Kind of survey	9(1)	To be coded as in APPENDIX III	
			1. Seismic survey	b-1
			2. Magnetic survey	b-2
			3. Gravity survey	b-3
			4. Well velocity survey	b-4
			5. Special study	b-5
5	Method of survey	9(1)	In case of seismic survey	b-1
			To be coded as in APPENDIX III	
			1. Reflection	
			2. Refraction	
6	Survey name	x(150)		b-1, 2, 3, 4, 5
7	Period (for survey)	x(16)	In case of seismic, magnetic or gravity survey, input data for period will be a period from the date of starting field operation to the date of completing final interpretation.	b-1, 2, 3, 4, 5
			In case of well velocity survey or special study, input data for period will be a period for well velocity survey or special study respectively.	
8	Objective (for special study)	x(250)	In case of special study	b-5

Data Items in Segment B110 (Field Operation)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
B110-				
1	Period (for field operation)	x(16)	Ex. YYYY.MM.DD - YYYY.MM.DD	b-1, 2, 3
2-	Contract			
1	Date	x(8)		
2	Identification	x(20)		
3	Name of organization (Geophysical contractor's name & party number)	x(50)		b-1, 2, 3
4-	Magnetic tape			b-1, 2, 3
1	Tape number & supporting data (of start & end)	x(50)		
2	Type of magnetic tape	x(20)		
3	Quality (good, fair, poor)	9(3)*3	(%)	
4	Storage place	x(50)		
5	Site description	9(2)	See not 1 in page AII-42 To be coded as in APPENDIX III	
6	Total length recorded	9(6)v9(3)	(km)	b-1, 2, 3
7	Total stations recorded (In case of seismic survey, total number of shot points will be input)	9(7)		b-1, 2, 3
8	Total line cutting	9(6)v9(3)	(km)	b-1, 2, 3
9	Total bridging	9(5)v9(3)	(km)	b-1, 2, 3
10	Total land survey	9(6)v9(3)	(km)	b-1, 2, 3

Data Items in Segment B110 (Field Operation)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
B110-				b-1, 2, 3
11-	Helicopter			
1	Total flying hours	9(4)v9(2)	(hours)	
2	No. of helipad	9(2)		
3	Name of helibase station	x(30)		
4	Type of helicopter	x(20)		b-1, 2, 3
12-	Total fuel			
1	Total gasoline	9(7)v9(1)	(liter)	
2	Total diesel oil	9(7)v9(1)	(liter)	
3	Total kerosene	9(7)v9(1)	(liter)	
4	Total aviation turbine fuel	9(7)v9(1)	(liter)	
5	Total lubricant	9(7)v9(1)	(liter)	
6	Total grease	9(7)v9(1)	(kg)	
13-	Average manpower			
1	Expatriate	9(2)		
2	Local staff	9(1)		
3	Labor	9(4)		
14-	Total explosive		In case of seismic survey	b-1
1	Total primer	9(7)	(lbs)	
2	Total detonator	9(7)	(pcs)	
3	Total main charge	9(7)	(lbs)	
15-	Drilling (for the explosive)		In case of seismic survey	b-1
1	Total holes drilled	9(7)		
2	Total depth drilled	9(7)	(m)	

Data Items in Segment B110 (Field Operation)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
B110-				
16-	Survey method			b-1
	In case of seismic survey			
1	Name of recording instrument	x(50)		
2	Recording system	9(1)	To be coded as in APPENDIX III 1. Digital 2. Analogue	
3	Recording filter	x(15)	Ex. 12 - 128 Hz	
4	Sampling rate	9(3)	(msec)	
5	Name of detector (Geophone type or name of streamer and frequency)	x(50)		
6	Length (between centers of first group and last group, or length of streamer)	9(5)	(m)	
7	Offset	9(4)	(m)	
8	Group interval	9(4)	(m)	
9	Geophone interval	9(4)	(m)	
10	No. of groups	9(3)		
11	No. of geophone per group	9(3)		
12	Source of energy	x(40)		
13	No. of holes per shot	9(2)		
14	Charge per hole	x(15)	Ex. 10 & 15 lbs	
15	Hole's separation	9(3)	(m)	
16	Average charge depth	9(3)	(m)	
17	Shooting pattern	9(1)	To be coded as in APPENDIX III 1. Split spread 2. In line spread 3. T spread 4. L spread	

Data Items in Segment B110 (Field Operation)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
B110-				
16-17			5. Offset spread 6. End-on spread 7. Slalom line spread	
18	Distance between stations (In case of seismic survey, distance between shot points will be input)	9(4)	(m)	
19	No. of fold for recording	9(4)*2	(%)	
20	Line interval	x(15)	Ex. 2 x 4 km	
21	Positioning method	x(40)		
22	Field test date (for parameter test)	x(8)*2	YYYY.MM.DD - YYYY.MM.DD	
23	Field test location (for parameter test)	x(40)		
	In case of magnetic survey			b-2
16-1	Airborne or land	9(1)	To be coded as in APPENDIX III 1. Air borne 2. Land	
2	Approximate surveyed area size	9(6)v9(3)	(km^2)	
3	Line interval	x(15)		
4	Flight high	9(5)	(m)	
5	Distance between stations	9(5)	(m)	
6	Name of magnetometer	x(50)		
7	Accuracy of magnetometer	x(50)		
8	Name of magnetometer (for diurnal correction)	x(50)		
9	Accuracy of magnetometer (for diurnal correction)	x(50)		

Data Items in Segment B110 (Field Operation)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
B110-				
16-10	Recording system	9(1)	To be coded as in APPENDIX III 1. Digital 2. Analogue	
11	Sampling rate	x(15)		
12	Name of recording instrument	x(50)		
13	Positioning method	x(40)		b-3
	In case of gravity survey			
16-1	Approximate surveyed area size	9(6)V9(3)	(km^2)	
2	Line interval	x(15)		
3	Distance between stations	9(5)	(m)	
4	Name of gravimeter	x(50)		
5	Accuracy of gravimeter (Reading scale and temperature)	x(50)		
6	Recording system	9(1)	To be coded as in APPENDIX III 1. Digital 2. Analogue	
7	Name of recording instrument	x(50)		
8	Positioning method	x(40)		
9	No. of samples (for analysis of rock density)	9(4)		
10	Description (for analysis of rock density)	x(300)		

NOTE 1. Standard Classification of Site Description

1 - Tidal area
2 - Swamp
3 - Jungle
4 - Open area with forest
5 - Open area with natural grass
6 - Desert
7 - Hill with jungle
8 - Hill with forest
9 - Hill with natural grass
10 - Mountain (gentle)
11 - Mountain (steep)
12 - Glacial area
13 - Offshore

Data Items in Segment B111 (Location Map)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
B111-				
1	Identification of map	x(13)	To be coded as in APPENDIX III	
2	Kind of map	x(2)	To be coded as in APPENDIX III	b-1, 2, 3
3	Title	x(100)		b-1, 2, 3
4	Date	x(8)		b-1, 2, 3
5	Scale	x(10)	Ex. 1:100000	b-1, 2, 3
6	Microfilm number	x(10)		
7	Author	x(30)		b-1, 2, 3
8	Name of organization (to which author belongs)	x(50)		b-1, 2, 3
9	Identification of report (to which map is attached)	x(13)	To be in the coded form	

Data Items in Segment B112 (Report)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
B112-				
1	Identification of report	x(13)	To be coded as in APPENDIX III	b-1, 2, 3
2	Title	x(100)		b-1, 2, 3
3	Date	x(8)		
4	Storage number	x(10)		b-1, 2, 3
5	Author	x(30)		b-1, 2, 3
6	Name of organization (to which author belongs)	x(50)		

Data Items in Segment B113 (Cost)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
B113-				
1	Date	x(6)	Ex. YYYY.MM	
2	Survey length per year	9(6)V9(3)	(km)	b-1, 2, 3
3	No. of stations per year	9(6)		b-1, 2, 3
4-	Operation cost per year			
1	US.$	9(7)V9(2)		
2	Rp.	9(10)V9(2)		
5-	Manpower cost for expatriate per year			
1	US.$	9(7)V9(2)		
2	Rp.	9(10)V9(2)		
6-	Manpower cost for local staff per year			
1	US.$	9(7)V9(2)		
2	Rp.	9(10)V9(2)		
7-	Manpower cost for labor per year			
1	US.$	9(7)V9(2)		
2	Rp.	9(10)V9(2)		

Data Items in Segment B120 (Data Processing)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
B120-				
1	No. of times (for data processing)	9(1)		
2	Period (for data processing)	x(16)		b-1, 2, 3
3-	Order document			
1	Date	x(8)		
2	Identification	x(20)		b-1, 2, 3
4	Name of organization (Data processing company)	x(50)		b-1, 2, 3
5-	Magnetic tape			
1	Tape number & supporting data (of start and end)	x(50)		
2	Type of magnetic tape	x(20)		
3	Quality (good, fair, poor)	9(3)*3	(%)	
4	Storage place	x(50)		
6-	Processing method In case of seismic survey			b-1
1	No. of fold for recording	9(4)*2	(%)	
2	No. of fold for processing	9(4)*2	(%)	
3	Sampling rate for processing	9(3)	(msec)	
4	Kind of section	9(1)*4	To be coded as in APPENDIX XII 1. Unmigrated time section 2. Unmigrated depth section 3. Migrated time section 4. Migrated depth section	

Data Items in Segment B120 (Data Processing)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
B120-				
6-5	Application of deconvolution	9(1)	To be coded as in APPENDIX III 1. Done before stack (DBS) 2. Done after stack (DAS) 3. DBS & DAS 4. Without	
6	Additional processing sequence	x(50)		b-2
	In case of magnetic survey			
6-1	Sampling rate for processing	x(15)		
2	I.G.R.F. used for correction (I.G.R.F. means International Geomagnetic Reference Field)	9(4)	Ex. YYYY	
3	Filtration	x(100)		b-3
	In case of gravity survey			
6-1	Rock density (applied to processing)	9(3)V9(4)*5	(g/cm^3)	
2	Filtration	x(100)		

Data Items in Segment B121 (Line Number)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
B121-1	Line number and station number (of start and end)	x(100)	In case of seismic survey, shot point number will be input.	b-1, 2, 3

Data Items in Segment B122 (Report)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
B122-				
1	Identification of report	x(13)	To be coded as in APPENDIX III	
2	Title	x(100)		b-1, 2, 3
3	Date	x(8)		b-1, 2, 3
4	Storage number	x(10)		
5	Author	x(30)		b-1, 2, 3
6	Name of organization (to which author belongs)	x(50)		b-1, 2, 3

Data Items in Segment B123 (Cost and Invoice)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
B123-				
1	Date	x(6)		b-1, 2, 3
2	Processed length per year	9(6)V9(3)	(km)	b-1, 2, 3
3	No. of stations processed per year	9(7)		
4-	Processing cost per year			
1	U.S. $	9(7)V9(2)		
2	RP.	9(10)V9(2)		

Data Items in Segment R130 (Interpretation)

Item No.	Item Name	Data Properties (Type, Length & Occurance)	Remarks	Source Document (Report No.)
R130-				
1	No. of times (for interpretation)	9(1)		
2	Period (for interpretation)	x(16)		b-1, 2, 3, 5
3-	Contract			
1	Date	x(8)		
2	Identification	x(20)		
4	Author	x(30)		b-1, 2, 3, 5
5	Name of organization (to which author belongs)	x(50)		b-1, 2, 3, 5
6	Total length interpreted	9(6)V9(3)	(km)	b-1, 2, 3
7	Total stations interpreted	9(7)		b-1, 2, 3
8-	Total interpretation cost			
1	U.S. $	9(7)V9(2)		
2	RP.	9(10)V9(2)		

Data Items in Segment B131 (Line Number)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
B131-				
1	Line number	x(100)	In case of special study	b-5
2	Survey name	x(6)	In case of special study	b-5
	(data used for the special study)		To be coded as in APPENDIX III	

Data Items in Segment B132 (Interpretation Map)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
B132-				
1	Identification of map	x(13)	To be coded as in APPENDIX III	
2	Kind of map	x(2)	To be coded as in APPENDIX III	b-1, 2, 3, 5
3	Title	x(100)		b-1, 2, 3, 5
4	Date	x(8)		b-1, 2, 3, 5
5	Migrated or unmigrated	9(1)	In case of seismic survey or special study	b-1, 5
			To be coded as in APPENDIX III	
			1. Unmigrated	
			2. Migrated	
6-	Horizon name		In case of seismic survey, special study	
1	Horizon name	x(10)*4	To be coded as in APPENDIX III	
2	Formation name	x(3)*4	To be coded as in APPENDIX III	
7	Contour interval	x(15)		b-1, 2, 3, 5
8	Scale	x(10)		b-1, 2, 3, 5
9	Microfilm number	x(10)		
10	Author	x(30)		b-1, 2, 3, 5
11	Name of organization (to which author belongs)	x(50)		b-1, 2, 3, 5
12	Identification of report (to which map is attached)	x(13)	To be coded as in APPENDIX III	

Data Items in Segment B133 (Report)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
B133-				
1	Identification of report	x(13)	To be coded as in APPENDIX XIII	b-1, 2, 3, 5
2	Title	x(100)		b-1, 2, 3, 5
3	Date	x(8)		
4	Storage number	x(10)		b-1, 2, 3, 5
5	Author	x(30)		b-1, 2, 3, 5
6	Name of organization (to which author belongs)	x(50)		

Data Items in Segment B140 (Well Velocity Survey)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
B140-				
1-	Contract			
1	Date	x(8)		
2	Identification	x(20)		
2	Name of organization (Subcontractor's name)	x(50)		b-4
3	Location (Line number & SP number)	x(25)*2		b-4
4-	Magnetic tape			
1	Tape number & supporting data (of start and end)	x(50)		b-4
2	Type of magnetic tape	x(20)		b-4
3	Quality (good, fair, poor)	9(3)*3	(%)	
4	Storage place	x(50)		
5	Datumn level	x(20)		b-4
6	Source of energy	x(40)		b-4
7	Total shots	9(5)		b-4
8	Initial depth surveyed	9(3)	(m)	b-4
9	Total depth surveyed	9(5)	(m)	b-4
10	Formation name (of total depth surveyed)	x(2)	To be coded as in APPENDIX III	b-4
11	Synthtic seismogram	9(1)	To be coded as in APPENDIX III 1. Run 2. Not	
12-	Total survey cost			
1	U.S.$	9(7)v9(2)		
2	Rp.	9(10)v9(2)		

Data Items in Segment B141 (Report)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
B141-				
1	Identification of report	x(13)	To be coded as in APPENDIX III	
2	Title	x(100)		b-4
3	Date	x(8)		b-4
4	Storage number	x(10)		
5	Author	x(30)		b-4
6	Name of organization (to which author belongs)	x(50)		b-4

Data Items in Segment A150 (Field or Prospect Name)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
A150-				
1	Field or prospect name	x(3)	To be coded as in APPENDIX III	

3 C-WELL DATA INFORMATION

3-1 Segment Diagram Index of Data Structure

3-2 Data Items in Segment

Data Items in Segment C100 (Root Segment of Well Data Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C100-				
1	Well name	x(6)	To be coded as in APPENDIX II	c-3, c-4,
2	Workover number	x(2)	Ex. 1 for 1st workover 2 for 2nd workover	c-4
3	Province name	x(1)	To be coded as in APPENDIX III	
4	Area name	x(2)	To be coded as in APPENDIX III	
5	Field Office name	x(1)	To be coded as in APPENDIX III	c-3
6	Field name/prospect name	x(3)	To be coded as in APPENDIX III	c-3
7	Objective of well	9(1)	Applied to original drilling To be coded as in APPENDIX III 1. Wild cat 2. Delineation and/or Appraisal 3. Producer 4. Injector 5. Observatory	c-3
8	Objective of workover	9(1)	Applied to workover To be coded as in APPENDIX III 1. Recompletion by changing completed zone 2. Recompletion by adding new completed zone 3. Repair of completed zone by shut off 4. Mechanical repair 5. Reopening (for the purpose of rehabilitating oil well which has been thrown out)	c-4
9	Completion status	9(1)	To be coded as in APPENDIX III 1. Completed 2. Suspended 3. Abandoned	c-5
10-	Formation name (objective)		To be coded as in APPENDIX III	c-1 or c-3
1	Primary objective	x(2)		
2	Secondary objective	x(2)*2		

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C100-				
11	Layer name (objective)	x(5)*3	To be coded as in APPENDIX III	c-1 or c-3
12-	Operating date			
1	Spud date	x(8)	Ex. DD.MM.YYYY	c-3
2	Date reached TD	x(8)		
3	Rig release date	x(8)		c-3
4	Total days to TD	9(3)		
5	Total days	9(3)		
13	Operator	x(15)		c-3 c-4
14	Drilling contractor	x(10)		c-3 c-4
15	Rig name	x(10)	Ex. Rig No-10	c-3 c-4
16	Rig type	x(15)	Ex. NT 1625 DE	c-3 c-4
17	Vertical or deviated	9(1)	To be coded as in APPENDIX III	
18-	Sidetracking			
1	Date	x(8)	Ex. DD.MM.YYYY	c-3 or c-2
2	Depth	9(4)v9(1)	[m]	c-3 or c-2
19-	Local coordinate			
1	Base point	x(20)		
2	X	9(8)v9(2)	[m]	c-3
3	Y	9(8)v9(2)	[m]	c-3
20-	Mercator coordinate			
1	Latitude (S)	x(7)	Ex. 999.99.99	
2	Longitude (E)	x(7)		
21	Reference No. of geophysical survey (Seismic survey)	x(6)	To be coded as in APPENDIX III Applied to wild cat, delineation or Appraisal well	
22	Seismic line No.	x(15)	Applied to wild cat, delineation or appraisal well	

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C100-				
23	Shot point No.	x(11)	Applied to wild cat, delineation or appraisal well	c-3
24	Well location name	x(7)		
25-	Local coordinate (bottom hole location)			
1	Base point	x(20)		
2	X	9(8)v9(2)	[m]	
3	Y	9(8)v9(2)	[m]	
26-	Mercator coordinate (bottom hole location)			
1	Latitude (S)	x(7)	Ex. 999.99.99	
2	Longitude (E)	x(7)	Ex. 999.99.99	
27	Site description	9(2)	To be coded as in APPENDIX III	
28	Original derrick floor elevation	9(3)v9(1)	[m]	c-3, c-4
29	Original derrick floor height from bottom flange	9(3)v9(1)	[m] From wellhead lowest flange	c-3, c-4
30	Total depth	9(4)v9(1)	[m] Ex. 9999.9	c-3, c-4
31	Plug back depth	9(4)v9(1)	[m]	c-3, c-4
32	True vertical depth	9(4)v9(1)	[m] Applied to deviated well	
33	Kick off point	9(4)v9(1)	[m] Applied to deviated well	
34	Holizontal deviation	9(4)v9(1)	[m] Applied to deviated well	
35	Mean drift angle	9(2)v9(2)	[deg] Applied to deviated well	
36	Kind of deviation survey	9(1)*2	To be coded as in APPENDIX III 1. TOTCO 2. Magnetic 3. Gyro	c-14
37-	Casing and tubing head assembly			
1	Size	x(30)	Ex. 13-3/8" x 9-5/8" x 3-1/2"	c-2 or c-1
2	Manufacturer	x(10)		c-2 or c-1
3	Working pressure	9(5)	[psi]	c-2 or c-1

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C100-				
38-	Christmas tree assembly			
1	Date of installation	x(8)		c-2 or c-1
2	Manufacturer	x(10)		c-2 or c-1
3	Wing valve configuration	9(1)	To be coded as in APPENDIX III	c-2 or c-1
			1. Single wing	
			2. Double wing	
4	Working pressure	9(5)	[psi]	c-2 or c-1
39-	Mud log			
1	Type of logging unit	x(20)		c-15
2	Log interval	[9(4)v9(1) *2] *2	[m]	c-15
40-	Well log interpretation report			
1	Kind of interpretation	9(2)	To be coded as in APPENDIX III	
			1. Quick look	
			2. computer processed by PERTAMINA	
			3. CPI	
			4. MDT	
			5. CSU	
			6. Cyber Dip	
2	Date	x(8)	Ex. DD.MM.YYYY	
3	Reference No.	x(10)		
4	Author/organization	x(20)		
41-	Mud logging report			
1	Date	x(8)	Ex. DD.MM.YYYY	
2	Reference No.	x(10)		
3	Author/organization	x(20)		
42-	Service contractor			
1	Cementing job	x(15)		c-11
2	Drirectional drilling	x(15)*2		c-14
3	Mud engineering	x(15)		

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C100-				
42-4	Mud log	x(15)		c-15
5	Well log	x(15)		
43-	Mud consumption (in kg)	*20		
1	Name of mud agents	9(2)	To be coded as in APPENDIX III	c-3, c-4
2	Consumption	9(6)	[kg]	c-3, c-4
44-	Mud consumption (in liter)	*20		
1	Name of mud agents	9(2)	To be coded as in APPENDIX III	c-3, c-4
2	Consumption	9(6)	[liter]	c-3, c-4
45-	Cement & additive consumption (in kg)	*10		
1	Type or name of cement and additives	9(2)	To be coded as in APPENDIX III	c-3, c-4
2	Consumption	9(6)	[kg]	c-3, c-4
46-	Cement & additive consumption (in liter)	*10		
1	Type or name of cement and additives	9(2)	To be coded as in APPENDIX III	c-3, c-4
2	Consumption	9(6)	[liter]	c-3, c-4
47-	Time analysis	9(4)v9(1) *20	See note 1 in this page [hr]	c-3, c-4

Note 1 Time Analysis Detailed Item

1. Rigging up
2. Rigging down
3. Drilling
4. Round trip
5. Circulation
6. Coring
7. Reaming
8. Pressure test/injection test/mud off test
9. Running casing
10. Cementing
11. Wait on cement
12. Completion/swab/preparation
13. Fishing
14. Repairing mud pump
15. Repairing other
16. Well logging
17. Production test/BHP
18. Waiting
19. Shut down
20. Other

Data Items in Segment C110 (Stratigraphy)

Item No		Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C110-	1	Formation name	x(2)	To be coded as in APPENDIX III	c-3
	2	Layer name	x(5)	To be coded as in APPENDIX III	c-3
	3	Top of formation	9(4)v9(1)	[m] Drilling depth, in case of vertical well True vertical depth, in case of deviated well	c-3
	4	Top of layer	9(4)v9(1)	[m]	c-3
	5	Lithology	x(20)		
	6	Layer net thickness	9(3)v9(1)	[m]	
	7	Layer gross thickness	9(3)v9(1)	[m]	

Data Items in Segment C120 (Hole and Casing)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C120-				
1	Hole size	x(4)	[in] Ex. 1712 for 17 1/2" hole 0812 for 8 1/2" hole	c-3
2	Hole depth	9(4)v9(1)	[m]	c-3
3	Casing size	x(4)	[in] Ex. 1338 for 13 3/8" casing 0700 for 7" casing	c-3
4	Casing set date	x(8)	Ex. DD.MM.YYYY	c-3
5 -	Type of casing	*4		
1	Grade	x(6)	Ex. P-110	c-3
2	Weight	9(3)v9(2)	[lbs/ft]	c-3
3	Set depth/interval	9(4)v9(1)*2	[m]	c-3
6	Liner hanger	x(30)	In case of Liner set Brief description on liner hanger manufacturer, model ....etc.	c-3
7	Liner slot interval	9(4)v9(1)*2	In case of slotted liner [m]	c-3

Data Items in Segment C130 (Completion String)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C130- 1	String name	x(1)	To be coded as in APPENDIX III 1. S: Short length tubing 2. M: Middle length tubing 3. L: Long length tubing 4. A: Annulus	c-5
2	String specification	9(1)	To be coded as in APPENDIX III 1. Ordinary string 2. Rod pump 3. Submergible pump 4. Gas 5. Dump flood water injection 6. Powered water injection 7. Gas injection	c-5
3	Completed interval	[9(4)v9(1)*2] *10	[m]	c-5
4-	Tubing			
1	Size	9(1)v9(3)	[in]	c-5, c-7
2	Weight	9(2)v9(2)	[lbs/ft]	c-7
3	Grade	x(6)		c-7
4	Depth	9(4)v9(1)	[m] Depth at tail end of string	c-5
5	Packer depth	9(4)v9(1)*2	[m]	

Data Items in Segment C131 (Rod Pump)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C131-				
1-	Subsurface pump			
1	Installation date	x(8)	Ex. DD.MM.YYYY	c-8
2	Size	9(1)v9(3)	[in]	c-8
3	Manufacturer	x(15)		c-8
4	Type	9(2)	To be coded as in APPENDIX III	c-8
5	Depth	9(4)v9(1)	[m]	c-8
2-	Gas anchor	9(1)	To be coded as in APPENDIX III	c-8
			1. With gas anchor	
			2. Without gas anchor	
3	Anchor catcher depth	9(4)v9(1)	[m]	c-8
4-	Surface pump			
1	Installation date	x(8)		
2	Type	9(1)	To be coded as in APPENDIX III	c-8
			1. Crank counter balance	
			2. Beam counter balance	
			3. Air balance	
			4. Others	
3	Manufacturer	x(15)		c-8
4	Model	x(10)		c-8
5	Indent No.	x(10)		
5-	Prime mover			
1	Installation date	x(8)		
2	Type	9(1)	To be coded as in APPENDIX III	c-8
			1. Electric-motor	
			2. Gas engine	
			3. Gasoline engine	
			4. Diesel engine	

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C131-				
5-				
3	Manufacturer	x(15)		c-8
4	Model	x(10)		c-8
5	Ident. No.	x(10)		

Data Items in Segment C132 (Submergible Pump)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C132-				
1-	Subsurface pump			
1	Installation date	x(8)	Ex.DD.MM.YYYY	
2	Manufacturer	x(15)		
3	Model	x(15)		
4	Size	x(25)	Pump dia x length	
5	Ident. No.	x(10)		
6	Depth at intake	9(4)v9(1)	[m]	
7	Gas separator	9(1)	To be coded as in APPENDIX III 1. With gas separator 2. Without gas separator	

Data Items in Segment C133 (Gas Lift)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C133-				
1	Macaroni pipe	9(1)	To be coded as in APPENDIX III 1. With macaroni pipe 2. Without macaroni pipe	c-5,c-9
2	Type of lifting	9(1)	To be coded as in APPENDIX III 1. Continuous 2. Intermittent	
3	Type of installation	9(1)	To be coded as in APPENDIX III 1. Open installation 2. Semiclosed installation 3. Closed installation 4. Chamber installation 5. Others	c-5,c-9
4	Installation date	x(8)	Ex. DD.MM.YYYY	c-5,c-9
5-	Macaroni pipe data			c-5,c-9
1	Size	9(1)v9(3)	[in]	c-5,c-9
2	Length	9(4)v9(1)	[m]	
6-	Gas lift valve	*15		c-5,c-9
1	Manufacturer	x(15)		c-5,c-9
2	Model	x(10)		c-5,c-9
3	Port size	x(8)		c-5,c-9
4	Depth	9(4)v9(1)	[m]	
7-	Surface controller			
1	Installation date	x(8)		
2	Manufacturer	x(15)		
3	Model	x(15)		

Data Items in Segment C140 (Perforation)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C140-				
1	Date	x(8)	Ex.DD.MM.YYYY	C-5,C-12,C-21 C-22,C-3,C-4
2	Objective	9(1)	To be coded as in APPENDIX III 1. Completion 2. Squeeze cementing 3. Test 4. Other	C-5 C-12 C-21,C-22 C-3,C-4
3	Interval	9(4)v9(1)*2	[m]	C-5,C-12,C-21 C-22,C-3,C-4
4	Type of perforation	x(15)	Ex.AL.Unijet	Same as above
5	Size of perforation	x(8)		"
6	Number of shot	9(3)		"
7	Density of shot	9(1)	[shots/ft]	"
8	Casing/Liner perforated	x(4)*2	[in]	"
9	Status of perforation	9(1)	To be coded as in APPENDIX III 1. Opened 2. Closed	

Data Items in Segment C150 (Plug Back)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C150-			See Note 1. in this page	c-2
1	Date of set	x(8)	Ex. DD.MM.YYYY	
2	Kind of plug back	9(1)	To be coded as in APPENDIX III 1. Cement 2. Bridge plug 3. Cement & bridge plug	c-5
3	Depth/interval	9(4)v9(1)*2	[m]	c-5
4	Model of bridge plug	x(10)	Ex. HOWCO EZ	

Note 1: Plug back

To be applied to the plugs which were left in hole at completion.

Date Items in Segment C160 (Abandonment Record)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C160-				
1	Reason of abandonment	x(100)*2		c-3,c-4,c-5
2	Hole condition	x(100)*2		c-3,c-4,c-5

Data Items in Segment C170 (Bit Record)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C170-				
1	Run No.	x(5)		c-10
2	Bit size	x(6)	[in] Ex. 170102 for 17-1/2" bit 071332 for 7-13/32"	c-10
3	Model	x(10)		c-10
4	Interval	9(4)v9(1)*2	[m]	c-10
5	Hours	9(3)v9(2)	[hr]	c-10
6-	Bit condition		See note 1 in this page	
1	Tooth dullness	x(3)		c-10
2	Bearing condition	x(1)		c-10
3	Bit gage	x(3)		c-10

Note 1. Bit condition

Bit condition to be indicated in accordance with IADC-API reporting method

(Example) "

1. Indication of tooth dullness in eights

Indication of tooth dullness	Explanation mild tooth bit	Insert bit
1	Tooth height 1/8 gone	1/8 of inserts lost or broken
2	Tooth height 1/4 gone	1/4 of inserts lost or broken
:	:	:
8	Tooth height all gone	All of inserts lost or broken

If any one raw has a majority of teeth broken, add the letters ("BT")

2. Indication of bearing condition in eights

Indication of bearing condition	Explanation
1	1/8 of bearing life used
2	1/4 of bearing life used
:	:
8	Bearing life all gone

3. Indication of bit gage

Indication of bit gage	Explanation
=	In gage
-10	If out of gage, amount of gage in millimetre (this example shows 10mm out of gage)

Data Items in Segment C180 (Mud Record)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C180-				
1	Interval	9(4)v9(1)*2	[m]	
2	Type of mud	9(1)	To be coded as in APPENDIX III	c-3,c-4
			1. Fresh water base	
			2. Salt water base	
			3. Oil in water emulsion	
			4. Oil base	
			5. Others	c-3,c-4
3-	Average mud properties			
1	Weight (SG)	9(1)v9(2)*2	Ex. 1.05-1.10	c-3,c-4
2	Viscosity	9(3) *2	[sec] Ex. 105-110	c-3,c-4
3	Water loss	9(2)v9(1)*2	[cc] Ex. 10.5-11.0	c-3,c-4
4	Sand content	9(2)v9(1)*2	[%] Ex. 10.5-11.0	c-3,c-4
5	Salt content	9(6)*2	[ppm] Ex. 105000-110000	c-3,c-4
6	Oil content	9(2)v9(1)*2	[%] Ex. 10.5-11.0	c-3,c-4
7	P.M	9(2)v9(1)*2	Ex. 10.5-11.0	c-3,c-4

Data Items in Segment C190 (Mud off Test)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C190-				
1	Tested date	x(8)	Ex. DD.MM.YYYY	c-2
2	Tested depth	9(4)v9(1)	[m]	c-2
3	Equivalent weight of leak off pressure	9(1)v9(2)	[kg/cm^2/10m]	c-2

Data Items in Segment C210 (Primary Cementing)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C210-				
1	Cementing date	x(8)	Ex. DD.MM.YYYY	
2	Casing size	x(4)	[in]	c-11
3	Stage name	x(5)	Ex. Shoe, DV-1 or SC-1 (SC: Stage cementer) ... etc.	
4	Depth	9(4)v9(1)	[m]	c-11
5-	Cement			
1	Type of cement	9(15)	Ex. Class G.	c-11
2	Additives	x(30)	Ex. 5% CACL2	c-13
3	Slurry weight (SG)	9(1)v9(2)		c-11
4	Cement bulk amount	9(6)	[kg]	c-11

Data Items in Segment C220 (Squeeze Cementing)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C220-				
1	Date	x(8)	Ex. DD.MM.YYYY	c-12
2	Objective	9(1)*3	To be coded as in APPENDIX III 1. Supplementing primary cement 2. Sealing off undesired perforation 3. Plugging channel 4. Repairing damaged casing	c-12
3	Interval	9(4)v9(1)*2	[m]	c-12
4-	Coment data			
1	Type of cement	x(15)		c-12
2	Additives	x(20)	Ex. 2% CACL2	c-12
3	Slurry weight (SG)	9(1)v9(2)		c-12
4	Cement bulk amount	9(6)	[kg]	c-12
5	Average squeezing injection rate	9(4)v9(1)	[ℓ/min]	c-12
6	Squeezing final pressure	9(3)v9(1)	[kg/cm^2]	c-12
7	Coment on result	x(40)		c-12

Data Items in Segment C230 (Down Hole Troubles)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C230-				
1	Kind of trouble	9(1)	To be coded as in APPENDIX III 1. Lost circulation problem 2. Hole sloughing problem 3. Pipe sticking problem 4. Well control problem 5. Water flow problem 6. Deviation control problem 7. Down hole equipment failure 8. Others	c-2,c-4
2	Date emergenced	x(8)	Ex. DD.MM.YYYY	c-2,c-4
3	Date overcome	x(8)		c-2,c-4
4	Depth	9(4)v9(1)*2		c-2,c-4
5	Summary of trouble	x(100)*2	Brief description on the hole condition and the treatment method	c-2,c-4

Data Items in Segment C240 (Miscellaneous Troubles)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C240-				
1	Summary of miscellaneous troubles	x(100)*2	Brief description on various troubles - long term rig repair, severe cementing troubles ... etc., other than down hole troubles as described in C240	c-3,c-4

Data Items in Segment C250 (Well Log)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C250-				
1	Kind of log	9(2)*4	To be coded as in APPENDIX III	C-3
2	Run No.	x(1)		
3	Interval	9(4)v9(1)*2	[m]	C-3
4	Scale	9(1)*3	To be coded as in APPENDIX III 1. 1:200 2. 1:500 3. 1:1000	C-3
5	Survey date	x(8)	Ex. DD.MM.YYYY	C-2
6	Ident. No.	x(20)	Your reference No.	

Data Items in Segment C260 (Coring)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C260-				
1	Coring date	x(8)	Ex. DD.MM.YYYY	c-16
2	Core No.	x(5)		c-16
3	Interval	9(4)v9(1)*2	[m]	c-16
4	Recovery	9(2)v9(1)	[m]	c-16
5	Core size	x(5)	[in]	c-16
6	Type of coring bit	9(1)	To be coded as in APPENDIX III 1. Roller bit 2. Diamond bit	c-16
7	Type of barrel	9(1)	To be coded as in APPENDIX III 1. Conventional 2. Wire line 3. Rubber sleeve 4. Oriented core	c-16
8	Reference report No.	x(10)		c-16

Data Items in Segment C261 (Core Lithology)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C26l-				C16
1	Interval selected	9(4)v9(1)*2	[m]	C16
2-	Lithology			
1	Main lithology	x(10)		
2	Others	x(10)		C16
3-	Characteristics of lithology			
1	Sorting	x(6)		
2	Hardness	x(6)		
3	Grain size	x(9)		
4	Porosity	9(2)v9(1)	[%]	
5	Colour	x(5)		

Data Items in Segment C270 (Side Wall Sample)

Item No.	Item Name	Data Properties (Type, Length & Occurance)	Remarks	Source Document (Report No.)
C270-				
1	Sampling date	x(8)	Ex. DD.MM.YYYY	c-18
2	Service contractor	x(15)		c-18
3	Reference report No.	x(10)		c-18

Data Items in Segment C271 (Sample Data)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C271-				
1	Sample number	9(2)		C-18
2	Sample depth	9(4)v9(1)	[m]	C-18
3	Recovery	9(3)	[%]	C-18
4	Lithology	x(10)		C-18
5	Porosity	9(2)v9(1)	[%]	C-18
6	Colour	x(5)		C-18
7	Grain size	x(9)		C-18
8	Sorting	x(6)		C-18
9	Hardness	x(6)		C-18

Data Items in Segment C280 (Cutting Sample)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C280-				
1	Sampling interval	9(4)v9(1)*2	[m]	c-17
2	Sampling frequency	9(2)	[m]	c-17
3	Reference report No.	x(10)		c-17

Data Items in Segment C290 (Hydrocarbon Indication)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C290-				
1	Interval	9(4)v9(1)	[m]	
2	Lithology	x(10)		
3	Flourescence show	x(1)	To be coded as in APPENDIX III 1. Poor 2. Moderate 3. Good 4. Strong	
4-	Gas chromatogram component			
1	C1	9(2)v9(1)	[%]	
2	C2	9(2)v9(1)	[%]	
3	C3+	9(2)v9(2)	[%]	
4	Selected depth	9(4)v9(1)	[m]	
5	Solvent	x(3)		
6	Porosity	9(2)v9(1)	[%] Log evaluation result	
7	SW	9(3)v9(1)	[%] Log evaluation result	

Data Items in Segment C310 (Drill Stem Test)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C310-				
1	Test No.	x(15)		c-21,c-22
2	Tested date	x(10)*2	Ex. MM.DD.MM.YYYY	c-21,c-22
3	Service contractor	x(15)		c-21,c-22
4	Type of DST	9(1)	To be coded as in APPENDIX III 1. Open hole 2. Cased hole	
5	Test interval	9(4)v9(1)*2	[m]	c-21,-c22
6	Swabbing operation	9(1)	To be coded as in APPENDIX III 1. Carried out 2. Not carried out	c-22
7-	Fluid recovery			
1	Cumulative oil recovery	9(3)v9(2)	[m^3]	c-21,c-22
2	Cumulative gas recovery	9(3)v9(3)	[x$10^3 m^3$]	c-21,c-22
3	Cumulative water recovery	9(3)v9(2)	[m^3]	c-21,c-22
4	Oil cut mud	9(3)v9(2)	[m^3]	c-21,c-22
5	Water cut mud	9(3)v9(2)	[m^3]	c-21,c-22
6	Gas cut mud	9(3)v9(2)	[m^3]	c-21,c-22
7	Oil water cut mud	9(3)v9(2)	[m^3]	c-21,c-22
8	Gas water cut mud	9(3)v9(2)	[m^3]	c-21,c-22
8-	Fluid recovery in chamber			
1	Oil volume	9(4)	[cc]	c-22
2	Gas volume	9(1)v9(3)	[m^3]	c-22
3	Water volume	9(4)	[cc]	c-22
4	Mud volume	9(4)	[cc]	c-22
5	Oil specific gravity	9(1)v9(3)		c-22
6	Gas specific gravity	9(1)v9(3)		c-22
7	Salinity of water	9(6)	[ppm]	c-22

Data Items in Seg'ent C310 (Drill Stem Test)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C310- 9-	Pressure & temperature			
1	Bottom hole shut in pressure	9(3)v9(1)	[kg/cm^2]	c-21,c-22
2	Bottom hole temperature	9(3)	[°C]	
3	Well head flowing pressure	9(3)v9(1)	[kg/cm^2]	c-21
4	Choke size	9(2)	[mm]	c-21
10-	Test analysis result			
1	Static pressure ($\bar{p}$)	9(3)v9(1)	[kg/cm^2]	
2	Flow capacity (kh)	9(5)v9(2)	[md-m]	
3	Permeability (k)	9(4)v9(2)	[md]	
4	Skinfactor (s)	9(2)v9(2)		
5	Damage ratio (DR)	9(2)v9(2)		
6	PI ideal	9(3)v9(2)	[m^3/d/kg/cm^2]	
7	PI actual	9(3)v9(2)	[m^3/d/kg/cm^2]	
8	Flow efficiency	9(1)v9(2)		
9	Open flow potential	9(3)v9(2)	[10^3 std m^3/d]	
10	Q max	9(4)v9(2)	[m^3/d]	
11-	Drill stem test report			
1	Date	x(8)		c-21,c-22
2	Reference No.	x(10)		c-21,c-22
3	Author/organization	x(20)		c-21,c-22
12-	Fluid analysis report			
1	Title	x(30)		c-24
2	Date	x(8)		c-24
3	Reference No.	x(10)		c-24
4	Author/organization	x(20)		c-24

Data Items in Segment C320 (Wire Line Formation Test)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C320-				
1	Test No.	x(15)		
2	Tested date	x(8)	Ex. DD.MM.YYYY	
3	Service contractor	x(15)		
4	Tested depth	9(4)v9(1)	[m]	
5	Succeeded or not	9(1)	To be coded as in APPENDIX III	
6-	Fluid recovery in chamber			
1	Oil volume	9(5)	[cc]	
2	Gas volume	9(1)v9(3)	[m^3]	
3	Water volume	9(5)	[cc]	
4	Filtrate	9(5)	[cc]	
7-	Test analysis result			
1	Kind of fluid estimated	9(1)	To be coded as in APPENDIX III 1. Gas 2. Oil 3. Water	
2	Static pressure ($\bar{p}$)	9(3)v9(1)	[kg/cm^2]	
3	Permeability (k)	9(4)v9(2)	[md]	
8-	Test report			
1	Title	x(30)		
2	Date	x(8)		
3	Reference No.	x(10)		
4	Author/organization	x(20)		
9-	Analysis report			
1	Title	x(30)		
2	Date	x(8)		
3	Reference No.	x(10)		
4	Author/organization	x(20)		

Data Items in Segment C330 (Well Cost)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C330-				
1-	Well cost	*42	See note: 1. in this page	
1	MRp	9(7)		
2	US$	9(7)		

Note: 1 Well cost detailed items

Access and Preparation

1. Access - Land
2. Access - Marine
3. Well site
4. Marine platform
5. Derrick erection/dismantling
6. Service lines
7. Indemnities

Drilling

8. Rigging up/down
9. Drilling consumables - surface
10. Drilling consumables - subsurface
11. Drilling string maintenance
12. Payment under contract
13. Mud
14. Fuel, lubricating oil, greases, steam, electricity
15. Water

Casing

16. Casing
17. Cementing

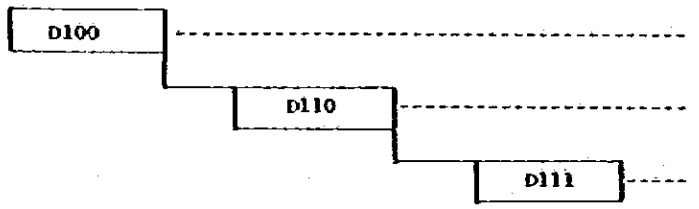
Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
			Subsurface evaluation	
			18. Subsurface evaluation	
			Completion	
			19. Stimulation treatments	
			20. Completion and production testing	
			Salaries/wages	
			21. Crew salaries/wages	
			22. Drilling department overhead	
			Transport-rig move	
			23. Transport-rig move Land	
			24. Water	
			25. Air	
			Transport-other	
			26. Transport-other-Land	
			27. Water	
			28. Air	
			Well equipment	
			29. Well head equipment	
			30. Subsurface lifting equipment	
			Temporary camp	
			31. Temporary camp facilities	
			32. Camp operation and service	

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
			Depreciation	
			33. Drilling string	
			34. Marine drilling unit	
			35. Transport - Land	
			36. Water	
			37. Air	
			38. Spec. and heavy equipment	
			39. Other items	
			40. Field and district overhead	
			41. General overhead	
			42. Depreciation on overhead facilities	

4 D-PETROPHYSICAL AND PVT ANALYSIS DATA INFORMATION

4-1 Segment Diagram Index of Data Structure

Page



4-2 Data Items in Segment

Data Items in Segment D100 (Root Segment)

Item No.	Item Name	Data Properties (Type, Length & Occurance)	Remarks	Source Document (Report No.)
D100-				
1	Analysis identification	x(6)	To be coded as in APPENDIX III	
2	Kind of core and PVT analysis	x(1)	To be coded as in APPENDIX III 1. Core analysis 2. PVT analysis	
3	Province name	x(1)	To be coded as in APPENDIX III	
4	Area name	x(2)	To be coded as in APPENDIX III	d-1 or d-2
5	Field office name	x(1)	To be coded as in APPENDIX III	d-1 or d-2
6	Field or prospect name	x(3)	To be coded as in APPENDIX III	d-1 or d-2
7	Well name	x(6)	To be coded as in APPENDIX III	d-1 or d-2
8-	Order document			
1	Date	x(8)		
2	Order document number	x(20)		
9-	Invoice			
1	Date	x(8)		
2	Invoice number	x(15)		
10-	Sample analysis report			d-1 or d-2
1	Title	x(150)		d-1 or d-2
2	Date	x(8)		d-1 or d-2
3	Author	x(30)		d-1 or d-2
4	Organization of author	x(50)		d-1 or d-2
11-	Location of laboratory	x(30)		
12-	Total cost			
1	US$	9(5)v9(2)		
2	Rp	9(8)v9(2)		

Data Items in Segment D110 (Sampling Place Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
D110-				
1	Formation name	x(2)	To be coded as in APPENDIX III	d-1 or d-2
2	Reservoir unit name	x(7)	To be coded as in APPENDIX III	d-1 or d-2
3	Layer name	x(5)	To be coded as in APPENDIX III	d-1 or d-2
4	Sampling period	x(8)*2		d-1 or d-2
5	Kind of sampling	x(1)	In case of core analysis To be coded as in APPENDIX III	d-1
6	Kind of Sample	x(1)	In case of PVT analysis To be coded as in APPENDIX III	d-2

Data Items in Segment D111 (Analysis Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
D111-				
1	Kind of analysis performed	x(2)	To be coded as in APPENDIX III	d-1 or d-2
2	Number of samples	9(3)		d-1 or d-2

5 E-PRODUCTION DATA INFORMATION

5-1 Segment Diagram Index of Data Structure

E-1 Production and Injection Information

E-2 Oil Consumption Information

E-3 Gas Consumption Information

5-2 Data Items in Segment

Data Items in Segment E100 (Root Segment of Production and Injection Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
E100-				
1	Well name	x(6)	To be coded as in APPENDIX III	e-1
2	Workover number	9(1)		e-1
3	String name	x(1)	To be coded as in APPENDIX III	
			S Short length tubing	
			M Middle length tubing	
			L Long length tubing	
			A Annulus	
4	Province name	x(1)	To be coded as in APPENDIX III	
5	Area name	x(2)	To be coded as in APPENDIX III	
6	Field office name	x(1)	To be coded as in APPENDIX III	
7	Field name	x(3)	To be coded as in APPENDIX III	e-1

Data Items in Segment E110 (Monthly Production)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
E110-				
1	Date	x(6)	To be coded as in APPENDIX III	e-1
2	Kind of completed zone	x(1)	To be coded as in APPENDIX III 1. Oil zone 2. Gas cap zone 3. Gas zone 4. Water zone	e-1
3	Well status	x(3)	To be coded as in APPENDIX III	e-1
4	Block station to which oil and gas are gathered	x(3)	To be coded as in APPENDIX III	e-1
5	Choke size	9(3)	[mm]	e-1
6	Casing pressure	9(3)	[kg/cm^2]	e-1
7	Tubing pressure	9(3)	[kg/cm^2]	e-1
8	Separator pressure	9(3)	[kg/cm^2]	e-1
9-	Monthly production rate			
1	Oil	9(6)v9(1)	[std m^3]	e-1
2-	Gas			
1	High pressure gas	9(6)v9(1)	[10^3 std m^3]	
2	Medium pressure gas	9(6)v9(1)	[10^3 std m^3]	
3	Low pressure gas	9(6)v9(1)	[10^3 std m^3]	
3	Water cut	9(2)	[%]	e-1
10	Production days	9(2)	[d]	e-1
11	Historical production days	9(5)	[d]	e-1

Data Items in Segment E111 (Zonely production)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
E111-				
1	Reservoir unit name	x(7)	To be coded as in APPENDIX III	e-1
2	Kind of recovery method	x(1)	To be coded as in APPENDIX III 1. Primary recovery 2. Secondary recovery 3. Tertiary recovery	
3	Share factor for production	9(3)v9(2)	[%]	e-1
4	Layer Name	x(2)*12	To be coded as in APPENDIX III	e-1

Data Items in Segment E112 (Gas Lifting)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
E112-				
1	Monthly gas injection volume	9(6)v9(1)	[10^3 std m^3]	e-1

Data Items in Segment E120 (Monthly Injection)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
E120-				
1	Date	x(6)	To be coded as in APPENDIX III	
2	Kind of completed zone	x(1)	To be coded as in APPENDIX III	
3	Well status	x(3)	To be coded as in APPENDIX III	
4	Monthly injection rate	9(6)v9(2)	[std m^3] in case of water [10^3std m^3] in case of gas	
5	Kind of Injection fluid	x(1)	To be coded as in APPENDIX I 1. Fresh water 2. Sea water 3. Formation water 4. Wet gas 5. Dry gas 6. CO_2 7. Air 8. Other kind of water	
6	Filtration	x(1)	To be coded as in APPENDIX III 1. With filtration 2. Without filtration	
7	Additives	x(1)	To be coded as in APPENDIX III 1. With additives 2. Without additives	
8	Injection days	9(2)	[d]	
9	Historical injection days	9(5)	[d]	

Data Items in Segment E121 (Zonely Injection)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
E121-				
1	Reservoir unit name	x(7)	To be coded as in APPENDIX III	
2	Share factor for injection	9(3)v9(2)	[%]	
3	Layer name	x(2)*12	To be coded as in APPENDIX III	

Data Item in Segment E200 (Root Segment of Oil Consumption)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
E200-				
1	Area name	x(2)	To be coded as in APPENDIX XXX	

Data Item in Segment E210 (Monthly Oil Consumption)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
E210-				
1	Date	x(6)		
2-	Monthly oil consumption at 15°C			
1-	Refinery Plaju			
1	Gross	9(7)	[m^3]	
2	Water cut	9(2)v9(2)	[%]	
3	Net	9(7)	[m^3]	
4	Specific gravity	9(1)v9(4)	[water=1]	
2-	Field use			
1	Road maintenance	9(7)	[m^3]	
2	Well servicing	9(7)	[m^3]	
3	Fuel	9(7)	[m^3]	
4	Other	9(7)	[m^3]	

Data Item in Segment E300 (Root Segment of Gas Consumption)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
E300-				
1	Field name	x(3)	To be coded as in APPENDIX III	
2	Area name	x(2)	To be coded as in APPENDIX III	
3	Province name	x(1)	To be coded as in APPENDIX III	
4	Field office name	x(1)	To be coded as in APPENDIX III	

Data Item in Segment E310 (Monthly Consumption)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
E310-				
1	Date	x(6)		
2-	Monthly gas consumption			
1-	Own use			
1-	Fuel			
1-	Associated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Nonassociated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Injection gas			
1-	Associated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Nonassociated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
3-	Gas-lift			
1-	Associated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Nonassociated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
E310-				
2-1-4-	Compressor			
1-	Associated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Nonassociated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
5-	Utilities			
1-	Associated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Nonassociated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Process			
1-	LPG Plant			
1-	Associated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Nonassociated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
E310-2-2-2-	LNG Plant			
1-	Associated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Nonassociated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
3-	Fertilizer Plant			
1-	Pusri II			
1-	Associated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Nonassociated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Pusi III			
1-	Associated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Nonassociated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	

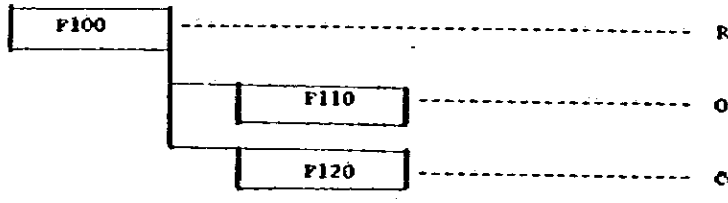
Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
E310-2-2-3-3-	Pusri IV			
1-	Associated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Nonassociated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
4-	Refinery			
1-	Plaju			
1-	Associated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Nonassociated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	S. Gerygon			
1-	Associated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Nonassociated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
E310-2-2-5-	Polypropylene			
1-	Associated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Nonassociated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
6-	Aromatic			
1-	Associated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Nonassociated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
3-	Sales			
1-	City gas			
1-	Associated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Nonassociated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
E310-				
2-3-2-	Public utility			
1-	Associated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Nonassociated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
3-	Flare and loss			
1-	Flare			
1-	Associated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Nonassociated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Loss			
1-	Associated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	
2-	Nonassociated gas			
1	High pressure gas	9(6)v9(2)	[MM scf]	
2	Medium pressure gas	9(6)v9(2)	[MM scf]	
3	Low pressure gas	9(6)v9(2)	[MM scf]	

6 P-RESERVES DATA INFORMATION

6-1 Segment Diagram Index of Data Structure



		Page
P100	Root Segment	AII – 145
P110	Oil and Solution Gas	AII – 146
P120	Condensate and Gas (#1 #2)	AII – 151

#1 : Condensate means gas cap condensate in case of oil reservoir or nonassociated condensate in case of gas reservoir

#2 : Gas means gas cap in case of oil reservoir or nonassociated gas in case of gas reservoir

6-2 Data Items in Segment

Data Items in Segment F100 (Root Segment)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
F100-				
1	Reservoir unit name	x(7)	To be coded as in APPENDIX III	f-1
2	Province name	x(1)	To be coded as in APPENDIX III	
3	Area name	x(2)	To be coded as in APPENDIX III	
4	Field office name	x(1)	To be coded as in APPENDIX III	f-1
5	Field name	x(3)	To be coded as in APPENDIX III	f-1
6	Kind of reservoir	x(2)	To be coded as in APPENDIX III	
			11. Paraffin oil reservoir	
			12. Asphalt oil reservoir	
			13. Gas reservoir	

Data Items in Segment F110 (Oil and Solution Gas)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
F110-				
1	Date	x(4)		f-1
2	Development status of reservoir unit	x(2)	To be coded as in APPENDIX XXI See note 1 in page AII-129	
3-	Original oil in place			
1	Proved	9(8)v9(2)	[10^3std m^3]	f-1
2	Probable	9(8)v9(2)	[10^3std m^3]	f-1
3	Possible	9(8)v9(2)	[10^3std m^3]	f-1
4-	Oil Reserves			
1-	Proved			
1	Primary recovery	9(7)v9(2)	[10^3std m^3]	f-1
2	Secondary recovery	9(7)v9(2)	[10^3std m^3]	
3	Tertiary recovery	9(7)v9(2)	[10^3std m^3]	
2-	Probable			
1	Primary recovery	9(7)v9(2)	[10^3std m^3]	f-1
2	Secondary recovery	9(7)v9(2)	[10^3std m^3]	
3	Tertiary recovery	9(7)v9(2)	[10^3std m^3]	
3-	Possible			
1	Primary recovery	9(7)v9(2)	[10^3std m^3]	f-1
2	Secondary recovery	9(7)v9(2)	[10^3std m^3]	
3	Tertiary recovery	9(7)v9(2)	[10^3std m^3]	
5-	Yearly oil production			
1	From primary recovery	9(9)v9(1)	[std m^3]	
2	From secondary recovery	9(9)v9(1)	[std m^3]	
3	From tertiary recovery	9(9)v9(1)	[std m^3]	

Data Items in Segment F110 (Oil and Solution Gas)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
F110-				
6-	Original solution gas in place			
1	Proved	9(8)v9(2)	[10^6std m^3]	f-1
2	Probable	9(8)v9(2)	[10^6std m^3]	f-1
3	Possible	9(8)v9(2)	[10^6std m^3]	f-1
7-	Solution gas reserves			
1-	Proved			
1	Primary	9(7)v9(2)	[10^6std m^3]	f-1
2	Secondary	9(7)v9(2)	[10^6std m^3]	
3	Tertiary	9(7)v9(2)	[10^6std m^3]	
2-	Probable			
1	Primary	9(7)v9(2)	[10^6std m^3]	f-1
2	Secondary	9(7)v9(2)	[10^6std m^3]	
3	Tertiary	9(7)v9(2)	[10^6std m^3]	
3-	Possible			
1	Primary	9(7)v9(2)	[10^6std m^3]	f-1
2	Secondary	9(7)v9(2)	[10^6std m^3]	
3	Tertiary	9(7)v9(2)	[10^6std m^3]	
8-	Yearly solution gas production			
1	From primary recovery	9(9)v9(1)	[10^3std m^3]	
2	From secondary recovery	9(9)v9(1)	[10^3std m^3]	
3	Fron teriary recovery	9(9)v9(1)	[10^3std m^3]	
9-	Reservoir parameter for oil zone			
1-	Areal extend			
1	Proved	9(5)v9(1)	[ha]	f-1
2	Probable	9(5)v9(1)	[ha]	f-1
3	Possible	9(5)v9(1)	[ha]	f-1

Data Items in Segment F110 (Oil and Solution Gas)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
F110-				
9-2-	Net bulk rock volume			
1	Proved	9(5)v9(2)	[10^6 m^3]	f-1
2	Probable	9(5)v9(2)	[10^6 m^3]	f-1
3	Possible	9(5)v9(2)	[10^6 m^3]	f-1
3-	Weighted average porosity			
1	Proved	v9(3)	[Fraction]	f-1
2	Probable	v9(3)	[Fraction]	f-1
3	Possible	v9(3)	[Fraction]	f-1
4-	Weighted average water saturation			
1	Proved	v9(3)	[Fraction]	f-1
2	Probable	v9(3)	[Fraction]	f-1
3	Possible	v9(3)	[Fraction]	f-1
5-	Weighted average formation volume factor			
1	Proved	9(1)v9(3)	[m^3/std m^3]	f-1
2	Probable	9(1)v9(3)	[m^3/std m^3]	f-1
3	Possible	9(1)v9(3)	[m^3/std m^3]	f-1
6-	Gravity			
1	Oil	9(2)v9(2)	[°API]	f-1
2	Gas	9(1)v9(3)	[Air=1]	f-1
7-	Viscosity			
1	Oil	9(2)v9(2)	[cp]	f-1
2	Gas	9(1)v9(3)	[cp]	f-1
8-	Weighted gas oil ratio			
1	Proved	9(5)	[std m^3/std m^3]	f-1
2	Possible	9(5)	[std m^3/std m^3]	f-1
3	Possible	9(5)	[std m^3/std m^3]	f-1

Data Items in Segment F110 (Oil and Solution Gas)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
F110-				
10-	Reference report			
1	Title	x(150)		f-1
2	Date	x(8)		f-1
3	Reference number	x(20)		f-1
4	Author	x(30)		f-1
5	Organization of author	x(50)		f-1
6	Map data	x(8)		

Note 1 Development Status of Reservoir Unit

A. Developed

1. Producing

a. Under primary recovery

b. Under secondary recovery

c. Under tertiary recovery

2. Nonproducing

a. Under primary recovery

b. Under secondary recovery

c. Under tertiary recovery

B. Undeveloped

Reservoirs which have been produced fully or even partially can be classified as "developed". Reservoirs which have no producer or remain behind casing can be classified as "undeveloped".

The undeveloped reservoirs can have the drilling unit on which wells have been drilled for no production purposes. Reservoir with no well such as just prospect will be excluded from even this undeveloped.

Data Items in Segment F120 (Condensate and Gas)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
F120-				f-1
1	Data	x(4)		
2	Development status of reservoir unit	x(2)	To be coded as in APPENDIX III See note 1 in page AII-134	
3-	Original condensate in place			
1	Proved	9(8)v9(2)	[10^3std m^3]	f-1
2	Probable	9(8)v9(2)	[10^3std m^3]	f-1
3	Possible	9(8)v9(2)	[10^3std m^3]	f-1
4-	Condensate reserves			
1-	Abandon condition is 60 or 20 KSC			
1-	Proved			
1	Primary recovery	9(7)v9(2)	[10^3std m^3]	f-1
2	Secondary recovery	9(7)v9(2)	[10^3std m^3]	
3	Tertiary recovery	9(7)v9(2)	[10^3std m^3]	
2-	Probable			
1	Primary recovery	9(7)v9(2)	[10^3std m^3]	f-1
2	Secondary recovery	9(7)v9(2)	[10^3std m^3]	
3	Tertiary recovery	9(7)v9(2)	[10^3std m^3]	
3-	Possible			
1	Primary recovery	9(7)v9(2)	[10^3std m^3]	f-1
2	Secondary recovery	9(7)v9(2)	[10^3std m^3]	
3	Tertiary recovery	9(7)v9(2)	[10^3std m^3]	
2-	Abandon condition is 30 or 10 KSC			
5-	Yearly condensate production			
1	From primary recovery	9(9)v9(1)	[std m^3]	
2	From secondary recovery	9(9)v9(1)	[std m^3]	
3	From Tertiary recovery	9(9)v9(1)	[std m^3]	
6-	Total original gas in place			
1	Proved	9(8)v9(2)	[10^6std m^3]	f-1
2	Probable	9(8)v9(2)	[10^6std m^3]	f-1
3	Possible	9(8)v9(2)	[10^6std m^3]	f-1

Data Item in Segment F120 (Condensate and Gas)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
F120-				
7-	Gas Reserves			
1-	Abandon condition is 60 or 20 ksc			
1-	Proved			
1	Primary	9(7)v9(2)	[10^6 std m^3]	f-2
2	Secondary	9(7)v9(2)	[10^6 std m^3]	
3	Tertiary	9(7)v9(2)	[10^6 std m^3]	
2-	Probable			
1	Primary	9(7)v9(2)	[10^6 std m^3]	f-2
2	Secondary	9(7)v9(2)	[10^6 std m^3]	
3	Tertiary	9(7)v9(2)	[10^6 std m^3]	
3-	Possible			
1	Primary	9(7)v9(2)	[10^6 std m^3]	f-2
2	Secondary	9(7)v9(2)	[10^6 std m^3]	
3	Tertiary	9(7)v9(2)	[10^6 std m^3]	
2-	Abandon condition is 30 or 10 ksc			
1-	Proved			
1	Primary	9(7)v9(2)	[10^6 std m^3]	f-2
2	Secondary	9(7)v9(2)	[10^6 std m^3]	
3	Tertiary	9(7)v9(2)	[10^6 std m^3]	
2-	Probable			
1	Primary	9(7)v9(2)	[10^6 std m^3]	f-2
2	Secondary	9(7)v9(2)	[10^6 std m^3]	
3	Tertiary	9(7)v9(2)	[10^6 std m^3]	
3-	Possible			
1	Primary	9(7)v9(2)	[10^6 std m^3]	f-2
2	Secondary	9(7)v9(2)	[10^6 std m^3]	
3	Tertiary	9(7)v9(2)	[10^6 std m^3]	

Data Items in Segment F120 (Condensate and Gas)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
F120-				
8-	Yearly gas production			
1	From primary recovery	9(9)v9(1)	[10^3 std m^3]	
2	From second recovery	9(9)v9(1)	[10^3 std m^3]	
3	From tertiary recovery	9(9)v9(1)	[10^3 std m^3]	
9-	Yearly gas injection			
1	To primary recovery	9(9)v9(1)	[10^3 std m^3]	
2	To secondary recovery	9(9)v9(1)	[10^3 std m^3]	
3	To tertiary recovery	9(9)v9(1)	[10^3 std m^3]	
10-	Reservoir parameter for gas cap zone or gas reservoir			
1-	Areal extend			
1	Proved	9(5)v9(1)	[ha]	f-2
2	Probable	9(5)v9(1)	[ha]	f-2
3	Possible	9(5)v9(1)	[ha]	f-2
2-	Net bulk rock volume			
1	Proved	9(5)v9(1)	[10^6 m^3]	f-2
2	Probable	9(5)v9(1)	[10^6 m^3]	f-2
3	Possible	9(5)v9(1)	[10^6 m^3]	f-2
3-	Weighted average porosity			
1	Proved	v9(3)	[Fraction]	f-2
2	Probable	v9(3)	[Fraction]	f-2
3	Possible	v9(3)	[Fraction]	f-2
4-	Weighted average water saturation			
1	Proved	v9(3)	[std m^3/std m^3]	f-2
2	Probable	v9(3)	[std m^3/std m^3]	f-2
3	Possible	v9(3)	[std m^3/std m^3]	f-2
5-	Weighted average gas oil ratio			
1	Proved	9(6)	[std m^3/std m^3]	f-2
2	Probable	9(6)	[std m^3/std m^3]	f-2
3	Possible	9(6)	[std m^3/std m^3]	f-2

Data Item in Segment F120 (Condensate and Gas)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
F120-				
10-6-	Expansion factor			f-2
1	Initial	9(4)v9(2)	[std m^3/std m^3]	f-2
2	60 or 20 ksc	9(4)v9(2)	[std m^3/std m^3]	f-2
3	30 or 10 ksc	9(4)v9(2)	[std m^3/std m^3]	f-2
7	Fractional gas	v9(4)		
8-	Abandon condition			f-2
1	High pressure	x(1)	To be coded as in APPENDIX III	f-2
2	Low pressure	x(1)	To be coded as in APPENDIX III	
11-	Reference report			
1	Title	x(150)		
2	Date	x(8)		
3	Reference number	x(20)		
4	Author	x(30)		
5	Organization of author	x(50)		
6	Map date	x(8)		

Note 1 Development Status of Reservoir Unit

A. Developed

1. Producing

a. Under primary recovery

b. Under secondary recovery

c. Under tertiary recovery

2. Nonproducing

a. Under primary recovery

b. Under secondary recovery

c. Under tertiary recovery

B. Undeveloped

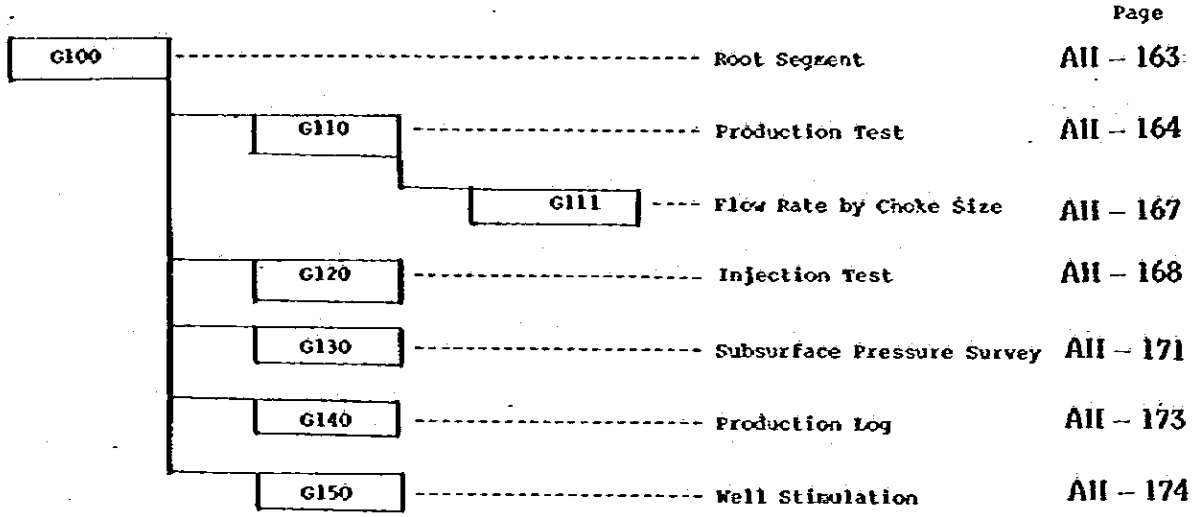
Reservoirs which have been produced fully or even partially can be classified as "developed". Reservoirs which have no producer or remain behind casing can be classified as "undeveloped".

The undeveloped reservoirs can have the drilling unit on which wells have been drilled for no production purposes. Reservoir with no well such as just prospect will be excluded from even this undeveloped.

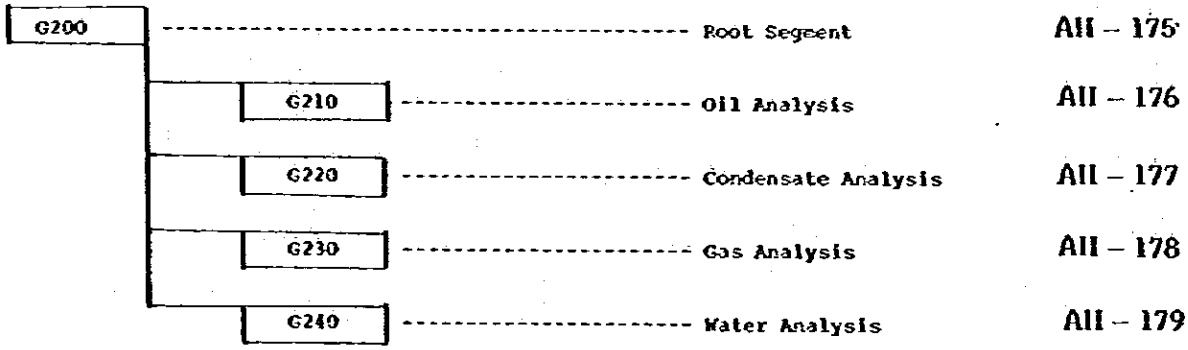
7 G-PRODUCTION OPERATION DATA INFORMATION

7-1 Segment Diagram Index of Data Structure

G-1 Well Test and Stimulation Information



G-2 Field Laboratory Fluid Analysis Information



7-2 Data Items in Segment

Data Items in Segment G100 (Root Segment of Well Test and Stimulation information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
G100-				
1	Well test and stimulation name	x(12)	To be coded as in APPENDIX III	
2	Kind of well test and stimulation	x(1)	To be coded as in APPENDIX III 1. Production test 2. Injection test 3. Subsurface pressure survey 4. Production log 5. Well stimulation	
3	Province name	x(1)	To be coded as in APPENDIX III	
4	Area name	x(2)	To be coded as in APPENDIX III	
5	Field office name	x(1)	To be coded as in APPENDIX III	
6	Field or prospect name	x(3)	To be coded as in APPENDIX III	
7	Well name	x(6)	To be coded as in APPENDIX III	
8	Workover number	9(1)		
9	String name	x(1)	To be coded as in APPENDIX III S Short tubing M Middle tubing L Long tubing A Annulus	
10	Kind of completed zone	x(1)	To be coded as in APPENDIX III 1. Oil zone 2. Gas cap zone 3. Gas zone 4. Water zone	
11	Well status	x(3)	To be coded as in APPENDIX III	
12	Formation name	x(2)	To be coded as in APPENDIX III	
13	Reservoir unit name	x(7)*10	To be coded as in APPENDIX III	
14	Layer name	x(5)*20	To be coded as in APPENDIX III	
15	Test or stimulation period	x(8)*2		
16	Surveyor or service contractor	x(30)		

Data Items in Segment C110 (Production Test)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C110-				
1	Kind of production test	x(1)	To be coded as in APPENDIX III 1. Initial production test before stimulation 2. Initial production test after stimulation 3. Production test before workover 4. Production test after workover 5. Production test before stimulation 6. Production test after stimilation 7. Production test	
2	Type of production test	x(1)	To be coded as in APPENDIX III 1. Flow test for oil 2. Multipoint test for gas 3. Isochronal test for gas 4. Pulse test 5. Other	
3	Bottomhole pressure survey	x(1)	To be coded as in APPENDIX III 1. With bottomhole pressure survey 2. Without bottomhole pressure survey	
4	Test interval	9(4)v9(1)*2	[m]	
5-	Test record			
1	Bottomhole sampling	x(1)	To be coded as in APPENDIX III 1. With bottomhole sampling 2. Without bottomhole sampling	
2	Bottomhole shut-in pressure (Max.)	9(3)v9(1)	[kg/cm^2]	
3	Bottomhole flowing pressure	9(3)v9(1)	[kg/cm^2]	
4	Average pressure traverse in tubing	9(1)v9(3)	[kg/cm^2/10m]	
5	Bottomhole temperature	9(3)v9(2)	[°C]	

(Type, Length & Occurence)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C110-				
6-	Fluid analysis			
	(surface sampling fluid)			
1	API oil gravity	9(2)v9(2)	[°API]	
2	API pour point	9(2)v9(2)	[°C]	
3	Water salinity	9(6)	[ppm]	
4	Gas gravity	9(1)v9(2)	[Air=1]	
5-	Gas main component			
1	H_2S	9(2)v9(2)	[% Vol]	
2	CO_2	9(2)v9(2)	[% Vol]	
3	O_2	9(2)v9(2)	[% Vol]	
4	N_2	9(2)v9(2)	[% Vol]	
5	C_1	9(2)v9(2)	[% Vol]	
6	C_2	9(2)v9(2)	[% Vol]	
7	C_3	9(2)v9(2)	[% Vol]	
8	C_4	9(2)v9(2)	[% Vol]	
9	C_{5+}	9(2)v9(2)	[% Vol]	
10	Other components			
7-	Test analysis result			
1	p_w	9(3)v9(2)	[kg/cm^2]	
2	Flow capacity (Kh)	9(6)v9(2)	[millidarcy m]	
3	Permeability (K)	9(4)v9(2)	[millidarcy]	
4	Skin factor (S)	9(3)v9(2)		
5	Damage ratio (DR)	9(2)v9(2)	[%]	
6-	Productivity index (PI)	9(3)v9(2)		
1	Ideal	9(3)v9(2)	in case of oil [std $m^3/d/kg/cm^2$]	
			in case of oil [10^3 std $m^3/d/kg/cm^2$]	
2	Actual	9(3)v9(2)	in case of gas [std $m^3/d/kg/cm^2$]	
			in case of gas [std $m^3/d/kg/cm^2$]	

Type properties

(Type, Length & Occurence)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C110-				
7-7	Flow efficiency	9(1)v9(3)	[Fraction]	
8	$Q_{max.}$	9(5)v9(1)	[std m^3/d]	
9	Absolute open flow potential in case of gas	9(5)v9(1)	[10^3 std m^3/d]	
8-	Reference report			
1-	Flow test report			
1	Title	x(150)		
2	Date	x(8)		
3	Reference no.	x(20)		
4	Author	x(30)		
5	Organization of author	x(50)		
2-	Fluid analysis report			
1	Title	x(150)		
2	Date	x(8)		
3	Reference no.	x(20)		
4	Author	x(30)		
5	Organization	x(50)		
3-	Flow test analysis report			
1	Title	x(150)		
2	Date	x(8)		
3	Rerformance no.	x(20)		
4	Author	x(30)		
5	Organization of author	x(50)		

Data Items in Segment G111 (Flow Rate by Choke Size)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
G111-				
1	Choke size	9(3)	[mm]	
2	Flowing method for test		To be coded as in APPENDIX III 1. Natural flowing 2. Rod pumping 3. Submergible pumping 4. Gas lifting 5. Swabbing	
3-	Flow rate			
1	Oil	9(4)v9(1)	[std m^3/d]	
2-	Gas			
1	High pressure gas	9(4)v9(1)	[10^3 std m^3/d]	
2	Medium pressure gas	9(4)v9(1)	[10^3 std m^3/d]	
3	Low pressure gas	9(4)v9(1)	[10^3 std m^3/d]	
3-	Water cut	9(2)v9(2)	[%]	
4	Tubing pressure	9(3)v9(1)	[kg/cm^2]	
5	Casing pressure	9(3)v9(1)	[kg/cm^2]	
6	Flow line pressure	9(3)v9(1)	[kg/cm^2]	
7-	Separator pressure	9(3)v9(1)	[kg/cm^2]	
1	High pressure	9(3)v9(1)	[kg/cm^2]	
2	Medium pressure	9(3)v9(1)	[kg/cm^2]	
3	Low pressure	9(3)v9(1)	[kg/cm^2]	
8	Gas lift gas	9(4)v9(1)	[10^{**3} std M^3/d]	

Data Items in Segment C120 (Injection Test)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C120-				
1	Kind of injection test	x(1)	To be coded as in APPENDIX III 1. Initial Injection test before stimulation 2. Initial Injection test after stimulation 3. Injection test before workover 4. Injection test after workover 5. Injection test before stimulation 6. Injection test after stimulation 7. Injection test	
2	Type of injection test	x(3)	To be coded as in APPENDIX III 1. falloff test 2. Step rate test	
3	Bottomhole pressure survey	x(1)	To be coded as in APPENDIX III 1. With bottomhole pressure survey 2. Without bottomhole pressure survey	
4	Test interval	9(4)v9(1)*2	[m]	
5	Kind of injection fluid	x(1)	To be coded as in APPENDIX III 1. Fresh water 2. Sea water 3. Formation water 4. Wet gas 5. Dry gas 6. CO_2 7. Air 8. Other kind of water	
6-	Treatment for injection fluid			
1	Filtration	x(1)	To be coded as in APPENDIX III 1. With filtration 2. Without filtration	

Data Items in Segment C120 (Injection Test)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C120-				
6-2	Additives	x(1)	To be coded as in APPENDIX III 1. With additives 2. Without additives	
7-	Test record			
1	Cumulative injection volume	9(6)v9(1)	in case of water [std m^3] in case of gas [10^3 std m^3]	
2	Average daily injection rate	9(4)v9(1)	in case of water [std m^3/d] in case of gas [10^3 std m^3/d]	
3	Maximum wellhead flowing pressure	9(3)v9(1)	[kg/cm^2]	
4	Maximum bottomhole flowing pressure	9(4)v9(1)	[kg/cm^2]	
5	Bottomhole flowing pressure at stabilized condition	9(4)v9(1)	[kg/cm^2]	
6	Bottomhole temperature	9(3)v9(2)	[°C]	
8-	Test results			
1	p^*	9(3)v9(2)	[kg/cm^2]	
2	Flow capacity (Ka)	9(6)v9(2)	[millidarcy*m]	
3	Permeability (K)	9(4)v9(2)	[millidarcy]	
4	Skin factor (S)	9(3)v9(2)		
5	Damage ratio (DR)	9(2)v9(2)	[%]	
6-	Injection index (II)			
1	Ideal	9(3)v9(2)	in case of water [std $m^3/d/kg/cm^2$] in case of gas [10^3 std $m^3/d/kg/cm^2$]	
2	Actual	9(3)v9(2)	in case of water [std $m^3/d/kg/cm^2$] in case of gas [10^3 std $m^3/d/kg/cm^2$]	
7	Flow efficiency	9(1)v9(3)	[Fraction]	
9-	Refference report			
1-	Injection test report			
1	Title	x(150)		
2	Date	x(8)		
3	Reference no.	x(20)		
4	Author	x(30)		
5	Organization of author	x(50)		

Data Items in Segment C120 (Injection Test)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C120-				
9-2-	Injection test analysis report			
1	Title	x(150)		
2	Date	x(8)		
3	Reference no.	x(20)		
4	Author	x(30)		
5	Organization of author	x(50)		
3-	Injection fluid treatment report			
1	Title	x(150)		
2	Date	x(8)		
3	Reference no.	x(20)		
4	Author	x(30)		
5	Organization of Author	x(50)		

Data Items in Segments C130 (Subsurface Pressure Survey)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C130-				
1	Type of survey	x(1)	To be coded as in APPENDIX III 1. Buildup pressure survey 2. Falloff pressure survey 3. Spot measurement	
2-	Survey depth	9(4)v9(1)	[m]	g-2
1	RDF	9(4)v9(1)	[m]	g-2
2	Subsea depth	9(4)v9(1)	[m]	g-2
3-	Datum level depth	9(4)v9(1)	[m]	
4-	Test record			
1	Shut-in hours prior to survey	9(5)v9(1)	[hr]	g-2
2	Bottomhole pressure (Final point in case of build up survey)	9(4)v9(1)	[kg/cm^2/10m]	
3	Liquid level in subsea depth	9(4)v9(1)	[m]	
4	Average pressure gradient for gas column	9(1)v9(3)	[kg/cm^2/10m]	g-2
5	Average pressure gradient for liquid column	9(1)v9(2)	[kg/cm^2/10m]	g-2
6	Wellhead pressure	9(3)v9(1)	[kg/cm^2]	
5-	Test analysis result			
1	P*	9(4)v9(2)	[kg/cm^2]	
2	Flow capacity (Kh)	9(6)v9(2)	[Millidarcy m]	
3	Permeability (K)	9(4)v9(2)	[Millidarcy]	
4	Skin factor (S)	9(3)v9(2)		
5	Damage ratio (DR)	9(2)v9(2)	[Fraction]	
6-	Production index			
1	Ideal	9(3)v9(2)	in case of oil [std m^3/d/kg/cm^2] in case of gas [10^3 std m^3/d/kg/cm^2]	
2	Actual	9(3)v9(2)	in case of oil [std m^3/d/kg/cm^2] in case of gas [10^3 std m^3/d/kg/cm^2]	

Data Items in Segment C130 (subsurface Pressure Survey)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C130=				
5-7	Flow efficiency	9(1)v9(3)	[Fraction]	
8	Q_{max}	9(5)v9(1)	[std m^3/d]	q-2
9	Absolute open flow potential in case of gas	9(5)v9(1)	[std m^3/d]	q-2
6-	Pressure element			
1	Date of last calibration	x(8)		
2	Pressure element number	x(5)		
3	Type of pressure element	x(7)		

Data Items in Segment C140 (Production Log)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C140-				
1	Log identification number	x(10)		
2	Run number	x(2)		
3	Kind of production log	x(1)*5	To be coded as in APPENDIX III 1. Inflatable combination tool (ICT) 2. Production combination tool (PCT) 3. Packer flowmeter 4. Continous flowmeter 5. Full bore spinner flowmeter 6. Gradiomanometer	
4	Test interval	9(4)v9(2)*2	[m]	
5-	Reference report			
1	Title	x(150)		
2	Date	x(8)		
3	Reference no.	x(20)		
4	Author	x(30)		
5	Organization of author	x(50)		

Data Items in Segment C150 (Well Stimulation)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C150-				
1	Objective for stimulation	9(1)	To be coded as in APPENDIX III 1. Production stimulation 2. Injection stimulation	
2	Type of stimulation	9(1)	To be coded as in APPENDIX III 1. Matrix acidizing 2. Fracture acidzing 3. Hydraulic fracturing	 g-3 g-3 g-3, g-4
3	Treatment interval	9(4)v9(1)*2		
4-	Treatment fluid			
1	Type	x(15)		g-3
2	Main additives	x(30)		g-3
3	Volume	9(3)v9(2)	(m^3)	g-3
5-	Summay of treatment	x(20)		g-3, g-4
6-	Well stimulation report			g-3, g-4
1	Title	x(150)		g-3, g-4
2	Date	x(8)		g-3, g-4
3	Reference no.	x(20)		g-3, g-4
4	Author	x(30)		g-3, g-4
5	Organization of author	x(50)		

Data Items in Segment G200 (Root Segment)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
G200-				
1	Analysis identification	x(6)	To be coded as in APPENDIX III	
2	Kind of analysis	x(1)	To be coded as in APPENDIX III	
			1. Oil analysis (OIL)	
			2. Condensate analysis (CON)	
			3. Gas analysis (GAS)	
			4. Water analysis (WAT)	
3	Province name	x(1)	To be coded as in APPENDIX III	
4	Area name	x(2)	To be coded as in APPENDIX III	
5	Field office name	x(1)	To be coded as in APPENDIX III	
6	Field or prospect name	x(3)	To be coded as in APPENDIX III	
7	Well or station name	x(6) or x(3)	To be coded as in APPENDIX III	
8	Workover number	9(1)		
9	Reservoir unit name	x(7)*10	To be coded as in APPENDIX III	
10	Layer name	x(5)*20	To be coded as in APPENDIX III	
11	Kind of sampling place	x(1)	To be coded as in APPENDIX III	
			1. Wellhead	
			2. Production manifolds	
			3. Separator	
12	Sampling date	x(8)		
13-	Sampling condition			
1	Pressure	9(4)v9(1)	[kg/cm^2]	
2	Temperature	9(3)v9(1)	[°C]	
14	Analysis date			
15-	Reference report			
1	Title	x(150)		
2	Date	x(8)		
3	Reference no.	x(20)		
4	Author	x(30)		
5	Organization of author	x(50)		
16	Location of laboratory	x(30)		

Data Items in Segment C210 (Oil Analysis)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C210-				
1	API gravity	9(2)v9(2)	[°API]	q-5
2	API pour point	9(2)v9(2)	[°C]	q-5
3	Water and sediment	9(3)v9(2)	[%]	q-5
4	Water content	9(3)v9(2)	[%]	q-5

Data Items in Segment G220 (Condensate Analysis)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
G220-				
1	API gravity	9(2)v9(2)	[°API]	g-6
2	API pour point	9(2)v9(2)	[°C]	g-6
3	Water and sediment	9(3)v9(2)	[%]	g-6
4	Water content	9(3)v9(2)	[%]	g-6

Data Items in Segment C230 (Gas Analysis)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
C230-				
1	Specific gravity	9(2)v9(2)	[Air=1]	g-7
2-	Gas component			
1	H_2S	9(3)v9(2)	[% Vol]	g-7
2	CO_2	9(3)v9(2)	[% Vol]	g-7
3	O_2	9(3)v9(2)	[% Vol]	g-7
4	N_2	9(3)v9(2)	[% Vol]	g-7
5	C_1	9(3)v9(2)	[% Vol]	g-7
6	C_2	9(3)v9(2)	[% Vol]	g-7
7	C_3	9(3)v9(2)	[% Vol]	g-7
8	$_iC_4$	9(3)v9(2)	[% Vol]	g-7
9	$_nC_4$	9(3)v9(2)	[% Vol]	g-7
10	$_iC_5$	9(3)v9(2)	[% Vol]	g-7
11	$_nC_5$	9(3)v9(2)	[% Vol]	g-7
12	C_{6+}	9(3)v9(2)	[% Vol]	g-7
13	Other components	x(10)*3		g-7
3	Gross heating value	9(5)v9(2)	[Btu/scf]	g-7
4	Net calorific value	9(5)v9(2)	[kg.cal/kg]	

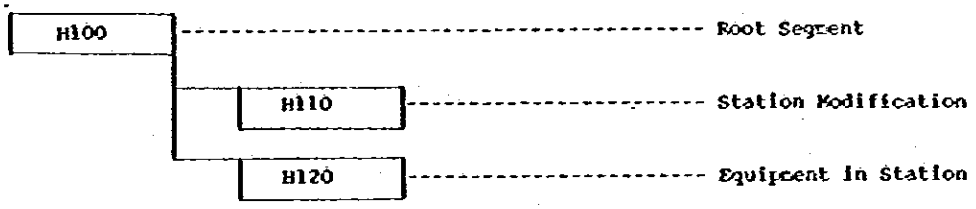
Data Items in Segment G240 (Water Analysis)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
G240-				
1-	Component	9(4)v9(2)	[meq/l]	g-8
1	Na^{+}	9(4)v9(2)	[meq/l]	g-8
2	K^{+}	9(4)v9(2)	[meq/l]	g-8
3	Ca^{++}	9(4)v9(2)	[meq/l]	g-3
4	Mg^{++}	9(4)v9(2)	[meq/l]	g-8
5	Ba^{++}	9(4)v9(2)	[meq/l]	g-8
6	Fe^{+++}	9(4)v9(2)	[meq/l]	g-8
7	Cl^{-}	9(4)v9(2)	[meq/l]	g-8
8	HCO_3^{-}	9(4)v9(2)	[meq/l]	g-8
9	$SO_4^{=}$	9(4)v9(2)	[meq/l]	g-8
10	$CO_3^{=}$	9(4)v9(2)	[meq/l]	g-8
2	Salinity	9(6)	[Ω m]	g-8
3	Resistivity	9(2)v9(2)		g-8
4	PH	9(3)v9(2)		g-8
5	Scaling index	9(3)v9(2)	[ppm]	g-8
6	Suspended solid	9(6)	[ppm]	g-8
7	Discolved solid	9(6)		

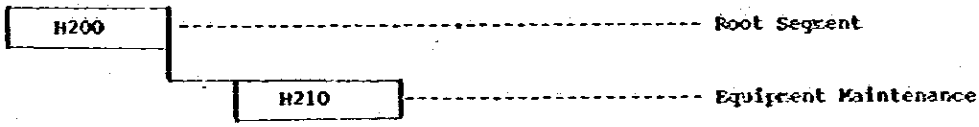
8 H-PRODUCTION FACILITIES DATA INFORMATION

8-1 Segment Diagram Index of Data Structure

H-1 Station Information



H-2 Facilities Information



8-2 Data Items in Segment

Data Items in Segment H100 (Root Segment of Station Information

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
H100-				
1	Station name	x(3)	To be coded as in APPENDIX III	
2	Province name	9(1)	To be coded as in APPENDIX III	
3	Field office name	9(1)	To be coded as in APPENDIX III	
4	Facilities field name	9(2)	To be coded as in APPENDIX III	
5	Kind of station	9(2)	To be coded as in APPENDIX III 1. Block station 2. Gathering station 3. Central station 4. Heater station 5. Compressor station 6. Booster pump station 7. Storage station 8. Final delivery point 9. Dehydration station 10. Metering station 11. Power station 12. Telemetering station 13. Other station	
6	Date of station delivery	x(6)	Ex. YYYY.MM	
7	Location name	x(50)		
8	Name of first station or well connected to the station	x(6)*20	To be coded as in APPENDIX III	
9-	Function and capacity	*3	See note 1 in page AII-160	
1	Main function	9(2)	To be coded as in Appendix III	
2	Design capacity	x(18)		
10	Date of operation start-up	x(6)	Ex. YYYY.MM	

Data Items in Segment H100 (Root Segment of Station Information

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
H100-11-	Flow diagram			
1	Title	x(60)		
2	Date	x(8)	Ex. YYYY.MM.DD	
3	Ident. no.	x(9)		
12-	Plot plan			
1	Title	x(60)		
2	Date	x(8)	Ex. YYYY.MM.DD	
3	Ident. no.	x(9)		
13-	Drawing of piping			
1	Title	x(60)		
2	Date	x(8)	Ex. YYYY.MM.DD	
3	Ident. no.	x(9)		
14-	Order document	*3		
1	Title	x(60)		
2	Date	x(8)	Ex. YYYY.MM.DD	
3	Ident. no.	x(9)		
15-	Invoice	*3		
1	Title	x(60)		
2	Date	x(8)	Ex. YYYY.MM.DD	
3	Ident. no.	x(9)		
16-	Station cost	*9	See note 2 in page AII-161	
1	US$	9(8)		
2	Rp	9(10)		

Note 1 Function and Capacity of Station

Function		Capacity (Design)		
Code	Name	(1)	(2)	(3)
01	Separation	Liquid kl/d 9(5)	Gas std m^3/d 9(6)	
02	Storage	Oil kl 9(6)		
03	Pumping	Oil Production kl 9(5)	Water Injection kl/d 9(5)	
04	Compression	Gas Delivery std m^3/d 9(6)	Gas Lift std m^3/d 9(6)	Gas Injection std m^3/d 9(6)
05	Sweetening	Gas Treated std m^3/d 9(6)		
06	Dehydration	Gas Treated std m^3/d 9(6)		
07	Heating	Oil & Gas Heated kcal/h 9(8)		
08	Waste Water Treatment	Water Treated kl/d 9(5)		
09	Metering	Gas std m^3/d 9(6)		
10	Power	Electric Power KW 9(6)		

Note 2 Station Cost

1 PERTAMINA Cost

1) Material
2) Wages
3) Rental
4) Sundries

2 Contractor Cost

1) Material
2) Construction
3) Mobilization
4) Engineering
5) Sundries

Data Items in Segment M110 (Station Modification)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
M110-				
1	Modification period	x(16)	Ex. YYYY.MM.DD - YYYY.MM.DD	
2-	Executor			
1	Kind of organization	9(1)*2	To be coded in APPENDIX III 1. PERTAMINA 2. Other	
2	Name of organization	x(30)		
3-	Modification cost			
1	US$	9(8)		
2	Rp	9(10)		
4-	Invoice			
1	Title	x(60)		
2	Date	x(8)	Ex. YYYY.MM.DD	
3	Ident. no.	x(9)		
5-	Order document			
1	Title	x(60)		
2	Date	x(8)	Ex. YYYY.MM.DD	
3	Ident. no.	x(9)		
6-	Report			
1	Title	x(60)		
2	Date	x(8)	Ex. YYYY.MM.DD	
3	Ident. no.	x(9)		

Data Items in Segment K120 (Equipment in Station)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
K120-1	Equipment name	x(5)	To be coded as in APPENDIX III	

Data Items in Segment M200 (Root Segment of Facilities Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
M200-				
1	Equipment name	x(5)	To be coded as in APPENDIX III	
2	Province name	x(1)	To be coded as in APPENDIX III	
3	Field office name	x(1)	To be coded as in APPENDIX III	
4	Facilities field name	x(2)	To be coded as in APPENDIX III	
5	Station name	x(3)	To be coded as in APPENDIX III	
6	Kind of equipment	9(2)	To be coded as in APPENDIX III	
7	System code	x(2)	To be coded as in APPENDIX III See note 1 in page AII-176	
8	Equipment popular name	x(20)	Ex. Water injection pump	
9	Equipment object no.	x(7)	Currently used in PERTAMINA	
10	Name of manufacturer	x(20)		
11	Date of installation	x(6)	Ex. YYYY.MM	
12	Code of equipment associated	x(5)	In case of machinery, equipment code of the prime mover will be described, and in case of prime mover, equipment code of the machinery driven will be described.	
13-	Equipment cost			
1	US$	9(8)		
2	Rp	9(10)		
14-	Invoice			
1	Title	x(60)		
2	Date	x(8)	Ex. YYYY.MM.DD	
3	Ident. no.	x(9)		
15-	Order document			
1	Title	x(60)		
2	Date	x(8)	Ex. YYYY.MM.DD	
3	Ident. no.	x(9)		

Data Items in Segment M200 (Root Segment of Facilities Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
M200-				
16-	Drawing			
1	Title	x(60)		
2	Date	x(8)	Ex. YYYY.MM.DD	
3	Ident. no.	x(9)		
17-	Specification in case of separator			
1	Type of vessel	x(1)	To be coded as in APPENDIX III 1. Horizontal cylinder 2. Vertical cylinder 3. Sphere	
2	Model name	x(20)		
3	Name of fluid treated	x(30)		
4	Volume of vessel	9(3)V9(1)	(m^3)	
5-	Flow rate of fluid			
1	Liquid	9(4)V9(1)	(kl/d)	
2	Gas	9(8)	(std m^3/d)	
6	Design pressure	9(3)V9(1)	(kg/cm^2G)	
7	Dimension (OD x S-S x WT)	x(40)		
17-	Specification in case of vessel tank			
1	Type of vessel	x(1)	To be coded as in APPENDIX III 1. Horizontal cylinder 2. Vertical cylinder 3. Sphere	
2	Model name	x(20)		
3	Name of fluid storaged	x(30)		
4	Volume of vessel	9(3)V9(1)	(m^3)	
5	Design pressure	9(3)V9(1)	(kg/cm^2G)	
6	Dimension (OD x S-S x WT)	x(40)		

Data Items in Segment M200 (Root Segment of Facilities Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
M200-				
17-	Specification in case of absorber			
1	Kind of absorbent	x(1)	To be coded as in APPENDIX III 1. Amine 2. Glycol 3. Other (ADIP, Sulfinol, etc.)	
2	Model name	x(20)		
3	Name of fluid treated *1	x(30)		*1 fluid treated for sweetening or dehydration
4	Flow rate of fluid treated *1	9(8)	(kg/h)	
5-	Flow rate of matter absorbed			
1	H_2S	9(5)	(kg/h)	
2	CO_2	9(5)	(kg/h)	
3	H_2O	9(5)	(kg/h)	
6	Flow rate of absorbent solution	9(5)	(l/min)	
7	Design pressure	9(3)V9(1)	(kg/cm^2G)	
8	Dimension (OD x S-S x WT)	x(40)		
17-	Specification in case of stripper			
1	Kind of absorbent	x(1)	To be coded as in APPENDIX III 1. Amine 2. Glycol 3. Other (ADIP, Sulfinol, etc.)	
2	Model name	x(20)		
3	Name of fluid treated *1	x(30)		
4	Flow rate of fluid treated *1	9(8)	(kg/h)	
5-	Flow rate of fluid stripped			
1	H_2S	9(5)	(kg/h)	
2	CO_2	9(5)	(kg/h)	

Data Items in Segment H200 (Root Segment of Facilities Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
H200-				
17-5-3	H_2O	9(5)	(kg/h)	
6	Flow rate of absorbent solution	9(5)	(l/min)	
7	Design pressure	9(3)V9(1)	(kg/cm^{2}G)	
8	Dimension (OD x S-S x WT)	x(40)		
17-	Specification in case of filter			
1	Type of filter	x(1)	To be coded as in APPENDIX III	
			1. Netlike	
			2. Granular	
			3. Porous	
2	Model name	x(20)		
3	Name of fluid treated	x(30)		
4-	Flow rate of fluid treated			
1	Liquid	9(6)	(kl/d)	
2	Gas	9(8)	(std m^3/d)	
5	Solid name and solid concentration after filtration	x(40)		
6	Design pressure	9(3)V9(1)	(kg/cm^{2}G)	
7	Dimension (OD x S-S x WT)	x(40)		
17-	Specification in case of adsorber			
1	Kind of adsorbent	x(1)	To be coded as in APPENDIX III	
			1. Bauxite	
			2. Alumina	
			3. Silica	
			4. Molecular sieves	
			5. Carbon	
2	Model name	x(20)		

Data Items in Segment M200 (Root Segment of Facilities Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
M200-				
17-3	Name of fluid treated	x(30)		
4	Flow rate of fluid treated	9(8)	(kg/h)	
5-	Flow rate of fluid adsorbed			
1	H_2S	9(5)	(kg/h)	
2	CO_2	9(5)	(kg/h)	
6	Design pressure	9(3)V9(1)	(kg/cm^2G)	
7	Dimension (OD x S-S x WT)	x(40)		
17-	Specification in case of storage tank			
1	Type of storage tank	x(1)	To be coded as in APPENDIX III 1. Cone roof 2. Dome roof 3. Floating roof 4. Expansion roof 5. Water seal type 6. Dry seal type 7. Underground type	
2	Method of plate combination	x(1)	To be coded as in APPENDIX III 1. Welded 2. Bolted 3. Riveted	
3	Model name	x(20)		
4	Name of fluid storaged	x(30)		
5	Volume of tank	9(6)V9(1)	(m^3)	
6	Design pressure	9(3)V9(1)	(cm H_2O G)	
7	Demension (OD x S-S x WT)	x(40)		

Data Items in Segment M200 (Root Segment of Facilities Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
M200-				
17-	Specification in case of heat exchanger			
1	Type of heat exchanger	x(1)	To be coded as in APPENDIX III 1. Shell and tube 2. Plate 3. Multi-tube 4. Double-pipe 5. Block	
2	Model name	x(20)		
3-	Design of two fluid sides	*2	1. High temperature side 2. Low temperature side	
1	Name of fluid exchanged heat	x(20)		
2	Design flow rate	9(5)	(kl/h)	
3	Design pressure	9(3)V9(1)	(kg/cm^2G)	
4	Thermal duty	9(8)	(kcal/h)	
5	Heating surface area	9(4)V9(1)	(m^2)	
6	Dimension (OD x S-S x WT)	x(40)		
17-	Specification in case of fired heater			
1	Type of fired heater	x(1)	To be coded as in APPENDIX III 1. Direct heater 2. Indirect water bath 3. Indirect salt bath	
2	Model name	x(20)		
3	Name of fluid heated	x(30)		
4	Design flow rate	9(5)	(kl/h)	
5	Design pressure	9(3)V9(1)	(kg/cm^2G)	
6	Thermal duty	9(8)	(kcal/h)	
7	Heating surface area	9(4)V9(1)	(m^2)	
8	Name of fuel	x(30)		
9	Dimension (width x length x height)	x(40)		

Data Items in Segment M200 (Root Segment of Facilities Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
M200-				
17-	Specification in case of refrigerator			
1	Type of refrigerator	x(1)	To be coded as in APPENDIX III 1. Compression type 2. Absorption type	
2	Model name	x(20)		
3	Name of fluid chilled	x(30)		
4	Design flow rate (brine)	9(3)V9(1)	(kl/h)	
5	Design pressure	9(3)V9(1)	(kg/cm^2G)	
6	Thermal duty	9(8)	(kcal/h)	
7	Name of refrigerant	x(30)		
8	Total power (of all machinery)	9(4)V9(1)	(kW)	
9	Installation area size (width x length)	x(30)		
17-	Specification in case of pump			
1	Type of pump	x(1)	To be coded as in APPENDIX III 1. Centrifugal 2. Mixed flow 3. Axial flow 4. Reciprocating 5. Volumetric rotary 6. Regenerative 7. Other	
2	Model name	x(20)		
3	Name of fluid pumped	x(30)		
4	Flow rate	9(5)V9(3)	(kl/h)	
5	Total difference head	9(3)V9(1)	(kg/cm^2)	
6	Power	9(4)V9(1)	(kW)	
7	Speed	9(5)	(rpm) or (spm)	

Data Items in Segment M200 (Root Segment of Facilities Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
M200-				
17-8	Dimension	x(40)		
17-	Specification in case of compressor			
1	Type of compressor	x(1)	To be coded as in APPENDIX III 1. Axial flow 2. Centrifugal (Radial or Turbo) 3. Volumetric rotary 4. Reciprocating	
2	Model name	x(30)		
3	Name of fluid compressed	x(30)		
4	Flow rate	9(7)	(std m^3/h)	
5	Total difference pressure	9(3)V9(1)	(kg/cm^2)	
6	Power	9(4)V9(1)	(kW)	
7	Speed	9(5)	(rpm) or (spm)	
8	Dimension (width x length x height)	x(40)		
17-	Specification in case of generator			
1	Type of generator	x(1)	To be coded as in APPENDIX III 1. AC 2. DC	
2	Model name	x(20)		
3	Object of service	x(30)		
4	Output capacity	9(5)	(KVA)	
5	Voltage	9(4)	(V)	
6	Phase	9(1)		
7	Frequency	9(2)	(Hz)	
8	Dimension (width x length x height)	x(40)		

Data Items in Segment M200 (Root Segment of Facilities Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
M200-				
17-	Specification in case of fan or blower			
1	Type of fan or blower	x(1)	To be coded as in APPENDIX III 1. Axial flow 2. Centrifugal (Radial, Turbo or Cascade) 3. Volumetric rotary	
2	Model name	x(20)		
3	Name of fluid blown	x(30)		
4	Flow rate	9(7)	(std m^3/h)	
5	Total difference head	9(4)V9(1)	(cm H_2O)	
6	Power	9(4)V9(1)	(kW)	
7	Speed	9(5)	(rpm)	
8	Dimension (width x length x height)	x(40)		
17-	Specification in case of agitator			
1	Type of agitator	x(1)	To be coded as in APPENDIX III 1. Propeller 2. Turbine 3. Paddle 4. Other	
2	Model name	x(20)		
3	Name of fluid mixed	x(30)		
4	Volume of vessel or tank/each agitator	9(5)	(kl/each)	
5	Power	9(3)	(kW)	
6	Speed	9(5)	(rpm)	
7	Dimension (dia. x shaft length)	x(40)		

Data Items in Segment M200 (Root Segment of Facilities Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
M200-				
17-	Specification in case of electric motor			
1	Type of motor	x(1)	To be coded as in APPENDIX III 1. Induction 2. Synchronous 3. Other	
2	Model name	x(20)		
3	Object of service	x(30)		
4	Power	9(5)	(kW)	
5	Speed	9(5)	(rpm)	
6	Voltage	9(4)	(V)	
7	Phase	9(1)		
8	Frequency	9(2)	(Hz)	
9	Insulation	x(30)		
10	Dimension (width x length x height)	x(40)		
17-	Specification in case of ignition engine			
1	Type of engine	x(1)	To be coded as in APPENDIX III 1. Gas engine 2. Petrol engine 3. Diesel engine 4. Gasoline engine	
2	Model name	x(20)		
3	Object of service	x(30)		
4	Power	9(4)V9(1)	(kW)	
5	Speed	9(5)	(rpm)	
6	Name of fuel	x(30)		
7	Dimention (width x length x height)	x(40)		

Data Items in Segment M200 (Root Segment of Facilities Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
M200-				
17-	Specification in case of steam engine			
1	Type (No. of cylinder)	x(1)		
2	Model name	x(20)		
3	Object of service	x(30)		
4	Power	9(4)V9(1)	(kW)	
5	Speed	9(5)	(rpm) or (spm)	
6	Steam pressure	x(30)		
7	Dimension (width x length x height)	x(40)		
17-	Specification in case of gas turbine			
1	Type of gas turbine	x(1)	To be coded as in APPENDIX III 1. Open cycle (internal combustion type)	
2	Model name	x(20)		
3	Object of service	x(30)		
4	Power	9(5)	(kW)	
5	Speed	9(5)	(rpm)	
6	Name of fuel	x(30)		
7	Dimension (width x length x height)	x(40)		
17-	Specification in case of fire fighting system			
1	Type of fire fighting system	x(1)	To be coded as in APPENDIX III 1. Water extinguishing system 2. Foam extinguishing system (Air foam, high expansion foam, synthetic foam) 3. Dry chemical system 4. CO_2 or Halon system 5. Other	

Data Items in Segment M200 (Root Segment of Facilities Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
M200-				
17-2	Model name			
3-	Object of fire fighting			
1	Kind of fire	x(30)		
2	Area	x(100)		
4	Justification	x(30)		
5	Fire fighting media	x(40)		
6	Discharge nozzle or connection	x(80)	Ex. Air foam chamber, foam generator and foam hydrant	
7-	Design flow rate/system			
1	Liquid *	9(5)	(l/min)	*not condensate
2	Powder or gas	9(5)	(kg/min)	
8	Duration of discharge corresponding to design flow rate	9(3)V9(2)	(min)	

Note 1 System Code

The same system code is given to all equipment constituting one system (Ex. a fire fighting system) and the system's equipment is distinguished from others.

A proposal for system code is sequence-number (two digits) by equipment system in each station.

Data Items in Segment M210 (Equipment Maintenance)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
M210-				
1	Work period	x(16)	Ex. YYYY.MM.DD - YYYY.MM.DD	
2-	Executor			
1	Kind of organization	9(1)*2	To be coded as in APPENDIX III 1. PERTAMINA 2. Other	
2	Name of organization	x(30)		
3-	Kind of work			
1	Kind of inspection	9(2)*3	To be coded as in APPENDIX III See note 1 in page AII-178	
2	Kind of repair	9(1)	To be coded as in APPENDIX III 1. Scheduled maintenance 2. Repair or renewal 3. Improvement	
4	Result of inspection	9(1)	To be coded as in APPENDIX III 1. Good condition 2. Take more care 3. Repair 4. Overhaul as soon as possible 5. Write off	
5-	Maintenance cost			
1	US$	x(8)		
2	Rp	x(10)		
6-	Report			
1	Title	x(60)		
2	Date	x(8)		
3	Ident. no.	x(9)		

Note 1 Kind of Inspection

In case of vessel, tank and heat exchanger

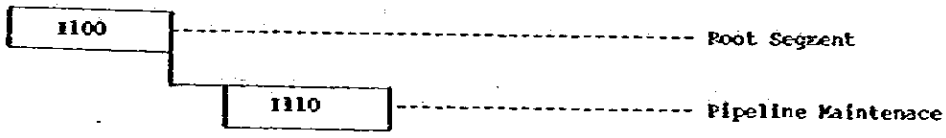
1 Visual inspection and hammering test
2 Leak test
3 Hydrostatic test
4 Non-destructive inspection
5 Destructive inspection

In case of machinery and prime mover

6 Visual inspection
7 Clearance inspection
8 Leak test of seal
9 Alignment inspection for shaft and couplings
10 Running test

9 I-PIPELINE DATA INFORMATION

9-1 Segment Diagram Index of Data Structure



9-2 Data Item in Segment

Data Items in Segment I100 (Root Segment of Pipeline Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
I100-				
1	Pipeline name	x(5)	Pipeline name is defined as pipeline code	
2	Province name (at pipeline end point)	x(1)	To be coded as in APPENDIX III	
3	Field office name (at pipeline end point)	x(1)	To be coded as in APPENDIX III	
4-	End point of pipeline		In case of production line, the end point of pipeline is defined as the downstream side of pipeline. In case of injection line, the end point of pipeline is defined as the upstream side of pipeline.	
1	Facilities field	x(2)	To be coded as in APPENDIX III	
2	Station name	x(3)	To be coded as in APPENDIX III	
5-	Starting point of pipeline		The starting point of pipeline is defined as the opposite side of the end point of pipeline.	
1	Facilities field	x(2)	To be coded as in APPENDIX III	
2	Station name	x(3)	To be coded as in APPENDIX III	
6	Date of installation	x(6)	Ex. YYYY.MM	
7	Objective at installation	9(1)	To be coded as in APPENDIX III 1. Production 2. Injection	
8-	Major data of pipeline			
1	Nominal size	9(2)V9(3)	(in)	
2	Length of pipeline	9(6)	(m)	
3	Design pressure	9(4)V9(1)	(kg/cm^2G)	

Data Items in Segment I100 (Root Segment of Pipeline Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
I100-				
9-	Line pipe			
1	Kind	9(2)	To be coded as in APPENDIX III 1. Regular line pipe (unlined) 2. Cement-lined regular line pipe 3. Asbestos-cement pipe 4. Plastic pipe 5. Aluminium pipe	
2	Specification	x(30)		
10	Type of connection	9(1)*2	To be coded as in APPENDIX III 1. Welded 2. Screwed 3. Flanged	
11	Type of valve	9(2)*3	To be coded as in APPENDIX III 1. Gate 2. Ball 3. Plug 4. Glove 5. Check 6. Needle 7. Butterfly 8. Other	
12-	Drawing			
1	Title	x(6)		
2	Date	x(8)	Ex. YYYY.MM.DD	
3	Ident. no.	x(9)		

Data Items in Segment I100 (Root Segment of Pipeline Information)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
I100-				
I3-	Executor			
1	Kind of organization	9(1)*2	To be coded as in APPENDIX III 1. PERTAMINA 2. Other	
2	Name of organization	x(30)		
I4-	Pipeline cost	*9	See note 1 in page AII-185	
1	US$	9(8)	(US$)	
2	Rp	9(10)	(Rp)	
I5-	Invoice	*3		
1	Title	x(60)		
2	Date	x(8)	Ex. YYYY.MM.DD	
3	Ident. no.	x(9)		
I6-	Order document			
1	Title	x(60)		
2	Date	x(8)	Ex. YYYY.MM.DD	
3	Ident. no.	x(9)		

Note 1 Pipeline Cost

1 PERTAMINA Cost

1) Material
2) Wages
3) Rental
4) Sundries

2 Contractor Cost

1) Material
2) Construction
3) Mobilization
4) Engineering
5) Sundries

Data Items in Segment I110 (Pipeline Maintenance)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
I110-				
1	Work period	x(16)	Ex. YYYY.MM.DD - YYYY.MM.DD	
2-	Kind of work			
1	Kind of inspection	9(1)*3	To be coded as in APPENDIX III 1. Visual inspection 2. Leak test 3. Hydrostatic test 4. Non-destructive inspection 5. Destructive inspection	
2	Kind of repair	9(1)	To be coded as in APPENDIX III 1. Scheduled maintenance 2. Repair or renewal 3. Improvement	
3-	Executor			
1	Kind of organization	9(1)*2	To be coded as in APPENDIX III 1. PERTAMINA 2. Other	
2	Name of organization	x(30)		
4	Position of pipeline inspected and/or repaired	x(100)		
5	Result of inspection	9(1)	To be coded as in APPENDIX III 1. Good condition 2. Take more care 3. Repair 4. Overhaul as soon as possible 5. Write off	
6-	Report			
1	Title	x(60)		
2	Date	x(8)	Ex. YYYY.MM.DD.	
3	Ident. no.	x(9)		

Data Items in Segment X110 (Pipeline Maintenance)

Item No.	Item Name	Data Properties (Type, Length & Occurence)	Remarks	Source Document (Report No.)
X110-				
7-	Maintenance cost			
1	Material US$	9(8)	(US$)	
2	Material Rp	9(10)	(Rp)	
3	Work US$	9(8)	(US$)	
4	Work Rp	9(10)	(Rp)	
8-	Invoice			
1	Title	x(60)		
2	Date	x(8)	Ex. YYYY.MM.DD	
3	Ident. no.	x(9)		
9-	Order document			
1	Title	x(60)		
2	Date	x(8)	Ex. YYYY.MM.DD	
3	Ident. no.	x(9)		

ATTACHMENT I

DATA FLOW AND LIST OF AVAILABLE REPORT FOR DATA SOURCE

List of Available Reprt for Data Source

Report No.	Report Name	Flow No.
a-1	Monthly exploration report	2
a-2	Anual exploration report	2
a-3	Well resume report (exploration well)	2,9
a-4	Drilling proposal (exploration well)	2,9
a-5	Drilling operation program (exploration well)	2,9
a-6	Paleontological analysis report	9,10
a-7	Field mapping report	9,10
a-8	Prospect and lead report	2,9
a-9	Geochemical analysis report	10
a-10	Lithological analysis report	9,10
a-11	Geological evaluation report	2,9
a-12	Basin study and regional study report	2,9
a-13	Special study report	2,9,10
a-14	Work program and budget report	2
a-15	Other reprt	
b-1	Final seismic survey report	2,10
b-2	Final magnetic survey report	2,10
b-3	Final gravity survey report	2,10
b-4	Well velocity survey report	2,10
b-5	Special study report	2,9,10

Report No.	Report Name	Report Flow No.
	Following reports contained in Well Field	3
c-1	Drilling Program	
c-2	Weekly Drilling Report	
c-3	Final Drilling Report	
c-4	Workover Report	
c-5	Recompletion Report (Perubahan Keadaan Sumur)	
c-6	Casing List	
c-7	Tubing List	
c-8	Rod Pump Report (PUMPUT)	
c-9	Completion Report for flowing, Gas Lift or Gas boiler Well (Spuiter, Gas List of Gas boiler)	
c-10	Bit Record	
c-11	Cementing Report (Laporan Penyemenan)	
c-12	Squeeze Cementing Report, (Laporan Penyemenan Desak)	
c-13	Cement Slurry Report (Lapran Pengukuran BJ Adnan Semen)	
c-14	Deviation Survey Record	
c-15	D.A.T.A, Morning Report	
c-16	Core Report	
c-17	Cutting Report	
c-18	Side Wall Sample Report	
c-19	Acidizing Report	
c-20	Hydraulic Fracture Treatment Report	
c-21	Drill Stem Test Report	
c-22	MFE Test Report (Laporn Uji Kandungan Rapisan)	
c-23	MFE Summary (Hasil Uji Kandugan Lapisan)	

Report No.	Report Name	Flow No.
c-24	MFE Sample Analysis (Hasil Analisa Contoh Cairan Dari MFE, Test)	
d-1	Core Analysis Report	3
d-2	PVT Analysis Report	3
e-1	Daftar Keterangan Tiap Sumur	12
e-2	Yearly EPT Report	3
f-1	Reservoir Data Book	11
f-2	Data Volumetrics Cadangan Gas Dan Kondensate	11
g-1	Final Drilling Report	3
g-2	Bottomhole Pressure Survey	3
g-3	Acidizing Report	3
g-4	Hydraulic Fracture Treatment Report	3
g-5	Oil Analysis Report	3
g-6	Condensate Analysis Report	3
g-7	Gas Analysis Report	3
g-8	Water Analysis Report	3

DATA FLOW BASED ON PERTAMINA UNIT EP-II HEAD OFFICE