annex-2

PROPOSED INPUT DATA ITEM FOR PETROLEUM EXPLORATION AND PRODUCTION DATA BANK SYSTEM OF PERTAMINA UNIT BP-11

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| | OP MACHINERY AND PRIME HOWER |
| ATTACEMENT~ XIII | KIND OF REPAIR |
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Unit name Common Adentification Stem OPERATION AREA INFORMATION <

province name (Jambi, S. Sumatra, W. Sumatra, Riau, Bengkulu, or Lampung)

Area name

rield office name (Bajubang or Prabumulih) rield name (see Attachment II)

- prepared or revised date

. Date of contract

Topographic information

Kind of map (Blevetion contour map or bathymetric map)

Map identification

MAD title

East and west longitude

North and south latitude

Scale

Contour interval

Author and organization to which author belongs

vitto, date and idnotification of report to which map is attached

Contract information

ritle and identification of contract agreement

Kind of contract

Contractor

rithe and identification of may drawn original map size under Pariod of contract

contract

| Size of original contract area (Xm²) | History of relinquishment | . Relinquished date | - Relinguished area size (Xm2) | - Title, date and identification of map for updated area after | each relinquishment |
|--------------------------------------|---------------------------|---------------------|--------------------------------|--|---------------------|
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GEOPHYSICAL DATA INFORMATION

Seismic survey information Common identification item

Unit name

province name (Jambi, S. Sumatra, W. Sumatra, Piau, Bengkulu or Lampung)

Period Area name

- period for field operation

- period for processing

- Period for interpretation

- period for operation of well shooting

rield operation information

Ceneral information

rithe, date and identification of order document mitle, date and identification of final report Survey name

Title, date and identification of invoice concerned surveyor and organization to which surveyor belongs

Summarized survey information

Site Description

Classification of site description (see Attachment I) Line cutting (Xm)

bridging (Km)

Land survey (Xm)

EXPLOSTVOR

- primer (pem)

- Detenator (kg or 1bm)

ALI-5

| (kg or 1bs) | | - Number of drilling holes | - Total drilling depth (m) | | Reflection or refraction | Name of recording instrument | Geophone type or name of streamer | rval | nterval | Number of geophone por group | Shooting pattern (aplit, in-line, T, L, offset or end-on apread) | | Length between centers of first group and last group, | or length of streamer cable | skepped of the skill of the ski | Pattern of shot hole (single or multiple) | | Recording system (digital or analogue) | coverage | # dnoze | - Number of auxiliary channel (if available) | ė. Į | - Medokaling Hillinex | First Constitution | | shot point map information | muche, date and identification of map |
|-----------------------------|--------------|----------------------------|----------------------------|------------------|--------------------------|------------------------------|-----------------------------------|------------------|---------------------|------------------------------|--|----------|---|-----------------------------|--|---|---------------|--|-----------------------|------------------|--|-----------------|---|----------------------|--------------------|----------------------------|---------------------------------------|
| 5 - Main charge (kg or 1ba) | S prilling | Number of | Total drill | Survey method | - Reflection | - Name of re | - Geophone t | - Group interval | - Ceophone interval | - Number of | | - Offsot | - Length bet | or length | - Source of energy | - Pattern of | - Charge size | - Recording | - Subsurface coverage | Number of groups | - Number of | - Sampling rate | - Recording | - Positioning method | Summarized results | shot point m | Tiche, det |
| 1 5 - Main charge | . 6 prilling | Number of | Total drill | 2 Survey metho | . Reflection | | | | "- Ceophone 1 | | | | | or length | - Source of | | - Charge siz | - Recording | - Subsurface | Number of | - Number of | - Sampling ra | - Recording 1 | - Posttioning | Summarized r | 1 Shot point m | . Title, det |
| 1 5 - Main charge | . 6 Drilling | Number of | . Total drill | 2 Survey metho | . Reflection | | | | . Geophone 1 | | | | | or length | . Source of | | - Charge siz | - Kocording | - Subsurface | Number of | o to require - | - Sampling ra | - Recording 1 | - Postcioning | 3 Summarized r | . Shot point m | |
| 2 1 5 - Main charge | . 6 prilling | o zo zedunu - | . Total drill | . 2 Survey metho | . Reflection | | | | . Geophone 1 | | | | | or length | to Source . | | - Charge siz | - Recording | - Subsurface | Number of | e to redund - | - Sampling ra | T Security - Control of the Control | - Posttioning | . 3 Summarized r | . I Shot point m | and learner and and and |
| 1 2 1 5 - Main charge | 6 Drilling | | - Total drill | Survey metho | . Reflection | | | | - Ceophone 1 | | | | | or length | go councy - | | - Charge siz | - Recording | - Subsurface | Number of | Selection and the selection of the selec | Sampling ra | R PARIDAGO - | - Posttoning | Summarized r | shot point in | - nutthe, date |

Input Data Item

Itom No.

- Distance between shot points

- Total length

- Mine interval

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- Kind of tape (before processing or after processing)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 - Main contents of the content of th
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -rittle date and identification of report to which map is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Minor break down information of total operation cost
- Scale of the substantial of the contract of the substantial of the s
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                                                                                                                                                                                                                                                                                   -Author and organization to which author belongs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         - rittle, date and identification of report
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rollowing items are properly tabulated
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| Input Data Item | Title, date and identification of order document | Title, date and identification of final report | Title, date and identification of invoice concerned | Location for processing | Contractor's name | Summarized processing information | Processing method | - Original processing or reprocessing | - Number of folds for recording | . Number of folds for processing | . Sampting rate | - Xind of section (unmigrated time section, unmigrated depth | section, migrated time section or migrated depth section) | - Application of deconvolution (done before stack and/or done | after stack) | Summarized results | Processed line number and shot point number (start and end) | Report information | - Title, date and identification of report | - Main contents | - Main plates and enclosures | - Author and organization to which author belongs | Magnetic tape information | Reference is made to information in B-1-1-2-3-3 | Processing cost information | Following trems are properly tabulated | * Motel processing cost (0.8.6 a Mp.) | - House Length processed (Xm) | |
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| Input Data Item | - Migrated or unmigrated | - Structure or prospect name | - Horizon name | - Contour interval | ର ଅବନ୍ଧ | - Author and organization to which author belongs | - Title, date and identification of report to which map is | attached | Dopth contour map | - Title, date and identification of map | - Identification of shot point map related to the survey | - Migrated or unmigrated | - Structure or prospect name | - Morizon name | - Contour interval | ೯ ೧೯೮೦ ಕ | - Author and organization to which author belongs | - Title, date and identification of report to which map is | actached | Teopach map information | " Title, date and identification of map | - Identification of shot point map related to the survey | - Migrated or unmigrated | - Structure or prospect name | - Kortikon kane in the second of the second | - Contour interval | Scale Control of the | - Author and organization to which author belongs | - Title, date and identification of report to which map is | Anthophed |
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| Other may information | - mitte, date and identification of map | - Identification of shot point map related to the survey | - Structure ox prospect name | , | - Contour interval and the second of the sec | The state of the s | - Author and organization to which author belongs | - Title, date and identification of report to which map is | . wrtached | Report information | - minle, date and identification of report | - Main contents | - Main plates and enclosures | - Author and organization to which author belongs | Interpretation cost information | Following stoms are properly tabulated | - notal interpretation coat (U.S.S & Rp.) | - notal length interpreted (Km) | - notal shot point | - Unit cost (U.S.S & Mp./Mm & shot point) | Minor break down information of total interpretation cost | according to a format of invoice | Supplemental information | Well shooting information | General information | Survey name | Title, date and identification of order document | |
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| Mitle, date and identification of final report | Title, date and idnetification of invoice concerned | Surveyor and organization to which surveyor belongs | Summarized survey information | Summertzed results | Following items are properly tabulated | - Well name | י שפיפת שושקים - | - Source of energy | - Vertical depth from datum level to geophone | - Travel time corrected to the vertical (from datum level to | geophone) | - Average velocity | - Interval velocity | Magnetic tape information | - Tape number (start and end) | - Storage place | Report information | - Title, date and identification of report | - Natheroproprogramme Control of the | -Main places and enclosures | Author and organization to which author belongs | Total cost of survey (U.S.S & No.) | Other survey information (relating to the selemic survey, | ARCHAMINADA (Control of the control | Ceneral information with the second s | Surveyment in the first of the f | Mithe, date and identification of order document | nithe, date and identification of report |
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| spire | surveyor and organization to which surveyor paroner | Summarized survey information | Summarizediresults | Magnetic tape information | - napelnumber (stantland ond) | - Tape estorage en | Report Antonnetton | - mittle, date and identification of report | - Main Contentains and the second of the sec | - Main plates and enclosures | - Author and organization to which author belongs | Total cost of survey (0.5.5 & Mp.) | | Magnetic survey information | Common identification item | Unite name | Province name (Jambi, S.Sumatra, W.Sumatra, Klau, Bongkuld of Longers) | Area name | Period | - period for field operation | - period for processing | - period for interpretation | | mield operation information | General information | summer yours | mittle, date and identification of order document | mithe, date and identification of final report | |
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| Input Data Itom | Title, date and identification of invoice concerned | Surveyor and organization to which surveyor helongs | Summarized survey information | Site description | Classification of site description (see Attachment I) | Line cutting (Ma) | Land survey (Km) | Survey method | - Airborne or land | - Flight high | - Name of magnetometer | - Accuracy of magnetometer | - Name of magnetometer for diurnal correction | - Accuracy of magnetometer for diurnal correction | -Recording system (digital or analogue) | - Sampling rate and promise a person of the property of the pr | - Name of recording instrument | - Positioning method | Summartized/ results of the contract of the contract of | Location-map-information | - Title, date and identification of map | - Number of stations division to | - notal length condustry was | - Line interval | "Distance between stations" | The second of th | - Author and organization to which author belongs | . Nithe, date and identification of report to which map | The second of th |
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Report information

| - mittle, date and identification of report | - Math contents | - Main plates and enclosures | - Author and organization to which author belongs | Magnettostape Andormation average A. Treasure | - Kind of tape (before processing or after processing) | - nape number (start and end) | | Operation cost information | mollowing thems are properly tabulated | - notal-operation-cost :(U-S-S-S-S-R-) : -:: | - Operation cost per month (U.S. \$ & Np.) | - notal Length surveyed (Xm) | - motal atations of the second | - Unit cost (U.S.S. S. RO., M. S. station) | - Man power cost (U.S.S. S. NO.) | Minox break down information of total operation cost | according to a format of involce | Processing information | General information | Survey name | mitle, date and identification of order document | Title, date and identification of final report | mithe, date and identification of invoice concerned | Location for processing | Contractor's name | Summarized processing information | processing procedure |
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| Input Data Item | - Original processing or reprocessing | - Sempling point for processing | - International Geomagnetic Reference Field (F.G.R.F) used for | correction | - Fileracion | Summarized results | Processed line number and station numbor (start and end) | Report information | - Title, date and identification of report | - Main contents | - Main plates and enclosures | - Author and organization to which author belongs | Magnetic tape information | Reference is made to information in B-2-1-2-3-3 | Processing cost information | Following items are properly tabulated | - Motal processing costs (U.S.S.S. & Rp.) | - notal-denoth processed (xm) | - Totalistations | - Unit cost (U.S.S.S. Rp./Am.s. station) | . Minor break-down information of rectal processing | www.costwaccordingstoralformat of invoice | er mande bold out in the land on the most energy between the between | Interpretation information | Ceneraluinformation | Survey mame of the last the survey of the su | Mithe, date and identification of order document | and identification of | ひとことをひとるも したいしんしゅう こういりょうしん しんしゅう しゅうしゅ しゅうしゅ しゅうしゅ しゅうしん しゅうしん しゅうしゅう |
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- Author and organization to which author belongs

| - fittle, date and identification of report to which map is | attachad Report information | - Title, date and identification of report | - Main contents | - Main plates and enclosures | - Author and organization to which author belongs | Interpretation cost information | Following items are properly tabulated | - notal interpretation cost (U.S.\$ & Rp.) | - Moral-Length Interpreted (Xm) | 1. 2012年11月1日 11日 11日 11日 11日 11日 11日 11日 11日 11 | CAN CANADA CO. SOC. CO. C. | THE REPORT OF THE PROPERTY OF | | The state of the s | | survey | Common identification item | ているのでは、これが、これにいるとはできるが、これで、なのではませるが、どう、このものものものができながら、またいできます。 | | Province name (Jambu, S.Sumatra, W.Sumatra, Roau, Bengkulu or Lampung | SAME AND THE COMMENCE OF THE C | | | PERCENT OF THE STATE OF THE STA | MOTHER GRAND THE STREET | | Topoxical modernation | Prelia Operation information | Ceneral andomesanes |
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| out of | mitte, date and identification of order document | mitte, date and identification of final report | ricie. date and identification of involce concerned | Surveyor and organization to which surveyor belongs | Summarized survey information | A STATE OF THE STA | Classification of site description (see Attachment 1) | Line Cutting (Xm) | Land survey (XM) | Survey method | - Name of gravimeter | Accuracy of gravimeter | Recording system (digital or analogue) | - Name of recording instrument | - positioning method | Summarized results | rocation map information | nithe, date and identification of map | Number of stations | notal length | Line interval | Distance between stations | Scale | Author and organization to which author belongs | mitle, date and identification of report to which map is | artached | | - mitle, date and identification of report |
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- Main contents

| . Main plates and enclosures | - Author and organization to which author belongs | Magnetic tape information | - Kind of tape (before processing or after processing) | . Tape number (start and end) | . Storage place | Operation cost information | Following items are properly tabulated | rotal operation cost (U.S.S & Rp.) | Operation cost per month (U.S.S & Rp.) | Total length surveyed (Km) | Total stations | Unit cost (U.S.S & Rp./Km & station) | - Man power cost (U.S.\$ & Np.) | Minor break down information of total operation cost | according to a format of invoice | $\phi_{ij} = \phi_{ij} + \phi_{ij} = \phi$ | Processing information | Ceneral information | Survivy | Mile date and identification of order document | utile, date and identification of final report | nitie, date and identification of invoice concerned | Cocation for processing the control of the source of the source | Contractor as an analysis of the second of t | Summarized processing information | Processing procedure | Original processing or reprocessing | COORDINATE AND THE CONTRACT OF THE TOCK CONTRACT CONTRACTOR |
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Summarized results

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Summarized results

| Gravity map (bouguer anomaly map) information | - Title, date and identification of map | - Idontification of location map related to the nurvey | - Seructure or prospect name | - Contour interval | e Lacox | - Author and organization to which author belongs | - Tithe, date and identification of report to which map is | Determine the second of the se | Residual gravity map information | - Title, date and identification of map | - Identification of location map related to the survey | - Structure, or prospect name | - Contour interval | The state of the s | - Author and organization to which author belongs | and mitter date and identification of report to which map is | STATE OF THE STATE | 3 year Other map Information | ĄŢ | | State of the prospect name | Property Coprount Large TValle Services and the services (property copy) | ALCONOMICS CONTROL OF THE PROPERTY OF THE PROP | Thuthor and organization to which author belongs | - Title, date and identification of report to which map is | Sections and a section of the sectio | |
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| Input Data Item | Objective | Surveyor and organization to which surveyor belongs | Summarized survey information | Site description | Glassification of site description (see Attachment I) | Line cutting (Mn) | Land survey (Xtm) | Survey method | - Source of energy | - Name of measuring instruments | - Recording system (digital or analogue) | - Name of recording instrument | - Postudoning method | Summartzed results. | Location map information | - Tittle, date and identification of map | - Number of stations | - Total Length | - Line interval | - Distance between stations | Control of the contro | - Author and organization to which author belongs | - mitte, date and identification of report to which map is | The second of th | Neport Jufornation of the second | - minie, date and identification of report | - Main concence | - Take the and andlostres | をかてを付き点 えきにすづく エキセエス・モデ じゅうぎもちうこうきゅう でくり なのごがうく ニー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・ |
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| Author and organization to which author belongs | Briof description of map | Following items are properly tabulated | - Object (reservoir or formation, see Attachment IV ω V) | C C S C C C C C C C C C C C C C C C C C | - Contour interval | - Map sheet size | Title and identification of report to which map is attached | Iso-permeability map | Title and identification of map | Author and organization to which author belongs | Briof description of map | Following items are properly tabulated | - Object (reservoir or formation, see Attachment IV 6 V) | The second secon | - Contour interval | - May sheet size | Tittle and identification of report to which map is attached | Other map information | TO THE PROPERTY OF THE PROPERT | Aithe and identification of map | Author and organization to which author belongs | Brief description of map. | which wollowing trems tare properly tabulated which will be a contract. | - Object (according to the kind of map) | THE PROPERTY OF THE PROPERTY O | - Map sheet size | * Kemarks (Contour interval, number of eross-section and sec., | Character and |
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micho, and identification of report to which may is attached

| и т т т т т т т т т т т т т т т т т т т | ceclogical cross-section ritle and identification of cross-section | Author and organization to which author bolongs. | brief description of oross-sections: Secondary Constitution | rollowing trems, are properly tabulated | . Line name of cross-section (if available) | - vertical and horizontal scale | P. | - Cross-section shoet size | mitle and identification of report to which cross-section is | attached | | Geological restored section | Title and identification of section | Author and organization to which author belongs | Brief description of section | nollowing items are properly tabulated | - Line name of section | - Means of section (lithological or geological time) | - Restored plane (vestored horizon) | - Vertical and horizontal scale | - Name of well relevant to section (see Attachment IIII) | - Section sheet sixe | mittle and identification of report to which section is attached | | Geological correlation chart | mitle and identification of chart | epilon author belongs |
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| Input Data Item | Pollowing items are proporly tabulted | - Means of correlation (lithological or geological time) | - Vertical and horizontal scale | - Correlated well name | 1 Chart sheet size | mittle and identification of report to which chart is attached | Other section and/or chart information | mithe and identification of section and/or chart | Author and organization to which author belongs | Brief description of section and/or chart. if necessary | Following items are properly tabulated | * Object | answ 1 | - Scale | - Name of well relevant to section and/or chart | - Section and/or chart sheet size | Title and identification of report to which section and/or chart | 18 attached | The Committee of the end of the Advantage of the Committee of the Committe | | XLnd. of saport of the same of the same of the same of the same | Periodical report (daily, weekly, monthly and annual report), | Well resume report, Drilling proposal, Paleontological report, | Fishid mapping report, Special study report, or Work program | The second of th | Title and identification of report | Author and organization to which author belongs | Main concent (list only) | ties and identification of main map and figure which are | satisfied to report |
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WELL DATA INFORMATION

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Objective of well (wild cat, delineation, appraisal, producer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Contractor in case of drilling according to drilling contract
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  water injector, gas injector, observatory, suspended or
                                                                                                                                               Bottom bole location (coordinate) in case of deviated well
                                                                       Province name (Jambi. S. Sumatra, W. Sumatra, Rigu, Bengkulu
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Well status after completion (oil producer, gas producer,
                                                                                                                                                                                                                                                                                                      Name of formation completed (see Attachment IV)
                                                                                                                                                                                                                                                                                                                                    Name of reservoir completed (see Attachment V)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Universal transverse mercator (U.T.M) grid
                                                           Unite manifolding to part to the problem of a temption of
                                                                                                                                                                                 Field office name (Prebumulih or Bajubang)
originaly drilled well informations are
                                                                                                                                                                                                                                                                                                                                                                                                                                injector or observatory).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Type of well (vertical or deviated)
                                                                                                                             Contradict (bundles)
                                                                                                                                                                                                                  Fleid name ( *** Attachment II)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     prilling location (coordinate)
                                                                                                                                                                                                                                                                            Well name (see Actachment III)
                                                                                                                                                                                                                                                                                                                                                                         completed date
                                Common Adentification litem
                                                                                                                                                                                                                                                         Location name to see the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ceneral information
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             abandoned)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    c. coordinate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Operator
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 agroement
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   U.T.M. Grid
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| G. Coordinate | | Derrick floor elevation from sea level | Vortical length from well head base flange to derrick floor | notal depth | Menaure depth | True vertical depth in case of deviated well | Plug back depen | Perforated interval for completion | Holizontal deviation at total depth in case of deviated well | Mean drift angle in case of deviated well | Spud date | notal days (from spud date to completed date) | Reason of abandoned in case of abandoned well | notal wall cost (U.S.S & Mp.) | Tangible cost (U.S.S & Rp.) | Intangible cost (U.S.S.Rp.) | Total cost : (U.S.S. 6. Rp.) | | Completion information | Type of completion (dual, annulus, single, twin, triple, or | Contact (No. 10) Contact and C | Type of producing method (natural flow, rod pump, submergible | centralingal pump or gas lift) | Hole size sands casing sinformation, shear offers gaingrang of the | Pollowing items are properly tabulated | - Hole stand deterval | -size adepth type and munber of casing | Example. type: X-55, 54.5 Lbs/ft, Buttress | Completion string information in case of well other than | exchilotel listerno well | the transfer and tran |
|---------------|---|--|---|-------------|---------------|--|-----------------|------------------------------------|--|---|-----------|---|---|-------------------------------|-----------------------------|-----------------------------|-------------------------------|---|------------------------|---|--|---|--------------------------------|--|--|-----------------------|--|--|--|--------------------------|--|
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| Seat ased contra | - rubing identification, size, type and number of nubing, and total | Example, type, 4-55, 4.7 tbe/ft. E.C | | | s properly tebulated | Size, manufacture, model and depth of safety valve (storm cuove) | -Size, manufacture model and depth of injection valve | -Size manufacture model , and depth of safety joint | -Size, manufacture, model, and depth of sliding side door | - Size manufacture, model, and depth of packer(s) | Size manufacture, model, and depth of seating Nipple(s) | Size manufacture, model, sand. depth.jof anchor.jenene size in the land | Completion string and rod pumping information in case of | | • | Size, type and number of tubing, and total string depth | . 4.7138s/fc. B.C. | | p or rod/ingert pump) | | | - Manufacture, model, and A.V. I designations (if apprication) | | ngth of barrel | y wall | igth of plunger | Dacked . | Manufacture, model, size, and length of gas anchor | manufacture and size of tubing anchon/catcher | | 101 | | | |
|------------------|---|--------------------------------------|------------------------|----------------------------|--|--|---|---|---|--|---|--|--|----------------|----------------------|---|---------------------------------------|---------------------------|---|--------------------------|---------------------|--|------|--|-------------------------|--|---------------------------|--|---|--|--|---------------|------------------------|--|
| C SATELY | - Tubing identification | dage deput | Date of installation | Completion assembly | rollowing trems are properly tabulated | - Size, manufacture, mod | Size, manufacture mode | - Size manufacture mod | - Size, manufacture, mod | - Size manufacture, mod | - Size manufacture, mod | - Size manufacture, mod | Completion string and re | rod pump well | Tubing information | - Size, type and number | Example, 1799e, 0-55, 4.7Ebs/ft. B.O. | Subsurface pumping unit | Type of pump (tubing pump or rod/insert pump) | Date of installation | Pumping assembly | - Manufacture, model, an | dund | - Type, bore size and length of barrel | Example Type Hoavy wall | - Type, diameter and length of plunger | mample, Type, Soft packed | - Manufacture, model, at | | - Manuandrande - | pumping assembly location | dund to dot - | - Standing valve depth | |
| いかがない | - Tubing identificatio | tadep eburna | Date of installation | Completion assembly | Wollowing Ltens ax | - Size manufacture mod | Size manufacture mode | Dom - emportante - 212 | - Size, manufacture, mod | Dom Size manufacture mod | - Size manufacture, mod | boming enuticed under a sale - | completion string and re | well well well | Tubing information | - Stae, type and number | Example . Organizer | Subsurface pumping unit | 1 Type of pump (tubing pum | 2 Date of installation | 3 Pumping assembly | . Manufacture, model, ar | aund | - Type, bore size and le | MANAGE TYPOL HOAV | - Type, diameter and let | TYDE . SOIL TYDE . SOIL | Manufacture, model, at | | - Manufacture | A Pumping assembly locati | dund to dot . | . standing valve depth | |
| Constraint. | 1 - Tubing identificatio | ಭಾರತ್ ಕರಿಬ್ಬಾಕ | 2 Date of installation | 3 Completion assembly 3 | Wollowing items ax | - Size, manufacture, mod | Size manufacture mode | Size manufacture | - Size, manufacture, mod | bon serundationam series | - See annutacture | 1 Size - monufacture - mod | Completion string and xo | trew dund pox | 1 Tubing information | - Stac. type and number | Example, degree of 185 | 2 Subsurface pumping unit | . 1 Type of pump (tubing pum | . 2 Date of installation | 3 Pumping assembly | Manufacture, model, ar | dund | Type, bore size and le | Veak Legyt Letymext | - Type, diameter and ler | TOS COUNTY OF SOIL | Assurbanture, model, at | | CHRISTON TORREST | . A pumping assembly locati | dund to dot . | . standing valve depth | |
| | oraeorymaeorobacqua - t | under southis | 2 Date of installation | 3 Completion Assembly 1975 | Wollowing items are | Size, manufacture, mod | Size manufacture node | Size menufacture mod | Size, manufacture, mod | Size manufacture mod | S126 manufacture mod | Doming entrangement extra | completion string and ro | rod pump well | 1 Tubing information | stre, type and number | SS-D OBGYR OBGYRAXX | Subsurface pumping unit | | 2 Date of installation | 3 Pumpang paramud c | manufacture, model, ar | dwnd | - Type, bore size and le | Weak Louyt - element | - Type, diameter and ler | Type . south | Manufacture, model, at | | - Stanon Constitution of the Stanon of the S | A Pumping assembly locati | dund to dot | . standing valve depth | |
| | 4 1 - Tubing identification | dage department | 2 Date of installation | Completion assembly. | Wollowing Ltems al | - Size, manufacture, mod | Size manufacture mode | Size menufacture mod | bom , early star manufacture, mod | Dom serundentunem series | Size manufacture, mod | - State Sandrater Section Sect | d Completion string and ro | roa dund pox | 1 Tubing information | roquin and edit ests - | SS-L LAGYT . OTGERXX | Subsurface pumping unit | and burg to add t | 2 Date of installation | S Pumping assembly | - Manufacture, model, ar | dund | Type, bore size and le | VAON LOUVE - OLUMAXII | - Type, diameter and let | TOS LOCKE STOWN | Manufacture, model, at | | - Telon Torinography . | o pumping assembly locati | dund to dot - | . standing valve depth | |
| Parties Net | oranginal to the contraction of | ಭಾರತ್ಥ ಕರಿಭಾಗತ | Date of installation | Completion assembly/ | Wollowing Ltems are | - Size, manufacture, mod | Sixe manufacture node | pom empoemnem ento | - Size, manufacture, mod | Dom de truta de la contra del la contra de la contra del la contra del la contra de la contra del la con | SASS - MANUFACTURE - MON | Domest annual and an annual and an | Completion string and ro | Tran dund pox | 1 Tubing information | require and the same ample | 22-P (PGYT) , P LQMOXX | Subsurface pumping unit | t Type of pump (tubing pum | 2 Date of installation | 3 Pumping sesamply | - Manufacture, model, ar | dund | - Type, bore size and le | HXAMPLe Type: Moav | - Type, diameter and ler | Type: South | - Manufacture, model, at | | - Headon Headonnian | powers sembling to the transfer to the transfe | dund to dot . | standing valve depth | |

| Input Data Item | - Tubing anchor/catcher depth | Rod | Size model and length of polished rod | identification, size, model and length of sucker rod | Surface mover unit (surface pumping equipment and prime mover) | Type of surface mover unit (crank counter balance, beam counter | balance, airbalance or others) | Date of installation | Surface pumping equipment | - Manufacture and model | - Gear reducer torque capacity | - Type of gear reduction (single, double, or triple) | - Unit structual capacity | * Stroke and stroke length. | Prime mover | - Kind (electric-motor, or qus, gasoline, and diesel engine) | - Manufacture | - Model | - Capacity | - Speed: (A.P. P.M.) | Completion string, and submersible centrifugal pumping information | in case of submergible centrifugal pump well | The second of th | - Size, type and number of tubing and total string depth. | Example, Type, J. 55. 4.7 Lbs/ftc. B.U. | Completion assembly gray, and gray and and are an area areas | - Size, manufacture, model and depth of safety valve, packer, | shiding side doom, ecc. | Subsurface punging unite | Date of installation | Pumping, assembly | - Manufacture of pumping Assembly | • | |
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| - shine, model and hength of ges separator section | - Size, model and lenth of weal section | - Size, model, length, capacity and speed of motor section | Substitution power calls | The second of th | TORUS | - Number Ox Cox ox Cox ox Cox Cox Cox Cox Cox Cox | - Ensulator and sheath | of figure (nound and flat) | Completion string and gas lifting information in case of gas | | Type of flow (cubing, casing or macaroni) | Type of lifting (continuous or intermittent) | Type of installation (open, semiclosed, closed, chamber, | macaroni, dual, or others) | rubing information | - nubing identification, size, type and number or times | attring depth Example, Type, 4-1, Lostra, 1-10 | - Size, type and number of macaroni pipe and total care | Subsurface gas lift assembly | bate of instablation | Cas 11st assembly | mollowing stems are properly tabulated | - Size, manufacture, model and depth of unloading valves | - Size, manufacture, model and depth of operating valve | - Size, manufacture, model and depth of mandrels | - Size, manufacture, model and depth of packer(s) | - Size, manufacture, model and depth of standang valve | Completion assembly of other string in case or multi strings | - Size, manufacture, model and depth of sarety varie, green- | sliding side door, nipple, ofc. |
|--|---|--|--------------------------|--|---|---|------------------------|----------------------------|--|----|---|--|--|----------------------------|--------------------|---|--|---|------------------------------|----------------------|-------------------|--|--|---|--|---|--|--|--|---------------------------------|
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| hurtaes equipment | - Manufacture and model of intermitter | Gas supply | - Burtlace design injection pressure | Perforation information | Following tramm are properly tabulated according to their | respective objective | - Objective (completion, whut off, test or emergency) | Deta | Interval | - Formation or reservoir name | Size of string perforated | Type and size of perforation | Example, Type, Thru cubing Unijet Aluminium | - Number and density of shot | Completion fluid | - Date of replace | - Annulus or/and tubing | Property of fluid | Kind, density, volume, etc. | Your hood assembly | e, model and working pressure of casing | | manutact | The second of th | Size, manufacture, model and working pressure of Mas tree and | type of flange connected to its wing value. | Abandonment information | | Plug back information | Nemerone is made no information in (0-11-9-6) bessekymber of frem there as Yest | |
|-------------------|--|------------|--------------------------------------|-------------------------|---|----------------------|---|------|----------|-------------------------------|---------------------------|------------------------------|---|------------------------------|------------------|-------------------|-------------------------|-------------------|-----------------------------|--------------------|---|---|----------|--|---|---|-------------------------|---|-----------------------|--|---|
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prilling operation information

Type of nig

Name of stignment of the bit state of the st

Model work amud pump with

| Input Data Atem | - Restod depth | • Mud wolghe | - Pressure applied | - Fracture gradient and equivalent apecific gravity | Primary cementing | Following items are properly tabulated according to their | rospective costno size | Casing size | - Stage number and their depth | - Class, additive, slurry weight and number of sacks (with | weight per sack) of cement | - Top of coment | - pressure test after comenting job | Test pressure, bolding time and result | - Comment on remedial cementing | Squeeze cementing | Following trem are properly tabulated according to their | respective objective | - Objective (sealing off undesized perforation, plugging channel, | repairing damaged casing, supplementing primary cement) | - Date of the second of the se | - Depth (interval) | - Perforation | Size of string perforsted, type and size of perforation, | and number and density of shot | Example Typen Thru tubing. Unijet Aluminium | - Class, additive, slumy, weight and number of sacks, (with weight | Sper sack) of cement | - Squeezing: injection rate | - Squeezing meximum pressure | * Coments on 'results (pressure test, dry test, etc.) | | |
|-----------------|----------------|--------------|--------------------|---|-------------------|---|------------------------|-------------|--------------------------------|--|----------------------------|-----------------|-------------------------------------|--|---------------------------------|-------------------|--|----------------------|---|---|--|--------------------|---------------|--|--------------------------------|---|--|----------------------|-----------------------------|------------------------------|---|------|---|
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Following items are properly tabulated according to their
- Objective (completion, sidetrack, abendon, lost circulation
                                                                                                                                                      Class, additive, slurry weight and number of sacks (with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     rotal volume of additives, lost circulation materials
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        - Type and properties of drilling fluid at lost
                                                                                                                                                                                                                                                      Depth, mammfacture, model and size of plug
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                - Type of loss (total loss or partial loss)
                                                                                                                                                                                                                                                                                                                                                                                                wollowing item are properly tabulated.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      - Kind.of survey (Totco, magnetic or gyro)
                                                                                                                                                                                                                                                                                                             nast presente, bolding time and result
                                                     - Mind. of work (cement and/or bridge plug)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                - Holizontal deviation by survey point
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                - Measure and Vertical depth surveyed
                                                                                                                                                                                                                                                                                                                                            rotal cement and additive consumption
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        - Total volume lost
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              - Drift angle by survey point
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               - Treatment method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          - Direction by survey point
                                                                                                                                                                                                     weight per sack) of cement
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        respectave depth
                                  treatment or others)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          - Depth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  - Tormation
                                                                                                                                                                                                                                                                                             - Pressure test
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Lost circulation
                                                                                                                                                                                                                                                                                                                                                                              Deviation survey
                                                                                                                                                                                                                                                                                                                                                                                                                                    - Survey number
                                                                                                                                                                                                                                      Bridge bind -
                                                                                                                                                  - Cement Job
                                                                                               - Date
                                                                                                                       -, incervel.
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and mud for treatment

| ада | - Balanced weight of drilling fluid | Troubles encountered during the course of drilling operation | - Date emergence | - Date overcomed | - Kind of trouble | - Prostnent method | . Comment on treatment result | Service contractor | 1 Cement Job | 2 Mud engineering | 3 Mud logging (Data Unit) | 4 Well logs | 5 Perforation | 6 Coring | 7 Drill stem tost | 8 Production test | 9 Fluid sampling | 10 Well stimulation | 11 Wine Line service | 12 Directional, survey | production of the second of th | | Regard up. These of the second | Rigging down and a factor of the property of t | שהדדותים | | S | Section of the control of the contro | | B Pressure tesst/injection test/mud, off test | 9 Aunning coming |
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| 류· | WALL ON COMOTIC |
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| 7 п | |
| A | Repairing equipment |
| 76 | |
| 17 | Production test / B. K.P. |
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| 61 | Month abuse of the second seco |
| 50 | Deviation survey |
| 77 | Oches |
| 22 | · |
| | |
| , | Coological information |
| # · | Coological markers |
| : • | 2 |
| . • | - Name of penetrated formation and/or markers |
| | - Depth |
| • | Drilling depth from deartick floor, true vertaceal |
| | (deviated vell only) and subsea depth |
| 8 | Well Logs |
| | mollowing items are properly tabulated |
| • | - xind of log |
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depth

| (section of the section of the section) to the section of the sect | - 1775 of Conventional Darks), rubber sleeve, or | oxiented core bearel) | - Kind (rock or diamond), manufacture, model and size of coring bit | - Interval | - Racovery | - Coxing mud information | Tupe of mud (fresh water base, salt water base, oil in | water emulaton or oil base) | Mud properties | Weight, viscosity, P.H. water loss and salinity | Stda sample | Mollowing items are properly tabulated | - Sample identification | - Sample depth | - Recovery | - Sampling mud information | Type of mud (fresh water base, salt water base, oil in | water emulation or oil base) | Mud. properties | Weight, viscosity, P.M. water loss and salinity | Cutting sample | * Sampling Interven | - Fraguescy of sampling | - Reference number of mester log (mud logging record) | Well, shoothng or an area of the second of t | Xeference is made to information in (W-1-4-1) | | けきまたいかな しっぱらなぎまたいらっ | | |
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| TARG BACK | mype of test (open hole of center nois) | Operator | | Household Mathematical Control of the Control of th | nested formation or reservoir | | - Beansatize at top and bottoms one of the section | - size, length of test pipe (tubing or drill pipe) | - Modelly sixe and depth of testen | - Iden tification, model, size and depth of pressure gauge, clock | Consideration of the consideration of the constant of the cons | nest record of pressure with elapsed time | Kind - (fresh - water - water or others), length and weight or | - water queston | weight of much in hole | th of pressure dauge utilized | rollowing trems are properly tabulated with elapsed time | . nester open and closed time | - Mydrostatic pressure before and after test | - Initial flow pressure | - Initelal closed-in pressure | - Minal flow Dressure | - Final closed-in pressure | nemper acture | - Borttom hole temporature at measured depth | | . Amount and specific gravity of recovered oil | - Amount and salinity of recovered water | - Amount of produce gas | - Others | BGSW, etc. | Recovered fluid information in bortom hole sample: | Type and size of bottom hole sampler | Amount and kind of fluid recovered in bottom hole sampler | |
|-----------|---|----------|----|--|-------------------------------|---|---|--|------------------------------------|---|--|---|--|-----------------|------------------------|-------------------------------|--|-------------------------------|--|-------------------------|-------------------------------|-----------------------|----------------------------|---------------|--|---|--|--|-------------------------|----------|------------|--|--------------------------------------|---|---|
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| Pormation interval test | Test identification | Type of test (single formation test, repeat formation test) | Operator | Date | rested interval | Mested formation or reservoir | Amount and kind of fluid recovered in sample container | Formation pressure recovered at tested doeth | Production test | Test identification | Type of test (oil or gas) | Operator | Test period | Tested interval | Tested formation or reservoir | Test strings | - Size a type and total depth of test strings and and and a second | - Model: and depth of salety valve (storm choke) if installed | Production/test and pressure survey information | idencification, type, size and depth of pressure gauge, clock | and and thermometering of the con- | the first language of the content of | Conformed teems are properly tabulated with elapsed time | | - Well head flowing or shut in pressure | - Flow Line pressure at choke down stream | * Separator pressure | - Milowingstee on only des and water | | くりょうしょう ほうりょう しょう しゅう アンドラ しゅうしゅう こうしょうしゅう ほうしょうしゅう ほうしょうしゅう しゅうしゅうしゅう しゅうしゅう しゅうしょう しゅうしょう しゅうしゅう しゅう |
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| nothorboad to esso at expession at much to printing the | Vertices of a second control of the second c | - Borton hole temperature in case of production test with bottom | Pole temperature survey by the survey of the | - Productivity index | | pressure by depths are tabulated independently of the above | Production Log | stem are properly tabulated ac | | The second of th | | The state of the s | | - Survey number of relevant production test identification | Hajertion test | nest identification | Kind of injection fluid (see water, formation water, other | kind of water, w | Properties of fluid | Specific gravity, salinity and other main impurities in case | סל עמנפא | Main components in case of gas | Type of test (injection test only or injection test with bottom | note present survey | Operator | nest period | nested interval | rested formetion or reservoir | Hear atribute | Injection toat and pressure survey information | |
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| l identification, model, size and depth of pressure gauge, clock | 2 Survey record | Following items are properly tabulated with elapsed time | . Choke mise | - breaking off pressure | - Injection rate | - Borrom hole flowing and shur in pressure | - Bottom hole temperature | - Indectivaty index | Well stimulation | Job Adentification | Objective (production atimulation or injection atimulation | Type of stimulation (matrix acidizing, fracture acidizing or | hydraulic fracturing) | or many states to the control of the | Period for treatment | Formation or reservoir name and interval for treatment | String through which treatment is conducted | - Size, type, total depth of string and packer depth | Type of base fluid (RGL, CR3COCH, RCCOCH, RF, NM2.SO3H or others) | ALL A CONTRACTOR OF THE CONTRA | ** まるきののもののできませる。 *** *** *** *** *** *** *** *** *** * | 1917 - A KORANA SONO DERBOOK AND AND ANDRONES A RESERVOISIONAL OF THE STOCKE. Following thems are tropestly tabulated with elegend time. | されて、このでは、「これでは、「これでは、「これでは、「これでは、「これでは、これでは、「これでは、」」」」。 | AND CONTRACT TO SECURE TO SECURE OF THE SECURE THE SECURE THE SECURE TO SECURE THE SECUR | | | | - Time Walting on Reaction | - Thoward beak and obeating up hours | presents to the period of the period of the period of the period |
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Charles and requiremental control can be accessed to the control of the control o Province (Jambi., S. Sumatra, W. Sumatra, Riau, Bengkulu or

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Field name (soo, Attachment III), en mit enem ingenerale in person of the Seath rield, office, name (Oxedwithin, or deducted) guesticies in the less in ALOR MARAMENT STATE OF STATE STATE OF THE ST

Location name of the passes for

work over number (serial number of workover operation on original Well name (see Attachment III)

Name of formation completed (see Attachment IV) The second secon

Objective of work over (completed formation/reservoir change, Name of reservoir completed (see Attachment V) Completed date

status conversion, completion method change, shut off, plug back or additional perforation, stimulation or romedial work)

injector, gas injector, observatory, suspended or abandoned) well status after work over (oil producer, gas producer, water The transfer of the second of

Coneral information

Contractor in case of work over according to workever contract Charles Control of the Second of the Control of the

Dottom hole location (coordinate) in case of deviated well. agroement D.T. W. 47.10

Bearing

Dorrick floor elevation from sea level

| Vertical length from well head base flange to derrick floor | Total depth | Measure depth | True verticel depth in case of deviated well | Plug back depth | Holizoncal deviation at total depth in case of deviated well | Commenced date | notal days (from commenced date to completed date) | Total work over cost (U.S.\$ & Rp.) | Rangible cost (U.S.t & Rp.) | Intengible cost (U.S.S & Rp.) | Total cost (U.S.S & xp.) | | Completion information | if available, date input for work over information is made | according to items and item number as described in D-1-2, | replacing to by D-2-2, which we write a property of the second | Workover operation information | If available, date input for workover information is made | according to items and item number, as described in D-1-3, | see replacing it by D-2-3. | The second of th | Coological Lindowna tions, prof. p | The available, data input for workover information is made | according to items and item number as described in D-1-4, | xeplecting it by D-2-4. | |
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If evailable, data input for workover information is made according to itsems and item number as described in D=1=5, septasting at My D=2=3.

Testing information

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Fig. office name: (Bajubang.or.Prabumulth)

mield name (see Attachment I)

Wolffinamer (see Accachment fill) than the supposed and the Formation name Vase Arrachment IV) shertiemer segment

Reservoirribane (see Attachnent V) seriesse sees sees seeds

(September 1988) Reported date

Core analysis information of the property of the control of the co

Analysis identification

miche. date and adentification of sample analysis report nither date and identification of order document

mither date and identification of involces concerned Reporter and organization to which reporter belongs Location of laboratory

Summarized enalysis information

Pollowing frems are properly cabulated - Sample identification

- Coring date of each sample
- Sampling depth

 - Sampling size
- Unit cost U.S.S'& Rp./analysis/sample - Number of sample
 - Kind of analyisis (see Actachment VI)

notal cost U.S.S & Rp.

Input Data Item

Itom No.

| - Sample identification | - Sampling date | - Separator condition | remperature | - Unit cost by U.S.S & Rp. per analysis per each semple | - Kind of analysis performed (see Attachment VIII) | Volatile of lane reservoir pur analysis | Analysis identification | iction of order document | nicle, date and identification of sample analysis report | mithe, date and identification of involce concerned | Reportor and organization to which reporter belongs | tocation of laboratory | Kind of sample (subsurface sample or recombined sample) | Summarized analysis information | roulowing atoms for each sample are proporty tabulated | - Sample adentification | - Sampting dans | irface sampl | - Sampling caendicton in case of subsurface sample | Tomperaturo | extradora | - Saparator condition in case of recembined sample | Temperature | omnegend | - Chit cost by U.S.C & Rp. Der challysis per coop sample | - Kind of analysis parformed (see Attachment IX) | Compositional studies and water analysis | Analysis identification | Title, date and identification of order decument | |
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Itom No.

Data Itom

Title, date and identification of sample analysis report

| Title, date and identification of invoice concerned | Reporter and organization to which reporter belongs | Location of laboratory | Summarized analysis information | Following items for each sample are properly tabulated | . Kind of sample | - Sample identification | - Sampling date | - Sampling place | - Sampling condition | Temperature | The second of th |
|---|---|------------------------|---------------------------------|--|------------------|-------------------------|-----------------|------------------|----------------------|-------------|--|
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- Unit cost by U.S.C. 6 Rp. per analysis per each sample

* Kind of analysis performed (see Attachment X)

PRESSURE AND PRODUCTION DATA INFORMATION

componentationtation atom transmission and specific progressions

The state of the s

rield office name (Bajubang or Prabumulih)

Field-name (see Detachmentor) (ground

BLOCK SECELLOR FRAME TO THE POSSESSESSES OF THE PROPERTY OF TH

Well name (wee Netachment III)

Well status (oil producer, gas producer, water injector

onypacoff producting method (natural flow, rod pump, submergible which gas injector, observatory, suspended or abandoned)

centrifugal pump or gas lift)

Type of completion (dual, single, annulus, twin, triple or others) producing or injecting formation (see Attachment IV)

producing or injecting reservoir (see Attachment V)

Month (for items 1,3,4 and 5) or date (for item 2)

Cas oil ratio (300m³/m³)

the value of gas oil ratio in the Data Base stored through input procedure functions as a common identification item by which producing strings of wells with the value of gas oil ratio higher than 300m3/m3 are selected and relevant

water cut(50%) (water production amount/(water+oil) production information are printed out as requested.

a

producing strings of wells with the value of water cut higher procedure functions as a common identification item by which The value of water cut in the Data Base stored through input than 50% are selected and relevant information are printed

AII-63: ----

| Input Data Itom | Monthly production and pressure data | Monthly oil production amount | Monthly gas production amount | tow presents | wedling and | High pressure | Monthly water production amount | Cumulative oil production amount | Cumulative gas production amount | Low prosecure | Medium pressure | High pressure | Cumulactive water production amount | Share Lactor | Production days and a second s | Mistorical monthes since putting service on production | Choke Stze werken in the street of the state | Casing pressure | Tubing pressure and a second of the second o | Saparator prassure " Optimization of the sage of the s | ABOUT TO CARE TO COURT AND THE STATE OF THE | Subsurface pressure/detail | Welevence is made to information in Hele-1, Hel-4-3 and | mental services the following trems | Coneral Cinconstion (PV) Common Properties | Producting or injecting information | Static bottomhole pressure, temperature and their depthes | Angeles and the second | King of Angeoftion fluid (Ansen Veter, see veter, formatilon | cato year ato day, tanas, year oxyox oxyox |
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Monthly injection emount

| | Hall-orthon Wasserson | Cumulative injection amount | raid (in c | Specific gravity | | Ocher main inpurities of the contract of the c | Main components (in case of gas) | Main treatment (in case of water) (aeration, sedimentation, | chemical treatment, filtiation and/or other treatment) | | Gas lift information | identification of compressor station through which gas is | dolivered to the well | well inlat pressure | Monthly gas injection utilized for gas lifting | Cumulative gas injection utilized for gas lifting | • | Che consumption data | Monthly and cumulative gas amount for injection | Monthly and cumulative gas amount for Pushi | Monthly and cumulative gas amount for refinery plaju | Monthly and cumulative gas amount for bin Palembary | Monthly and cumulative gas amount for power plant | Monthly and cumulative gas amount for field use | Monthly and cumulative gas amount for compressor fuel | Monthly and cumulative flare gas amount | • |
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| Input Data Item | reserves information | Common identification item | Unit name | Province name (Jembi, S.Sumatra, W.Sumatra, Riau, Bengkulu | Lampung) | Aroa namo | rield office name (Bajubang or Prabumulih) | Field name (see Attachment II) | Reservoir namo (see Attachment V) | Xear | Reserves information on oil reservoir | oil and associated gas reserves at the begining of year | Proved oil reserves | Probable oil reserves | Possible oil reserves | Proved associated gas reserves | Probable associated gas reserves | Possible associated gas reserves | Off and associated gas production | Oil production during year | Cumulative off production at the end of year | Associated gas production during year | Cumulative associated gas production at the end of year | Off and associated gas extension or reduction (by revision) | and author year of the factor | Proved oil reserves | Probable oil reserves | まきたなきゅうと はみつ それのはまるのの | the section of the property of |
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| | | PAODES PROCESTED GRE NESSTANDE | possible associated gas reserves | module and report | Following information is stored for reserved in | conjunction with the engineering reports by which | original reserves and revision had been studied | THE PROPERTY OF THE PROPERTY O | A A A A A A A A A A A A A A A A A A A | apholog restrongs of the second second | reporter and organization to which regulation | Main contents including reservoir name concerned | oil and associated gas reserves at the end of year | THE PROPERTY OF THE PROPERTY O | probable out resources | Possible oil reserves | proved associated gas neserves | probable associated gas neserves | possible associated gas reserves | Reserves information on gas reserved; | as condensate | Cas and gas condensate reserves at the beginning or year | Proved gas reserves | probable gas reserves | possible dos reservos | proved das condensate reserves in case on gas concentrations | atovaca and and another another and another another and another another and another anothe | Proba | xancana xioviosex | 6 Possible gas condensate reserves in case or gas comments | 20010002 | Cas and gas condensate production | 1 Cas production during year |
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| Cumulative gas production at the end of year | Cas condensate production during year in case of gas | condensate reservoir | in case of gas condensate reservoir | Cas and gas condensate extension or reduction (by revision) | during year | Proved gas reserves | Probable das reserves | Possible gas reserves | Proved gas condensate resorves in case of gas condensate | というというできません | Probable gas condensate reserves in case of gas condensate | TO SECOND TO SECOND SEC | Possible gas condensate reserves in case of gas condensate | からなる。 | Englasering report | Following information is stored for reference in | conjunction with the engineering reports by which | oxiginal reserves and revision had been studied | Xind Of Landox Control of Section 2000 Section Control of Section Cont | minde, date and indentification of report | Reporter and organization to which reporter belongs | Main contents including reservoir name concerned | Gas and gas condensate reserves at the end of year | WANTED TO SECURITY OF THE PROPERTY OF THE PROP | Acoboth acomos meson acomos | DOSENTAL GOS TERROTOS | Proved gas condensate reserves in case of gas condensate reservoir | Wickelble gas confederate Nessives in case of one condensate | The second secon |
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| PRODUCTION OPERATION INFORMATION | Well tost information | Common identification item | Unit name | Field office name (Bajubang or Prabumulih) | Fiold name (see Attachment I) | Block station name | Well name (see Attachment HHI) | Formation name surveyed (see Attachment IV) | Reservoir name surveyed (see Attachment V) | Date or period surveyed | Well production or injection ability test information | Ceneral information | Test identification | Surveyor | Well status (oil producer, gas producer, water injector, | gas injector, observatory, suspended or abandoned) | Type of completion (dual, single, annulus, twin, triple or | others | Type of producing method (natural flow, rod pump, submargible | centrifugal pump or gas lift) | Tost information of the second | Following trems are properly tabulated and printed out | together with test separator condition, wellhead | flowing pressure and field leboratory fluid enalysis results | Address of the state of the sta |
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sulfide content, and main components of fluid in case of gas such as oil gravity, salt content, sulfer content, hydrogen

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| - production or injection rates or our, yes may be | Reference report | - mitte, date and identification of report | - Reporter and organization to which reporter belongs | production test information | (which or whithout bortcombole pressure survey) | Ceneral Cinformation of the second was to remain the second of the secon | Survey identification | The second secon | Well status (oil producer, gas producer, water injector, gas and | injector, observatory, suspended or abandoned. | Type of test (production test only or production test with | boccombole press | Completion information | Reference is made to information in D-1-2 or D-2-2 | on the following items | Type of completion (dual, single, annulus, twin, tribis of | others) | Type of producing method (natural flow, rod punk) summers | contriducal pump or gas lift) | Hole size and casing information | Completion strings information in case of weil other when | artificated lifeting well | Completion string and rod pumping information in case of | rod pump well | Completion string and submergible centrifugal pumping well | information in case of submergible dentility of reserve | Completion string and gas lifting information in the completion | 112c well | perforation information |
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| Completion fluid | Wellhead assembly | Abandonemt unformation | Production test and pressure survey information | Type, size and depth of pressure guage, clock and thermometor | Survey Record | Following items are properly tabulated with clapsed time | - Choxe size | - Wellhead flowing or shue-in pressure | - Flow line pressure at choke down stream | - Separator pressure | - Flow nates of oil, gas and water | - Basin sediment and water (BSSW) | - Specific gravity of oil and water salinity | - Bottombole flowing or shut-in pressure in case of production | test with bottombole pressure survey | - Bottombole temperature | - Productiva typulandex | | Pressures by depths are tabulated independently of the above | Zeference report | identification of report | - Reporter and organization to which reporter belongs | Comments of the comment of the comme | Injection test information, | (with or without bottombole pressure survey) | General, daformationages age, so same, advance agence a | Surveyatdentafacetion | Surveyor | Well status (oil producer, gas producer, water injector, | gas injector, observatory, suspended or abandoned | Type of rest (undection rest only of invection test with bettothe presture survey) |
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| | Kind of fluid (fresh water, formation water, other water, | wot gas and/or dry gas) | | The state of the s | Other meth inputitetes | /a of | Completion information of the second of the | 40° 40° | Type of completion (dual, annulus, single, twin, triple of | others (special party of the control | POS OF DECOURTS THE COOK OF THE THE CONTRACT OF THE POST OF THE PO | Consider the Constant of the C | Mole size and ceraing information in case of well other than | orcificate lifeting well | completion string and rod pumping information in case of | rod pump well | completion string and submergible centrifugal pump well | Completion string and gas lift information in case of gas | 114t vell | parforacion information | Completion fluid | Wellhead assembly | abandonment condittion | Injection test and pressure survey information | i dopth of pressure quaye. | Survey record | rollowing intome are properly continued |
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| * Choke size | - Wellhead flowing preseure and shut-in preseure | - Flow line pressure at choke up stream | - Flow rate of water or gas | - Bottomhole injecting and shut-in pressure in case of injecting | test with bottombole pressure survey | - Bottomhole temperature | - injectivity index | Reference report | - Title, date and identification of report | - Reporter and organization to which reporter belongs | Subsurface pressure survey information | Conoral information | ġ. | | 「大きなりをかる」「大きなことできるできる」「大きな」「大きな」「大きな」「大きな」「大きな」「大きな」「大きな」「大きな | ** ** ** ** ** ** ** ** ** ** ** ** ** | gas injector, obserbatory, suspended or abandoned) The of survey (boing survey, build up survey or falloff survey) | | Comparation with Comments of the Comments of t | The specimen and property of the side. | Type of completion (dust, single-samples, exist, every of completion) | | n O ttoris tronner in transfer in the State of S | | centralityed pump or gas lift) | Hole size and casing information | Completion string information (other than extificial lifting) | Completion string and rod pumping information in case of | XOX Dumy BOLL | Completion stand and submercable centralityed buspans | esderables in the sale of settings the constitution with |
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Completion string and das lifting information in case of gas

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Shut-in pressures and shut-in times are properly tabulated
                                                                                                                                                                                                                                                                                                                                                                                                      mype, size and depth of pressure guade and thermometer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     - Relation between bottomhole shut-in pressure and shut-in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bottomhole pressure by depths are proporly tabulated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Static bottombole pressure, temperature and their depthes
                           Completion fluid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       - Reporter and organization to which reporter belongs
                                                            Abandonment conditaton

Production or insection information

Shut-in date
                                                                                                                                                                                                                        Cas (producing gas and recycle gas for lifting)
                                                                                                                                                                                                                                                                                                                                cas (producing gas and recycle gas for lifting)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              time in case of build up or fall off survey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      bottombole pressures by depths
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Field laboxatory fluid analysis information
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             - Bottombole temperature and measured depth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   - Title, date and idnetification of report
                                                                                                                                                                      Cumulative production or injection amount
                                                                                                                                                                                                                                                                                                                                                                                                                                                              - Wellhead shut-in pressure
                                                                                                                                                                                                                                                                                                                                                                                      Pressure survey information
                Perforation information
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Reference report
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                                                                                                                                                                                                                                                                                          Rate prior test
                                                                                                                                                                                                                                                                                                                                                                                                                                          Survey record
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| Common identification item | Unit name | riold office name (Bejubang or Prabumulih) | Field name (ase Artachment I) | Station name | Pormation name surveyed (see Attachment IV) | Reservoir name surveyed (see Attachment V) | Sumpling place (well name(see Attachment III), high stage separator, | medium stage separator, low stage separator, flow line, | gathering line, trunk line or other places) | Date samples | Sampling information | Smpling identification | Xind of sample | Sampling condition | Temperature | Control of the contro | | Oll analysis information | Samule 10entification | A THE CASE OF THE STATE OF THE | | MOCRETION OF THE CONTROL OF THE CONT | report number | Summarized analysis result | Ceneral oll property | Tollowing properties of oil are property tebulated | - Analysis method applied | - Specific gravity | - Xinematile viscosity for measured temperature | Sector Modera |
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* Basic sections of water (BSSW)

| * Water content | American society for tearing materials (A.S. 1.1) the | Analystanathod | Distillation contents | cents over a tested range of | are property tabulated together with initial boilling | nother and their respecting method | AND ARM WITH A CROST COLORS OF THE CONSTRUCTOR OF T | enable compatible and aromatic content of distillation. | Syctimity of a gravities and aromatic contents of distillates | sydenia and specific temperature points are tabulated in | respective method together with specific gravity and | pour poture of residue | Gas analysis information | Sample identification | Analysis date | Location of laboratory | Laboratory report member | Summarized analysis nesult | Coneral gas property | rollowing properties of gas are properly tabusated | - Analysis method | - Density | - Specific gravity of hydrocarbon (airrl) | - neating value (not caloxific value) | Components analysis | Motio boxconne on telegic boxconne or riching tooconnex | are properly tabulated as a result of merch and lied |
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with information of their analysis method applied

| | - Carbon anoxide | - Dioxide O2 | - Nitrogen N2 | - Methan C1 | - Bthan C2 | - Propane C3 | - 1-Butane | - n-Butene | - 1-Ventene | * n-Pentene | - Hexanes plus | - Other inpurities: (mercapten, mercury and other heavy metals) | | Water analysis information | Sample identification | Analysis date | Location of Laboratory | Laboratory report number | Summartzed. analysis result to the second of | Constituents in water are classified into following three | categories and properly tabulated together with information | of general water properties such as resistivity, PH, | corrosion action and bacteria colony. | Dissolved call the profit was made processed as the rest of the call of the call | - NACHTINE CONTRACTOR | - Xalium of the second | - Caloxument Ca++ | - Wagnestum Strate Motor of the Strate Strat | - Hydroxyl OK" | * Whoshers - Whooy | a Control and a | |
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- humonia
- Hydrogen sulfide H2S
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- Chloride C1
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- Phosphate Till I will both more at a strength of the many that we are strength and the strength of the stren

- Calsium cambonate CaCO3

- maerobic sulfate - reducing bacteria - Other organisms if necessary

CONTRACT GOOGSONE

Input bata Itom

History: of stationwide turnaround

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Specification in case of separator, knockout, surge tank sump tank
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Portiotal in the second state of the second st
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| Input Data Item | Heating or coeling coil (yes or no) | Heat insulation (yes or no) | Weight for empty | Specification in case of absorber | Goods name | Model name | Xind of absorbent (CaCl2, amino, glycol, ADIP, Sulfinol or others) | Object of treatment | Flow rate of fluid treated (-nominal capacity) | Flow rate of fluid absorbed | Flow rate of absorbent solution or volume of CaCl2 | Type and number of trays or type and quantity of packing | Design pressure and test pressure | Design temperature | Material information of shell | - Name of material, stress relieving and weld exemination | Dimension of absorber (0.0 x S.to S. x wall thickness) | Design information of fluid treated | - MyO concentration, MyS concentration and CO, concentration | Meet insulation | THOUGHT TOWN CONTRACTOR OF THE PROPERTY OF THE | Compression of Control of State and Control of State and | Specification in case of stripper or stabilizer | Coodernaments profit | Wodel name of the | Kind of absorbent (amine, glycol, Abiv, Sulfinol or others) | Kind of gas or steam stripped | whow nate of gas or steem strupped (snominal capacity) | Whow rate of absorbent solution trespect | くをイガなどうぎくさう パラブレ える くきイチなくうほくひひ だくぎずた |
|-----------------|-------------------------------------|-----------------------------|------------------|-----------------------------------|------------|------------|--|---------------------|--|-----------------------------|--|--|-----------------------------------|--------------------|-------------------------------|---|--|-------------------------------------|--|-----------------|--|--|---|----------------------|-------------------|---|-------------------------------|--|--|---------------------------------------|
| | 14 | ទូក | 16 | | ત | . 01 | ლ | 4 | ษา | ψ | 7 | 90 | ø. | 0 | rr rr | • | 12 | 23 | • | ጟ | 3.5 | , | | ं स | N | m | 4 | •3 | ٠ | • |
| Item No. | ์หล | • | - | is. | • | | • | • | • | • | • | • | • | • | • | • | | .• | | • | ,• | | W | .• | • | .• | • | | | • |
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| | Type and number of trays or type and quantity of packing | - | | | | | on concentrations, M.S. concentration and Co. | The manual introduction and the area, sait bath beater, | | s weight for anoty | Specification in case of filter | Coods name | | | CHARLES OF HALLES OF THE CONTRACT | A Object of treatment (mominal capacity) | s whose note of fluing treased (-inclinity | 6 Filtration rate of solid | Xind of faiter media (cotton, metal footes, fire | bed or other porous media) | quantity of filter media equipped | | | | | | | the Doston information of fluid theated | | • |
|----------|--|---|-----|---|---|-----|---|---|---|--------------------|---------------------------------|------------|---|---|-----------------------------------|--|--|----------------------------|--|----------------------------|-----------------------------------|---|---|---|---|---|----|---|---|---|
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| reem No. | •) (1 | | | • | • | | | , | | | | • | • | • | | • | 1 | • | • | • | | • | • | • | • | • | •. | • | • | • |
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| Input Data Item | Meat insulation (yes or no) | Weight for ampty | Specification in case of adsorber | name | nomo | Kind of adsorbent bed (beuxite, alumina gel, silica gel, molecular | sieves, carbon, or others) | | Flow rate of fluid treated | Flow rate of fluid adsorbed | Volume of adsorbent bed | Regeneration method (open steam, closed steam, natural gas, flue gas or | closed vapor) | Operation_time_cycle | - Addoxperion and regeneration time | Design pressure and test prossure | Design temperature | Macertal of shells | Dimension of edsorbox (O.D.x.S.to.S. x W.T.) | Design indomnetion of fluid treated of the second second second second | - MyS concentration, CO2 concentration and MyO concentration | sulation (yes, or no) | TO THE TOTAL STATE OF THE PROPERTY OF THE PROP | Identification of drawing concorned | Cost information | " notal cost (U.S.C. C. Rp.) | - mithe, date and hoentification of involce concerned | meintenende history | |
|-----------------|-----------------------------|------------------|-----------------------------------|------------|------------|--|----------------------------|----------|----------------------------|-----------------------------|-------------------------|---|--|----------------------|-------------------------------------|-----------------------------------|--------------------|--------------------|--|--|--|-----------------------|--|-------------------------------------|------------------|------------------------------|---|---------------------|--|
| | Meat in | Weight | Special | Coods name | Model name | Kind o | 병 | Object | Flow xe | Flow za | Volume | Regenex | ਜੋਹ | Operation | - Addox | Design) | Design | Macerta | Lanomid | Design | O SZX | Hoat 12 | Weight | Identi | COST | TOT: | 1 740 | MALTE | |
| | 16 Meat in | 17 Weight | Specif | Coods | 2 Model | 3 Xdnd o | 7 | 4 Object | S FLOW YB | 6 Flow re | 7 Volume | Regener | TO' | 9 Operatio | - Adsort | 10 Design) | 11 Design | 12 Macenta | 13 Dimonal | 14 Design | O SEW I | 15 Koat in | 16 Weight | Identi | 00et | Total | Diff. I | MALINE | |
| , No. | | | 3 Special | . 1 . | . 2 Model | 3 Kind o | 3 | DESECT. | ar work | . 6 Flow re | . 7 Volume | Regener | TO COMPANY | . 9 Operation | - Adaoxi | | | | | | O SZX I | 1.5 Keat in | | 6 Identi | 7 Cost 3 | Total | 12 L | BMAINE | |
| Item No. | | | Troeds . | . 1 Coods | Model . | 3 XInd o | | 4 Object | 84 300 X | . 6 Flow xa | . volume | Regener | to de la companya de | . 9 Operation | - Adeox | | | | | | O SCA | Took Took | | zaenti. | 7 Cost | 200 | COTE I | aurem . | |

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Type of tank (bolted, riveted or weld) (liquid tank-cone roof, dome
                                                                                                                                                                                                                                                                                                                                                                                       Note that the control of the control
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Kind of tank (orude oil storage tank, natural gasoline storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tark, demulairies storage tark, defoament storage tark,
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Kind of work (inspection or repair)
                                                                 Name of executor (name of inspector or worker)
Kind of inspection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Coods name
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mitte, date and identification of report.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Dimension of tank (0.0. x height X W.T.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Meating or cooling coil (yes or no)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nominal capacity (evolume of tank)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          fuel storage tank or others)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 如此是我们是一个要要一个是是不是不到的是最好的。
                                                                                                                                                                                                                                                   Case Actachment XI)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Agitator information
                                                                                                                                                                                                                                                                                                                                        Kind of passage and so bally
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Name of manufacturer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Identification of tank
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Specification of tank
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          material of tank
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Name of tank
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Model name
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| Input Data Itom | Hear insulation (yes or no) | Wolght for ompty | identifeation of drawing concerned | Coot information | - Total cost (U.S. 5 & Rp.) | - Title, date and identification of invoice concerned | Maintenance history | Date of work | Kind of work (inspection or repair) | Name of executor (name of inspector or worker) | Kind of inspection | (see Attachmont XI) | Kind of repair | (see Attachment XIII) | Result of inspection | of repo | | identification of heat exchanger | Name of heat exchanger | Kind of hear exchanger (heater, evaporator, reboiler, cooler, | chiller, condenser or other heat exchanger) | Name of manufacturer | Specification of heat exchanger | | CONTRACTOR OF THE PROPERTY OF | langer (vertical or hor | (whell and tube type, fixed tube sheet type, floating heat | type, place type, place fin type, air cooled type or othe | S heatang | CARTO ALBORA (MATERIAL ALBORA) |
|-----------------|-----------------------------|------------------|------------------------------------|------------------|-----------------------------|---|---------------------|--------------|-------------------------------------|--|--------------------|---------------------|----------------|-----------------------|----------------------|---------|---|----------------------------------|------------------------|---|---|----------------------|---------------------------------|---|---|-------------------------|--|---|-----------|--------------------------------|
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| H 6 E | m | • | • | ٠ | • | ٠ | ٠ | • | • | • | | | ٠ | | | ÷ | 4 | • | i | · | | ě | i | | ¥ | ě | | | • | • |
| | н | | | | | | | | | | | | | | i | • | | | ÷ | ı | | 4 | | | | | | | | • |

| Heathad surface axes | Baxe and extended | Dimension of hear exchanger (o.D. x overall length | Material of heating surface | TUNE LINGUISATION CHUMBER X 0.0 X W.T. X HERY W. | THE PROPERTY OF THE PROPERTY O | Other design information | rollowing trams one tabulated property together with higher | lower temperature sides of heat exchanger | - Name of fluid | The second secon | - Design flow rate | Design Dressure | extragely and the second | - Inlet temperature | - Outlet temperature | rdencification of drawing concerned | Cost information | netal cost (U.S.G & Rp.) | - nitie, date and identification of invoice concerned | Maintenance history | Date of work | Xind of work (trappendion of repair) | Name of execution (name of limperior or worker) | xind of inspection | (moe Attachment XII) | Kind of repair | (800 Attachment XHII) | Result of inspection | mithe, date and identification of report |
|----------------------|-------------------|--|-----------------------------|--|--|--------------------------|---|---|-----------------|--|--------------------|-----------------|--------------------------|---------------------|----------------------|-------------------------------------|------------------|--------------------------|---|---------------------|--------------|--------------------------------------|---|--------------------|----------------------|----------------|-----------------------|----------------------|--|
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KARTENTABABLES EN GRENTES ESTERNOS

. Title. date and identification of invoice concerned - Total cost (U.S. S.s. RD.) Cost information ...

Maintenance, his story, per among which properties Date of two the property of th

Kind of work (inspection or repair)

Kind, of imaportion currently was properties to the control of the control of Name of executor (name of inspector or worker)

(see Attachment XI)

(see Attachment XXXX) Xind of gropality of the contract of the contr

nitle, date and identification of report. Result of inspection

Refrigerator

identification of refrigerator.

Name of refrigerator

Kind of refrigerator (compressor refrigerator or

absorption refrigerator)

Name of manufacturer

Specification in case of compressor refrigerator

Goods name of compressor

Type of refrigerator (two-stage system incorporating low-temperature booster pump, two-stage system in cascade form, or others) Model name of compressor

object of refrigeration (name of brine)

Name and charged weight of refrigerant

Flow rate, inlot temperature and outlet temperature of Nominal capacity (mthormal duty)

brino at evaporator

Compressor information

| Input Data Htem | od/L - | requin - | - Capacity | - Dischange pressure | Condenser information | - Name and flow rate of coolant | - Cooling surface area | Expansion valve and its model name | Reating surface area of evaporator | Heating surface area of intercooler | Installation area size (width x length) | notal waight for transportation | | Specialication in case of absorption refrigeration | Goods name | Model name | Type of refrigerator (ammonia-water system, water and lithium | bromide system or others) | Object of refrigeration (name of brine) | Name and obarged weight of refrigerant | Nominal capacity (thermal duty) | Flow rate, inlet temperature and outlet pressure of brine at | Service OVADOXACOX (LOSSIC OF CONSTRUCTOR OF PROFESSION) | Absorber, Andormations, San Contraction of the Cont | FRION Rate, Of GOOLing water | - Solution circulation rate ("pump capacity) | - Cooling surface area | Conexacor, information. | . Steam consumption | eenst edays business - | Condenses intermeter |
|-----------------|-----------|----------|------------|----------------------|-----------------------|---------------------------------|------------------------|------------------------------------|------------------------------------|-------------------------------------|---|---------------------------------|-----|--|------------|------------|---|---------------------------|---|--|---------------------------------|--|--|--|------------------------------|--|------------------------|-------------------------|---------------------|------------------------|----------------------|
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| mean mean dupper | - Name and flow rate of coolent | - Cooling surface area | Expansion valve and its model name | Haseing surface area of evaporator | Meaning surface area of Dear exchanger of the contract and the contract of the | Installaction area saide (which x length) | moral weight for transporterion | repetitionation of drawing concerned | COSC. AMSONMACTOR OF THE PROPERTY OF THE PROPE | - notal cost (0.5. S. Ro.) | - miche, date and identification of involce conderned | Maintenance history | Date of work | xing of work (inspection or repair) | Neme or execution (heme of inspection or conker) | King of inspection | (see Attachment XI 6 XII) | Kind of repear | (see Anteohment Atta | Result of inspection | mucho, date and idencialisation of report | | pump and its prime mover | ound (excluding pumps for refrigerator or to: | By Brothern) | reencification of pump | Name of pump | Kind of pump (erude oil transportation, corrosion) | food, glycol circulation, fuel food or others! | Name of manufacturer | special cation of pump | 1 Coods name | |
|------------------|---------------------------------|------------------------|------------------------------------|------------------------------------|--|---|---------------------------------|--------------------------------------|--|----------------------------|---|---------------------|--------------|-------------------------------------|--|--------------------|---------------------------|----------------|----------------------|----------------------|---|---|--------------------------|---|--------------|------------------------|--------------|--|--|----------------------|------------------------|--------------|---|
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| Keem Me. | *1 | • | • | • | • | • | • | • | o t | | • | - u | | | | | _ | | | | | | | | | | • | • | | | | • | • |
| - | ٠ | | | • | • | • | • | • | • | • | • | • | • | | • | • | - | | | | | | | | | | • | | • | | | | • |

Model name

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Item No.

| Type of pump (centrifugal, axial flow, reciprocating, volumetric rotary, regenerative or others) | (number of stages or plungers) | object of pumping | rlow rate (*nominal capacity) | notal difference head | Design discharge pressure and design temperature | Bore size and atroke length in case of reciprocating pump | WPSH available | poeds | Olmension of pump (width x length x height) | Material of casing and impeller or plunger | Type of seal (gland packing, single mechanical or other) | Name of flushing or sealing fluid | Water cooling (yes or no) | Driving connection | Direct balt or gear box | Reduction ratedo | Safety yalve (yes or no) | WOLDER CON GEORGE | identificaction of drawing concerned | CONT. LINCONDACTION OF THE PARTY OF THE PART | TOCAL COST (CISS STEENS OF STEENS OF STEENS OF STEENS | rittle, date and identification of invoice concerned | Mainconance history | DATE OF WORK AND SEE SEE SEE SEE SEE SEE SEE SEE SEE SE | | Name of executor (name of inapector of worker) | | ・・ (近日末、光本書書の名を見るできます。 |
|--|--------------------------------|-------------------|-------------------------------|-----------------------|--|---|----------------|-------|---|--|--|-----------------------------------|---------------------------|--------------------|-------------------------|------------------|--------------------------|-------------------|--------------------------------------|--|---|--|---------------------|---|----|--|---|------------------------|
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| 37.7. | | | ¥ 8 | ž v . | ٥ ، | Ø . | 6 | | 0 11 | 12 M | | Z 77 | 1.5 WZ | δ 9T | • | • | | | ¥ | 7 7 O | | | × (0) | 4 | 74 | | | |

| ĸ | 5 0 | พ์ 🤺 | Kind of repair (*** Attachment XIII) |
|-----|------------|--------|--|
| • | | \$ 65° | Result of inspection and report fittle, date and identification of report |
| | | | The second of th |
| ``` | | 1 % 2 | Prime_mover_ Identification_of prime mover |
| | | · · | Name of bridge movek |
| , | | | Kind of prime mover (electric motor, internal computation transfer of prime mover) |
| 2" | | ٠. | steam engine of gas, thinking of |
| | 4 | ٠ | Name of manufacturer |
| • | ٠, | ٠. | special control in control of the co |
| , | • | ,-i | Cook a man a |
| • | , , | ~ | ACCOUNT OF THE PROPERTY OF THE |
| | • | ď | Type of electric motor (horizontal or vertical) |
| | • | • | (induction, synchronous or other) |
| | • | 4 | Object of electric motor |
| | | 'n | Nominal capacity (* output) |
| | | - | Speeds |
| | | - | Voltago |
| | | œ | Current |
| • | | ٠. | ्राष्ट्र । स्टब्स् स्टब्स् |
| • | | я | Wedleandy |
| • | • | т. | Enclosure |
| | , , | 12 | Name of lube ofl |
| • | | ੇ ਜ਼ | Dimension of motor (0.0. x oversum remains |
| | | 74 | woight sombustion engine or steam engine |
| · • | • | en. | מספטרווויסטמיסט רם פספס סא דווונפיוויטי |
| | | • | Goods name |
| | • | • | Model name or steam engine or steam engine |
| | • | | Type of engine (diemet engine) (number of cylinders) |
| | | | |

| d Objective of engine | 5 Output | - Continuous and maximum | poods | boxe size and stroke length | Name of fuel or steam | Fuel consumption or steam consumption | Dimension of engine (width x length x height) | Name of lube of l | Cooling method | Accessory | Weight | Specification in case of gas turbine | Goods name | Model in the second of the sec | Type of gas turbine (single shaft or two shafts) | (open cycle or closed cycle) | Objective of gas turbine and a second | Selection of the select | - Comtinuous and maximum | Construction the same and the property of the second of th | | Puel Consumption Consumption | STATE OF STA | Name of lube of L | SASSING TO SECURITION SECURITICAL SECURITION SECURITION SECURITION SECURITION SECURITION SECURITICAL SECURITION SECURITION SECURITION SECURITION SECURITION SECURITICAL SECURITION SECURITICAL SECURITION SECURITICAL SECURITICAL SECURITICAL SECURITICAL SECURITICAL SECURITICAL SECURITICAL | Reduction goar, ratio | Dimension of gas turbine (width x length x height) | Water Comment of the | Other description |
|-----------------------|----------|--------------------------|-------|-----------------------------|-----------------------|---------------------------------------|---|-------------------|----------------|-----------|--------|--------------------------------------|------------|--|--|------------------------------|---------------------------------------|--|--------------------------|--|----|------------------------------|--|-------------------|---|-----------------------|--|---|-------------------|
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Input Data Itom

Item No.

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Kind of compressor (natural gas transportation, gas circulation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Type of compressor (centrifugal, axial flow, reciprocating or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   volumetric rotary) (number of stages or plungers)
                                                   mittle date and identification of involce concerned
                                                                                                                                                                                                                                                                                                                                      Compressor (excluding compressors for retrigerator)
                                                                                                                                                                                                                                                                                                                                                                                                                          for regeneration of adsorbent or others)
                                                                                                                                                                                                  Name of executor (name of inspector or worker)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Dosign pressure and design temperature
                                                                                                                                                                                                                                                                              mithe, date and identification of report
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       - Succion side and discharge side
                                                                                               Date of work (inspection or repair)
Identification of drawing concerned
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Nominal capacity (-flow rate)
                                                                                                                                                                                                                                                                                                                           Compressor and its prime mover
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rocal differencial pressure
                                                                                                                                                                                                                                                                                                                                                                      identification of compressor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Specification of compressor
                                          - Total cost (U.S. 5 & Rp.)
                                                                                                                                                                                                                            (see Actachment XIII)
                                                                                                                                                                                               (see Attachment XII)
Kind of repair
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      object of compression
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Name of manufacturer
                                                                                                                                                                                                                                                                  Result of inspection
                                                                                    Mainrenance history
                                                                                                                                                                                                                                                                                                                                                                                              Name of compressor
                                                                                                                                                                             Kind of inspection
                           Cont information
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Goods name
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Bore size and stroke length in case of reciprocating compressor

| | peeds | Dimension of compressor (width x length x height) | Material of casing and blade or plunger | Type of seal and name of sealing fluid | Aftercooler (yes or no) | Accumulator (yes or no) | Driving connection | - Derect, belt or gear box | - reduction ratio | Safoty valve | Weight | Identification of drawing concerned | Cost information | - Total cost (U.S. & Rp.) | - Title, date and identification of invoice concerned | Maintenance history | Date of work | ò | Name of executor (name of inspector or worker) | Kind of inspection | SCHOOL CHARLES TO XXIII | Supplied of water the supplied of the supplied | ALING OF MOUNT (PASSMERTON AND CALLES) | See Actachment XHHH) | Result of inspection | Title. Date and identification of renort | Transfer extremely the section of th | | Value mover | Data input for the prime mover information is made | socialist to thems and these numbers as described to | אוויי אישטעופטרינט ווע אַא אוויייייייייייייייייייייייייייייייי | |
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Generator and its prime mover

igentification of generator

Cenaratory Frank Profile Control

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Nominal capacity of the state o
                                                                                                                                                                                                                                                           Names of manufacturer. A supplied that he passed them and use the backs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         - mithe, date and identification of involce concerned
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Dimension of generator (width x length x height)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Current Constant to the constant of the consta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Maintenance history
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| Name of executor (name of inapector or worker) | Kind of inspection | (Boo Attachment XXI) | Kind of repair | (soo Attachment XIII) | Result of inspection | rithe, date and identification of report | Prime movex | Data input for the prime mover information is made according to items and item numbers as described in $\rm I^{-7-2}$, replacing it by $\rm I^{-9-2}$. | Ten or blower and its prime mover | Fan or blower (excluding air blowers for gas turbine, for fired | heater or for air cooled heat exchanger> | identification of fan or blower | Name of fan or blower | Xind of fan or blower (ventilation, air fan for cooling tower, gas | transportation or other) | Name of menufacturer | Special cartion of fan or blower | Coods name | Modelly nemerates and alegans in the | Type of farmornblower (centrifugal, axial flow, volumetric rotary | C. T. A. W. S. T. W. S. C. W. | Object of blowing | Nominal capacity ("flow rate) | Differential head | Design, pressure of the second and second an | * grotton side and discharge side | DEBLOY RENCERATED |
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| Speed Dimension of ten or blower Natural of ten or blode Natural of ten or blode Driving connection Priving connection Weight Weight carlo | cost information cost information - notal cost (U.S. \$ & RP.) - notal cost (U.S. \$ & RP.) - nitle, date and identification of invoice concerned - nitle, date and identification of invoice concerned 1 bare of work (inspection or repair) 2 kind of work (inspection of inspector or worker) 3 Name of oxecutor (name of inspector or worker) | | prime mover Data input for the prime mover information is made according to items and item numbers as described in I-7-2, replacing to items and item numbers as described in I-7-2, replacing to items and item numbers as described in I-7-2, replacing to items and item numbers as described in I-7-2, replacing | Agitator and its prime mover Agitator or mixer Identification of agitator Name of agitator Xind of agitator (mixer for dissolution of additives or other) |
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| 이용 경험된 기업 | | | | 4 A M |
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| Name of manufacturer | Specification of agitator | Goods name | Model namo | Type of agitator (horizontal or vertical) (paddle, propeller, turbine | or other | Object of agitation (ename of solvent) | Orivor output | Volume of vessel or tenk equipped with aditator | Number of agitator in the same vessel or tank | Identification of vessel or tank equipped with agitator | Dosign information of fluid agitated | - Name, density, and concentration of solute | - Tampersture of solvent | Agitator position in vessel | Dimension of agitator (agitator diameter x shaft length) | Material of egitator | Number of baffles | Type of shaft seal, and name of sealing liquid | Weight of adultator | Identification of drawing concerned | COST LINGUISMACHION | - notal cost (give, v a No.) | - Titie, date and identification of involce concerned | MAINTENANCE MISTORY | Date of work | Xind of work (inspection or repair) | Newton and accountable for the contract of the section of the sect | Xind of inspection | (see Attachment XII) | CHHIX PREPARENT SEEN TO DUTX | |
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ritle, date and identification of report

| - | tion is made according | CONTRACTOR CONTRACTOR CONTRACTOR | | | | | chifugal separator | | | | | | | | ated, displacement volume or | | | | | | | | | | | | |
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| | perimensover, the transfer of prime mover information is made according | CONTRACTOR OF CO | こうか かいかん こうかいけい かいかんしゅうかん 大きなない かんしょう しょうしょう かいかい カンドスカー はいけん はんしょう しょうしょう かんしょう しょうしょう かんしょう かんしょう かんしょう かんしょう かんしょう かんしょう かんしょう しゅうしゅう しゅうしゅうしゅう しゅうしゅうしゅう しゅうしゅう しゅう | Other machinery and ite prime mover | Ocher machinery | reently cation of machinery | schinery | Kind of machinery (vacuum pump, | or others) | Name of menufacturer | rjon | Q | 9 | | Object of treatment | sepacitey (* filow reserved a | or) | | ornesett. | Design temperature | Design información or nicha contra Co | - prossure and temperature | - Name and concentration of impuritude | CHARGE X HAPPIN X HAPPIN X HOLDEROWIC | 4 | | Other description |
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| Input Data Item | Flare system | identification of flare system | Name of flare system | Kind of flare system (ground flare or elevated flare) | Name of manufacturer | Specification of flare stack | Size of flare tip and height of flare stack | Name, flow rate and supply pressure of disposal gas | Flare lighting method | Size and mesh of flame arrester | Flare seed drum (yes or no) | Knockout drum (yes or no) | Name of gas for purge | Inside diameter, and length of disposal gas pipeline between | gas supply and flaxs stack | Disposal gas information | - Average molecular voight | * TOTAL STEEN AND AND AND AND AND AND AND AND AND AN | - Meat of combustion per unit weight | identification of drawing concerned on the contract of the con | COST MINICORNA TION BY CONTRACTOR COME CONTRACTOR CONTR | - Gotal Cost (Cost Sate No.) See at the cost of the c | - Attle date and identification of invoice concerned | Maintenance Districtory, or progression of the progression of | DATECONOMIKE | Kinde of works (inspection or repair) | Name of secontor (name of inspector or worker) | Kind of the pection great and the second sec | (see Attachment XIII) | Xind of repaix (xillx) | |
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Result of inspection
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PIPELINE INFORMATION

Common identification item Unit name

Province name (Jambi, S. Sumatra, W. Sumatra, Riau, Bongkulu or

Lumpung)

Miold office name (Bajubang or Prabumulih)

Field name at pipeline end point

Name of station or terminal at pipeline end point

Field name at pipeline starting point

Name of well or station at pipoline starting point

identification of pipeline

Date for installation of pipeline

Xind of pipeline

(flow line; from well to station,

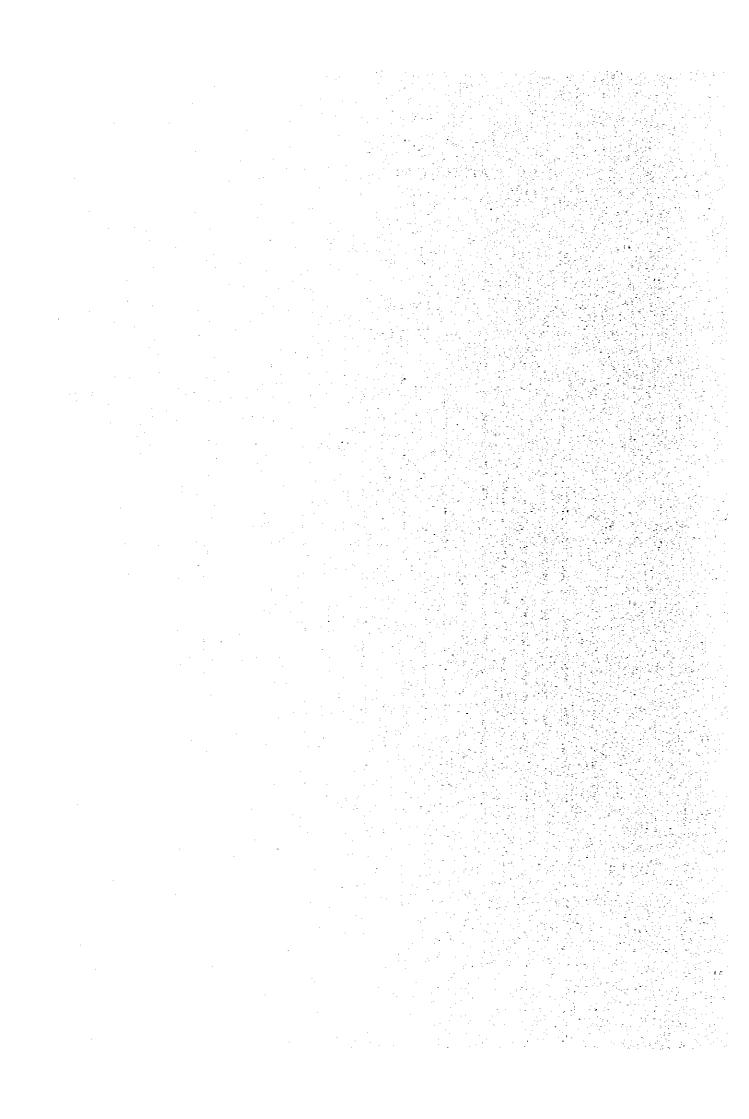
gathering or transfer line, from station to station, trunk line, from station to final destination - final storage tank, refinery, direct shipment etc., or other)

Object of transportation (gas, oil, water etc.)

| Specification of pipeline Kind of line pipe (regular, high test, unlined and coment Lined, asbestos—coment, plastic, aluminum etc.) Lined, asbestos—coment, plastic, aluminum etc.) Lined, asbestos—coment, plastic, aluminum etc.) Grade of pipe (Example, API Six-52 or ASTM A53-B) Grade of pipe (Example, API Six-52 or ASTM A53-B) Length of pipeline Unit length and weight of line pipe Wydrostatic cast pressure Rydrostatic cast pressure Rydrostatic cast pressure Thread number per inch in case of threaded line pipe Thange rating and facing in case of using flanges Flange rating and facing in case of using flanges (type of facing; flat face, raised face, ring type joint, otc.) | Valve information - Type of valve (gate, ball, plug, globe, butterfly, check atc.) - Size, rating and connection (merewed or flanged) - Coating information Inwulation information Correction inhibition information | identification of drawing for pipoline layout | Contintormation Cout for material (U.S.S & Rp.) Cout for installation (U.S.S & Rp.) Total cost (U.S.S & Rp.) Title, date and identification of invoice |
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| Input Data Itom | Contract document | - Title, date and identification of contract document | Maintenauce history | Date of work | Kind of work (inspection or repair) | Name of executor (name of inapactor or worker) | Position and pipolino length for work | Kind of inspection (visual inspection, hammering test, loak test, | hydrostatic test, corrosion test, thickness measurement, | lighted penetrant inspection, ultrasonic inspection, | radiographic inspection, ecc.) | Xind of repair (cleaning, replacement, improvement of material, | reneval, correction inhibitation, etc.) | Results of inspection (inspect and repair in next turnaround, | replace corrosion inhibitor, renew pipe, etc.) | TATLE, date and Adentification of report | Title, date and identification of invoice | Title, date and identification of contract document | The second of th |
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ATTACHMENT



ATTACHMENT I

STANDARD CLASSIFICATION OF SITE DESCRIPTION

- Tidal area
- Swamp
- _ Jungle
- Open area with forest

The state of the s

- Open area with natural grass
- pesert
- Hill with jungle
- Hill with forest
- Hill with natural grass

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and the season of the

- Mountain (gentle)
- Mountain (steep)
- Glacial area

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in about the Book

ATTACHHENT II LIST OF FIELD NAME

I Palembang Complex

- 1 South Palembang Complex
 - Prabumulih Center
 - Prabumulih West
 - Lembak
 - Payakabung
 - Talang Jimar
 - Tanjung Tiga West
 - Tanjung Tiga East
 - Tanjung Miring West
 - Tanjung Hiring East
 - Gunung Kemala
 - Benuang
 - Benakat East
 - Limau West-MC.
 - Limau Bast-5A.
 - Tanjung Lontar
 - Suban Jeriji
 - Batu Keras
 - Sungai Taham
 - Kuang
 - Pagardewa
 - Prabumenang
 - Meraksa
 - Kikim
 - Ogan Block
 - Lubuk
 - Karangan

| - Belimbing | robang Cospiex |
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| - Beringing | - Frakusalik Contor |
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| | nings county |
| Middle Palembang Complex | -: १७७६४४३७ |
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| - Babat | - Links West-188. |
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| - Suban Burung | il trop andre - |
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| - Kluang North | ស្រស់ខេទី វិល ស្រាប់សិ ម |
| - Lebong | with Stand |
| - Bentayan | សម្រាប់ មិនសម្រាប់ ។ សមាល់ មិនសម្រាប់ ។ |
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II Jambi Area

- Bajubang
- Tempino
- Kenali Asam
- Kenali Asam West

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- Kasang
- Sungai Gelam
- Pijoan
- setiti
- Meruo Senami
- Sungai Lilin
- Senawar
- Bayung Lincir
- Sengeti
- Arang² West

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CINT PERSON ATTACHMENT III

LIST OF NUMBER OF WELL BY FIELDS

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Number of wells by fields is listed bellow and these will be abbreviated or named as instructed by PERTAMINA in time for design work of data bank system.

| · · · · · · · · · · · · · · · · · · · | |
|--|---------------------|
| Number of Wells | Field Name |
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| ····································· | Lembak |
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| neste i di | Tanjung Tiga West |
| g-2014). | Tanjung Tiga East |
| 10 | Tanjung Miring West |
| 9 262500 200 p | Tanjung Miring Bast |
| 52 | Gunung Kemala |
| 17. | Benuang |
| in the state of th | East Benakat |
| 45 (45) (100 (47 | Limau West-MC |
| | Limau East-5A |
| 201 (2) 1000 000000 0000000000000000000000000 | Belimbing |
| n na garanta an | Tanjung Lontar |
| —————————————————————————————————————— | Suban Jeriji |
| 52 (2000) 3000 | Batu Keras |
| en e | Sungai Taham |

| Number of Wells | Pield Name |
|-----------------|------------------------|
| 16 | g secutions vista |
| - | Tasim |
| 4 | La Pagardewa ka managa |
| 2 | Prabumenang |
| - | Meraksa . |
| | Kikim |
| 20 | Ógan Block |
| 1 | Lubuk Rukam |
| 8 | Karangan |
| 1 | Beringin |
| 1 | Sukacinta |
| 13 | Betung |
| 1 | Kedaton |
| 1.4 | Musi |
| nama, | Lampung |
| | Mangunjaya |
| - | Babat |
| 24 | Kukui |
| - . | Keban |
| - | Suban Burung, |
| - | Kluang |
| - | Kluang North |
| - | Lebong |
| - | Bentayan |
| 124 | Bajubang |
| 175 | Tempino |
| | |

| lumber of Walls | Field Name |
|-----------------|------------------|
| 241 | Kenali Asam |
| | Kenali Asam West |
| | Kasang |
| 4 | Sungai Gelam |
| | Pijoan |
| 30 | Setiti |
| | Neruo Senami |
| | Sungai Lilin |
| | Senawar |
| | Bayung Lincir |
| 11 | Şengeti |
| | Arang 2 West |

| Number of Wells | Field Name |
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| - | Kukui ÇŢ |
| | Keban 🤌 |
| - | Suban Burung |
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| - . | Kluang North |
| | Lebong |
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| 124 | Bajubang |
| 175 | Tempino |
| | |

| Number of Wells | Field Name |
|---------------------------------------|------------------|
| 241 | Kenali Asam |
| | Kenali Asam West |
| | Kasang |
| <u>.</u> | Sungai Gelam |
| | Pijoan |
| 30 | Setiti |
| _ | Neruo Senami |
| 11 | Sungai Lilin |
| | Senawar |
| • • • • • • • • • • • • • • • • • • • | Bayung Lincir |
| | Sengeti |
| 11 | Arang 2 West |
| | |

ATTACHMENT IV

- Kasai Formation
- Muara Formation
- Air Benakat Formation
- Gumai Formation
- Batu Raja Pormation
- Talang Akar Formation
 - Lahat Formation
 - Basement

TENTOTECH LILL AND ATTACHMENT V LIST OF RESERVOIR NAME

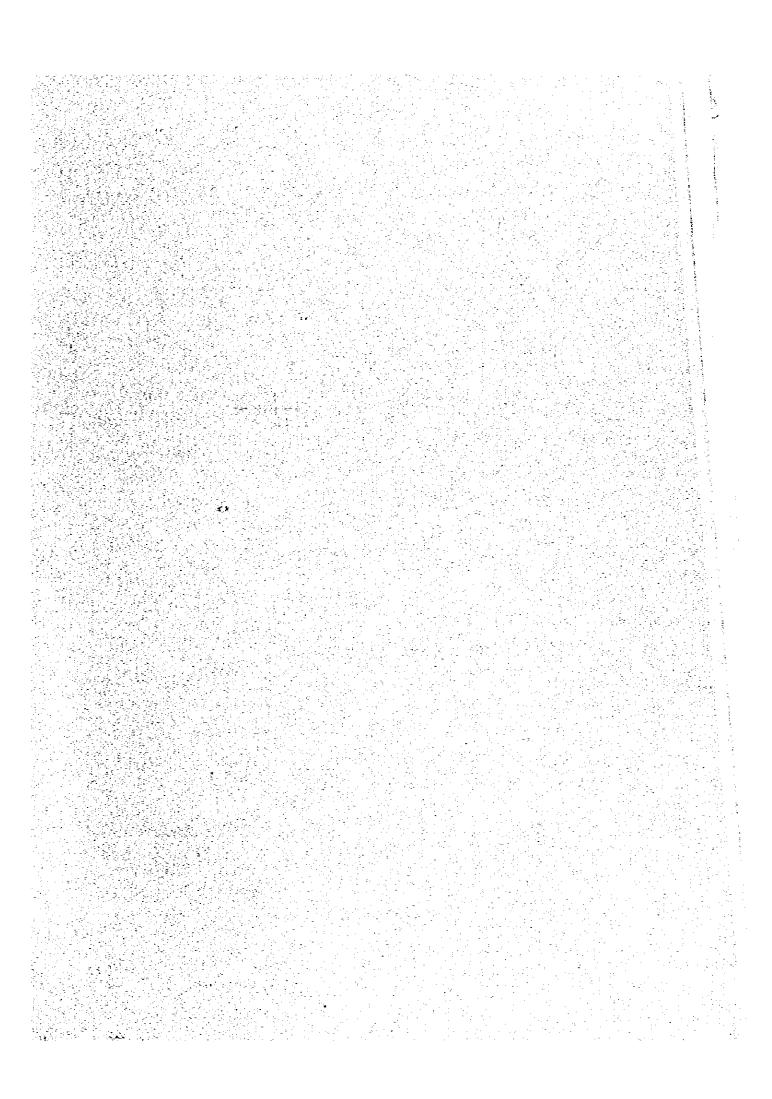
| Pield Name | Reservoir Name |
|--|---|
| prabumulih West | A, B, H, K, K2, N, R, R1, R5-6 |
| Tarang Jimar West | a, ABC, DEPH, KLM, OQR, ST |
| Tarang Jimar Midle | a, ABC, DEFH, KLM, OQR, ST |
| Tarang Jimar East | |
| The state of each term of the state of the s | agal, ABC Block III, agal ABC Block III, |
| Tanjung Tiga West | DEP Block IV, H Block I, B Block |
| 1 | L Block IV |
| Tanjung Tiga Bast | agal ABC Block I, agal ABC Block II, agal ABC Block III, DEP Block I, DEP Block III, H Block I, H Block II, H Block III |
| Tanjung Miring Kest | A30 (BRF), C1-2, D1, G1, K1 |
| Consider Miring Bas | A, B, C, D |
| SS C-ASA H (SS CA) Benuang XI SOOFF (B , LEE) | D1, G, Y |
| East Benakat | A, A1, A2, B, O, P, Q, R |

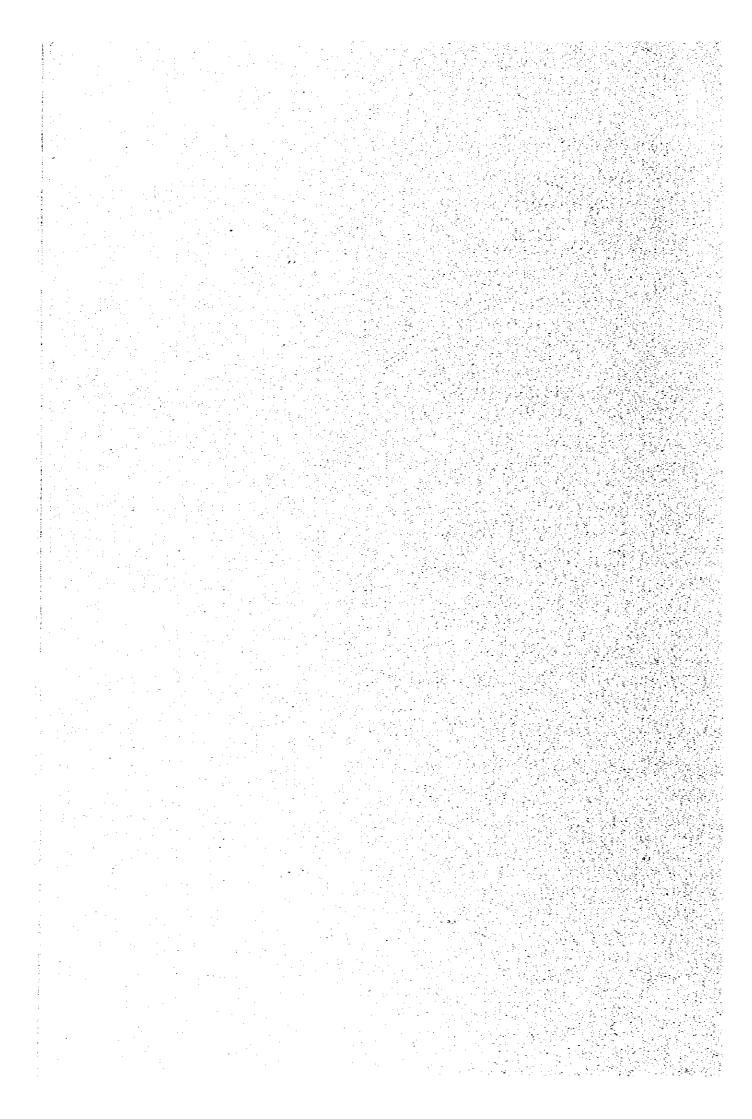
| Field Name | Réservoir Name |
|--------------------------------|---|
| Belimbing | R3 Block I, R3 Block III, R3Block IV, R5 Block I, R5 Block III, R5 Block IV, S Block I, S Block III, S Block IV, µ Block I, µ Block III, µ Block IV, W Block I, W Block III, W Block IV, X0 Block I, X0 Block III, X0 Block IV |
| Organ Block | a0, B |
| Karangan | A3, B, C2-3 |
| Limau Niru | S, W1 South Plank, W1 West Plank, W1 North Plank, W3 South Plank, W3 West Flank, W3 North Plank, W42 South Plank, W42 West & North Plank, X0 South Flank, X0 West & North Plank, X0 Bast Plank, X1 South Plank, X1 West & North Plank, X2 South Plank, X2 West & North Plank, X3 South Plank, X3 West & North Plank, X1 West & North Plank, X1 West & North Plank, X2 West & North Plank, |
| Limau West | R ₄ LMC-18, R ₅ LMC-8, S L5A-53, S North Plank, S L5A-23, T LMC-8, µ, W ₁ Block I & II, W ₁ Block VI & VII, W ₃ Block III, W ₃ Block VI & VII, W ₄ Block VI & VII, X ₁₋₂ LMC-38, X ₃ , Y ₁ LMC-13 |
| Limau Tengah (Limau Center) | al (BRF), Q2(BRF), R15, R2 LMC-47, R4 L5A-66, R4 L5A-89, R5-52 L5A-128.89, R5-52 LMC-24, S L5A-160, S LMC-44, S Bast Flank, S south MC-22, S L5A-128, W1 L5A-102, W3 Block VIII, W3 Block IX North Flank, W3 Block IX South Flank, W3 Block IX Northeast Flank, W42 Northeas Flank, W42 South Flank, X0-X1, X0, X2, X3, Y1 |

| Field Name | Reservoir Name |
|-------------------------------------|---|
| Limau East Seksi "p" | R36-37 L5A-81, R36-37 L5A-103, R36-37 Sev, Timur L5A-145, R32 Seb Timur F-1, R32 Seb Barat F-1, R4 L5A-69, R4 L5A-49, R4 L5A-137, R5, R5-52, R9, S L5A-31, S L5A-73, W1 L5A-85, X0, X1, X2, X3, BRF(Q) L5A-136, BRF(Q) L5A-85 Lap.I, BRF(Q) L5A-85. Lap.II, BRF(Q) |
| | Q ₀ (BRF), Q ₁ , Q ₂ , R ₃₂₋₃₃ L5A-26, R ₃₂₋₃₃ South Plank, R ₃₇ North Flank, R ₃₇ East Flank, R ₃₆₋₃₇ , R ₄ , R ₅₂₋₅₃ L5A-83, R ₈ , |
| Limau Bast Seksi "Q" Area L5A-51 | R12-5, R32-33 Block Sembul, R32-33 West Plank, R32-33 East Flank, R52-53 Block Sembul, R52-53 West Plank, |
| Limau Bast Seksi "Q" Area LSA-1 | 08 R ₁₂ , R ₃₂ -33, R ₆ |
| West Guang Kemara | H, H ₁ , H ₂ , J, J ₁ , J ₂ , K, K ₁ , K ₂ , K ₃ , L, L ₁ , L ₂ , L ₃ , M, M ₁ , N, N ₁ , N ₂ , N ₃ , O West, O East, P, P ₁ , P ₂ , P _{2a} , P _{2b} , P _{2c} , P ₃ , P ₄ , P ₅ , Q, Q ₁ , Q ₂ , Q ₃ , V |

| Field Name | Reservoir Name |
|---------------------|---|
| Guang Kemara Center | H, H ₁ South, H ₁ North, H ₂ South, H ₂ North, J, J ₁ South, J ₁ North, J ₂ South, J ₂ North, K, K ₁ South, K ₁ North, K ₂ South, K ₂ North, K ₃ South, K ₃ North, L, L ₁ South, L ₁ North, L ₂ South, L ₂ North, L ₃ South, L ₃ North, L ₂ South, N ₂ North, N ₁ North, N ₁ North, N ₂ South, N ₂ North, N ₃ South, N ₃ North, O South, O North, P ₁ South, P ₁ North, P _{2a} South, P _{2a} North, P ₃ South, P _{2b} North, P _{2c} South, P _{2c} North, P ₃ South, P ₃ North, P ₄ South, P ₄ North, P ₅ South, P ₅ North, Q, Q ₁ South, Q ₁ North, Q ₂ South, Q ₂ North, Q ₃ South, Q ₃ North, V |
| East Guang Kemara | H, H ₁ , H ₂ , J, J ₁ , J ₂ , K, K ₁ , K ₂ , K ₃ , L, L ₁ , L ₂ , L ₃ , M, M ₁ , N, N ₁ , N ₂ , N ₃ , O, P, P ₁ , P ₂ , P _{2a} , P _{2b} , P _{2c} , P ₃ , P ₄ , P ₅ , Q, Q ₁ , Q ₂ , V |

Remarks, The list will be completed by further information provided by PERTAMINA





ATTACHMENT VI

STANDARD CLASSIFICATION OF CORE ANALYSIS

Kind of Analysis

- Porosity
- Permeability
- Fluid saturation
- Capillary test
- Water permeability
- Pormation resistivity
- Acoustic velocity
 - Water flood test
 - Basic flood test
 - Water flood suscepitibility test
 - Water-oil relative permeability test
 - Water flood on core containing trapped gas
 - Residual gas test
 - Relative permeability general
 - Gas-oil relative permeability test
 - Gas-water relative permeability test
 - Relative permeability calculated from pore

size distribution

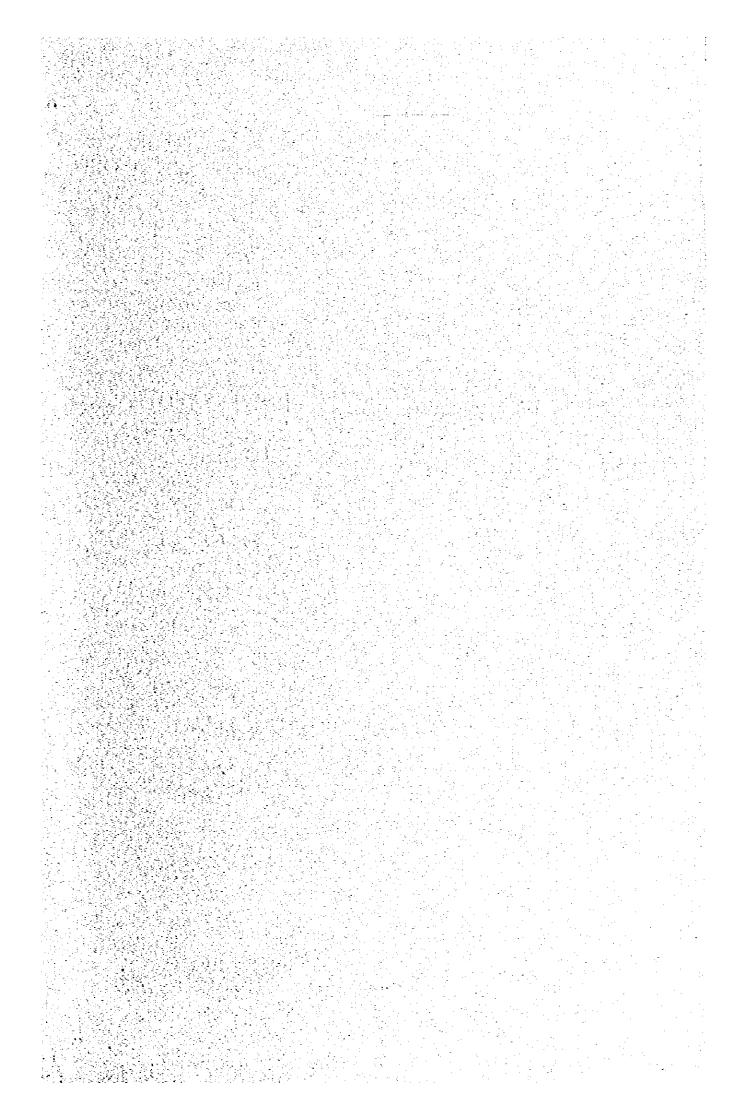
- Thermal recovery test (hot water flood test, steam flood test, steam soak test, fire tube test)
- Petrographic studies
 - Wetability studies
 - Cap-rock analysis
 - Determination of hydrated clay content
 - Overburden permeability and porosity test
 - Rock compressibility test
 - Sive analysis
 - Surface and interfacial tension test

ATTACHMENT VII STANDARD CLASSIFICATION OF OIL RESERVOIR PVT ANALYSIS

- kind of Analysis - Pressure-volume relations of reservoir fluid at reservoir temperature, including saturation pressure determination, compressibility of oil above saturation pressure and two phase volumes below saturation pressure.
 - Differential vaporization of reservoir fluid at reservoir temperature; and presentation of gas solubility and oil shrinkage data.
 - Determination of specific gravity and compressibility factor of liberated gas at all points on differential vaporization and determination of density of the liquid phase.
 - Viscosity of reservoir fluid at reservoir temperature and pressures from above reservoir pressure to atmospheric pressure.
 - Separator tests at four single-stage separator pressures and laboratory temperature to determine the effects of separator pressure on solution gas-oil ratio, formation volume factor and stock tank oil gravity.
 - Composition of separator gases from above separator tests to determine the effect of separator pressure and temperature on separator gas composition, GPM, heating value and specific gravity.
 - Fractional distillation through hexanes of reservoir fluid including supplemental determinations for nitrogen, carbon dioxide and hydrogen sulfide by chromatography.
 Nolecular weight and density of heptanes and heavier fraction are included.
 - Single-stage separator test in addition to above separator tests.

- Multi-stage separator test including determination of separator volume factors at each stage of separation.
- Compositional analysis of separator oil and gas, and calculation of hydrocarbon composition of recombined reservoir fluid (This would be applied only for recombined sample)

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ATTACHMENT VIII

STANDARD CLASSIFICATION OF CONDENSATE RESERVOIR PVT ANALYSIS

Kind of Analysis

- Compositional analysis of separator vapor and liquid, and recombination to any specified gas/liquid ratio.
- Dew-point pressure determination and pressure-volume relations of recombined reservoir fluid at reservoir temperature.
- Compressibility factor of reservoir fluid at reservoir temperature between reservoir pressure and dew-point pressure.
- Depletion study of reservoir fluid, including determination of hydrocarbon composition of reservoir vapor at dew-point pressure and several succeeding pressures during pressure depletion, experimental compressibility factors, and produced well stream volumes.
- Presentation of above results in terms of total liquid content (GPM) per million standard cubic feet of initial reservoir fluid.
- Presentation of above results in terms of liquid products and gas recoverable by normal temperature, single or two-stage separation per million standard cubic feet of initial reservoir fluid.
- Retrograde liquid accumulation in reservoir determined at pressure investigated in above depletion study.

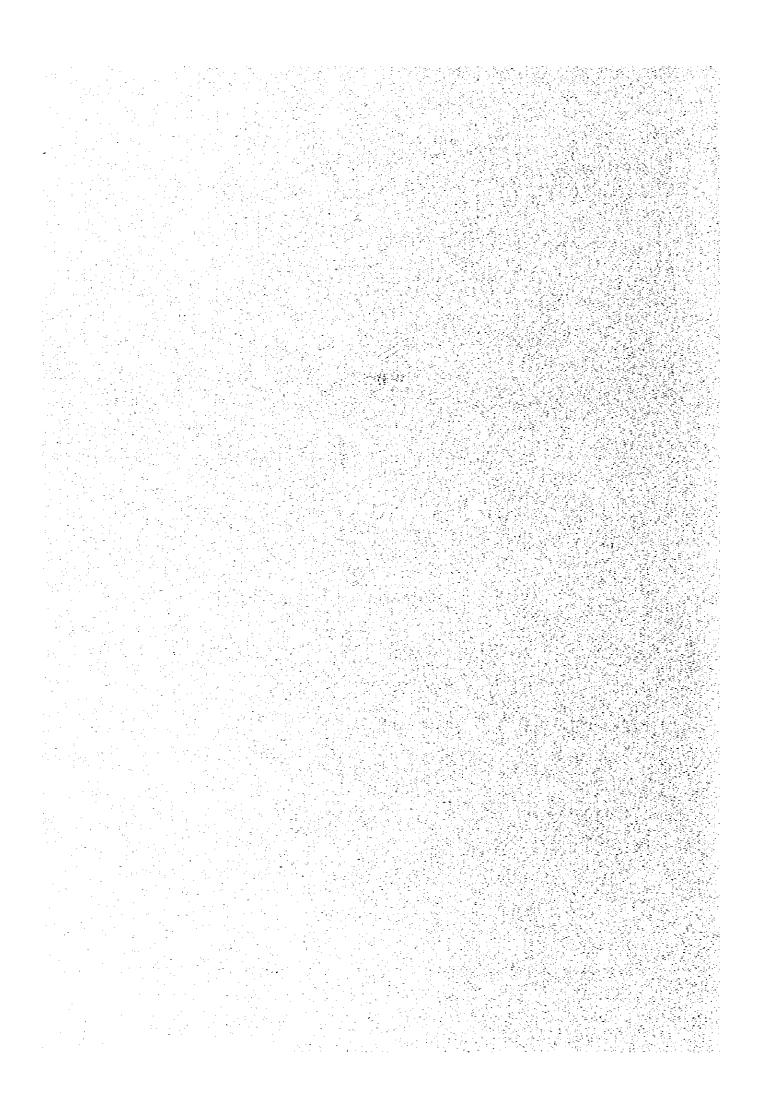
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| | | 발매되어서 되는 사람들이 하지 않았던 그래 되었다. |
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| | 되는 전한 사고 이 그는 그 그리고 하다면 하는 것을 받았다. | |
| | 경기 시민이 영화 이동하는 사람들은 소리 학교에게 당했다. | |
| | 그는 이 이 시설 그 그님 그 글 마리에 얼굴 함께 생각했다. | |
| | 그림을 모르는 것은 이는 그는 그들은 장말이 있을 만할 | |
| | 그리아는 존개에서는 이번 경우를 하고 있다. 나라 하나 아름 | |
| | 네 사용 전 여러 남자들이 말하는 사용 나는 모든 모든 사용을 | TL 차인용하는 소면으로 급성하는 그렇게 함께 함께 있는 것이다. |
| | 그는 기업을 하고 있다. 이 이 회사를 가는 내내가 있고 하면서 됐다면 했다. | 그는 사고 있다면 하는 사람들은 경우를 가게 되었다. |
| | | |
| | 그 이자를 보는 사람 배상이 되지 않아 끝을 잃었어요? | |
| | 그리고 하는 이는 지하는 여자들은 사람들에게 살아갔다. | |
| | 그리 크리 이 없는 것 같은 그리 시간 이 지금(현대) 생각 없는 모든 | 가입니다. 하는 하나는 것이 하는 것이 같아 하는 것이 없는 것이 되었다는 것이 되었다는 것이 없었다. |
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| | - 불교실하다 마른 6 M (B.) 하는 10 (B.) - 12 (B.) 10 (B.) 12 (B.) | |
| | 마루 하이 이 보면 중요 밝힌다는 영화를 만입하면 좀 그렇다. | |
| | 그렇으라 되어요? 전 말은 사회장 보호 분장 다른 살아야? | |
| | 그릇일이 가지는 데이 아니라 당시 경기를 잃다면 다른다. | |
| | 그렇게 살아보다 가는 게 하나 아름이 맛있으라는 그만하였다 | |
| | | "이 어린 이 경험이 있는 사람들은 전환 등학자를 받아 함께 보고 있다면 다른 것이다. "이 어린 이 전 전 기계를 보고 있는 것이다. "이 기계를 보고 있는 것이다." (1912년 1일 기계를 보고 있는 것이다. 1912년 1일 기계를 보고 있는 것이다. 1912년 1일 기계를 보고 있는 것이다. |
| | 네이 얼룩 사장되는 얼마를 다른 점이들은 이 친구를 가져갔다. | 이 마이트 그 모이고 아름다 돌아보고 하는 옷을 잃었다. |
| | 그 발생의 살이 얼마나 하게 하는 경기가 하는 것이 없다면서 함께 했다. | |
| | 그릇 이번 생각 그림 그림 그림, 첫 그림, 그 그림부음 : | |
| | (공연화 : 지역한 기능, 기기 : 현소 : 12. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14 | |
| | 그렇게 하는데 하나도 하는데 가지 한 만든데 하네요. | |
| | 그리다 이 그는 집에 대한 건강이야 한 살이라고 있었다. | 나 되는 하고 하다 이렇게 살아서 얼마나 뭐 하게 되었다. 하다 |
| | 그는 병원 학교로 들어 돌아가 살아왔다는 전략이 없었다. | |
| | 막 이렇는 이 회사들이 하는 사람들이 얼마를 받는다. | |
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| | 그렇게 하는 어느 얼마 하라고 있는 그를 하는 일 말했다. | 그는 그는 사람이 하는 사람들은 얼마를 받는 것 같아요? |
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| | 그리 하인 하는 이 없이고 있는 사람들이 되어 있다면서 되었다. | |
| | | 그런 사이 그는 경에 가는 보고 사이에는 사이를 하는 것을 하면 함께 함께 되었다. 그는 사이를 하는 것을 것을 하는 것을 하는 것을 하는 것을 하는 것을 것을 것을 수 없습니다. 되었다면 하는 것을 |
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| | 이 그는 사람들은 사람이 있다. 그는 그는 그를 가는 것이다. | |
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| | | 그는 얼마로 하다면서 가장 그렇게 하고 있는 사람들이 바람들이다. |
| | | 나 내 말, 그는 그리를 하지 않을 수 있는 수 있다. |
| | 보는 하다 하다 하다 그는 그렇게 하면 얼마나 되고 있다. | |
| | | 등 보통 : |
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| | | 그러난 시간에 하는 병원에 관련을 하고 있다고 있다. |
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ATTACHMENT IX

STANDARD CLASSIFICATION OF VOLATILE OIL RESERVOIR PVT ANALYSIS

Kind of Analysis

- Compositional analysis of separator vapor and liquid, and recombination to any single specified gas/oil ratio or bubble point pressure.
- Saturation pressure and pressure-volume relations of recombined reservoir temperature.
- Constant volume depletion study at reservoir temperature to determine the gas phase composition, gas volume produced and gas deviation factors at several pressure from saturation pressure to abandonment pressure. Includes composition of equilibrium liquid phase at final depletion pressure.
 - Liquid shrinkage versus pressure using constant volume depletion techniques as above.
 - Viscosity of liquid phase at reservoir temperature at several pressures from above reservoir pressure to atomospheric pressure.



ATTACHMENT X

STANDARD CLASSIFICATION OF COMPOSITIONAL STUDIES AND WATER ANALYSIS

Kind of Analysis

- Kethane through C7+
- Gas gravity (measured)
- Complète chemical analysis of oil field water or mud filtrate samples (including dissolved solids (10 ions), total dissolved solids, pH, hydrogen sulfide, specific total dissolved solids, pH, hydrogen sulfide, specific gravity 60/60°F, and calculated resistivity.
 - Chloride and Total Dissolved solids
 - Resistivity (measured), at room temperature

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ATTACHMENT XI

STANDARD CLASSIFICATION OF INSPECTION FOR VESSEL, TANK AND HEAT EXCHANGER

- Visual inspection and hammering test
- Leak test
- Hydrostatic test
- Non-destructive inspection
 - · thickness measurement
 - · liquid penetrant inspection
 - · magna flux inspection
 - · ultrasonic inspection
 - . micro-structure inspection
 - · hardness test
 - · radiographic inspection
 - · eddy current inspection
 - Destructive inspection

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ATTACHMENT XII

STANDARD CLASSIFICATION OF INSPECTION FOR CONDITION OF MACHINERY AND PRIME MOVER

- Visual inspection
- Clearance inspection

bearings, flexible couplings, V-belts or chain for power transmission, speed reducer etc.

- Leak test of seal
- Alignment inspection for shafts and couplings
- Running test sound, vibratiion, motor ampere etc.

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| 그 분들은 교육을 위한 중 기계에 되었다. 그는 말이다. 그 사람들이 있는 것이 되었다. 그런 기계를 되었다. | | | | | | | |
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ATTACHMENT XIII STANDARD CLASSIFICATION OF REPAIR

| Kind of repair | | Bxample of work | | |
|-----------------------------|---|---|--|--|
| scheduled maintenance | 44 | greasing up | | |
| · lubrication · replacement | - · · · · · · · · · · · · · · · · · · · | replacement of component | | |
| regulation | | adjustment, tightening | | |
| · cleaning | | chemical cleaning maintenance welding, | | |
| - Repair or renewal | | changing tubes, | | |
| | | removal for disuse | | |
| | | improvement of material or performance, | | |
| - Improvement | •• | | | |
| | • | corrosion control | | |