



Royalty Management Program Transmittal Sheet



Document title:

PAAS Solid Minerals Reporter Handbook, 2.0

Release No.: 2.0**Transmittal No.:** 02**Dated:** 02/10/00

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Explanation of material transmitted:

Release 2.0 of the *PAAS Solid Minerals Reporter Handbook* updates the format and the forms in Release 1.0 but does not contain substantial changes. Release 2.0 will be available on the Internet, but copies of Release 1.0 may still be used.

David S. Guzy [original signature on file]

Chief, Rules and Publications Staff

Filing instructions:

PAAS Solid Minerals Reporter Handbook

Royalty Management Program



U.S. Department of the Interior
Minerals Management Service
Royalty Management Program

PAAS Solid Minerals Reporter Handbook

Royalty Management Program

MMS/RMP Release 2.0

February 10, 2000

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Operations Corporation, Inc.**

under Contract No. 1435-02-98-CT-40298

**U.S. Department of the Interior
Minerals Management Service
Royalty Management Program**

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Abbreviations

AFS	Auditing and Financial System
API	American Petroleum Institute
BIA	Bureau of Indian Affairs
BLM	Bureau of Land Management
Btu	British thermal unit
CFR	Code of Federal Regulations
DFC	Denver Federal Center
DOI	Department of the Interior
FMIF	Facility and Measurement Information Form
FMP	facility/measurement point
GS	Geological Survey
LMU	logical mining unit
MIF	Mine Information Form
MMS	Minerals Management Service
MSHA	Mine Safety and Health Administration
NA	not applicable
OMB	Office of Management and Budget
PAAS	Production Accounting and Auditing System
RDP	Revenue and Data Processing
RMP	Royalty Management Program
RPS	Rules and Publications Staff
RVD	Royalty Valuation Division
SMFR	Solid Minerals Facility Report
SMOR	Solid Minerals Operations Report
SMS	Solid Minerals Staff
U.S.C.	United States Code

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1. General Information

1.1 Purpose

The purpose of the *PAAS Solid Minerals Reporter Handbook* is to provide Production Accounting and Auditing System (PAAS) solid minerals reporters with detailed instructions and information regarding their reporting requirements for Federal and Indian leases.

1.2 Maintenance

Suggested changes or enhancements to this manual should be forwarded to the Rules and Publications Staff (RPS) or the Royalty Valuation Division (RVD) Solid Minerals Staff (SMS). Future revisions of the manual will incorporate approved changes and/or enhancements. All revisions must be approved by the Minerals Management Service (MMS) and are published by RPS.

1.3 Distribution

Copies of the *PAAS Solid Minerals Reporter Handbook* are distributed within MMS and to all PAAS solid minerals operators, based on the point of royalty determination (see [“Organization and Content” on p. 1-2](#)). Effective October 1, 1992, the Associate Director for Royalty Management established the policy that MMS will charge a fee for all copies of instructional handbooks provided to reporters on Federal or Indian leases in excess of one copy per valid and active reporter code. Companies with multiple reporter codes that have the same name and address will receive only one copy free of charge. Copies requested by other interested parties or additional copies requested by reporters will be provided for a fee to recover the administrative costs associated with printing and mailing.

1. General Information

To purchase additional copies of handbooks, call the Royalty Management Program (RMP) handbook order line at 303-231-3090.

1.4 Conventions

Form completion instructions are shown with the following convention: Reporter-entered options are shown in boldface type and underlined; for example, **Yes**.

1.5 Security

This manual does not contain any classified material or information included in the Privacy Act; therefore, neither security nor privacy restrictions are imposed on the material in this manual.

1.6 Organization and Content

To better meet the specific needs of the various reporters, and to reduce overall costs, MMS has printed two versions of this handbook: a full-length version that includes all chapters (1 through 9), and a shortened version that includes all chapters except Chapter 8, “**Facility Reporting**,” and Chapter 9, “**Additional SMOR and SMFR Reporting Examples**.” The two versions are identical in all other respects.

The full-length version is distributed to mine operators whose royalty determination occurs after the raw material is transferred from the mine to a remote storage (off-lease) facility or a secondary processing facility.

The shortened version is distributed to mine operators whose royalty determination occurs at the mine, before the raw material is transferred to a facility.

If your point of royalty determination changes to include facility reporting, or if you wish to receive the other version of this handbook, contact MMS at the address and telephone numbers listed in “[Where to Send Reports](#)” and “[Telephone Information](#)” on p. 4-3.

2. Introduction

2.1 Overview of PAAS Reporting

The purpose and function of PAAS are explained in the following sections.

2.1.1 *Role of PAAS in RMP*

The Department of the Interior (DOI) is responsible for collecting and distributing revenues from Federal and Indian leases. MMS/RMP carries out this responsibility through its Royalty Management Accounting Center located at the Denver Federal Center (DFC) in Denver, Colorado. This effort is supported by the Bureau of Land Management (BLM) State, district, and resource area offices. The district offices mentioned throughout this handbook are BLM district offices.

To fulfill its responsibilities effectively, MMS uses two comprehensive, integrated accounting systems: PAAS and the Auditing and Financial System (AFS).

These systems operate independently, PAAS monitoring minerals production and AFS monitoring associated royalties. While the two systems operate independently, they also share information for comparative purposes. The comparison of information reported in PAAS to sales amounts reported in AFS enables MMS to ensure that minerals produced and sold from Federal and Indian properties are accounted for and appropriate royalties are paid.

Another responsibility of PAAS is to provide BLM, the States, Tribes, and Bureau of Indian Affairs (BIA) with production and disposition data for their inspection, enforcement, and production verification missions. Although MMS uses both PAAS and AFS to fulfill its responsibilities, this handbook deals only with PAAS.

2.1.2 Introduction to PAAS reporting

Reporting requirements for PAAS encompass all information that, in the past, has been reported on DOI production and operation reports such as the 9-373a, 9-128, 9-368, and others. However, because PAAS tracks production differently, the old reports have been replaced with new PAAS reports. With the information obtained from the PAAS reports, the system tracks lease production from a mine through the various inventory and processing facilities to the point of royalty determination.

Mine production is reported for the mine from which it is produced at the lease or development contract level. The mine operator also reports the disposition of that production (sale, transfer, or other disposition). When production is transferred, the mine operator submits facility reports that enable MMS to track the production to the point of royalty determination.

2.1.3 Objectives of PAAS

In developing PAAS, MMS established the following overall objectives:

1. To establish a cost-effective automated production accounting system for the purpose of tracking minerals, mineral products, and mineral byproducts produced from a Federal or Indian lease from the source to the point of sale or royalty determination;
2. To establish a centralized and standardized method for all operators to report production to RMP;
3. To identify by measurement at key points the production, transfer, and disposition of minerals produced from Federal and Indian lands;
4. To assist reporters in providing sufficient information to MMS so that MMS can fulfill its minerals management responsibilities; and
5. To provide production and disposition data to BLM, the States, Tribes, and BIA for their various production-related missions.

2.1.4 PAAS functions

This section briefly explains the three principal functions of PAAS and its relationship with receipt, processing, and output of report information.

1. **Mine and reporter data maintenance.** The PAAS mine and reporter information files contain identification and production information on leases, mines, mine operators, storage and processing facilities, facility operators, and measurement points. This information is extracted from the documents received and processed by MMS.
2. **Report processing.** The monthly or quarterly reports from operators specify inventory, production, sales, and transfers. Reports may be submitted on either MMS report forms or facsimile reports. PAAS compares the information reported with general mine and reporter source data. The MMS database personnel research and correct errors and enter the corrected information into the database.
3. **Production reporting.** PAAS generates production data that MMS and BLM use to carry out minerals management functions.

2.1.5 Regulatory authority

The regulatory authority for PAAS solid minerals reporting is embodied in the Minerals Leasing Act of 1920, as amended. The associated reporting regulations for PAAS are found in Title 30, Code of Federal Regulations (CFR), Part 216-Production Accounting, Subpart E-Solid Minerals, General. The regulations that deal with assessments for incorrect or late reports and failure to report are also found in 30 CFR 216.40. Regulations of BIA at 25 CFR 211 and BLM at 43 CFR 3400 and 3500 provide guidance on the authority, operation of lease, and other leasing activity.

The reporting requirements contained in this handbook are in accordance with the contents of the current regulations applicable to solid minerals reporting.

2.1.6 Confidentiality

Confidential information submitted on report forms is maintained as confidential in accordance with the Freedom of Information Act and other applicable laws and regulations.

2.1.7 OMB forms approval

All forms used to collect information from the public and industry are subject to approval by the Office of Management and Budget (OMB). The Secretary of the Interior is authorized to prescribe proper rules and regulations and to do any and all things necessary to accomplish the purpose of applicable laws. Citations include 30 United States Code (U.S.C.) 189, pertaining to public lands; 30 U.S.C. 359, pertaining to acquired lands; and 25 U.S.C. 396d, pertaining to Indian lands. Current regulations applicable to this information collection are at 30 CFR 216 et seq. Regulations of BIA, 25 CFR 211 et seq., provide by cross-reference that the pertinent provisions of 30 CFR Chapter II, Parts 200-290, apply to Indian leases.

Forms are approved for 3-year periods and are routinely submitted to OMB for reapproval before the expiration date. Approval citations and regulatory statements do not appear in the exhibits in this handbook for the purpose of flexibility. When they begin reporting on PAAS, reporters are furnished with an initial supply of PAAS forms bearing the OMB approval number and regulatory citations.

2.2 Key Features of PAAS Reporting

The key features of PAAS reporting are:

1. Centralized and standardized reporting;
2. Ready availability of required data; and
3. Access to current reporter information.

2.2.1 Centralized and standardized reporting

MMS RMP at the DFC serves as the center for both financial and production royalty reporting. This office processes accounting information for all reporters.

Under PAAS, reporting to MMS is standardized for all types of reporters. The forms are designed so that all solid mineral reporters use the same forms to report similar production information. Prior to the implementation of PAAS, reporters for each of the six major solid mineral commodities used a variety of forms.

2.2.2 Ready availability of required data

The PAAS approach to production accounting parallels the systems developed by many private solid minerals companies to maintain their own records of production, inventory, and sales. The data needed by PAAS are generally available within a company's own data collection and reporting systems.

2.2.3 Access to current reporter information

MMS accounting and auditing offices and BLM State/district/area offices have access to appropriate PAAS information.

2.3 Record Retention Requirements

Record maintenance and retention requirements are stipulated in Titles 30 and 43 of the CFR. Each operator of a solid minerals mine or facility that reports to MMS is required to retain copies of source documents, such as weigh tickets and truck manifests, sufficient to support the information submitted. Operators are also required to make available any information that MMS or BLM considers necessary to determine compliance with the regulations or to conduct an audit or investigation.

2.4 Assessment for Late and Erroneous Reporting

Effective May 1990, MMS assesses penalties to operators who submit PAAS reports that do not pass the edit criteria.

1. The assessment will not exceed \$10 per day per line for late reports.
(Reports are due 45 days after the end of the reporting period.)
2. Penalties for erroneous reporting will be \$10 per line reported.
(Header and trailer sections are considered one line each.)

Refer to 30 CFR 216.40.

3. Reporting Requirements

3.1 Who Must File

Any entity directly associated with a Federal or Indian minerals lease that is within an approved mine plan or in a producing status is subject to PAAS reporting requirements. Refer to the [Glossary](#) for a definition of an approved mine plan. Those “directly associated,” as applied here, include operators of:

- Mines (including primary processing),
- Secondary processing facilities,
- Solid minerals storage facilities, and
- Measurement points that measure the sale or transfer of production from Federal or Indian leases.

These entities must file the relevant reports listed in “[Reference Reports](#)” with MMS.

3.2 Reference Reports

Reference information reports provide relatively static information relating to mines or facilities. MMS uses these reports to establish and modify reporter identification data in PAAS. After the initial submission, these reports need to be submitted only when the information changes; for example, when a scale at a measurement point is replaced. The following reference information forms, shown with a description of the responsible reporter, are included in PAAS:

Mine Information Form (MIF), Form MMS-4050. Initially submitted by mine operators to identify the mine, mine operator, products recovered, and the Federal and Indian lease(s) contained within an approved mine plan or in a producing status. Any change to

3. Reporting Requirements

the information on the MIF after initialization is the responsibility of the cognizant BLM office.

Facility and Measurement Information Form (FMIF), Form MMS-4051. Submitted by mine operators who use measurement points or facilities that measure, process, or store Federal or Indian production prior to royalty determination. This form is submitted by the operator during system initialization and whenever a change in a measurement point occurs.

3.3 Operations Reports

Operations reports include mine or facility operational data such as production, disposition, sales, and inventory levels. These reports are submitted regularly for producing mines or facilities.

The operations reports included in PAAS are listed below, along with a description of the responsible reporter.

Solid Minerals Operations Report—Part A (SMOR-A), Form MMS-4059-A. Submitted by mine operators responsible for reporting production from mines that include Federal or Indian leases within the approved mine plan. The form is submitted monthly unless MMS authorizes a different reporting period.

Solid Minerals Operations Report—Part B (SMOR-B), Form MMS-4059-B. Submitted monthly by mine operators reporting sales from a secondary processing and/or remote storage facility.

Solid Minerals Facility Report—Part A (SMFR-A), Form MMS-4060-A. Submitted monthly by operators of secondary processing facilities processing Federal or Indian production.

Solid Minerals Facility Report—Part B (SMFR-B), Form MMS-4060-B. Submitted monthly by operators of secondary processing or remote storage facilities receiving or disposing of Federal or Indian production.

3.4 Reporting Concepts

Certain terms and reporting concepts used in this handbook have particular meanings for reporting purposes; the most significant are explained in the following sections. Refer to the [Glossary](#) for an explanation of additional terms and concepts.

3.4.1 *Field size*

Each report item has a specific number of spaces available for the reporter to enter numbers or letters. The field size for each report item is indicated on the forms and in this handbook. Some fields, such as Operator Number, require the completion of a specific number of spaces. It may be necessary to use abbreviations to avoid exceeding the maximum length of these fields; for example, if the Authorizing Name exceeds 30 spaces.

3.4.2 *Data entry*

Numbers specifying a quantity must be entered as **whole numbers** that are right justified (placed farthest to the right) within a field. Therefore, quantities containing fewer digits than the maximum field size must be preceded by blank spaces or zeros. Numbers describing quality may be entered as either whole numbers or decimals, as explained by instructions in later chapters. Do not use commas or spaces within a number because they may cause the data to be miskeyed. Within alphanumeric fields, characters must be left justified.

3.4.3 *Modifying versus resubmitting*

Modifying a report differs from resubmitting a report. Modified reports are required when a reporter discovers an error in previously submitted data or obtains actual values for previously reported estimates.

3. Reporting Requirements

See “[Report Modification](#)” on page 7-31 and page 8-47 for specific modification procedures. Resubmitted reports may be required if MMS finds numerous and/or significant errors. See [Appendix D, “Error Correction and Edit Criteria,”](#) for specific resubmission procedures.

3.5 Facsimile Reporting

MMS allows reporters to submit SMOR and SMFR reports using a computer-generated facsimile. Facsimile reporting is the submission of data using a computer-printed facsimile of the official PAAS report(s) generated by a reporter’s computer system. In developing facsimile reports, refer to “[Solid Minerals Operations Report](#)” on page D-14 and “[Solid Minerals Facility Report](#)” on page D-24 for the edit criteria used on the SMOR and SMFR documents. For the organization of the individual form and specific field size requirements, refer to “[SMOR-A Instructions](#)” on page 7-5, “[SMOR-B Instructions](#)” on page 8-5, and “[SMFR-A and -B Instructions](#)” on page 8-8. Prior to reporting production using a facsimile report, the reporter must submit to MMS a sample facsimile copy with the words “FOR REVIEW ONLY” on it. MMS reviews the sample facsimile forms to ensure that they comply with the format approved by OMB for manual report submission.

4. How to Begin Reporting to PAAS

4.1 When to Start Reporting

Mine operators are required to begin reporting to MMS under PAAS when certain conditions arise in the operation of a mine, measurement point, or facility associated with Federal or Indian leases. The general conditions are described below.

4.1.1 *Mine operators*

A mine operator must initiate PAAS reporting:

1. When a mine plan involving a solid minerals lease(s) is approved.
 - a. MMS must receive a MIF after mine plan approval but before receipt of the first operations report (SMOR) for the mine.
 - b. Production from the mine must be reported on a SMOR beginning with the report period in which the approval becomes effective or production occurs.
2. As a new operator, when acquiring a mine that is already reporting operations under PAAS.

NOTE

Mine operators are required to submit the required PAAS document accurately and timely under penalty of assessments described at 30 CFR 216.40.

4.1.2 Facility/measurement point operators

The mine operator is responsible for ensuring that each facility/measurement point (FMP) required to track production to the point of royalty determination is established on PAAS. A mine operator must initiate PAAS reporting:

1. When a measurement point or processing facility begins handling Federal or Indian lease production.
 - a. MMS must receive an FMIF before a measurement point or facility begins handling Federal or Indian lease production.
 - b. A SMFR must be submitted for the first report period in which a secondary processing or storage facility processes Federal or Indian lease production.
2. When acquiring an FMP from another operator who reported operations of that FMP to MMS.

4.2 When Are Reports Due?

After initial submission, the FMIF is required only when the initial information changes. MMS must receive the FMIF reporting new or changed information prior to receipt of the operations report reflecting changes in the FMP.

Both mine and facility operations reports are usually required monthly. Mines with leases that have both quarterly and monthly royalty payment requirements must report production for all leases on a monthly basis but pay royalties according to lease terms as stated by MMS-rendered decisions. Mine and facility operators are required to submit operations reports so that MMS receives the report by the 15th day of the second month following the period being reported; for example, January operations reports are due on March 15, and second quarter operations reports are due on August 15. Reports are considered on time only if they are received at the MMS accounting office on or before the due date. However, when the 15th falls on other than a normal workday, such as Saturday, Sunday, or a Federal holiday, the due date shall be the next official workday. **Late or inaccurate reports and failure to report will be subject to**

assessments and/or penalties as provided for in MMS regulations at 30 CFR 216.40.

4.3 Where to Send Reports

Send all forms and correspondence to the following addresses:

All PAAS reports:

Minerals Management Service
P.O. Box 17110
Denver CO 80217-0110

All other correspondence:

Minerals Management Service
Royalty Management Program
Royalty Valuation Division
P.O. Box 25165, MS-3111
Denver CO 80225-0165

4.4 Telephone Information

For assistance, call the MMS toll-free number:

1-800-525-9167

or call:

303-231-3368

To purchase handbooks, call the RMP handbook order line at 303-231-3090 (see [“Distribution” on page 1-1](#)).

5. Mine Information Form

5.1 Form Overview

The following sections provide an overview of the MIF, Form MMS-4050.

5.1.1 Purpose of the form

The MIF performs the following functions:

- Establishes the mine as a reporting entity
- Establishes the operator of the mine
- Identifies raw material and the products processed from raw material
- Identifies leases composing the approved mine plan
- Identifies the mining method for each lease

5.1.2 Who must file

Any operator of a mine that includes Federal or Indian leases in the approved mining plan must file the MIF. The operator must notify BLM or MMS prior to the first month of mine production to ensure that the proper reference data are established on PAAS.

5.1.3 When to file

During initial conversion to PAAS, MMS personnel jointly fill out the MIF with mine operators, either by telephone or in person. Any subsequent changes to information on the MIF are made only by BLM and MMS personnel. However, it is the operator's responsibility to notify BLM and MMS of reference data changes in a timely manner.

Notify BLM and MMS of the following changes:

- Product code additions or changes
- Lease additions and/or deletions
- Mine status changes
- Operator change

MMS sends confirmation reports to mine operators when any data element on the MIF changes.

Operators should verify the following information on the confirmation report:

- Effective date of all changes
- Mine Safety and Health Administration (MSHA) mine number
- Product codes
- MMS lease number

5.2 Completing the Form

This section illustrates how to complete the MIF and is divided into four subsections organized as follows. “Header information” on page 5-5 through “Trailer information” on page 5-8 describe the report items of the MIF as shown in figure 5-1 on page 5-4. Individual report items of the MIF shown in figure 5-1 are numbered. Each of the numbers corresponds with a description of the proper way to fill in that report item. “Basic example” on page 5-10 shows a basic example of MIF reporting.

The sections that describe the MIF are organized as follows:

Header information:	Describes the operator and mine identification information.
Detail information:	Describes the lease information being reported for the mine.
Trailer information:	Describes the authorization information identifying the company representative and contact for the report.
Basic example:	Provides a comprehensive basic example that illustrates how to complete a MIF for reference mine information.

①

REPORTER USE

OMB 1010-0063
(Expires December 31, 19XX)

U.S. DEPARTMENT OF THE INTERIOR
 Minerals Management Service
 Royalty Management Program

**MINE INFORMATION FORM
(MIF)**

②

MMS USE

③

FEDERAL

or

INDIAN

OPERATOR NAME: (30) ④	MMS OPERATOR NUMBER:(5) ⑤	EFFECTIVE REPORT PERIOD:(4)MMYY ⑥
MINE NAME:(30) ⑦	MSHA MINE NUMBER:(8) ⑧	LMU INDICATOR:(1) ⑨
MINE STATUS CODE:(1) ⑩	MINE PRODUCTS:(2) ⑪	
CHECK IF NEW OPERATOR: ⑫	PREVIOUS OPERATOR'S MMS NUMBER (IF APPLICABLE)(5) ⑬	ALLOCATION METHOD CODE: (1) ⑭

LINE NUMBER ⑮	ACTION CODE(1) ⑯	MMS LEASE NUMBER (10) ⑰	MINE TYPE(2) ⑱	MINE TYPE(2)	MINE TYPE(2)	MINE TYPE(2)
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

FOR ILLUSTRATION ONLY

CONTACT NAME: (First, M.I., Last) (30) ⑰	TELEPHONE NUMBER:(10) ⑳	⑳ EXTENSION NUMBER:(4)
AUTHORIZING NAME: (First, M.I., Last) (30) ㉒	TITLE:(30) ㉓	
AUTHORIZING SIGNATURE: ㉔	DATE:(6)MMDDYY ㉕	COMMENTS:(60) ㉖

FORM MMS-4050 (REV. 2/97) ㉗ PAGE ___ OF ___

**FIGURE 5-1. Mine Information Form (MIF)
Form MMS-4050**

5.2.1 Header information

Report item	Description	Field size
1	Reporter Use: This field is for reporter use only. Entries are optional.	NA
2	MMS Use: This field is for MMS Revenue and Document Processing (RDP) use only.	NA
3	Federal or Indian: Check the correct field to indicate whether a Federal or Indian lease(s) is contained in the mine.	1
4	Operator Name: Enter the name of the mine operator.	30
5	MMS Operator Number: Enter the MMS-assigned identification number for the mine operator. See “ MMS Operator Number ” on page A-1 for a guide to obtaining MMS-assigned operator numbers.	5
6	Effective Report Period: Enter the initial month and year to which the reported information applies; for example, September 1991 is entered as 0991. See “ Effective Report Period Codes ” on page A-11 for a list of report period codes.	4
7	Mine Name: Enter the name of the mine. Complete this field only on the first page of a multipage document.	30

5. Mine Information Form

Report item	Description	Field size
8	MSHA Mine Number: Enter the MSHA-assigned seven-digit number on all PAAS reports by adding a preceding zero and omitting the hyphen (for example, 00511756, not 05-11756). See “MSHA Mine Number and MMS-Formatted MSHA Number” on page A-11 for details of MSHA mine number assignment.	8
9	LMU Indicator: Enter N or Y to indicate if leases are in a logical mining unit (LMU). Complete this field only on the first page of a multipage document.	1
10	Mine Status Code: Enter the code that identifies the current operational status of the mine. Complete this field only on the first page of a multipage document. See “Mine Status Codes” on page A-13, for a list of available codes.	1
11	Mine Products: Enter the code that identifies the specific raw material and the products processed from the raw material prior to royalty determination. Complete this field only on the first page of a multipage document. See appendix C for a list of product codes.	2
12	Check If New Operator: Check this field if there was a change in the operator of the mine during the period being reported.	1
13	Previous Operator’s MMS Number (If Applicable): Enter the previous MMS operator number if report item 12 is checked.	5

Report item	Description	Field size
14	Allocation Method Code: Enter the code that indicates the method used to allocate mine production to the leases. Complete this field only on the first page of a multipage document. See “Allocation Method Codes” on page A-14 for a list of available codes.	1

5.2.2 Detail information

Report item	Description	Field size
15	Line Number: This is the preprinted number of the line on which detail data are reported.	2
16	<p>Action Code: Mine operators enter A (add) to indicate new information on the detail lines of an original report. BLM uses the following action codes on amended MIFs:</p> <p>A (add) is used to enter new information on an original report or to add revised detail lines that replace deleted lines on an amended report.</p> <p>D (delete) is used to delete leases no longer contained in the mine plan or that have been relinquished.</p> <p>C (change) is used to change previously submitted mine-type data.</p>	1

5. Mine Information Form

Report item	Description	Field size
17	MMS Lease Number: Enter the MMS-formatted lease number for each Federal or Indian lease that is part of the approved mining plan. All leases listed here must be reported each reporting period on the SMOR-A (“SMOR-A Instructions” on page 7-5). See “Lease Prefix Conversion Table” on page A-2 for directions on converting the BLM- or BIA-assigned lease number to an MMS-formatted number.	10
18	Mine Type: Enter the code indicating the type(s) of mining operation used on each lease. See “Mine Type Codes” on page A-16 for a list of mine type codes.	2

5.2.3 Trailer information

Trailer information is required only on the first page of a multipage report.

Report item	Description	Field size
19	Contact Name: Enter the name of the individual to be contacted if a question arises concerning data on the form. At the discretion of the reporter, this person may or may not be the same as the authorizing individual.	30
20	Telephone Number: Enter the telephone number (including area code) of the company contact.	10

Report item	Description	Field size
21	Extension Number: Enter the extension number, if applicable, of the company contact.	4
22	Authorizing Name: Enter the first name, middle initial, and last name of the individual who is authorizing the report.	30
23	Title: Enter the title of the individual whose name appears in report item 22.	30
24	Authorizing Signature: The individual designated by the company as authorized to report the reference data must sign in this field.	NA
25	Date: MMDDYY: Enter the date (month/day/year) the report is signed. For example, January 4, 1992, is entered as 010492.	6
26	Comments: Enter any comments that would aid MMS in understanding the report. Only the 60 spaces in the Comments field of the first page of a multipage MIF are recorded on the database for further reference.	60
27	Page __ of __ : For each report submission, sequentially number each MIF page in the first blank. In the second blank, enter the total number of MIF pages submitted. For example, if a two-page MIF is submitted, the pages are numbered <u>1</u> of <u>2</u> and <u>2</u> of <u>2</u> .	4

5.2.4 Basic example

Figure 5-2 on page 5-11 illustrates a producing mine that has three Federal leases within the approved mine plan. The mine operator must submit a completed MIF to MMS before production is reported on the operational reports. The key considerations for this example are:

1. The mine includes three Federal leases and one State lease.
2. The mine produces raw bituminous coal using surface mining methods.
 - a. Lease production is estimated using a volumetric study based on the mine survey.
 - b. All raw and processed material must be reported on the MIF under report item 11, Mine Products.
3. MSHA mine numbers must be entered on all PAAS reports with a preceding zero and no hyphen (for example, 49-33247 is entered as 04933247).

Some of the key details of the completed MIF are:

1. Because this is the first MIF submitted for the mine, an **A** action code is used, not a **C** or **D** action code.
2. All Federal leases within the approved mine plan must be reported on the MIF.
3. The mine type code (01) must be reported for all three Federal leases.
4. The State lease number is not reported on the MIF.
5. Only one raw product is produced and sold at this mine.
6. The Federal indicator field is checked.

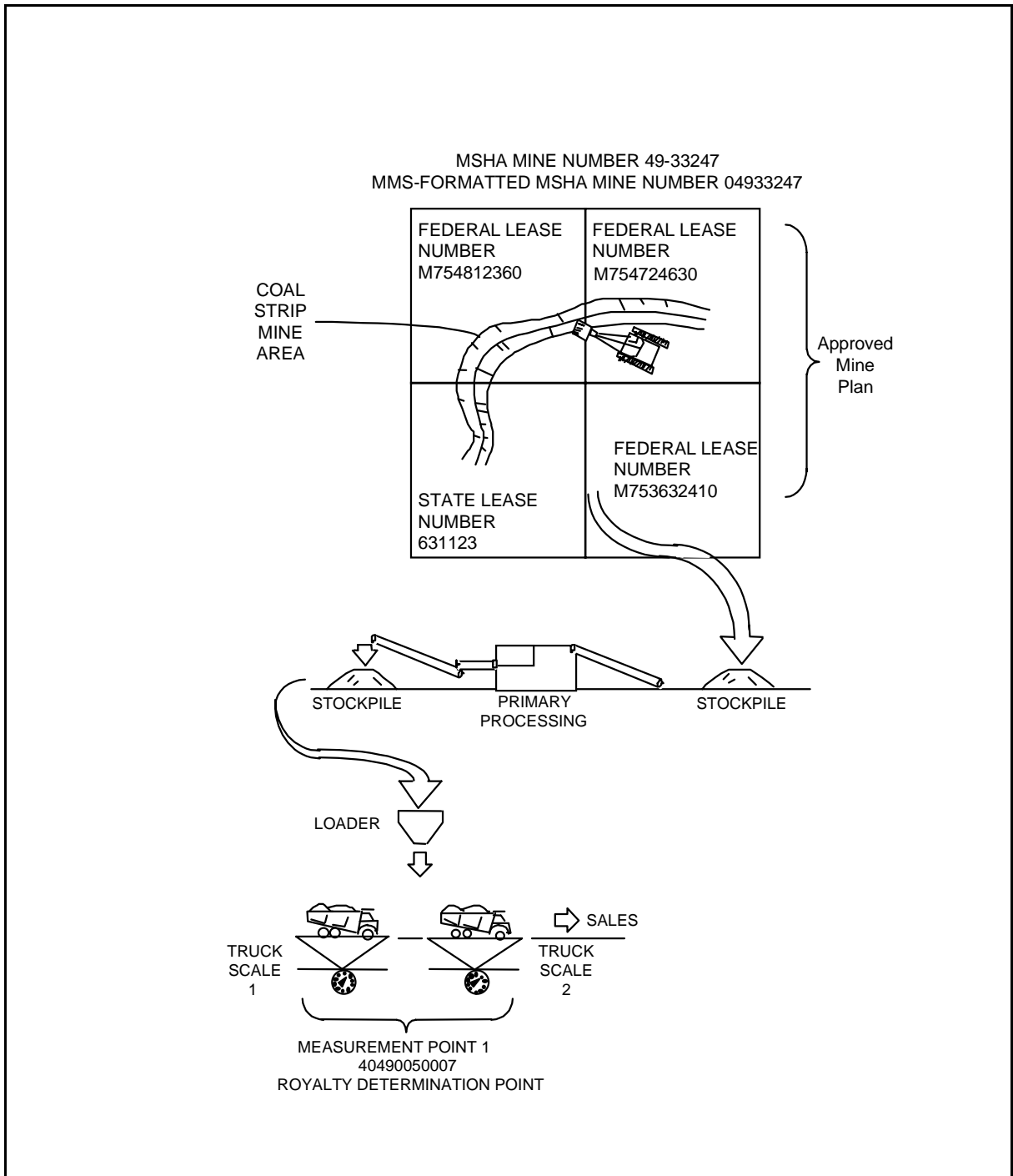


FIGURE 5-2. MIF Basic Example, Schematic

5. Mine Information Form

MIF header information

Report item	Fact
Operator Name	LMN Mine Company
MMS Operator Number	MA223 (assigned by MMS)
Effective Report Period	January 1991
Mine Name	Blue Mine
MSHA Mine Number	04933247
LMU Indicator	N (Not in logical mining unit—Coal only)
Mine Status Code	1 (producing)
Mine Products	ED (Bituminous Coal-Raw)
Allocation Method Code	3 (mine maps)
Federal or Indian	3 Federal leases (Federal field is checked)

MIF detail line information

Report item	Fact
Action Code	A (add)
MMS Lease Number	M754812360 M754724630 M753632410
Mine Type	01 (surface mining)

MIF trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	1 of 1

**FIGURE 5-2. MIF Basic Example (continued)
Fact sheet**

REPORTER USE

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(Expires December 31, 19XX)

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

**MINE INFORMATION FORM
(MIF)**

MMS USE

FEDERAL
 or
 INDIAN

OPERATOR NAME: (30) LMN Mine Company		MMS OPERATOR NUMBER:(5) M A 2 2 3		EFFECTIVE REPORT PERIOD:(4)MMYY 0 1 9 1	
MINE NAME:(30) Blue Mine		MSHA MINE NUMBER:(8) 0 4 9 3 3 2 4 7		LMU INDICATOR:(1) N	
MINE STATUS CODE:(1) 1	MINE PRODUCTS:(2) E D				
CHECK IF NEW OPERATOR: <input type="checkbox"/>	PREVIOUS OPERATOR'S MMS NUMBER (IF APPLICABLE)(5)			ALLOCATION METHOD CODE: (1) 3	

LINE NUMBER	ACTION CODE(1)	MMS LEASE NUMBER (10)	MINE TYPE(2)	MINE TYPE(2)	MINE TYPE(2)	MINE TYPE(2)
1	A	M754812360	01			
2	A	M754724630	01			
3	A	M753632410	01			
4						
5						
6						
7						
8						
9						
10						

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CONTACT NAME: (First, M.I., Last) (30) John Brine		TELEPHONE NUMBER:(10) (123) (456 - 7890)		EXTENSION NUMBER:(4) ()	
AUTHORIZING NAME: (First, M.I., Last) (30) Bobby Coal		TITLE:(30) Mine Manager			
AUTHORIZING SIGNATURE: [signature]		DATE:(6)MMDDYY 1 2 2 8 9 0		COMMENTS:(60)	

**FIGURE 5-2. MIF Basic Example (continued)
Completed MIF**

6. Facility and Measurement Information Form

6.1 Form Overview

The following sections describe the purpose of and filing procedures for the FMIF, Form MMS-4051.

6.1.1 Purpose of the FMIF

The FMIF identifies key sales/transfer measurement points at both mines and facilities that are required to track production. Measurement points are reported by type, location, and serial number for scales. The FMIF also identifies all secondary processing and remote storage facilities. The FMIF establishes a unique number for each FMP in each State and county where they are located.

6.1.2 Who must file

Any operator of an FMP that handles minerals production from a Federal or Indian lease prior to royalty determination must file the FMIF. This includes any operator of:

- A scale or meter that measures Federal or Indian minerals production for sale or transfer,
- A secondary processing facility that processes minerals production from a Federal or Indian lease, and/or
- A remote storage facility (not part of a mine or secondary processing facility) that stores production from a Federal or Indian lease on which royalty has not been paid.

NOTE

All FMPs that are required to track production from the mine to the point of royalty determination must be established on PAAS. This includes FMPs that are not owned or operated by the mine operator (that is, railroad scales or customer scales). Mine operators may contact RVD for assistance in establishing FMPs on PAAS.

6.1.3 When to file

An FMIF must be submitted:

- Before an FMP receives production from Federal or Indian leases;
- When a new meter or scale is installed at an established measurement point;
- When an existing meter or scale is removed, replaced, or transferred to another measurement point; and
- When commingling status of the measurement point is changed (see “Commingling Codes” on page A-17 for a description of the commingling codes).

6.2 Completing the Form

This section illustrates how to complete the FMIF and is divided into four subsections organized as follows. “Detail information” on page 6-6 through “Basic example” on page 6-10 describe the report items of the FMIF as shown in figure 6-1 on page 6-4. Individual report items of the FMIF shown in figure 6-1 are numbered. Each of the numbers corresponds with a description of the proper way to fill in that report item. “Basic example” on page 6-10 shows a basic example of FMIF reporting.

The sections are organized as follows:

Header information:	Describes the FMP operator.
Detail information:	Describes FMP information being reported for the effective report period.
Trailer information:	Describes the authorization information identifying the company representative and contact for the report.
Basic example:	Provides a comprehensive basic example that illustrates how to complete an FMIF for FMPs. See “ Expanded Examples ” on page 6-15 for information on completing the form in more complex situations.

OMB 1010-0063
(Expires February 28, 20XX)

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

**SOLID MINERALS
FACILITY AND MEASUREMENT
INFORMATION FORM
(FMIF)**

3 FEDERAL
or
INDIAN

MMS USE

REPORTER USE

2

OPERATOR NAME: (30) 4				MMS OPERATOR NUMBER (5) 5				EFFECTIVE REPORT PERIOD: (4) MMY 6			
CHECK IF NEW OPERATOR <input type="checkbox"/> 7				PREVIOUS OPERATOR'S MMS NUMBER (IF APPLICABLE) (5) 8							

9 LINE NUMBER	ACTION CODE (1)	FACILITY/ MEASUREMENT POINT NUMBER (11) 11				COMMINGLING CODE (1)	LOCATION/METHOD CODE (2)	LOCATION (25) 14	FACILITY NAME (30) 15	INVENTORY CAPACITY (9) 16	SUBACTION CODE (1)	SCALE/METER SERIAL NUMBER (25) 18
		TYPE (2)	STATE (2)	COUNTY (3)	SEQUENCE (4)							
1	10					12	13				17	
2												
3												
4												
5												
6												
7												
8												
9												
10												

FOR ILLUSTRATION ONLY

WARNING: This is to inform you that failure to report accurately and timely in accordance with the statutes, regulations, or terms of the lease, permit, or contract may result in late payment charges, civil penalties, or liquidated damages being assessed without further notification. Intentional false or inaccurate reporting is subject to criminal prosecution in accordance with applicable Federal law(s).

CONTACT NAME: (First, M.I., Last) (30) 19				TELEPHONE NUMBER: (10) 20				EXTENSION NUMBER: (4) 21			
AUTHORIZING NAME: (First, M.I., Last) (30) 22				TITLE: (30) 23							
AUTHORIZING SIGNATURE: 24				DATE: (6) MMDDYY 25				COMMENTS: (60) 26			

FORM MMS-4051-S (REV. 12/93) 27 PAGE ____ OF ____

FIGURE 6-1. Facility and Measurement Information Form (FMIF), Form MMS-4051

6.2.1 Header information

Report item	Description	Field size
1	Reporter Use: This field is for reporter use only. Entries are optional.	NA
2	MMS Use: This field is for MMS RDP use only.	NA
3	Federal or Indian: Check the correct field to indicate whether Federal or Indian production is being handled by the FMPs listed on the form.	1
4	Operator Name: Enter the name of the mine operator for the FMP(s) being reported.	30
5	MMS Operator Number: Enter the MMS-assigned operator number using the FMPs listed in the detail of the document. See “MMS Operator Number” on page A-1 for a guide to obtaining MMS-assigned operator numbers.	5
6	Effective Report Period: Enter the initial month and year to which the reported information applies; for example, September 1991 is entered as 0991. See “Effective Report Period Codes” on page A-11 for a list of report period codes.	4
7	Check If New Operator: Check this field if the operator has changed for an FMP currently reporting to MMS.	1
8	Previous Operator’s MMS Number (If Applicable): If report item 7 is checked, enter the number of the previous MMS operator.	5

6.2.2 Detail information

Report item	Description	Field size
9	Line Number: This is the preprinted number of the line on which operational data are reported.	2
10	Action Code: Enter one of the following action codes: <p>A (add) is used to enter new information on the detail lines of an original document.</p> <p>D (delete) is used to remove FMPs no longer being used by the operator.</p> <p>C (change) is used to report changes at previously established FMPs. See “Expanded Example 2: Initializing additional information and amending old information” on page 6-20 for a description of how to amend FMP information. C is also used on an original document to add multiple scales or meters at a single measurement point. See “Expanded Example 1: Production from a mine passes through a primary processing plant and a secondary processing facility prior to sale” on page 6-15 for a description of how to add multiple scales at a single measurement point.</p>	1
11	Facility/Measurement Point Number: Enter the type, State, and county portion of the FMP number. See “ Facility/Measurement Point Number ” on page A-8 for details. If this is a newly established FMP (action code A), leave the sequence portion blank because MMS will assign it. If the action code is C or D , or if report item 7 is checked, the operator’s entire FMP number must be entered.	11

Report item	Description	Field size
12	Commingling Code: Enter the code that identifies whether the FMP processes or measures commingled or noncommingled production. See “Commingling Codes” on page A-17 for a list of available codes.	1
13	Location Method Code: Enter the location method code that identifies which location format is used in the location field. See “Location Method Codes and Location Description” on page A-17 for a list of available formats.	2
14	Location: Enter the location of the FMP. The location must be entered in the appropriate format for the specified location method code. See Appendix A, “Assigned Numbers and Codes,” for a list of available formats.	25
15	Facility Name: Enter the name of the facility if a facility type is identified in report item 11. This field can also be used to identify the name or function associated with the measurement point number.	30
16	Inventory Capacity: The FMIF is used for both solid minerals and oil and gas FMPs. This report item applies only to oil and gas FMPs and is not to be completed by solid minerals operators.	9

6. Facility and Measurement Information Form

Report item	Description	Field size
17	<p>Subaction Code: Enter the subaction code for the scale/meter serial number only if the action code is A or C for report item 10. Enter one of the following subaction codes:</p> <p>A (add) is used to enter a new serial number on an original document or to add revised serial numbers that replace deleted serial numbers on an amended document.</p> <p>D (delete) is used to remove a serial number that was entered on a previously submitted form and is only used in combination with an action code of C on an amended document. See “Expanded Example 2: Initializing additional information and amending old information” on page 6-20 for a description of how to amend FMP information.</p>	1
18	<p>Scale/Meter Serial Number: Enter the model (scale type) and serial number of the scale or meter at the measurement point. If the serial number exceeds the field size, enter only the last 25 digits of the serial number.</p>	25

6.2.3 Trailer information

Trailer information is required only on the first page of a multipage report.

Report item	Description	Field size
19	Contact Name: Enter the first name, middle initial, and last name of the individual to be contacted if a question arises concerning data on the form. At the discretion of the reporter, this person may or may not be the same as the authorizing individual.	30
20	Telephone Number: Enter the telephone number (including area code) of the company contact.	10
21	Extension Number: Enter the extension number, if applicable, of the company contact.	4
22	Authorizing Name: Enter the first name, middle initial, and last name of the individual who is authorizing the form.	30
23	Title: Enter the title of the individual whose name appears in report item 22.	30
24	Authorizing Signature: The individual designated by the company as authorized to report the reference data must sign in this field.	NA
25	Date: MMDDYY: Enter the date (month/date/year) that the form was signed; for example, January 4, 1992, is entered as 010492.	6
26	Comments: Enter any comments that would aid MMS in understanding the report. Only the 60 spaces in the Comments field on the first page of a multipage FMIF are recorded on the database for further reference.	60

Report item	Description	Field size
27	Page __ of __ : For each report submission, sequentially number each FMIF page in the first blank. In the second blank, enter the total number of FMIF pages submitted. For example, if an FMIF consists of two pages, number the pages <u>1</u> of <u>2</u> and <u>2</u> of <u>2</u> .	4

6.2.4 Basic example

Figure 6-2 on page 6-12 illustrates a mine operator who uses two measurement points prior to the point of royalty determination. Because the approved mine plan includes Federal leases, the mine operator must submit an FMIF to MMS for the two measurement points.

The key considerations in this example are:

1. The mine includes three Federal leases.
2. The mine operator uses two measurement points, both truck and rail scales, to determine royalty weight.
3. After loading, trucks are weighed at measurement point 1, which is a royalty determination point.
4. After loading, rail cars are weighed at measurement point 2, which is also a royalty determination point.

The completed report reflects the following conditions:

1. Because this is the first FMIF submitted for the measurement points, an **A** action code is used, not **C** or **D**.
2. A subaction code of **A** is used for the scale serial numbers.
3. Note that the sequence portion of the measurement point number is left blank. MMS assigns this portion and notifies the reporter using a confirmation report.

4. The belt scales at the primary processing plant do not measure production for sale or transfer and, therefore, are not reported on the FMIF.

6. Facility and Measurement Information Form

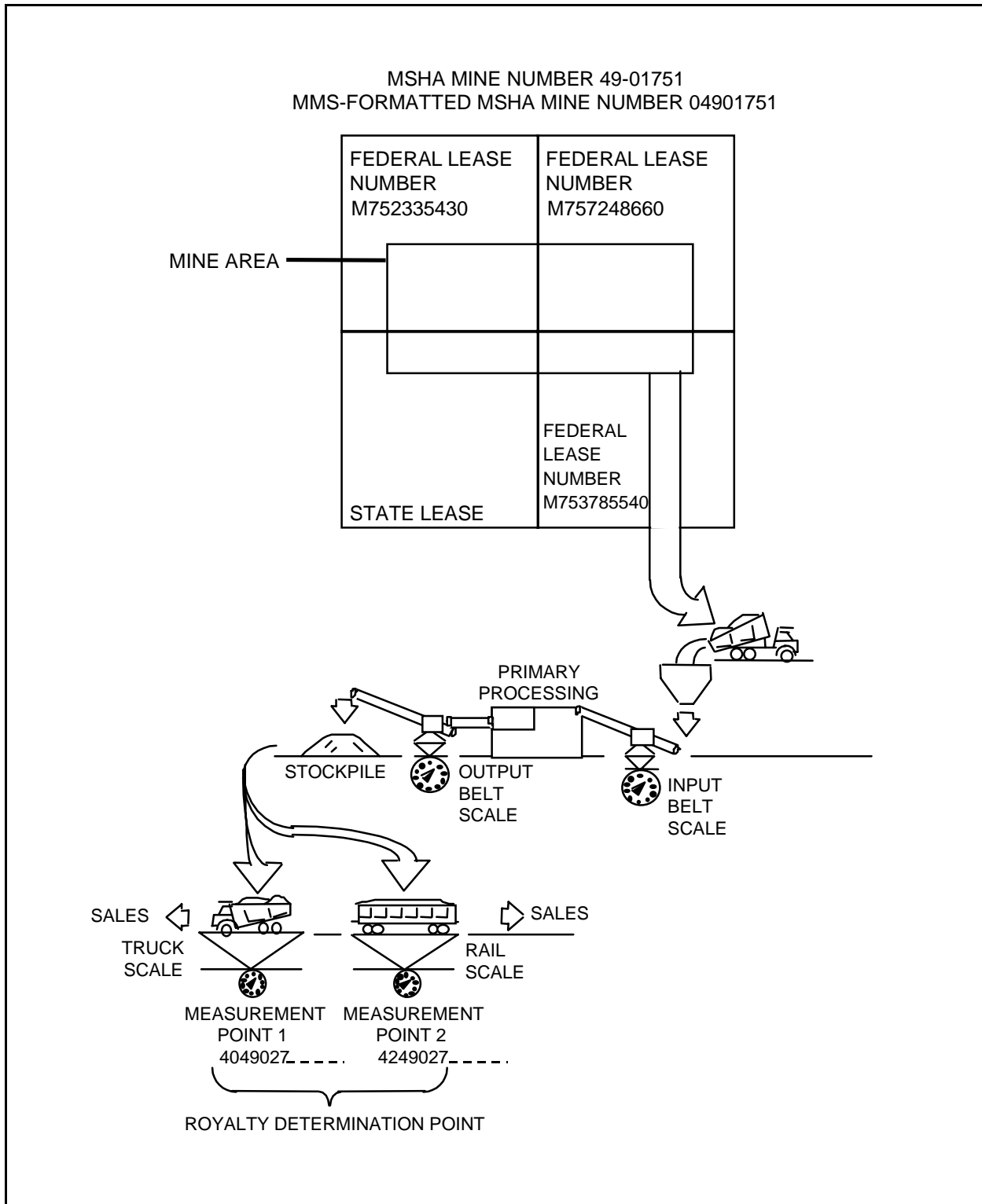


FIGURE 6-2. FMIF Basic Example, Schematic

6. Facility and Measurement Information Form

FMIF header information	
Report item	Fact
Operator Name	Mountain Range Company
MMS Operator Number	MA300 (assigned by MMS)
Effective Report Period	June 1991
Federal or Indian	Federal production (Federal field is checked)

FMIF detail line information	
Report item	Fact
Action Code	A (add)
Measurement Point Number	4049027 (truck scale)
Commingling Code	4 (commingled)
Location Method Code	01 (quarter, quarter, section, township, range, and meridian)
Location	NE-SW-18-12N-68W-06
Facility/ Measurement Point Name	Raw Sales Truck Scale
Subaction Code	A (add)
Scale/Meter Serial Number	Murphy X24680

Action Code	A (add)
Measurement Point Number	4249027 (rail scale)
Commingling Code	4 (commingled)
Location Method Code	01
Location	NE-SW-18-12N-68W-06
Facility/ Measurement Point Name	Rail Scale at Mine
Subaction Code	A (add)
Scale/Meter Serial Number	Fairbanks X13579

FMIF trailer information	
Report item	Fact
All required trailer information is completed.	
Page Number	1 of 1

**FIGURE 6-2. FMIF Basic Example (continued)
Fact sheet**

(OMB 1010-0063)
(Expires February 28, 20XX)

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Royalty Management Program

**SOLID MINERALS
FACILITY AND MEASUREMENT
INFORMATION FORM
(FMIF)**

FEDERAL
or
INDIAN

MMS USE

OPERATOR NAME: (30) Mountain Range Company	MMS OPERATOR NUMBER (5) MA300	EFFECTIVE REPORT PERIOD: (4) MMY 0691
CHECK IF NEW OPERATOR <input type="checkbox"/>	PREVIOUS OPERATOR'S MMS NUMBER (IF APPLICABLE) (5)	

LINE NUMBER	ACTION CODE (1)	FACILITY/ MEASUREMENT POINT NUMBER (11)				COMMINGLING CODE (1)	LOCATION METHOD CODE (2)	LOCATION (25)	FACILITY NAME (30)	INVENTORY CAPACITY (9)	SUBACTION CODE (1)	SCALE/METER SERIAL NUMBER (25)
		TYPE (2)	STATE (2)	COUNTY (3)	SEQUENCE (4)							
1	A	40	49	027		4	01	NE-SW-18-12N-68W-06	Raw Sales Truck Scale		A	Murphy X24680
2	A	42	49	027		4	01	NE-SW-18-12N-68W-06	Rail Scale at Mine		A	Fairbanks X13579
3												
4												
5												
6												
7												
8												
9												
10												

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CONTACT NAME: (First, M.I., Last) (30) John Brine	TELEPHONE NUMBER: (10) 123-456-7890	EXTENSION NUMBER: (4)
AUTHORIZING NAME: (First, M.I., Last) (30) Bobby Coal	TITLE: (30) Facility Manager	
AUTHORIZING SIGNATURE: [signature]	DATE: (6) MMDDYY 041591	COMMENTS: (60)

FORM MMS-4051-S (REV. 12/93)

**FIGURE 6-2. FMIF Basic Example (continued)
Completed FMIF**

6.3 Expanded Examples

The following sections provide complex, expanded examples of FMIF reporting.

6.3.1 **Expanded Example 1: Production from a mine passes through a primary processing plant and a secondary processing facility prior to sale**

Figure 6-3 on page 6-17 shows how to report a secondary processing facility. The example also shows how to report single and multiple scales at a single measurement point. The key considerations of this example that differ from the basic example presented in “Completing the Form” on page 6-2 are the following:

1. The minerals production is transferred to a preparation plant (primary processing plant) for cleaning and sizing.
2. Mine production is transferred to a coal-wash secondary-processing facility prior to sale. Measurement point 1 is the belt scale at the entrance to the secondary processing facility and is reported on the SMOR-A.
3. The facility processes the mineral and transforms it into different products.
4. The processed material is stored in an inventory prior to sale. Royalty is determined at measurement point 2, the rail scales located at the loadout site.
5. There is a measurement point between the mine and the secondary processing plant, but none between the mine and the primary processing plant.

Key details of the completed report include:

1. Because this is the initial FMIF submission for these FMPs, the sequence portion of the FMP number is left blank; it will be assigned by MMS.

6. Facility and Measurement Information Form

2. Even though there are two rail scales located at the loadout facility, they are considered to be one measurement point because they work in tandem measuring tare and gross weight at one location.
3. Action code **C** (change) is used to include the second rail scale at measurement point 2.
4. When two or more scales are reported for a single measurement point, the first scale is initialized by entering action code **A**, all relevant information, subaction code **A**, and the scale serial number. The second scale is initialized by entering action code **C**, the same portion of the FMP number, subaction code **A**, and the scale serial number. Multiple scales must be reported on consecutive lines.
5. The facility name must be entered for the coal processing plant.
6. The operator has chosen to use the Facility Name field to identify by name the belt scale and rail scales (measurement points 1 and 2).

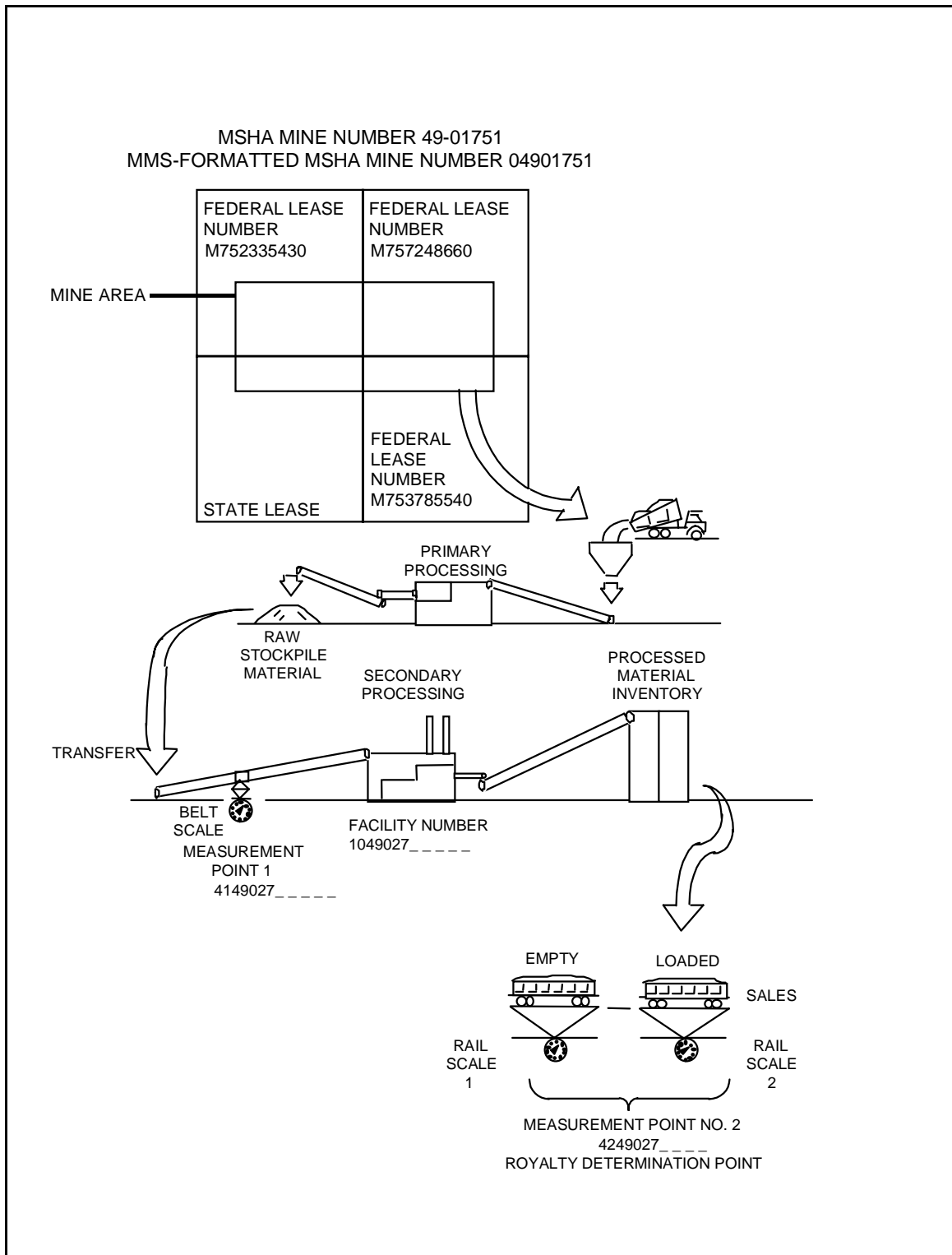


FIGURE 6-3. FMIF Expanded Example 1, Schematic

6. Facility and Measurement Information Form

FMIF header information

Report item	Fact
Operator Name	Mountain Range Company
MMS Operator Number	MA300 (assigned by MMS)
Effective Report Period	April 1991
Federal or Indian	Federal production (Federal field is checked)

FMIF detail line information

Report item	Fact
Action Code	A (add) C (change) (used in line 4)
Facility/Measurement Point Number	1049027 (coal wash plant) 4149027 (belt scale) 4249027 (first rail scale) 4249027 (second rail scale)
Commingling Code	4 (commingled)
Location Method Code	01 (quarter, quarter, section, township, range, and meridian)
Location	NE-SW-9-35N-56W-06
Facility/Measurement Point Name	Black Coal Wash Plant
Facility/Measurement Point Name	Wash Plant Input Scale
Facility/Measurement Point Name	Western Scales-Laramie
Subaction Code	A (add)
Scale/Meter Serial Number	Merrick TDS1-01 (belt scale type and serial number) Streeter-AMET X90155511 (first rail scale type and serial number) Streeter-AMET X90155512 (second rail scale type and serial number)

FMIF trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	1 of 1

**FIGURE 6-3. FMIF Expanded Example 1 (continued)
Fact sheet**

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Royalty Management Program

**SOLID MINERALS
FACILITY AND MEASUREMENT
INFORMATION FORM
(FMIF)**

FEDERAL
or
INDIAN

MMS USE

OPERATOR NAME: (30) Mountain Range Company	MMS OPERATOR NUMBER (5) MA300	EFFECTIVE REPORT PERIOD: (4) MMY 0491
CHECK IF NEW OPERATOR <input type="checkbox"/>	PREVIOUS OPERATOR'S MMS NUMBER (IF APPLICABLE) (5)	

LINE NUMBER	ACTION CODE (1)	FACILITY/ MEASUREMENT POINT NUMBER (11)				COMMINGLING CODE (1)	LOCATION METHOD CODE (2)	LOCATION (25)	FACILITY NAME (30)	INVENTORY CAPACITY (9)	SUBACTION CODE (1)	SCALE/METER SERIAL NUMBER (25)
		TYPE (2)	STATE (2)	COUNTY (3)	SEQUENCE (4)							
1	A	10	49	027		4	01	NE-SW-9-35N-56W-06	Black Coal Wash Plant			
2	A	41	49	027		4	01	NE-SW-9-35N-56W-06	Wash Plant Input Scale		A	Merrick-TDS1-01
3	A	42	49	027		4	01	NE-SW-9-35N-56W-06	XLT Scales - Laramie		A	Streeter-AMET X90155511
4	C	42	49	027								Streeter-AMET X90155512
5												
6												
7												
8												
9												
10												

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CONTACT NAME: (First, M.I., Last) (30) John Brine	TELEPHONE NUMBER: (10) 123-456-7890	EXTENSION NUMBER: (4) 555
AUTHORIZING NAME: (First, M.I., Last) (30) Sam Clay	TITLE: (30) Facility Manager	
AUTHORIZING SIGNATURE: [signature]	DATE: (6) MMDDYY 031591	COMMENTS: (60)

FORM MMS-4051-S (REV. 12/93)

**FIGURE 6-3. FMIF Expanded Example 1 (continued)
Completed FMIF**

6.3.2 Expanded Example 2: Initializing additional information and amending old information

Figure 6-4 illustrates how to add a new measurement point and how to amend previously submitted information. The key considerations of this example that differ from “Expanded Example 1: Production from a mine passes through a primary processing plant and a secondary processing facility prior to sale” on page 6-15 are:

Mountain Range Company has made two changes to their existing operation, effective May 1992. The changes include:

1. Adding a truck scale, measurement point 3 to weigh truck sales, and
2. Replacing one of the rail scales with a new scale at measurement point 2.

Key details of the completed report are:

1. MMS assigns the sequence portion of the FMP number for the new truck scale (measurement point 3).
2. The rail scales (measurement point 2) retain their previously assigned FMP number.
3. To report scale changes at a measurement point, the old scale is deleted by entering action code **C**, the previously assigned FMP number, subaction code **D**, and the serial number of the old scale. The new scale is initialized on the next line by entering action code **C**, the same FMP number, subaction code **A**, and the serial number of the new scale.

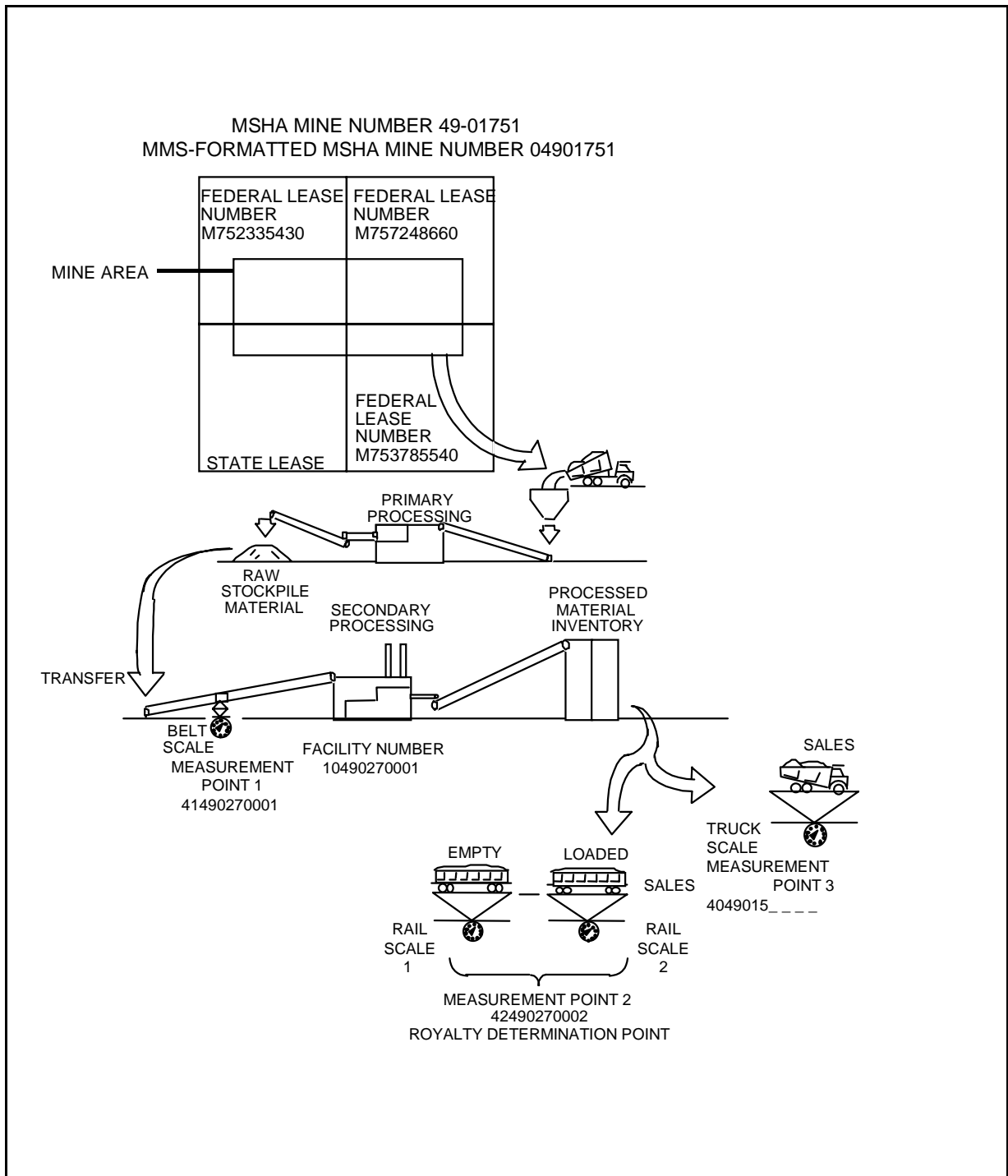


FIGURE 6-4. FMIF Expanded Example 2, Schematic

6. Facility and Measurement Information Form

FMIF header information

Report item	Fact
Operator Name	Mountain Range Company
MMS Operator Number	MA300 (assigned by MMS)
Effective Report Period	May 1992
Federal or Indian	Federal production (Federal field is checked)

FMIF detail line information

Report item	Fact
Action Code	A (add)
Measurement Point Number	4049015
Commingling Code	4 (commingled)
Location Method Code	01 (quarter, quarter, section, township, range, and meridian)
Location	NW-SW-9-35N-56W-06
Facility/ Measurement Point Name	Truck Scale-Torrington, WY
Subaction Code	A (add)
Scale/Meter Serial Number	Thurman X320

Action Code	C (change) C (change)
Measurement Point Number	42490270002 42490270002
Subaction Code	D (delete) A (add)
Scale/Meter Serial Number	Streeter-AMET X90155512 Streeter-AMET X65A23

FMIF trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	1 of 1

**FIGURE 6-4. FMIF Expanded Example 2 (continued)
Fact sheet**

(OMB 1010-0063)
(Expires February 28, 20XX)

REPORTER USE

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Royalty Management Program

**SOLID MINERALS
FACILITY AND MEASUREMENT
INFORMATION FORM
(FMIF)**

FEDERAL
or
INDIAN

MMS USE

OPERATOR NAME: (30) Mountain Range Company	MMS OPERATOR NUMBER (5) MA300	EFFECTIVE REPORT PERIOD: (4) MMY 0592
CHECK IF NEW OPERATOR <input type="checkbox"/>	PREVIOUS OPERATOR'S MMS NUMBER (IF APPLICABLE) (5)	

LINE NUMBER	ACTION CODE (1)	FACILITY/ MEASUREMENT POINT NUMBER (11)				COMMINGLING CODE (1)	LOCATION/METHOD CODE (2)	LOCATION (25)	FACILITY NAME (30)	INVENTORY CAPACITY (9)	SUBACTION CODE (1)	SCALE/METER SERIAL NUMBER (25)
		TYPE (2)	STATE (2)	COUNTY (3)	SEQUENCE (4)							
1	A	40	49	015		4	01	NW-SW-9-35N-56W-06	Truck Scale - Torrington, WY		A	Thurman X320
2	C	42	49	027	0002						D	Streeter-AMET X90155512
3	C	42	49	027	0002						A	Streeter-AMET X65A23
4												
5												
6												
7												
8												
9												
10												

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CONTACT NAME: (First, M.I., Last) (30) John Brine	TELEPHONE NUMBER: (10) 123-456-7890	EXTENSION NUMBER: (4)
AUTHORIZING NAME: (First, M.I., Last) (30) Sam Clay	TITLE: (30) Facility Manager	
AUTHORIZING SIGNATURE: [signature]	DATE: (6) MMDDYY 061092	COMMENTS: (60)

FORM MMS-4051-S (REV. 12/93)

**FIGURE 6-4. Expanded Example 2 (continued)
Completed FMIF**

7. Raw Materials Reporting

7.1 Report Overview

The following sections provide an overview of reporting with the SMOR Part A, Form MMS-4059-A. A discussion of reporting with SMOR Part B, Form MMS-4059-B and SMFR, Form MMS-4060 is in [chapter 8](#).

7.1.1 PAAS reporting concept

Reporting to MMS is required when an operator is mining minerals on Federal, Indian, and/or acquired lands that are subject to royalties. The type and number of PAAS production forms required depend on the point of royalty determination. The point of royalty determination is defined as the point at which the royalty value is determined; it may be discussed in the terms of the lease document.

When the product is sold before the raw material is transferred to a facility, the SMOR-A is the only PAAS operation report required to be submitted to MMS. For example, the royalty determination point may be the scale(s) on which the raw material is weighed for the sales transaction.

When the royalty determination occurs after the raw material is transferred to a remote storage or a secondary processing facility (for example, coal wash plant, refinery, or mill), a series of solid mineral operations and facility reports are required to be submitted to MMS. As a general rule, the SMOR-A, SMFR-B, and SMOR-B forms are to be submitted if raw material is sold from a remote storage facility. The SMOR-A and -B and SMFR-A and -B forms are required if raw material is processed and sold from a secondary processing facility.

[Figure 7-1 on page 7-3, “Operational report overview,”](#) illustrates the relationship between PAAS reporting requirements and the various mining and processing activities that occur as raw material goes from the mine to the secondary processing facility to the point at which the

7. Raw Materials Reporting

product(s) is sold and royalties are determined. The figure also illustrates that the more processing required to place the product in marketable condition, the more PAAS reporting requirements the mine operator must meet.

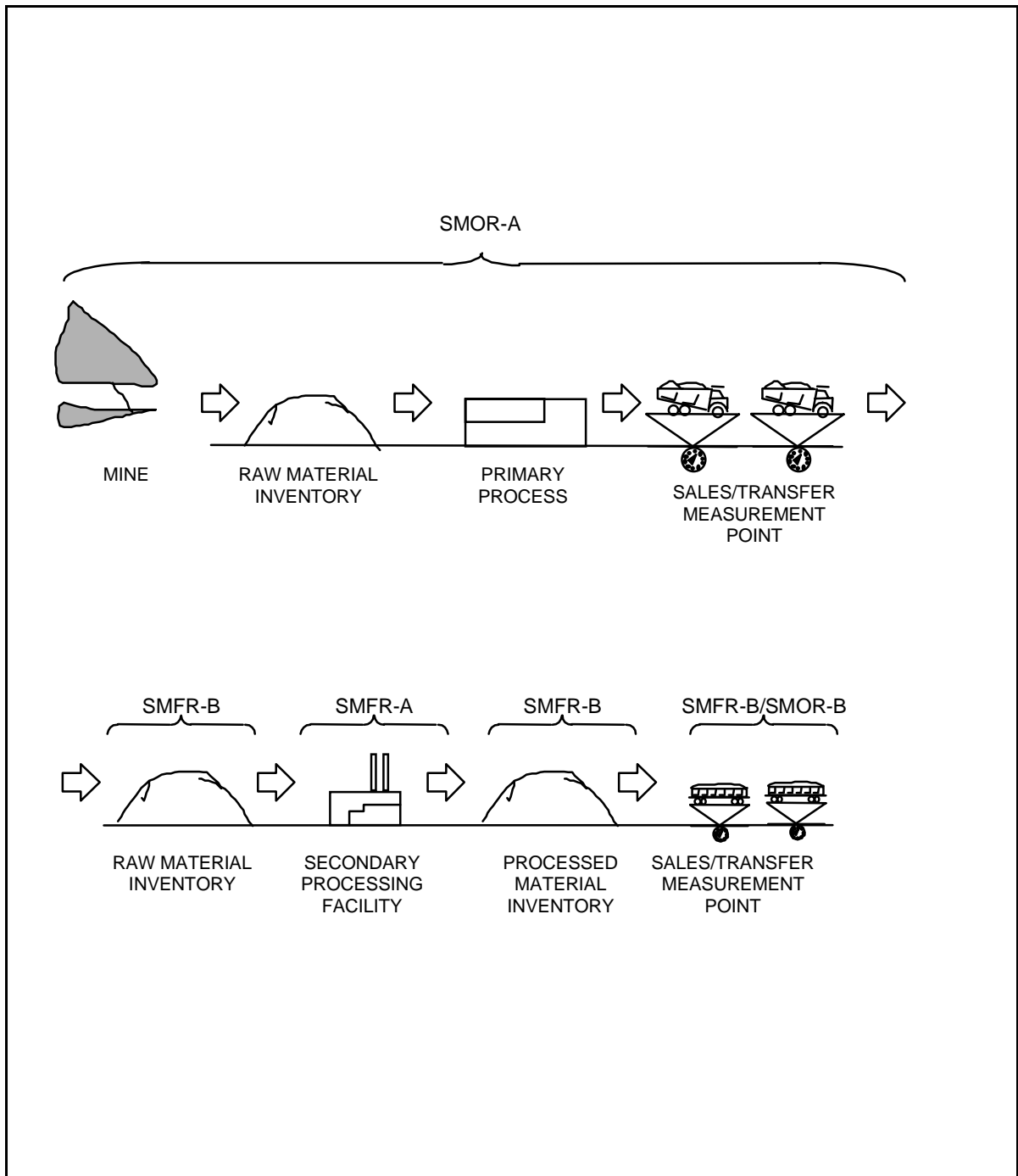


FIGURE 7-1. Operational report overview

7.1.2 Purpose of the report

The SMOR-A tracks production and disposition of raw materials. The SMOR-A:

1. Identifies the quantity and quality of all raw material produced from Federal and/or Indian leases;
2. Specifies the disposition of raw materials, including transfers and adjustments; and
3. Provides raw material inventories.

7.1.3 Who must file

Operators of Federal or Indian leases that produce solid minerals subject to royalty must file the SMOR-A. Refer to “[Mine Status Codes](#)” on page A-13, for the definition of mine status.

The SMOR-A is the only PAAS report submitted when royalty determination occurs before raw material is transferred to a remote storage or secondary processing facility.

7.1.4 When to file

The dates for filing reports are determined as follows:

1. The report period is usually a calendar month, unless a different reporting frequency is established by the lease terms or by an MMS authorized official.
2. Production reports must be received by MMS no later than the 15th day of the second month following the end of the report period. For example, the January production report is due on or before March 15. For quarterly reporting, the first quarter (January, February, and March) operations are due on or before May 15.

NOTE

Royalty reports and payments associated with the January sales must be received by MMS no later than the last day of February.

7.1.5 Report interrelationships

In cases where raw products are transferred to remote storage or a processing facility before royalty determination, SMFRs, Forms MMS-4060, may be required. The relationship between these reports is explained in [Chapter 8, “Facility Reporting.”](#)

7.2 SMOR-A Instructions

This section contains the instructions for completing SMOR-A. “[Header information](#)” on [page 7-6](#) through “[Trailer information](#)” on [page 7-13](#) describe the report items of the SMOR-A as shown in [figure 7-2 on page 7-7](#). Each of the numbers shown on [figure 7-2](#) corresponds with a description of the proper way to fill in that report item. “[Basic example](#)” on [page 7-14](#) shows a basic example of SMOR-A reporting that consists of a schematic, a fact sheet, and a completed form.

The following sections are organized by topic as follows:

Header information:	Describes each report item used to identify the reporter, mine, and report period.
Detail information:	Describes each report item used to report production and dispositions resulting from mine operations (SMOR-A).

7. Raw Materials Reporting

Trailer information:	Describes each report item used to identify the company representative authorized to sign the report and the person to whom MMS should direct questions related to the report.
Basic example:	Illustrates a completed SMOR-A. More complex reporting situations are illustrated in “ Expanded SMOR-A Examples ” on page 7-21.

7.2.1 Header information

Report item	Description	Field size
1	Reporter Use: This field is for reporter use only. Entries are optional.	NA
2	MMS Use: This field is for MMS RDP use only.	NA
3	Federal or Indian: Check the correct field to indicate whether Federal or Indian leases are contained in the mine.	1

(1)

REPORTER USE

(OMB 1010-0063)
(Expires December 31, 19XX)

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

**SOLID MINERALS OPERATIONS REPORT
PART A - PRODUCTION AND DISPOSITION
OF RAW MATERIALS
(SMOR-A)**

(2)

MMS USE

(3) FEDERAL
or INDIAN

REPORT TYPE: [] ORIGINAL (4) [] MODIFIED

EFFECTIVE REPORT PERIOD: (4) MMY

MMS OPERATOR NUMBER (5) _____

MSHA MINE NUMBER: (8) _____

OPERATOR NAME: (30) _____

MINE NAME: (30) _____

LINE NUMBER (10)	ACTION CODE (10)	MMS LEASE NUMBER (10)	PRODUCT CODE (2)	BEGINNING INVENTORY (9)	QUANTITY PRODUCED (9)	LOSSES FROM PRODUCTION (9)	NET PRODUCTION (9)	QUALITY CODE (2)	ANALYSIS (8)	DISPOSITION CODE (2)	DISPOSITIONS			ENDING INVENTORY (9)
											QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	
1	(11)	(13)						(18)		(20)				
2														
3														
4														
5														
6														
7														
8														
9														
10														
GRAND TOTALS (LAST SMOR-A PAGE ONLY) (25)														

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(26) CHECK IF PART A IS CONTINUED

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CONTACT NAME: (First, M.I., Last) (30) _____ (27)	TELEPHONE NUMBER: (10) _____ (28)	EXTENSION NUMBER: (4) _____ (29)
AUTHORIZING NAME: (First, M.I., Last) (30) _____ (30)	TITLE: (30) _____ (31)	
AUTHORIZING SIGNATURE: _____ (32)	DATE: (6) MMDDYY _____ (33)	COMMENTS: (60) _____ (34)

FORM MMS-4059-A (REV. 2/97) (35) PAGE ____ OF ____

**FIGURE 7-2. Solid Minerals Operations Report (SMOR-A),
Form MMS-4059-A**

7. Raw Materials Reporting

Report item	Description	Field size
4	Report Type: Check the Original field if it is the first time the report is submitted for the report period. Check the Modified field if the information being reported is modifying a previously submitted report.	1
5	Effective Report Period: Enter (in number format) the month or quarter and year being reported. See “ Effective Report Period Codes ” on page A-11 for a list of report period codes. If the report frequency is monthly, enter the number of the month followed by the last two digits of the year; for example, June 1992 is entered as 0692. If the report frequency is quarterly, enter Q followed by the number of the calendar quarter and the last two digits of the year; for example, the fourth quarter of 1991, October through December, is entered Q491; and the first quarter of 1992, January through March, is entered as Q192.	4
6	MMS Operator Number: Enter the MMS-assigned identification number for the mine operator. See “ MMS Operator Number ” on page A-1 for directions on obtaining MMS-assigned operator numbers.	5
7	MSHA Mine Number: Enter the seven-digit number assigned by MSHA, preceded by a zero. See “ MSHA Mine Number and MMS-Formatted MSHA Number ” on page A-11 for details of MSHA mine number assignment.	8
8	Operator Name: Enter the name of the operator.	30
9	Mine Name: Enter the name of the mine.	30

7.2.2 Detail information

Report item	Description	Field size
10	Line Number: This is the preprinted number of the line on which operational data are reported.	2
11	Action Code: Enter one of the following action codes: A (add) is used to enter new information on the detail lines of an original report. A is also used to add revised detail lines that replace deleted lines on a modified report. D (delete) is used only on a modified report to remove all information from a detail line on a previously submitted report. If D is used, Modified must have been indicated in report item 4. See “ Report Modification ” on page 7-31 and “ Report Modification ” on page 8-47 for descriptions of how to complete a modified report.	1
12	MMS Lease Number: Enter the MMS-assigned lease numbers for all leases within an approved mine plan that were reported on the MIF. See “ MMS Lease Number ” on page A-1 for details of lease number assignment. Enter the specific MMS lease number on each line in which quality (report items 18 and 19) and disposition (report items 20 and 21) information is reported for that specific lease.	10

7. Raw Materials Reporting

Report item	Description	Field size
13	Product Code: Enter the product code for each raw material mineral produced from the lease. See appendix C for a list of available codes. Enter the specific product code on each line in which quality (report items 18 and 19) and disposition (report items 20 and 21) information is reported for that specific product.	2
14	Beginning Inventory: Enter the allocated, measured, or estimated quantity in inventory at the beginning of the report period for each product code identified in report item 13. Minerals in place are not included in inventory for PAAS reporting purposes. Units of measure to be used in line items 14, 15, 16, 17, 21, 24, and 25 are given in appendix C . Beginning inventory must be expressed as a whole number and be equal to the previous reporting period ending inventory.	9
15	Quantity Produced: Enter the allocated, measured, or estimated quantity produced for each product code identified in report item 13 before any primary processing has taken place. This quantity must be expressed as a whole number.	9
16	Losses from Production: Enter the allocated, measured, or estimated reduction in quantity resulting from primary processing for each quantity listed in report item 15. If there are no primary processing losses or the losses cannot be estimated with reasonable accuracy, no losses are reported and the quantity produced (report item 15) equals the net production (report item 17). Losses from production must be expressed as a whole number.	9

Report item	Description	Field size
17	Net Production: Net production represents additions to raw material inventory as a result of operations. Enter the net production for each product code identified in report item 13. Net production is calculated by subtracting losses from production (report item 16) from the quantity produced (report item 15). Net production must be expressed as a whole number.	9
18	Quality Code: Enter the quality codes for each product code identified in report item 13. See appendix C for a list of available codes.	2
19	Analysis: Enter the analysis factor for each product identified in report item 18. Note that the decimal point is fixed. See appendix C for details of the units and format to be used in reporting analysis results; for example, percentage, ounces per ton, and British thermal units (Btu).	8
20	Disposition Code: Enter the disposition code for each type of disposition for each product. Multiple dispositions may be used for a product code. See “Disposition Type Codes” on page A-28 for a list of available codes.	2
21	Quantity: Enter the quantity for each disposition identified in report item 20. Place angle brackets (<>) around quantities that represent additions to an inventory, such as for disposition codes 94 and 99. Disposition quantity must be expressed as a whole number.	9

7. Raw Materials Reporting

Report item	Description	Field size
22	Facility Number for Transfers: Enter the facility number for the secondary processing or storage facility that receives raw materials transferred from the mine. See “Facility/Measurement Point Number” on page A-8 for an explanation of MMS-assigned facility numbers. This field must be completed if disposition code 81 is used in report item 20.	11
23	Measurement Point: Enter the measurement point number for the scale in which raw material is measured for transfer or sales. See “Facility/Measurement Point Number” on page A-8 for directions on obtaining MMS-assigned measurement point numbers. This field must be completed if disposition code 80 or 81 is used in report item 20.	11
24	Ending Inventory: Enter the allocated, measured, or estimated quantity in inventory at the end of the report period for each product code identified in report item 13. Minerals in place are not included in inventory for PAAS reporting purposes. Ending inventory for a product code must equal beginning inventory plus net production minus all dispositions for that product code. Ending inventory must be expressed as a whole number.	9
25	Grand Totals (Last SMOR-A Page Only): Enter the column totals for report items 14, 15, 16, 17, 21, and 24 in the spaces provided at the bottom of each column. On multipage reports, the grand totals should be entered only on the last page of SMOR-A.	9

Report item	Description	Field size
26	Check if Part A is Continued: Check this field if SMOR-A information continues onto one or more additional pages. Do not check this field on the last page of a multipage SMOR-A.	1

7.2.3 Trailer information

Complete the following report items on each page of a multipage/multipart report.

Report item	Description	Field size
27	Contact Name: Enter the first name, middle initial, and last name of the individual to be contacted if questions arise concerning data on the report. At the reporter's discretion, this person may be the same as the authorizing individual.	30
28	Telephone Number: Enter the telephone number (including area code) of the company contact.	10
29	Extension Number: Enter the extension number, if applicable, of the company contact.	4
30	Authorizing Name: Enter the first name, middle initial, and last name of the individual who is authorizing the report.	30
31	Title: Enter the title of the individual whose name appears in report item 30.	30

7. Raw Materials Reporting

Report item	Description	Field size
32	Authorizing Signature: The individual designated by the company as authorized to report the operational data must sign in this field.	30
33	Date: MMDDYY: Enter the date (month/day/year) that the report was signed; for example, January 4, 1992, is entered as 010492.	6
34	Comments: Enter any comments that would aid MMS in understanding the report. If a Modified report type is indicated in report item 4, enter the reason for the modification. Only the 60 spaces in the Comments field of the first page of a multipage SMOR-A or -B are recorded on the MMS database for further reference.	60
35	Page __ of __ : For each report submission, sequentially number each SMOR page in the first blank, and enter the total number of SMOR-A and -B pages submitted in the second blank. For example, three pages of SMOR-A and two pages of SMOR-B are numbered 1 of 5 , 2 of 5...5 of 5 . The SMOR-B pages should follow the SMOR-A pages, in proper sequence, and should be numbered sequentially.	4

7.2.4 Basic example

Figure 7-3 on page 7-17 illustrates a mine with Federal and State leases. The key considerations of this example are the following:

1. The mine is producing from one State lease and two Federal leases.
2. Mineral production passes through a primary processing plant.

3. Lease production is estimated using a volumetric study based on the mine survey.
4. All deliveries are made by truck and weighed at measurement point 1.
5. Royalty is determined on production weighed at measurement point 1.

This example is typical of minerals for which the royalty quantity is determined at the mine. If the production is sold before secondary processing, or the lease terms specify that royalty quantity is determined at the mine, **the SMOR-A is the only operations report required by PAAS.**

Key details of the completed report include the following:

1. Because this is an original report, only action code **A** is used.
2. Because no Indian leases are involved, the Federal field is checked.
3. Title 30 CFR Part 206.254(a) requires coal operators to report coal quality statistics on the basis of number of Btu's per pound, percent ash, and percent sulfur to MMS using the PAAS form(s). In this example, quality codes of 01 (Btu), 02 (%Ash) and 03 (%Sulfur) are reported in conjunction with the analysis of 11,200 Btu's, 6.25 percent ash, and 0.51 percent sulfur for MMS lease M754812360. The coal quality was taken separately for lease M754724630 and is listed on the SMOR-A as 11,000 Btu, 6.95 percent ash, and 0.48 percent sulfur.
4. The arithmetic total for each detail line and the grand total are calculated as follows:

	Beginning Inventory
+	Net Production
-/+	Dispositions (+ if dispositions represent an addition in inventory)
	<hr/>
=	Ending Inventory

5. The beginning inventory for each lease must equal the ending inventory reported for the preceding period.
6. Federal lease M753632410 had zero production. The MMS lease (M753632410), the product code (ED), and zeros in all quantity

7. Raw Materials Reporting

fields must be reported as a detail line. All producing and nonproducing leases listed on the MIF must be listed on the SMOR-A each month.

7. Production from the State lease is not reported on PAAS.
8. The action code/MMS lease number/product code combination must be entered on each line in which operational data (lines 01, 04, and 07) and quality data (lines 02, 03, 05, and 06) are entered on the SMOR.
9. Production and inventory data (lines 01, 04, and 07) must be entered on the first line of a multiple-line lease/product code combination.

If the royalty quantity is determined after secondary processing, the mine operator also completes the SMOR-B and the operator of the secondary processing facility completes both parts of the SMFR. [“Expanded SMOR-A Examples,”](#) on page 7-21 illustrates reporting examples for more complex SMOR-A reporting situations.

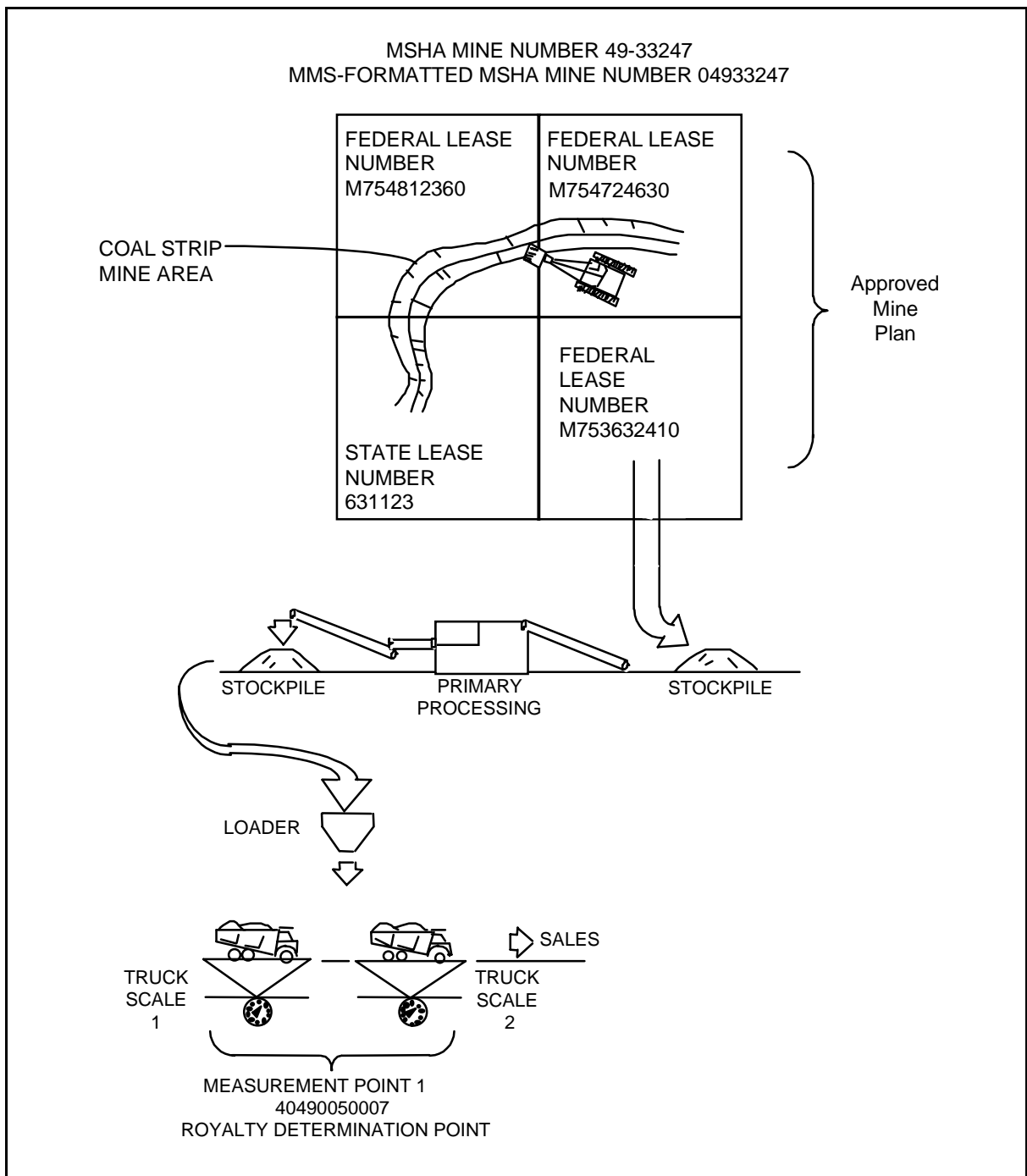


FIGURE 7-3. Basic Example, Schematic

7. Raw Materials Reporting

SMOR-A header information

Report item	Fact
Report Type	Original
Effective Report Period	April 1992
MMS Operator Number	MA223 (assigned by MMS)
MSHA Mine Number	04933247
Operator Name	LMN Mine Company
Mine Name	Blue Mine
Federal or Indian	Federal production (Federal field is checked)

SMOR-A detail line information^a

Report item	Lease 1	Lease 2
Action Code	A (add)	A (add)
MMS Lease Numbers	M754812360	M754724630
Product Code	ED (Bituminous Coal - Raw)	ED (Bituminous Coal - Raw)
Beginning Inventory	150,000 tons	390,000 tons
Quantity Produced	200,000 tons	110,000 tons
Losses from Production	0 tons	0 tons
Net Production	200,000 tons	110,000 tons
Quality Code	01 Btu 02% Ash 03% Sulfur	01 Btu 02% Ash 03% Sulfur
Analysis	11,200 Btu 6.25% Ash 0.51% Sulfur	11,000 Btu 6.95% Ash 0.48% Sulfur
Disposition Code	80 (sales)	80 (sales)
Quantity	220,000 tons	300,000 tons
Measurement Point	40490050007 (truck scale)	40490050007 (truck scale)
Ending Inventory	130,000 tons	200,000 tons

a. MMS lease M753632410 is currently not producing.

**FIGURE 7-3. Basic Example (continued)
Fact sheet**

SMOR-A detail line information^a (continued)

Report item	Lease 1	Lease 2
Grand Totals		
Beginning Inventory	540,000 tons	
Quantity Produced	310,000 tons	
Losses from production	0 tons	
Net Production	310,000 tons	
Disposition Analysis	520,000 tons	
Ending Inventory	330,000 tons	

a. MMS lease M753632410 is currently not producing.

SMOR-A trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	1 of 1

**FIGURE 7-3. Basic Example (continued)
Fact sheet (continued)**

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**SOLID MINERALS OPERATIONS REPORT
PART A - PRODUCTION AND DISPOSITION
OF RAW MATERIALS
(SMOR-A)**

FEDERAL
or
INDIAN
MMS USE

REPORT TYPE: ORIGINAL EFFECTIVE REPORT PERIOD: (4) MMY MMS OPERATOR NUMBER (5) MSHA MINE NUMBER: (8)

| 0 | 4 | 9 | 2 | | M | A | 2 | 2 | 3 | | 0 | 4 | 9 | 3 | 3 | 2 | 4 | 7 |

OPERATOR NAME: (30) **LMN Mine Company** MINE NAME: (30) **Blue Mine**

LINE NUMBER ACTION CODE (1)	MMS LEASE NUMBER (10)	PRODUCT CODE (2)	BEGINNING INVENTORY (9)	QUANTITY PRODUCED (9)	LOSSES FROM PRODUCTION (9)	NET PRODUCTION (9)	QUALITY CODE (3)	ANALYSIS (8)	DISPOSITION CODE (2)	DISPOSITIONS			ENDING INVENTORY (9)
										QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	
1	A M754812360	ED	150000	200000	0	200000	01	11200	80	220000		40490050007	130000
2	A M754812360	ED					02	6 25					
3	A M754812360	ED					03	0 51					
4	A M754724630	ED	390000	110000	0	110000	01	11000	80	300000		40490050007	200000
5	A M754724630	ED					02	6 95					
6	A M754724630	ED					03	0 48					
7	A M753632410	ED	0	0	0	0							0
8													
9													
10													
GRAND TOTALS (LAST SMOR-A PAGE ONLY)			540000	310000	0	310000				520000			330000

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CHECK IF PART A IS CONTINUED WARNING: This is to inform you that failure to report accurately and timely in accordance with the statutes, regulations, or terms of the lease, permit, or contract may result in late payment charges, civil penalties, or liquidated damages being assessed without further notification. Intentional false or inaccurate reporting is subject to criminal prosecution in accordance with applicable Federal law(s).

CONTACT NAME: (First, M.I., Last) (30) Joe Doe	TELEPHONE NUMBER: (10) (123) (456 - 7890)	EXTENSION NUMBER: (4) (5555)
AUTHORIZING NAME: (First, M.I., Last) (30) Jane Doe	TITLE: (30) Mine Manager	
AUTHORIZING SIGNATURE: [signature]	DATE: (6) MDDYY 0 5 1 0 9 2	
COMMENTS: (60)		

**FIGURE 7-3. Basic Example (continued)
Completed SMOR-A**

7.3 Expanded SMOR-A Examples

This section presents SMOR-A reporting situations that have not been addressed in earlier sections and that reflect unique mining situations. The following two examples cover these situations:

1. Reporting inventory adjustment; and
2. Reclassifying material from subeconomic to salable, and reporting losses from primary processing.

If the reporting situation falls outside the guidance provided in this manual, contact MMS/RMP using the toll-free or commercial telephone numbers listed in [“Telephone Information,” on page 4-3.](#)

7.3.1 Expanded Example 1: Reporting inventory adjustment

When production is estimated using truck or shuttle car count prior to being commingled in an inventory, the actual values may be difficult to determine even after the product is measured at the time of disposition. In this situation, an inventory adjustment may be used to correct the difference between the actual and estimated production values. However, in the case where a scale is used to weigh actual lease production and the production is incorrectly reported, a modified report must be submitted.

The key considerations in [figure 7-4](#) are:

1. Mountain Range Company has sold all coal maintained in its inventories during the March 1992 report period.
2. There was no mine production during the March 1992 report period.
3. The inventories were physically separated at the mine site by lease.
4. The quality analysis was taken at the time of disposition; this includes the Btu’s per pound, percent ash, and percent sulfur.

7. Raw Materials Reporting

Key details of the completed report are:

1. An inventory loss (disposition code 95) of 1,300 tons occurred to MMS lease M064812360.
2. An inventory gain (disposition code 94) of 200 tons occurred to MMS lease M064724630.
3. When using disposition codes 94 and 95, the measurement point field is left blank.
4. Brackets are required around the disposition quantity when inventory gain (code 94) is used.
5. The action code/MMS lease number/product code combination must be entered on each line in which operational and quality data are entered on the SMOR.
6. Production and inventory information must be entered on the first line of a multiple-line lease/product code combination.

SMOR-A header information

Report item	Fact
Report Type	Original
Effective Report Period	March 1992
MMS Operator Number	MA223
MSHA Mine Number	04933247
Operator Name	Mountain Range Company
Mine Name	Rock Pile
Federal or Indian	Federal production (Federal field is checked)

SMOR-A detail line information

Report item	Lease 1	Lease 2
Action Code	A (add)	A (add)
MMS Lease Numbers	M064812360	M064724630
Product Code	EI (Subbituminous Coal - Raw)	EI (Subbituminous Coal - Raw)
Beginning Inventory	130,000 tons	200,000 tons
Quantity Produced	0 tons	0 tons
Losses from Production	0 tons	0 tons
Net Production	0 tons	0 tons
Quality Code	01 Btu 02% Ash 03% Sulfur	01 Btu 02% Ash 03% Sulfur
Analysis	8,700 Btu 6.25% Ash 0.15% Sulfur	8,700 Btu 6.25% Ash 0.15% Sulfur
Disposition Code	80 (sales) 95 (Inventory Loss)	80 (sales) 94 (Inventory Gain)
Quantity	128,700 tons 1,300 tons	200,200 tons <200> tons
Measurement Point	40490050007	40490050007
Ending Inventory	0 tons	0 tons

**FIGURE 7-4. Expanded Example 1
Fact sheet**

7. Raw Materials Reporting

SMOR-A detail line information (continued)

Report item	Lease 1	Lease 2
Grand Totals		
Beginning Inventory	330,000 tons	
Quantity Produced	0 tons	
Losses from production	0 tons	
Net Production	0 tons	
Disposition Analysis	330,000 tons	
Ending Inventory	0 tons	

SMOR-A Trailer Information

Report item	Fact
All required trailer information is completed.	
Page Number	1 of 1

**FIGURE 7-4. Expanded Example 1 (continued)
Fact sheet (continued)**

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Royalty Management Program

**SOLID MINERALS OPERATIONS REPORT
PART A - PRODUCTION AND DISPOSITION
OF RAW MATERIALS
(SMOR-A)**

FEDERAL
or
INDIAN
MMS USE

REPORT TYPE: ORIGINAL
 MODIFIED

OPERATOR NAME: (30)
Mountain Range Company

EFFECTIVE REPORT PERIOD: (4) MMY
| 0 | 3 | 9 | 2 |

MMS OPERATOR NUMBER (5)
M | A | 2 | 2 | 3 |

MINE NAME: (30)
Rock Pile

MSHA MINE NUMBER: (8)
| 0 | 4 | 9 | 3 | 3 | 2 | 4 | 7 |

LINE NUMBER ACTION CODE (1)	MMS LEASE NUMBER (10)	PRODUCT CODE (2)	BEGINNING INVENTORY (9)	QUANTITY PRODUCED (9)	LOSSES FROM PRODUCTION (9)	NET PRODUCTION (9)	QUALITY CODE (3)	ANALYSIS (8)	DISPOSITION CODE (2)	DISPOSITIONS			ENDING INVENTORY (9)
										QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	
1	A M064812360	EI	130000	0	0	0	01	8700	80	128700		40490050007	0
2	A M064812360	EI					02	6 25	95	1300			
3	A M064812360	EI					03	0 15					
4	A M064724630	EI	200000	0	0	0	01	8700	80	200200		40490050007	0
5	A M064724630	EI					02	6 25	94	<200>			
6	A M064724630	EI					03	0 15					
7	A M063632410	EI	0	0	0	0							0
8													
9													
10													
GRAND TOTALS (LAST SMOR-A PAGE ONLY)			330000	0	0	0				330000			0

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CHECK IF PART A IS CONTINUED

WARNING: This is to inform you that failure to report accurately and timely in accordance with the statutes, regulations, or terms of the lease, permit, or contract may result in late payment charges, civil penalties, or liquidated damages being assessed without further notification. Intentional false or inaccurate reporting is subject to criminal prosecution in accordance with applicable Federal law(s).

CONTACT NAME: (First, M.I., Last) (30) Tom Smith	TELEPHONE NUMBER: (10) (123) (456 - 7890)	EXTENSION NUMBER: (4) ()
AUTHORIZING NAME: (First, M.I., Last) (30) Tom Smith	TITLE: (30) Mine Manager	
AUTHORIZING SIGNATURE: [signature]	DATE: (6) MMDDYY 0 5 0 1 9 2	
COMMENTS: (60)		

**FIGURE 7-4. Expanded Example 1 (continued)
Completed SMOR-A**

7.3.2 Expanded Example 2: Reclassifying material from subeconomic to salable, and reporting losses from primary processing

The key considerations of [figure 7-5 on page 7-28](#) are:

1. A portion of the sand and gravel is removed using primary processing (screens) and is not salable because it contains too much clay.
2. The amount of subeconomic material is deducted from the monthly production by using the Losses From Production field on the SMOR-A.
3. The subeconomic material is then stockpiled for later use; the inventory of the subeconomic material has not been reported to MMS.
4. Market prices later rise enough to make the subeconomic production salable.

Key details of the completed SMOR-A are:

1. The quantity of material reclassified as salable is added to the SMOR-A using an inventory adjustment (disposition 94 [gain]) and is listed on the SMOR-A the month that the product was sold.
2. An explanation is required in the Comments field to specify the nature of such a large inventory gain in comparison to the monthly production.
3. Because lease M090003850 is an Indian Tribal lease, the Indian field is checked.
4. Sand and gravel sales are measured in tons on a truck scale, product code SF (sand and gravel—tons).

5. The net production is calculated as follows: The LMN Mine Company produced 7,300 tons of sand and gravel during February 1992, but 300 tons were returned to the mine because of primary processing, leaving a net production of 7,000 tons.

	Quantity Produced
-	Losses from Production
	<hr/>
=	Net Production

7. Raw Materials Reporting

SMOR-A header information

Report item	Fact
Report Type	Original
Effective Report Period	February 1992
MMS Operator Number	MA333
MSHA Mine Number	00465001
Operator Name	LMN Mine Company
Mine Name	Sand Trap
Federal or Indian	Indian (Indian field is checked)

SMOR-A detail line information

Report item	Fact
Action Code	A (add) (Lines 1 and 2)
MMS Lease Numbers	M090003850 (lines 1 and 2)
Product Code	SF (Sand Gravel-tons)
Beginning Inventory	7,500 tons
Quantity Produced	7,300 tons
Losses from Production	300 tons
Net Production	7,000 tons
Disposition Code	80 (Sales) 94 (Inventory Gain)
Quantity	27,000 tons
Measurement Point	40040350001
Ending Inventory	7,500 tons
Grand Totals	
Beginning Inventory	7,500 tons
Quantity Produced	7,300 tons
Losses from Production	300 tons
Net Production	7,000 tons
Disposition Analysis	7,000 tons
Ending Inventory	7,500 tons

**FIGURE 7-5. Expanded Example 2
Fact sheet**

SMOR-A trailer information

Report item	Fact
All required trailer information is completed.	
Comments	20,000 tons of sand and gravel were reclassified as salable
Page Number	1 of 1

**FIGURE 7-5. Expanded Example 2 (continued)
Fact sheet (continued)**

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**SOLID MINERALS OPERATIONS REPORT
PART A - PRODUCTION AND DISPOSITION
OF RAW MATERIALS
(SMOR-A)**

FEDERAL
or
INDIAN

MMS USE

REPORT TYPE: ORIGINAL EFFECTIVE REPORT PERIOD: (4) MMY MMS OPERATOR NUMBER (5) MSHA MINE NUMBER: (8)

MODIFIED | 0 | 2 | 9 | 2 | M | A | 3 | 3 | 3 | | 0 | 0 | 4 | 6 | 5 | 0 | 0 | 1 |

OPERATOR NAME: (30) LMN Mine Company MINE NAME: (30) Sand Trap

LINE NUMBER ACTION CODE (1)	MMS LEASE NUMBER (10)	PRODUCT CODE (2)	BEGINNING INVENTORY (9)	QUANTITY PRODUCED (9)	LOSSES FROM PRODUCTION (9)	NET PRODUCTION (9)	QUALITY CODE (3)	ANALYSIS (8)	DISPOSITION CODE (2)	DISPOSITIONS			ENDING INVENTORY (9)
										QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	
1	A	M090003850	SF	7500	7300	300			80	27000		40040350001	7500
2	A	M090003850	SF						94	<20000>			
3													
4													
5													
6													
7													
8													
9													
10													
GRAND TOTALS (LAST SMOR-A PAGE ONLY)				7500	7300	300				7000			7500

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CONTACT NAME: (First, M.I., Last) (30) Betty Miner	TELEPHONE NUMBER: (10) (123) (456 - 7890)
AUTHORIZING NAME: (First, M.I., Last) (30) Jane Ore	EXTENSION NUMBER: (4) ()
AUTHORIZING SIGNATURE: [signature]	TITLE: (30) Mine Manager
DATE: (6) MDDYY 0 4 1 0 9 2	COMMENTS: (60) 20000 tons of sand and gravel were reclassified as salable.

**FIGURE 7-5. Expanded Example 2(continued)
Completed SMOR-A**

7.4 Report Modification

The following sections describe procedures for report modification of the SMOR-A.

7.4.1 Situations requiring correction

When a reporter discovers an error in previously submitted operational data already accepted into the PAAS database, a modified report must be submitted. For example, a reporter **must** submit a modified report for incorrect sales or transfer quantities. A reporter may submit a modified report when actual values for previously reported production estimates are known. However, an inventory adjustment can be used when actual values for previously reported inventory estimates are known.

If MMS receives a report that contains an excessive number of errors, MMS may require the operator to resubmit the report. This situation, as well as error correction procedures, is discussed in [Appendix D, "Error Correction and Edit Criteria."](#)

7.4.2 How to modify reports: Add and delete functions

When MMS processes a modified report, the new data replace the data submitted previously. The following procedures describe how to complete each section of a modified report:

Header Information

1. Check Modified in the Report Type field.
2. Complete the following key fields exactly as reported on the original submission:
 - a. Effective report period
 - b. MMS operator name
 - c. MMS operator number
 - d. MSHA mine number

Detail Information

1. For any line(s) containing errors, duplicate the entire line(s) exactly as it was accepted into the PAAS database. The accepted data may differ from those reported on the original submission. Refer to the confirmation report(s) to determine if MMS made any changes to the original submission. Enter action code **D** to remove incorrect lines on the PAAS database.
2. Enter the entire corrected or additional line(s) that was not submitted on the original report using action code **A**.
3. Compute the grand total(s) as follows:
 - a. Add all values that have an **A** action code.
 - b. Subtract all values that have a **D** action code.
 - c. Enter the sum, whether positive or negative, on the grand total line.
 - d. Place brackets (<>) around negative quantities entered in the grand total line.
4. The delete line(s) must be listed before the corrected add line(s) for the complete lease/product combination. As shown in [figure 7-6 on page 7-36](#), lines 1, 2, and 3 for lease M064812360 ([fig. 7-4, p. 7-25](#)) must be deleted before corrected lines 4, 5, and 6 are added.

Trailer Information

Complete all fields only on the first page of a modified report.

7.4.3 **Modified reporting example: Sale of an additional 300 tons of coal not reported on the original submission**

Figure 7-6 on page 7-34 illustrates how to modify the original SMOR-A (fig. 7-4 on p. 7-25) presented in “Expanded Example 1: Reporting inventory adjustment” on page 7-21. The key considerations and diagram used for figure 7-6 are the same as those in “Expanded Example 1: Reporting inventory adjustment.” Key details of the completed modified report are:

1. The Modified field is checked because this report is modifying a previously submitted report.
2. The effective report period is entered on the modified report exactly as entered on the original submission.
3. The incorrect lease information is entered exactly as **accepted** on PAAS for the original submission (fig. 7-3 on p. 7-17); action code **D** is used to delete the line.
4. The corrected lease information is added immediately after the delete line for that product/lease combination.
5. Because delete lines have an assumed negative value and add lines have a positive value, the grand total(s) quantities reflect the change in inventory.
6. Even though there were no changes to the quality codes and analysis, the complete lease/product combination must be deleted before the corrected lines can be added.
7. Royalties on the additional 300 tons must be submitted to MMS.
8. Inventory loss on the original document was reduced by 300 tons.

7. Raw Materials Reporting

SMOR-A header information

Report item	Fact
Report Type	Modified
Effective Report Period	March 1992
MMS Operator Number	MA223
MSHA Mine Number	04933247
Operator Name	Mountain Range Company
Mine Name	Rock Pile
Federal or Indian	Federal production (Federal field is checked)

SMOR-A detail line Information

Report item	Original report fact	Modified report fact
Action Code	D (delete) ^a (lines 1-3)	A (add)
MMS Lease Numbers	M064812360 (lines 1-3)	M064812360 (lines 4-6)
Product Code	EI	EI
Beginning Inventory	130,000 tons	130,000 tons
Quantity Produced	0 tons	0 tons
Losses from Production	0 tons	0 tons
Net Production	0 tons	0 tons
Quality Code	01, 02, 03	01, 02, 03
Analysis	8,700 Btu 6.25% Ash 0.15% Sulfur	8,700 Btu 6.25% Ash 0.15% Sulfur
Disposition Code	80 (line 1) 95 (line 2)	80 (line 4) 95 (line 5)
Quantity	128,700 tons (line 1) 1,300 tons (line 2)	129,000 tons (line 4) 1,000 tons (line 5)
Measurement Point	40490050007	40490050007
Ending Inventory	0 tons	0 tons

- a. The action code used on the original document was an **A** (add) code. Delete (**D**) action code is used to remove original report facts and can only be used on a modified document.

**FIGURE 7-6. Modified Example 1
Fact sheet**

SMOR-A detail line Information (continued)

Report item	Original report fact	Modified report fact
Grand Totals		
Beginning Inventory	0 tons	
Quantity Produced	0 tons	
Losses from production	0 tons	
Net Production	0 tons	
Disposition Analysis	0 tons	
Ending Inventory	0 tons	

SMOR-A trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	1 of 1

**FIGURE 7-6. Modified Example 1 (continued)
Fact sheet (continued)**

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U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

**SOLID MINERALS OPERATIONS REPORT
PART A - PRODUCTION AND DISPOSITION
OF RAW MATERIALS
(SMOR-A)**

FEDERAL
or
INDIAN
MMS USE

REPORT TYPE: ORIGINAL EFFECTIVE REPORT PERIOD: (4) MMY MMS OPERATOR NUMBER (5) MSHA MINE NUMBER: (8)

MODIFIED | 0 | 3 | 9 | 2 | | M | A | 2 | 2 | 3 | | 0 | 4 | 9 | 3 | 3 | 2 | 4 | 7 |

OPERATOR NAME: (30) Mountain Range Company MINE NAME: (30) Rock Pile

LINE NUMBER ACTION CODE (1)	MMS LEASE NUMBER (10)	PRODUCT CODE (2)	BEGINNING INVENTORY (9)	QUANTITY PRODUCED (9)	LOSSES FROM PRODUCTION (9)	NET PRODUCTION (9)	QUALITY CODE (3)	ANALYSIS (8)	DISPOSITION CODE (2)	DISPOSITIONS			ENDING INVENTORY (9)
										QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	
1	D M064812360	EI	130000	0	0	0	01	8700	80	128700		40490050007	0
2	D M064812360	EI					02	6 25	95	1300			
3	D M064812360	EI					03	0 15					
4	A M064812360	EI	130000	0	0	0	01	8700	80	129000		40490050007	0
5	A M064812360	EI					02	6 25	95	1000			
6	A M064812360	EI					03	0 15					
7													
8													
9													
10													
GRAND TOTALS (LAST SMOR-A PAGE ONLY)			0	0	0	0				0			0

CHECK IF PART A IS CONTINUED WARNING: This is to inform you that failure to report accurately and timely in accordance with the statutes, regulations, or terms of the lease, permit, or contract may result in late payment charges, civil penalties, or liquidated damages being assessed without further notification. Intentional false or inaccurate reporting is subject to criminal prosecution in accordance with applicable Federal law(s).

CONTACT NAME: (First, M.I., Last) (30) Tom Smith TELEPHONE NUMBER: (10) (123) (456 - 7890) EXTENSION NUMBER: (4) ()

AUTHORIZING NAME: (First, M.I., Last) (30) Tom Smith TITLE: (30) Mine Manager

AUTHORIZING SIGNATURE: [signature] DATE: (6) MMDDYY | 0 | 9 | 0 | 1 | 9 | 2 | COMMENTS: (60)

**FIGURE 7-6. Modified Example 1
Completed SMOR-A**

8. Facility Reporting

8.1 Report Overview

The following sections provide an overview of reporting with the SMFR, Forms MMS-4060-A and -B and SMOR, Forms MMS-4059-A and -B as they relate to reporting from a remote storage or secondary facility.

8.1.1 Purpose of the report

The SMFR-A (Process Operations) identifies the quantity and quality of products input to and output from a secondary processing facility for each source mine.

The SMFR-B (Inventory) provides:

1. Inventory information by product type and source mine for each remote storage or secondary processing facility;
2. Detail of raw material receipts;
3. Detail of processed materials the facility produces; and
4. Disposition information for processed raw product sales, transfers, and other product disposal for each remote storage or secondary processing facility.

The SMOR-B tracks mine product sales from a facility. The SMOR-B:

1. Specifies the type and quantity of product sold from a secondary processing or remote storage facility; and
2. Allocates the quantity that is subject to royalty back to a source Federal or Indian lease.

8.1.2 Who must file

Mine operators who transfer and sell Federal or Indian solid minerals production to remote storage or secondary processing facilities when royalties have not yet been determined must file the SMFR and SMOR-B.

8.1.3 When to file

Reports must be submitted monthly and received by MMS no later than the 15th day of the second month following the end of the report period; for example, the January production report is due on or before March 15.

The SMFR-A should be submitted only for the report periods in which secondary processing has occurred.

The SMFR-B should be submitted only for the report periods in which:

1. Raw and/or processed inventory is maintained at a remote storage or secondary processing facility.
2. Transfer, production, or disposition activity occurs at a remote storage or secondary processing facility.

Remote storage and secondary processing facility activity must be reported on separate SMFR-B reports.

8.1.4 Report interrelationships

This section discusses the relationships among the SMOR and SMFR forms and summarizes the reporting responsibilities.

The **SMFR-A and -B** reports detail processing or storage facility activity and are submitted by the mine operator. These forms are required to provide **mine-level** data on facility production, inventory, and disposition. Regardless of whether or not the mine and facility operators are the same company, both the SMOR and SMFR are submitted by the mine operator. The SMFR-A provides detailed

information on process inputs/outputs. The SMFR-B shows facility production, inventory, and disposition.

The **SMOR-A and -B** reports are submitted by mine operators to provide **lease-level** data on mine production, inventory, and disposition. The SMOR-A must be submitted each report period. It is the only report submitted when mine production is sold or royalty is determined before raw material is transferred to a facility. If production is sold or royalty is determined after the transfer, the mine operator submits a combination of SMOR and SMFR documents. The SMOR-B is used to allocate production from a facility back to individual leases within a mine. The SMOR-B is submitted only when raw or processed products are sold from a facility.

Figure 8-1 is a schematic diagram showing the interrelationships of the SMOR and SMFR forms, as summarized below.

SMOR-A: Shows the transfer of raw material from a mine to a processing or storage facility. The transfers to the facility are shown as raw materials receipts on the SMFR-B. In **figure 8-1**, the SMOR-A submitted for mine 04933247 shows 200,000 tons of raw material transferred to facility 10490050001. The SMFR-B submitted for that facility shows those 200,000 tons from mine 04933247 as raw material receipts.

SMFR-B: Identifies the quantity of raw material receipts and the amount being input for secondary processing. It also identifies the quantity of processed material(s) produced and disposed of for each source mine. In **figure 8-1**, the amount of 200,000 tons is shown as a raw material receipt and the amount being input for processing. Also shown are 150,000 tons of processed material that was produced and sold from mine 04933247.

SMFR-A: Identifies the quantity and quality of raw product input and the amount of material processed at the secondary processing facility for each source mine. In **figure 8-1**, 150,000 tons of processed material was produced from 200,000 tons of raw material.

SMOR-B: Shows the sales of minerals from a secondary processing or remote storage facility according to lease. These sales, which are allocated back to the lease, are shown for the entire mine on SMFR-B. In **figure 8-1**, the SMFR-B for facility 10490050001 shows 150,000 tons of processed material from mine 04933247 as sales. This same quantity is shown on SMOR-B as the total sold by facility 10490050001.

8. Facility Reporting

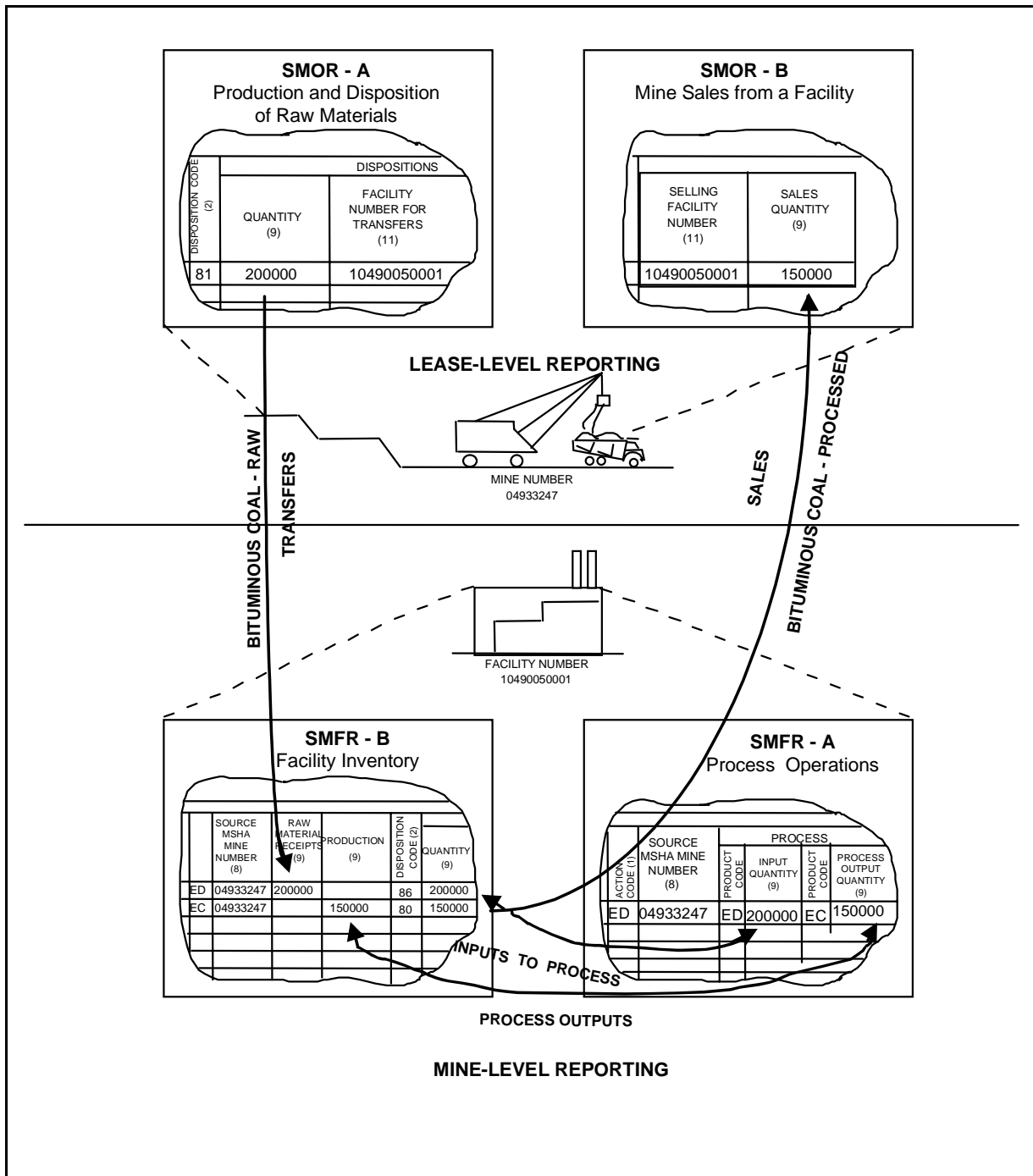


FIGURE 8-1. Report interrelationships

8.2 SMOR-B Instructions

The header and trailer information for SMOR-A and SMOR-B (fig. 8-2) is identical. See “[Header information](#)” on page 7-6 and “[Trailer information](#)” on page 7-13, respectively, for header and trailer instructions. The SMOR-B must be completed in conjunction with the SMOR-A. Detail information for SMOR-A is in “[Detail information](#)” on page 7-9. Detail information for the SMOR-B is outlined below.

Report item	Description	Field size
36	Line Number: This is the preprinted number of the line on which operational data are reported.	2
37	Action Code: Enter one of the following action codes: A (add) is used to enter new information on the detail lines of an original report. A is also used to add revised detail lines that replace deleted lines on a modified report. D (delete) is used only on a modified report to remove all information from a detail line on a previously submitted report. If D is used, Modified must be checked in report item 4. See “ Report Modification ” on pages 7-31 and 8-47 for descriptions of how to complete a modified report.	1
38	Source MMS Lease Number: Enter the specific MMS-formatted lease number on each line in which sales quantities (report item 41) are being reported.	10

8. Facility Reporting

Report item	Description	Field size
39	Product Code: Enter the product code for each mineral sold from each secondary processing and remote storage facility and credited to a source lease at the mine. See appendix C for a list of available codes.	2
40	Selling Facility Number: Enter the MMS facility number on each line that reports a sales quantity for a product sold from a facility. Note that in the case where multiple products are sold from the same facility, the selling facility number must be filled in for each line reporting such sales.	11
41	Sales Quantity: Enter the quantity of the products sold from each processing or storage facility allocated back to the source lease. Sales quantity must be expressed as a whole number.	9
42	Grand Total (Last SMOR-B Page Only): Enter the total of the allocated sales quantities listed in report item 41. On multipage reports, the grand totals should be entered only on the last page of SMOR-B.	9
43	Check if Part B is Continued: Check this field if SMOR-B continues onto one or more additional pages. Do not check this field on the last page of a multipage submission.	1

①
REPORTER USE

OMB 1010-0063
(Expires December 31, 19XX)

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

**SOLID MINERALS OPERATIONS REPORT
PART B - MINE SALES FROM A FACILITY
(SMOR-B)**

②
MMS USE

③ FEDERAL
or
INDIAN

REPORT TYPE: ORIGINAL ④
 MODIFIED

EFFECTIVE REPORT PERIOD:(4) MMY ⑤

--	--	--	--

MMS OPERATOR NUMBER:(5) ⑥

--	--	--	--	--	--

MSHA MINE NUMBER:(8) ⑦

--	--	--	--	--	--	--	--

OPERATOR NAME:(30) ⑧

MINE NAME: (30) ⑨

LINE NUMBER ⑩	ACTION CODE(1) ⑪	SOURCE MMS LEASE NUMBER (10) ⑫	PRODUCT CODE (2) ⑬	SELLING FACILITY NUMBER (11) ⑭	SALES QUANTITY (9) ⑮
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
GRAND TOTAL ⑯					
(LAST SMOR-B PAGE ONLY)					

CHECK IF PART B IS CONTINUED ⑰

CONTACT NAME: (First, M.I., Last) (30)	TELEPHONE NUMBER:(10)	EXTENSION NUMBER:(4)
AUTHORIZING NAME: (First, M.I., Last) (30)	TITLE:(30)	
AUTHORIZING SIGNATURE:	DATE:(6)MMDDYY	
	COMMENTS:(60)	

**FIGURE 8-2. Solid Minerals Operations Report
Part B (SMOR-B), Form MMS-4059-B**

8.3 SMFR-A and -B Instructions

This section contains instructions for completing SMFR-A and -B. “Header information: SMFR-A and -B” on page 8-11 through “Trailer information: SMFR-A and -B” on page 8-18 describe the report items of the SMFR-A and SMFR-B as shown in figures 8-3 on page 8-9 and 8-4 on page 8-10. Each of the numbers shown on the figures corresponds with a description of the proper way to fill in that report item. This section is organized as follows:

Header information:	Describes each report item used to identify the reporter, secondary processing or storage facility, and the report period.
Detail information:	Describes each report item used to report process input/output operations and describes each report item used to report the inventory and dispositions of minerals from a secondary processing or storage facility.
Trailer information:	Describes each report item used to identify the company representative authorized to sign the report and the person to whom MMS should direct any questions.

①
REPORTER USE

OMB Approval No. 1010-0063
Expiration Date: December 31, 19XX

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

SOLID MINERALS FACILITY REPORT
PART A - PROCESS OPERATIONS
(SMFR-A)

②
MMS USE

③ FEDERAL
or
INDIAN

PROPRIETARY - FOR U.S. GOVERNMENT USE ONLY

REPORT TYPE: <input type="checkbox"/> ORIGINAL ④ <input type="checkbox"/> MODIFIED	EFFECTIVE REPORT PERIOD:(4)MMYY ⑤ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	MMS OPERATOR NUMBER:(5) ⑥ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
OPERATOR NAME:(30) ⑦ <input type="text"/>		MMS FACILITY NUMBER: (11) ⑧ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
FACILITY NAME: (30) ⑨ <input type="text"/>		OPERATOR'S FACILITY NUMBER: (20) ⑩ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

⑪ LINE NUMBER	⑫ ACTION CODE(1)	SOURCE MSHA MINE NUMBER (8) ⑬	PROCESS INPUTS			PROCESS OUTPUTS		
			⑭ PRODUCT CODE (2)	⑮ QUANTITY (9)	⑯ QUALITY CODE (2)	⑰ ANALYSIS (8)	⑱ PRODUCT CODE (2)	⑳ QUALITY CODE (2)
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
⑲ GRAND TOTALS (LAST SMFR-A PAGE ONLY) ㉒								

⑳ CHECK IF PART A IS CONTINUED

CONTACT NAME: (First, M.I., Last) (30) ㉔	TELEPHONE NUMBER:(10) ㉕	EXTENSION NUMBER:(4) ㉖
AUTHORIZING NAME: (First, M.I., Last) (30) ㉗	TITLE:(30) ㉘	
AUTHORIZING SIGNATURE: ㉙	DATE:(6)MMDDYY ㉚ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
COMMENTS:(60) ㉛		

FORM MMS-4060-A (REV. 2/97) ㉜ PAGE ___ OF ___

**FIGURE 8-3. Solid Minerals Facility Report
Part A (SMFR-A), Form MMS-4060-A**

①

OMB Approval No. 1010-0063
Expiration Date: December 31, 19XX

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

SOLID MINERALS FACILITY REPORT
PART B - INVENTORY
(SMFR-B)

②

③ FEDERAL
or
INDIAN MMS USE

REPORT TYPE: ORIGINAL ④ MODIFIED ⑤ EFFECTIVE REPORT PERIOD: (4)MMYY

MMS OPERATOR NUMBER: (5) ⑥

OPERATOR NAME: (30) ⑦ MMS FACILITY NUMBER: (11) ⑧

FACILITY NAME: (30) ⑨ OPERATOR'S FACILITY NUMBER: (20) ⑩

LINE NUMBER (33)	ACTION CODE (1) (34)	PRODUCT CODE (2) (35)	SOURCE MSHA MINE NUMBER (8) ③⑥	BEGINNING INVENTORY (9) ③⑦	RAW MATERIAL RECEIPTS (9) ③⑧	PRODUCTION (9) ③⑨	DISPOSITION CODE (2) (40)	DISPOSITIONS			ENDING INVENTORY (9) ④④
								QUANTITY (9) ④①	FACILITY NUMBER FOR TRANSFERS (11) ④②	MEASUREMENT POINT (11) ④③	
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
④⑥ GRAND TOTAL (LAST SMFR-B PAGE ONLY) ④⑤											

CHECK IF PART B IS CONTINUED

CONTACT NAME: (First, M.I., Last) (30) ②④ TELEPHONE NUMBER: (10) ②⑤ EXTENSION NUMBER: (4) ②⑥

AUTHORIZING NAME: (First, M.I., Last) (30) ②⑦ TITLE: (30) ②⑧

AUTHORIZING SIGNATURE: ②⑨ DATE: (6)MMDDYY ③⑩ COMMENTS: (60) ③①

FORM MMS-4060-B (REV. 2/97) ③② PAGE ___ OF ___

FIGURE 8-4. Solid Minerals Facility Report Part B (SMFR-B), Form MMS-4060-B

8.3.1 Header information: SMFR-A and -B

Report item	Description	Field size
1	Reporter Use: This field is for reporter use only. Entries are optional.	NA
2	MMS Use: This field is for MMS RDP use only.	NA
3	Federal or Indian: Check the correct field to indicate whether the facility production is Federal or Indian.	1
4	Report Type: Check the Original field if it is the first time the report is submitted for the report period. Check the Modified field if the information being reported is amending a previously submitted report.	1
5	Effective Report Period: Enter the number of the month or quarter and year being reported. See “Effective Report Period Codes” on page A-11 for a list of report period codes. If the report frequency is monthly, enter the number of the month followed by the last two digits of the year; for example, June 1992 is entered as 0692.	4
6	MMS Operator Number: Enter the MMS-assigned identification number for the facility operator. See “MMS Operator Number” on page A-1 for directions for obtaining MMS-assigned operator numbers.	5
7	Operator Name: Enter the name of the mine operator using the facility.	30

8. Facility Reporting

Report item	Description	Field size
8	MMS Facility Number: Enter the MMS-assigned facility number. See “Facility/Measurement Point Number” on page A-8 for directions for obtaining an MMS-assigned facility number.	11
9	Facility Name: Enter the name of the facility.	30
10	Operator’s Facility Number: Enter the operator’s internal number that identifies the processing facility. Completing this field is optional. MMS uses this field when contacting the facility.	20

8.3.2 Detail information: SMFR-A

Report item	Description	Field size
11	Line Number: This is the preprinted number of the line on which operational data are reported.	2

Report item	Description	Field size
12	<p>Action Code: Enter one of the following action codes:</p> <p>A (add) is used to enter new information on the detail lines of an original report. A is also used to add revised detail lines that replace deleted lines on a modified report.</p> <p>D (delete) is used only on a modified report to remove all information from a detail line on a previously submitted report. If D is used, Modified must have been indicated in report item 4. See “Report Modification” on page 8-47 for a description of how to complete a modified report.</p>	1
13	<p>Source MSHA Mine Number: Enter the specific MMS-formatted source MSHA mine number on each line in which input/output detail lines are reported for that specific mine.</p>	8
14	<p>Product Code: Enter the product code for each raw material input to the processing facility. See appendix C for a list of available codes. Note that the specific product code must be entered on each line in which quality information (report items 16 and 17) is reported for a specific raw or processed product.</p>	2
15	<p>Quantity: Enter the quantity input to the process during the report period. Units of measure to be used in report items 15 and 19 are given in appendix C. Input quantity must be expressed as a whole number.</p>	9
16	<p>Quality Code: Enter the quality codes for each product code identified in report item 14. See appendix C for a list of available codes.</p>	2

8. Facility Reporting

Report item	Description	Field size
17	Analysis: Enter the analysis factor for each quality code identified in report item 16. The decimal point is fixed. See appendix C for details of the units and format to be used in reporting analysis results; for example, percentage, ounces per ton, and Btu.	8
18	Product Code: Enter the product code for each processed material produced by the facility. Note that the specific product code must be entered on each line in which quality information (report items 20 and 21) is reported for that specific processed product.	2
19	Quantity: Enter the quantity output from the process during the report period. Output quantity must be expressed as a whole number.	9
20	Quality Code: Enter the quality code for each product code identified in report item 18. See appendix C for a list of available codes.	2
21	Analysis: Enter the analysis factor for each quality code identified in report item 20. The decimal point is fixed.	8
22	Grand Totals (Last SMFR-A Page Only): Enter the column totals for input and output quantities. On a multipage report, the grand totals should be entered only on the last page of the SMFR-A.	9
23	Check if Part A is Continued: Check this field if SMFR-A information continues onto one or more additional pages. Do not check this field on the last page of a multipage SMFR-A submission.	1

8.3.3 Detail information: SMFR-B

Report item	Description	Field size
33	Line Number: This is the preprinted number of the line on which operational data are reported.	2
34	Action Code: Enter one of the following action codes: A (add) is entered on each line in which new information is added to an original report. A is also used to add revised detail lines that replace deleted lines on a modified report. D (delete) is used only on a modified report to remove a detail line on a previously submitted report. If D is used, Modified must be checked in report item 4. See “Report Modification” on page 8-47 for a description of how to complete a modified report.	1
35	Product Code: Enter the product code for each mineral received or produced by the facility. See appendix C for a list of available codes.	2
36	Source MSHA Mine Number: Enter the specific source MSHA mine number on each line in which inventory (report items 37 and 44), raw material receipts (report item 38), production (report item 39) and/or disposition (report items 40 and 41) information is reported for that specific mine.	8

8. Facility Reporting

Report item	Description	Field size
37	Beginning Inventory: Enter the allocated, measured, or estimated quantity in inventory at the beginning of the report period for each product code identified in report item 35. Units of measure to be used in report items 37, 38, 39, 41, 44, and 45 are given in appendix C . The beginning inventory for each mine or facility should be the same as the quantity reported as ending inventory for the preceding report period. Beginning inventory must be expressed as a whole number.	9
38	Raw Material Receipts: Enter the quantity of each raw material product received from each mine. Only material received from a mine is reported here.	9
39	Production: Enter the allocated, measured, or estimated quantity produced by the facility for each processed product code identified in report item 35.	9
40	Disposition Code: Enter the disposition code for each type of disposition for each product code. Multiple disposition codes may be used for a product code. See “Disposition Type Codes” on page A-28 for a list of available codes.	2
41	Quantity: Enter the quantity for each disposition code identified in report item 40. Disposition quantity must be expressed as a whole number.	9

Report item	Description	Field size
42	Facility Number for Transfers: This field is used only when transfers of processed material occur before sales. Enter the MMS facility number of the storage facility to which processed material is being transferred. When a storage facility reports receipts of these transfers, the MMS number of the source processing facility is entered. This field must be completed if disposition code 81 or 82 is used in report item 40.	11
43	Measurement Point: Enter the measurement point number for the scale on which processed material is measured for transfer or sales. See “Facility/Measurement Point Number” on page A-8 for directions describing how to obtain MMS-assigned measurement point numbers. This field must be completed if disposition code 80 or 81 is used in report item 40.	11
44	Ending Inventory: Enter the allocated, measured, or estimated quantity in inventory for each product code identified in report item 35. This quantity must be expressed as a whole number.	9
45	Grand Totals (Last SMFR-B Page Only): Enter the column totals for beginning inventory, raw materials receipts, production, disposition quantity, and ending inventory. On multipage reports, the grand totals should be entered only on the last page of SMFR-B.	9

Report item	Description	Field size
46	Check if Part B is Continued: Check this field if SMFR-B information continues onto one or more additional pages. Do not check this field on the last page of a multipage SMFR-B submission.	1

8.3.4 Trailer information: SMFR-A and -B

The following report items are completed on each page of a multipage SMFR-B submission.

Report item	Description	Field size
24	Contact Name: Enter the first name, middle initial, and last name of the individual to be contacted if a question arises concerning data on the report. At the discretion of the reporter, this person may be the same as the authorizing individual.	30
25	Telephone Number: Enter the telephone number (including area code) of the company contact.	10
26	Extension Number: Enter the extension number, if applicable, of the company contact.	4
27	Authorizing Name: Enter the first name, middle initial, and last name of the individual who is authorizing the report.	30
28	Title: Enter the title of the individual whose name appears in report item 27.	30

Report item	Description	Field size
29	Authorizing Signature: The individual designated by the company as authorized to report the operational data must sign in this field.	NA
30	Date: MMDDYY: Enter the date (month/day/year) that the report was signed; for example, January 4, 1991, is entered as 010491.	6
31	Comments: Enter any relevant comments that would aid MMS in understanding the report. If Modified is indicated in report item 4, enter the reason for the modification. Only the 60 spaces in the Comments field of the first page of a multipage SMFR-A and -B are recorded on the database for further reference.	60
32	Page __ of __ : For each report submission, sequentially number each SMFR page in the first blank. In the second blank, enter the total number of SMFR-A and -B pages submitted. For example, one SMFR-A page and four SMFR-B pages are numbered <u>1</u> of <u>5</u> , <u>2</u> of <u>5</u> ... <u>5</u> of <u>5</u> .	4

8.4 Reporting Examples

The following sections contain examples of reporting facility production.

Each example consists of a schematic diagram, fact sheet(s), and completed form(s). Reporting Examples 1 and 2 ([fig. 8-5 on p. 8-22](#) and [fig. 8-7 on p. 8-34](#)) contain a set of SMOR-A and -B reports and a set of SMFR-A and -B reports.

8.4.1 Reporting Example 1: SMOR-A and -B

Figure 8-5 on page 8-22 illustrates the sale of raw material from a mine, transfers of raw material to a secondary processing facility, and facility sales of processed material. The key considerations that differ from the basic example described in “SMOR-A Instructions” on p. 7-5 are the following:

1. Raw bituminous coal is being transferred to a secondary processing facility on the SMOR-A using disposition code 81.
2. Raw and processed bituminous coal sales are measured at two different measurement points (measurement points 2 and 3, respectively).
3. Quality analyses of raw coal include Btu, percent ash, and percent sulfur.
4. Sales of processed bituminous coal at the secondary processing facility are allocated back to the source mine (MSHA mine number 04933247) on SMFR-B (“Reporting Example 1: SMFR-A and -B” on p. 8-27).
5. Sales are then allocated back to the source lease on the SMOR-B.

Key details of the completed SMOR-A and -B are:

1. Sales of raw bituminous coal are shown on the SMOR-A; sales of processed coal allocated back to the lease level are shown on the SMOR-B.
2. The product code on the SMOR-B is different from the one used on the SMOR-A. The processed material shown on the SMOR-B requires a different product code than the raw material sales on the SMOR-A.
3. The SMOR-B is used to allocate sales quantities from a facility back to a source MMS lease number by product and selling facility.

4. On the SMOR-A, the action code/MMS lease number/product code combination must be entered on each line in which quality code and analysis are entered.
5. The SMOR-A and -B pages for MSHA Mine Number 04933247 should be stapled together prior to sending to MMS.

8. Facility Reporting

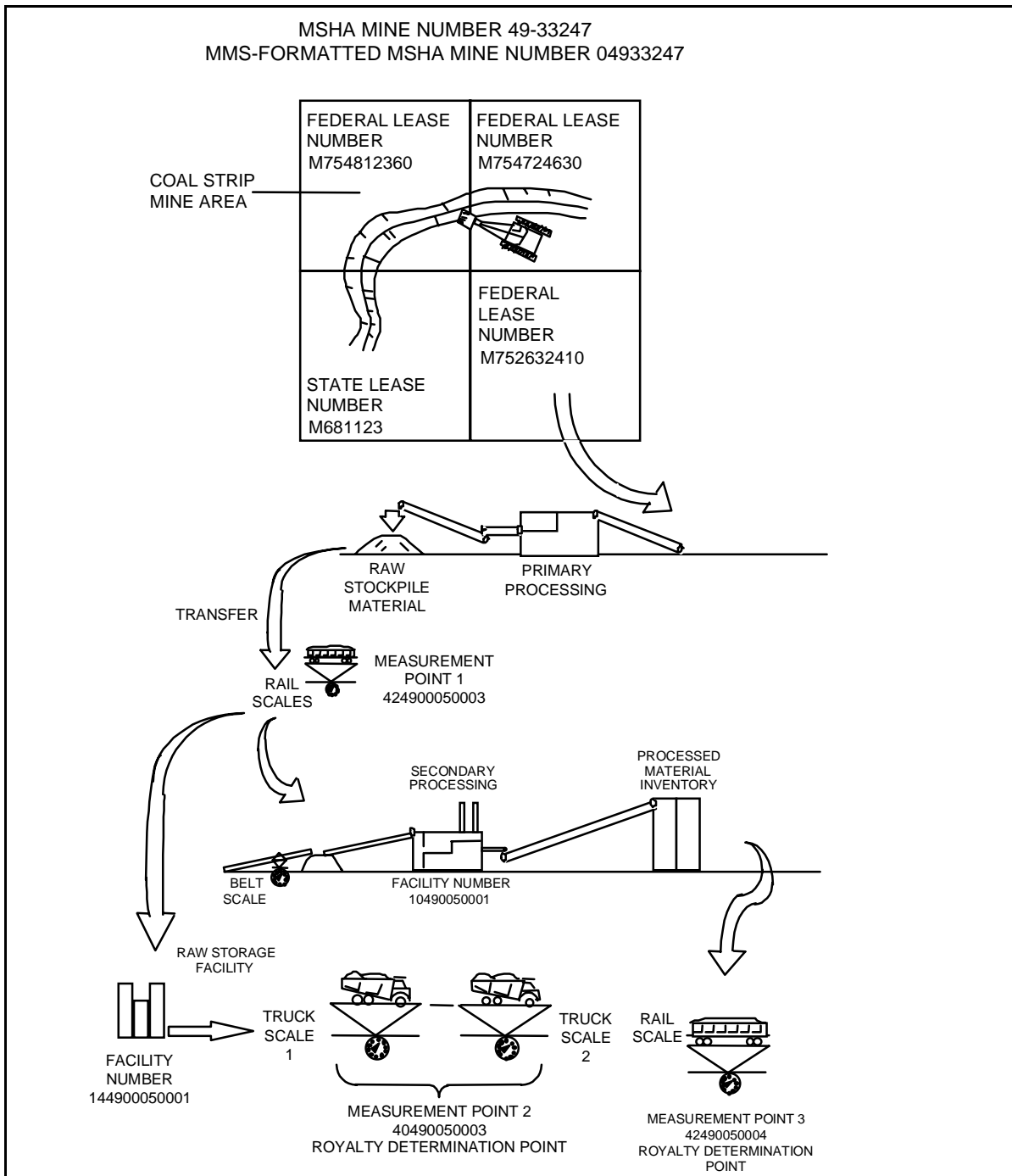


FIGURE 8-5. Reporting Example 1, Schematic

SMOR-A and -B header information

Report item	Fact
Report Type	Original
Effective Report Period	May 1992
MMS Operator Number	MA223 (assigned by MMS)
MSHA Mine Number	04933247
Operator Name	LMN Mine Company
Mine Name	Blue Mine
Federal or Indian	Federal production (Federal field is checked)

SMOR-A detail line information^a

Report item	Lease 1	Lease 2
Action Code	A (add)	A (add)
MMS Lease Numbers	M754812360	M754724630
Product Code	ED (Bituminous Coal - Raw)	ED (Bituminous Coal - Raw)
Beginning Inventory	130,000 tons	200,000 tons
Quantity Produced	201,000 tons	110,550 tons
Losses from Production	0 tons	0 tons
Net Production	201,000 tons	110,550 tons
Quality Code	01 (Btu) 02 (%Ash) 03 (%Sulfur)	01 (Btu) 02 (%Ash) 03 (%Sulfur)
Analysis	11,200 Btu 6.25% Ash 1.45% Sulfur	10,200 Btu 16.25% Ash 2.45% Sulfur
Disposition Code	80 (sales)	81 (transfer)
Quantity	220,000 tons (sold)	300,000 tons (transferred)
Facility Number for Transfers	—	10490050001 (wash plant)
Measurement Point	40490050003 (truck scale)	42490050003 (rail scale)
Ending Inventory	111,000 tons	10,550 tons

a. MMS lease M752632410 is currently not producing.

**FIGURE 8-5. Reporting Example 1 (continued)
SMOR fact sheet**

8. Facility Reporting

SMOR-A detail line information^a (continued)

Report item	Lease 1	Lease 2
Grand Totals		
Beginning Inventory	330,000 tons	
Quantity Produced	311, 550 tons	
Losses from Production	0 tons	
Net Production	311,550 tons	
Disposition Quantity	520,000 tons	
Ending Inventory	121,550 tons	

a. MMS lease M752632410 is currently not producing.

SMOR-A trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	1 of 2

SMOR-B detail line information

Report item	Lease 2
Action Code	A (add)
Source MMS Lease Number	M754724630
Product Code	EC (Bituminous Coal - Processed)
Selling Facility Number	10490050001
Sales Quantity	200,000 tons
Grand Total	
Sales Quantity	200,000 tons

SMOR-B trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	2 of 2

**FIGURE 8-5. Reporting Example 1 (continued)
SMOR fact sheet (continued)**

REPORTER USE

(OMB 1010-0063)
(Expires December 31, 19XX)

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

**SOLID MINERALS OPERATIONS REPORT
PART A - PRODUCTION AND DISPOSITION
OF RAW MATERIALS
(SMOR-A)**

FEDERAL
or INDIAN
MMS USE

REPORT TYPE: ORIGINAL EFFECTIVE REPORT PERIOD: (4) MMY MMS OPERATOR NUMBER (5) MSHA MINE NUMBER: (8)

MODIFIED | 0 | 5 | 9 | 2 | | M | A | 2 | 2 | 3 | | 0 | 4 | 9 | 3 | 3 | 2 | 4 | 7 |

OPERATOR NAME: (30) LMN Mine Company MINE NAME: (30) Blue Mine

LINE NUMBER ACTION CODE (1)	MMS LEASE NUMBER (10)	PRODUCT CODE (2)	BEGINNING INVENTORY (9)	QUANTITY PRODUCED (9)	LOSSES FROM PRODUCTION (9)	NET PRODUCTION (9)	QUALITY CODE (3)	ANALYSIS (8)	DISPOSITION CODE (2)	DISPOSITIONS			ENDING INVENTORY (9)
										QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	
1	A M754812360	ED	130000	201000	0	201000	01	11200	80	220000		40490050003	111000
2	A M754812360	ED					02	6 25					
3	A M754812360	ED					03	1 45					
4	A M754724630	ED	200000	110550	0	110550	01	10200	81	300000	10490050001	42490050003	10550
5	A M754724630	ED					02	16 25					
6	A M754724630	ED					03	2 45					
7	A M752632410	ED	0	0	0	0							0
8													
9													
10													
GRAND TOTALS (LAST SMOR-A PAGE ONLY)			330000	311550	0	311550				520000			121550

CHECK IF PART A IS CONTINUED WARNING: This is to inform you that failure to report accurately and timely in accordance with the statutes, regulations, or terms of the lease, permit, or contract may result in late payment charges, civil penalties, or liquidated damages being assessed without further notification. Intentional false or inaccurate reporting is subject to criminal prosecution in accordance with applicable Federal law(s).

CONTACT NAME: (First, M.I., Last) (30) Joe Doe TELEPHONE NUMBER: (10) (123) (456 - 7890) EXTENSION NUMBER: (4) (5555)

AUTHORIZING NAME: (First, M.I., Last) (30) Jane Doe TITLE: (30) Mine Manager

AUTHORIZING SIGNATURE: [signature] DATE: (6) MMDDYY | 0 | 7 | 0 | 5 | 9 | 2 | COMMENTS: (60)

**FIGURE 8-5. Reporting Example 1 (continued)
Completed SMOR-A (1 of 2)**

REPORTER USE

OMB 1010-0063
(Expires December 31, 19XX)

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

**SOLID MINERALS OPERATIONS REPORT
PART B - MINE SALES FROM A FACILITY
(SMOR-B)**

MMS USE

FEDERAL
or
INDIAN

REPORT TYPE: <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> MODIFIED	EFFECTIVE REPORT PERIOD:(4) MMY 0 5 9 2	MMS OPERATOR NUMBER:(5) M A 2 2 3	MSHA MINE NUMBER:(8) 0 4 9 3 3 2 4 7
OPERATOR NAME:(30) LMN Mine Company		MINE NAME: (30) Blue Mine	

LINE NUMBER	ACTION CODE (1)	SOURCE MMS LEASE NUMBER (10)	PRODUCT CODE (2)	SELLING FACILITY NUMBER (11)	SALES QUANTITY (9)
1	A	M754724630	EC	10490050001	200000
2					
3					
4					
5					
6					
7					
8					
9					
10					
GRAND TOTAL (LAST SMOR-B PAGE ONLY)					200000

FOR ILLUSTRATION ONLY

CONTACT NAME: (First, M.I., Last) (30) Joe Doe	TELEPHONE NUMBER:(10) (123) (456 - 7890) EXTENSION NUMBER:(4) ()
AUTHORIZING NAME: (First, M.I., Last) (30) Jane Doe	TITLE:(30) Mine Manager
AUTHORIZING SIGNATURE: [signature]	DATE:(6)MMDDYY 0 7 0 5 9 2
COMMENTS:(60)	

**FIGURE 8-5. Reporting Example 1 (continued)
Completed SMOR-B (2 of 2)**

8.4.2 Reporting Example 1: SMFR-A and -B

The following portion of this example illustrates the product flow from a mine through a secondary processing facility (Coal Wash Plant) to the point of first sale. The facility operator must complete a SMFR because the facility processes Federal production, which is subject to royalty after secondary processing.

Key considerations of this example are:

1. Production from one mine with Federal leases is transferred to a secondary processing facility. The Federal field in the header must be checked.
2. All raw material is taken from a stockpile at the facility and input to the process.
3. Quality factors are measured for the process inputs and outputs.
4. Processed material is sold from inventory.
5. Quality analysis is conducted on an “as received” basis.
6. All process outputs and inventory are sold during the report period.
7. The SMFR-A and -B pages for each MMS facility should be stapled together prior to sending to MMS.

Key details of the completed SMFR-A and -B are:

1. The total shown as input to process (disposition code 86) on SMFR-B is equal to the input quantity on SMFR-A.
2. The amount shown as production on SMFR-B is equal to the quantity shown as output on SMFR-A.
3. Separate inventories are kept on SMFR-B for each raw or processed product by source mine.
4. Raw materials receipts and production are never shown on the same line. If the product code is a raw material (input) to the facility, production (output) is a different product shown on a separate line.

8. Facility Reporting

If the product code is an output, it is never shown as a raw material receipt.

5. Sales are shown for a source mine. Lease data are not tracked on the SMFR. The lease-level breakdown is submitted by the mine operator on the SMOR-B for the same period.
6. Measurement points 42490050003 (rail scales) and 40490050003 (truck sales) are reported on the SMOR-A, not on the SMFR.
7. On the SMFR-A, the action code/source MSHA mine number/product code/quality code (process inputs) combination must be entered on each line in which process outputs data are listed.

SMFR-A and -B header information

Report item	Fact
Report Type	Original
Report Period	May 1992
MMS Operator Number	MA223 (assigned by MMS)
Operator Name	LMN Mine Company
MMS Facility Number	10490050001
Facility Name	Coal Wash Plant
Federal or Indian	Federal production (Federal field is checked)

SMFR-A detail line information

Report item	Fact
Action Code	A (add)
Source MSHA Mine Number	04933247
Process Inputs	
Product Code	ED (Bituminous Coal - Raw)
Quantity	300,000 tons
Quality Code	01 (Btu) 02 (% Ash) 03 (% Sulfur)
Analysis	10,200 Btu 16.25% Ash 2.45% Sulfur
Process Outputs	
Product Code	EC (Bituminous Coal - Processed)
Quantity	202,075 tons
Quality Code	01 (Btu) 02 (% Ash) 03 (% Sulfur)
Analysis	12,075 Btu 5.031% Ash 0.97% Sulfur
Grand Totals	
Process Inputs	300,000 tons
Process Outputs	202,075 tons

**FIGURE 8-6. Reporting Example 1
SMFR fact sheet**

8. Facility Reporting

SMFR-A trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	1 of 2

SMFR-B detail line information

Report item	Fact
Action Code	A (add)
Product Code	ED (Bituminous Coal - Raw) EC (Bituminous Coal - Processed)
Source MSHA Mine Number	04933247
Beginning Inventory	5,000 tons (ED) 0 tons (EC)
Raw Material Receipts	300,000 tons
Production	202,075 tons (from SMFR-A)
Disposition Code	86 (input to secondary process) 80 (sales)
Quantity	300,000 tons (86 code) 200,000 tons (80 code)
Measurement Point	42490050004 (rail scale)
Ending Inventory	5,000 tons (ED) 2,075 tons (EC)
Grand Totals	
Beginning Inventory	5,000 tons
Raw Material Receipt	300,000 tons
Production	202,075 tons
Disposition Quantity	500,000 tons
Ending Inventory	7,075 tons

SMFR-B trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	2 of 2

**FIGURE 8-6. Reporting Example 1 (continued)
SMFR fact sheet (continued)**

REPORTER USE	OMB Approval No. 1010-0063 Expiration Date: December 31, 19XX U.S. DEPARTMENT OF THE INTERIOR Minerals Management Service Royalty Management Program SOLID MINERALS FACILITY REPORT PART A - PROCESS OPERATIONS (SMFR-A)	FEDERAL <input checked="" type="checkbox"/> or INDIAN <input type="checkbox"/>
PROPRIETARY - FOR U.S. GOVERNMENT USE ONLY		

REPORT TYPE: <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> MODIFIED	EFFECTIVE REPORT PERIOD:(4)MMYY 0 5 9 2	MMS OPERATOR NUMBER:(5) M A 2 2 3
OPERATOR NAME:(30) LMN Mine Company		MMS FACILITY NUMBER: (11) 1 0 4 9 0 0 5 0 0 0 1
FACILITY NAME: (30) Coal Wash Plant		OPERATOR'S FACILITY NUMBER: (20)

LINE NUMBER	ACTION CODE(1)	SOURCE MSHA MINE NUMBER (8)	PROCESS INPUTS			PROCESS OUTPUTS				
			PRODUCT CODE (2)	QUANTITY (9)	QUALITY CODE (2)	ANALYSIS (8)	PRODUCT CODE (2)	QUANTITY (9)	QUALITY CODE (2)	ANALYSIS (8)
1	A	04933247	ED	300000	01	10200	EC	202075	01	12075
2	A	04933247	ED		02	16 . 25	EC		02	5 . 031
3	A	04933247	ED		03	2 . 45	EC		03	0 . 97
4										
5										
6										
7										
8										
9										
10										
GRAND TOTALS (LAST SMFR-A PAGE ONLY)				300000				202075		

FOR ILLUSTRATION ONLY

<input type="checkbox"/> CHECK IF PART A IS CONTINUED	
CONTACT NAME: (First, M.I., Last) (30) Joe Doe	TELEPHONE NUMBER:(10) EXTENSION NUMBER:(4) (123) (456 - 7890) ()
AUTHORIZING NAME: (First, M.I., Last) (30) Jane Doe	TITLE:(30) Mining Engineer
AUTHORIZING SIGNATURE: [signature]	DATE:(6)MMDDYY 0 7 0 5 9 2 COMMENTS:(60)

FIGURE 8-6. Reporting Example 1 (continued)
Completed SMFR-A (1 of 2)

OMB Approval No. 1010-0063
Expiration Date: December 31, 19XX

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

SOLID MINERALS FACILITY REPORT
PART B - INVENTORY
(SMFR-B)

FEDERAL
or
INDIAN

MMS USE

REPORTER USE

REPORT TYPE: <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> MODIFIED	EFFECTIVE REPORT PERIOD:(4)MMYY 0 5 9 2	MMS OPERATOR NUMBER:(5) M A 2 2 3
OPERATOR NAME:(30) LMN Mine Company		MMS FACILITY NUMBER: (11) 1 0 4 9 0 0 5 0 0 0 1
FACILITY NAME: (30) Coal Wash Plant		OPERATOR'S FACILITY NUMBER: (20)

LINE NUMBER	ACTION CODE(1)	PRODUCT CODE (2)	SOURCE MSHA MINE NUMBER (8)	BEGINNING INVENTORY (9)	RAW MATERIAL RECEIPTS (9)	PRODUCTION (9)	DISPOSITION CODE (2)	DISPOSITIONS			
								QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	ENDING INVENTORY (9)
1	A	ED	04933247	5000	300000		86	300000			5000
2	A	EC	04933247	0		202075	80	200000		42490050004	2075
3											
4											
5											
6											
7											
8											
9											
10											
GRAND TOTAL (LAST SMFR-B PAGE ONLY)				5000	300000	202075		500000			7075

FOR ILLUSTRATION ONLY

<input type="checkbox"/> CHECK IF PART B IS CONTINUED	
CONTACT NAME: (First, M.I., Last) (30) Joe Doe	TELEPHONE NUMBER:(10) (123) (456 - 7890) EXTENSION NUMBER:(4) ()
AUTHORIZING NAME: (First, M.I., Last) (30) Jane Doe	TITLE:(30) Mining Engineer
AUTHORIZING SIGNATURE: [signature]	DATE:(6)MMDDYY 0 7 0 5 9 2
COMMENTS:(60)	

FORM MMS-4060-B (REV. 2/97)

FIGURE 8-6. Reporting Example 1 (continued)
Completed SMFR-B (2 of 2)

8.4.3 Reporting Example 2: SMOR-A and -B

Figure 8-5 on page 8-22 and figure 8-6 on page 8-29 illustrate the sale of multiple products obtained from a single ore after secondary processing. The key considerations that differ from the basic example described in “Basic example” on page 7-14 are the following:

1. All production is subject to royalty after secondary processing.
2. All raw material is transferred to a secondary processing facility on the SMOR-A and is measured at a belt scale (measurement point 1).
3. Sales of multiple products are allocated back to the source lease on the SMOR-B.
4. One of three Federal leases is producing.

The key details of the completed reports are:

1. A separate product code is used for each product produced and sold.
2. Transfers to facilities during a report period as shown on the SMOR-A do not necessarily equal sales reported for the same lease on the SMOR-B. This is because of the normal reduction in volume when a raw material is processed.
3. The rail scales and truck scales located at the refinery are considered to be two separate measurement points and are used to measure processed products for sale.
4. Leases that are not producing must be reported on SMOR-A, but leases that do not have sales are not reported on SMOR-B.
5. The SMOR-A and -B pages for MSHA mine 02900250 should be stapled together prior to sending to MMS.

8. Facility Reporting

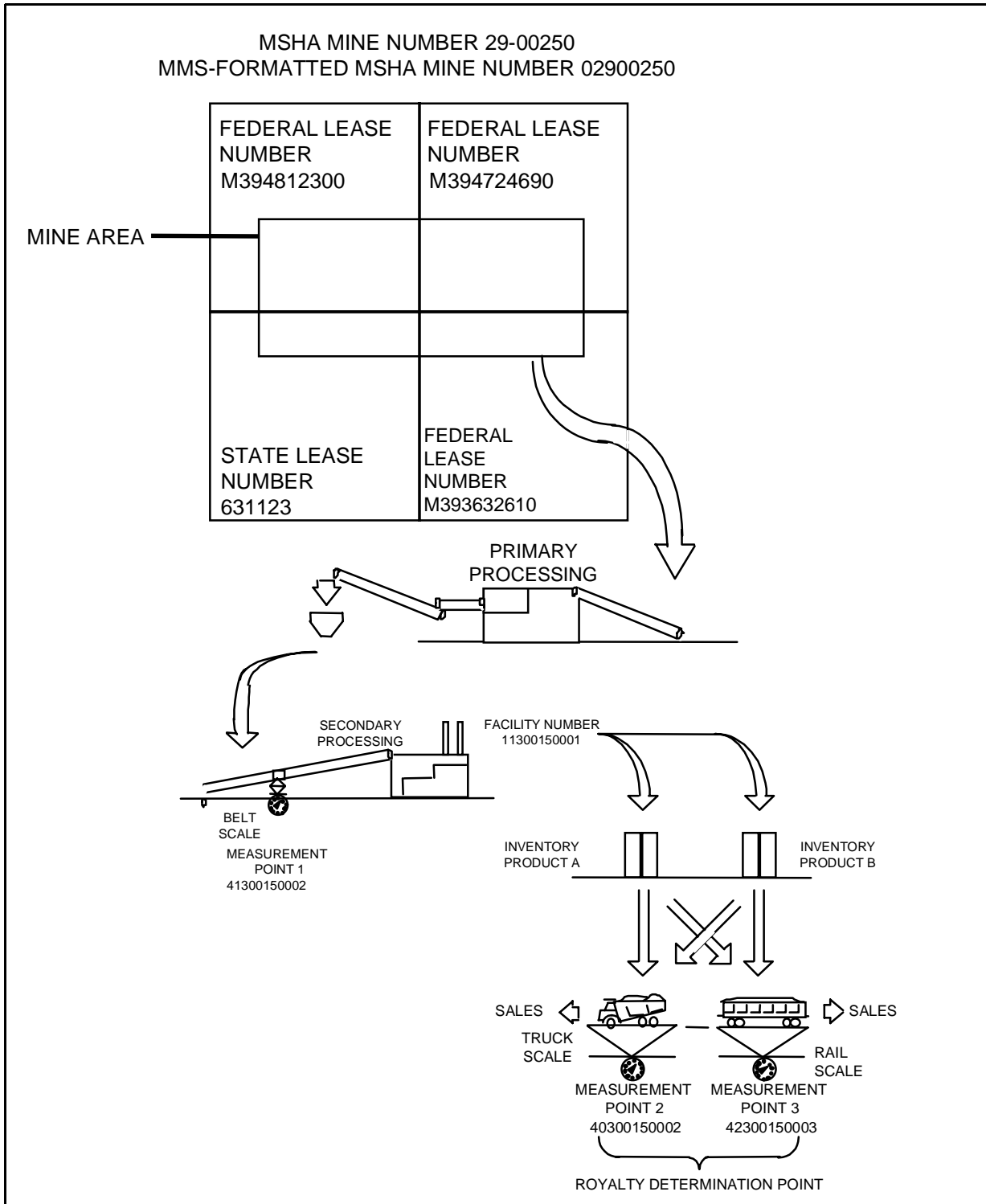


FIGURE 8-7. Reporting Example 2, Schematic

SMOR-A and -B header information

Report item	Fact
Report Type	Original
Effective Report	May 1992
MMS Operator Number	MA053 (assigned by MMS)
MSHA Mine Number	02900250
Operator Name	Potash Inc.
Mine Name	Rock Salt Mine
Federal or Indian	Federal production (Federal field is checked)

SMOR-A detail line information^a

Report item	Fact
Action Code	A (add)
MMS Lease Number	M394812300
Product Code	JE (mixed Potash - Raw Ore)
Beginning Inventory	150,000 tons
Quantity Produced	210,000 tons
Losses from Production	0 tons
Net Production	210,000 tons
Quality Code	01 (%K ₂ O as Sylvite) 02 (%K ₂ O as Langbeinite)
Analysis	7.96% K ₂ O 2.12% K ₂ O
Disposition Code	81 (transfer)
Quantity	220,000 tons
Facility Number for Transfers	11300150001 (refinery)
Measurement Point	41300150002 (belt scale)
Ending Inventory	140,000 tons

a. Federal (MMS) leases M394724690 and M393632610 are currently not producing.

**FIGURE 8-7. Reporting Example 2 (continued)
SMOR fact sheet¹ (continued)**

¹ See "Reporting Example 2: SMFR-A and -B" on page 8-40 for the corresponding SMFR-A and -B of this example.

8. Facility Reporting

SMOR-A detail line information^a (continued)

Report item	Fact
Grand Totals	
Beginning Inventory	150,000 tons
Quantity Produced	210,000 tons
Losses from Production	0 tons
Net Production	210,000 tons
Disposition Quantity	220,000 tons
Ending Inventory	140,000 tons

a. Federal (MMS) leases M394724690 and M393632610 are currently not producing.

SMOR-A trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	1 of 2

SMOR-B detail line information

Report item	Fact
Action Code	A (add)
Source MMS Lease Number	M394812300
Product Code	JD (Muriate of Potash - Standard) JL (Muriate of Potash - Granular)
Selling Facility Number	11300150001 (refinery)

**FIGURE 8-7. Reporting Example 2 (continued)
SMOR fact sheet² (continued)**

² See "Reporting Example 2: SMFR-A and -B" on page 8-40 for the corresponding SMFR-A and -B of this example.

SMOR-B detail line information

Report item	Fact
Sales Quantity	10,500 tons (JD) 8,500 tons (JL)
Grand Total Sales Quantity	19,000 tons

SMOR-B trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	2 of 2

**FIGURE 8-7. Reporting Example 2 (continued)
SMOR fact sheet³ (continued)**

³ See “Reporting Example 2: SMFR-A and -B” on page 8-40 for the corresponding SMFR-A and -B of this example.

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

**SOLID MINERALS OPERATIONS REPORT
PART A - PRODUCTION AND DISPOSITION
OF RAW MATERIALS
(SMOR-A)**

REPORTER USE

(OMB 1010-0063)
(Expires December 31, 19XX)

FEDERAL
or
INDIAN

MMS USE

REPORT TYPE: <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> MODIFIED		EFFECTIVE REPORT PERIOD: (4) MMY 0 5 9 2	MMS OPERATOR NUMBER (5) M A 0 5 3	MSHA MINE NUMBER: (8) 0 2 9 0 0 2 5 0
OPERATOR NAME: (30) Potash Inc.			MINE NAME: (30) Rock Salt Mine	

LINE NUMBER ACTION CODE (1)	MMS LEASE NUMBER (10)	PRODUCT CODE (2)	BEGINNING INVENTORY (9)	QUANTITY PRODUCED (9)	LOSSES FROM PRODUCTION (9)	NET PRODUCTION (9)	QUALITY CODE (3)	ANALYSIS (8)	DISPOSITION CODE (2)	DISPOSITIONS			ENDING INVENTORY (9)
										QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	
1	A M394812300	JE	150000	210000	0	210000	01	7 96	81	220000	11300150001	41300150002	140000
2	A M394812300	JE					02	2 12					
3	A M394724690	JE	0	0	0	0							
4	A M393632310	JE	0	0	0	0							
5													
6													
7													
8													
9													
10													
GRAND TOTALS (LAST SMOR-A PAGE ONLY)			150000	210000	0	210000				220000			140000

FOR ILLUSTRATION ONLY

CHECK IF PART A IS CONTINUED

WARNING: This is to inform you that failure to report accurately and timely in accordance with the statutes, regulations, or terms of the lease, permit, or contract may result in late payment charges, civil penalties, or liquidated damages being assessed without further notification. Intentional false or inaccurate reporting is subject to criminal prosecution in accordance with applicable Federal law(s).

CONTACT NAME: (First, M.I., Last) (30) J. Fred Driller	TELEPHONE NUMBER: (10) (123) (456 - 7890)	EXTENSION NUMBER: (4) ()
AUTHORIZING NAME: (First, M.I., Last) (30) Jane Driller	TITLE: (30) Chief Accountant	
AUTHORIZING SIGNATURE: [signature]	DATE: (6) MMDDYY 0 7 1 0 9 2	COMMENTS: (60)

FORM MMS-4059-A (REV. 2/97)

**FIGURE 8-7. Reporting Example 2 (continued)
Completed SMOR-A (1 of 2)**

OMB 1010-0063
(Expires December 31, 19XX)

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

**SOLID MINERALS OPERATIONS REPORT
PART B - MINE SALES FROM A FACILITY
(SMOR-B)**

FEDERAL
or
INDIAN

REPORTER USE MMS USE

REPORT TYPE: ORIGINAL MODIFIED

EFFECTIVE REPORT PERIOD:(4) MMY

MMS OPERATOR NUMBER:(5)

MSHA MINE NUMBER:(8)

OPERATOR NAME:(30) Potash Inc. MINE NAME: (30) Rock Salt Mine

LINE NUMBER	ACTION CODE(1)	SOURCE MMS LEASE NUMBER (10)	PRODUCT CODE (2)	SELLING FACILITY NUMBER (11)	SALES QUANTITY (9)
1	A	M394812300	JD	11300150001	10500
2	A	M394812300	JL	11300150001	8500
3					
4					
5					
6					
7					
8					
9					
10					
GRAND TOTAL (LAST SMOR-B PAGE ONLY)					19000

CHECK IF PART B IS CONTINUED

CONTACT NAME: (First, M.I., Last) (30) J. Fred Driller

AUTHORIZING NAME: (First, M.I., Last) (30) Jane Driller

AUTHORIZING SIGNATURE: [signature]

DATE:(6)MMDDYY

TELEPHONE NUMBER:(10) (123) (456 - 7890) EXTENSION NUMBER:(4) ()

TITLE:(30) Chief Accountant

COMMENTS:(60)

**FIGURE 8-7. Reporting Example 2 (continued)
Completed SMOR-B (2 of 2)**

8.4.4 Reporting Example 2: SMFR-A and -B

The following portion of this example illustrates how a facility reports production and sales when multiple products are produced and sold from a refinery. The key considerations of this example that differ from the example presented in “[Reporting Example 1: SMFR-A and -B](#)” on [page 8-27](#) are that multiple products are produced from a single raw ore input.

Key details of the completed reports are:

1. The total shown as input to process (disposition code 86) on SMFR-B is equal to the input quantity on SMFR-A.
2. The amount shown as production on SMFR-B is equal to the quantity shown as output on SMFR-A for each source and in total.
3. Separate inventories are maintained on SMFR-B for each raw or processed material by source mine.
4. Raw material receipts and production are never shown on the same line. If the product code is a raw material (input) to the facility, production (output) is a different product shown on a separate line. If the product code is an output, it is never shown as a raw material receipt.
5. Sales are shown for a source mine (02900250). The SMFR does not allocate production to the lease level. The lease-level breakdown is submitted by the mine operator on the SMOR-B for the same period.
6. Measurement point 1 (41300150002) is reported on the SMOR-A, not on the SMFR-B.
7. To calculate ending inventory for each processed product/source mine combination on the SMFR-B, add the beginning inventory to production, and subtract any dispositions.
8. To calculate ending inventory for each raw product/source mine combination on the SMFR-B, add the beginning inventory to raw material receipts and subtract any dispositions.

9. The beginning and ending inventory must be entered on the first line of a product code/source MSHA mine number combination. This is indicated on lines 1, 2, and 4—not lines 3 and 5.
10. The SMFR-A and -B pages for MMS facility number 11300150001 should be stapled together prior to sending to MMS.

8. Facility Reporting

SMFR-A and -B header information

Report item	Fact
Report Type	Original
Effective Report Period	May 1992
MMS Operator Number	MA053 (assigned by MMS)
Operator Name	Potash Inc.
MMS Facility Number	11300150001
Facility Name	Potash Inc. Plant 2
Federal or Indian	Federal production (Federal field is checked)

SMFR-A detail line information

Report item	Detail line	Fact
Action Code	1, 2	A (add)
Source MSHA Mine	1, 2	02900250
Process inputs		
Product Code	1, 2	JE (Mixed Potash - Raw Ore)
Quantity	1	225,000 tons (obtained from SMFR-B)
Quality Code	1	01 (%K ₂ O as Sylvite)
	2	02 (%K ₂ O as Langbeinite)
Analysis	1	7.960 (%K ₂ O as Sylvite)
	2	2.120 (%K ₂ O as Langbeinite)
Process outputs		
Product Code	1	JD (Muriate of Potash - Standard)
	2	JL (Muriate of Potash - Granular)
Quantity	1	8,500 tons (JD)
	2	6,000 (JL)
Quality Code	1	01 (%K ₂ O) JD
	2	01 (%K ₂ O) JL
Analysis	1	60.860 (%K ₂ O) (JD)
	2	60.750 (%K ₂ O) (JL)
Grand Totals		
Process Inputs		225,000 tons
Process Outputs		14,500 tons

**FIGURE 8-8. Reporting Example 2
SMFR fact sheet**

SMFR-A trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	1 of 2

SMFR-B detail line information

Report item	Detail line	Fact
Action Code	1, 2, 3, 4, 5	A (add)
Product Code	1	JE (Mixed Potash - Raw Ore)
	2, 3	JD (Muriate of Potash - Standard)
	4, 5	JL (Muriate of Potash - Granular)
Source MSHA Mine Number	1, 2, 3, 4, 5	02900250
Beginning Inventory	1	15,000 tons (JE)
	2	2,000 tons (JD)
	4	2,500 tons (JL)
Raw Material Receipts	1	220,000 tons (obtained from SMOR-A)
	2	8,500 tons (JD)
Production	4	6,000 tons (JL)
	1	86 (input to secondary process)
Disposition Code	2, 3, 4, 5	80 (sales)
	1	225,000 tons (input to secondary process)
Quantity	2	5,500 tons (sold on truck scale)
	3	5,000 tons (sold on rail scale)
	4	4,000 tons (sold on truck scale)
	5	4,500 tons (sold on rail scale)
	2, 4	40300150002 (truck scale)
Measurement Point	3, 5	42300150003 (rail scale)
	1	110,000 tons (JE)
Ending Inventory	2	0 tons (JD)
	4	0 tons (JL)

**FIGURE 8-8. Reporting Example 2 (continued)
SMFR fact sheet (continued)**

8. Facility Reporting

SMFR-B detail line information (continued)

Report item	Detail line	Fact
Grand Totals		
	Beginning Inventory	19,500 tons
	Raw Material Receipts	220,000 tons
	Production	14,500 tons
	Disposition Quantity	244,000 tons
	Ending Inventory	10,000 tons

SMFR-B trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	2 of 2

**FIGURE 8-8. Reporting Example 2 (continued)
SMFR fact sheet (continued)**

OMB Approval No. 1010-0063
Expiration Date: December 31, 19XX

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

SOLID MINERALS FACILITY REPORT
PART A - PROCESS OPERATIONS
(SMFR-A)

REPORTER USE FEDERAL or INDIAN

PROPRIETARY - FOR U.S. GOVERNMENT USE ONLY MMS USE

REPORT TYPE: ORIGINAL MODIFIED

EFFECTIVE REPORT PERIOD:(4)MMYY 0 5 9 2

MMS OPERATOR NUMBER:(5) M A 0 5 3

OPERATOR NAME:(30) **Potash Inc.**

MMS FACILITY NUMBER: (11) 1 1 3 0 0 1 5 0 0 0 1

FACILITY NAME: (30) **Potash Inc. Plant 2**

OPERATOR'S FACILITY NUMBER: (20)

LINE NUMBER	ACTION CODE(1)	SOURCE MSHA MINE NUMBER (8)	PROCESS INPUTS				PROCESS OUTPUTS			
			PRODUCT CODE (2)	QUANTITY (9)	QUALITY CODE (2)	ANALYSIS (8)	PRODUCT CODE (2)	QUANTITY (9)	QUALITY CODE (2)	ANALYSIS (8)
1	A	02900250	JE	225000	01	7 . 960	JD	8500	01	60 . 860
2	A	02900250	JE		02	2 . 120	JL	6000	01	60 . 750
3										
4										
5										
6										
7										
8										
9										
10										
GRAND TOTALS (LAST SMFR-A PAGE ONLY)				225000				14500		

FOR ILLUSTRATION ONLY

CHECK IF PART A IS CONTINUED

CONTACT NAME: (First, M.I., Last) (30) **J. Fred Driller**

TELEPHONE NUMBER:(10) **(123) (456 - 7890)** EXTENSION NUMBER:(4) ()

AUTHORIZING NAME: (First, M.I., Last) (30) **Jane Driller**

TITLE:(30) **Chief Accountant**

AUTHORIZING SIGNATURE: **[signature]** DATE:(6)MMDDYY 0 7 1 0 9 2

COMMENTS:(60)

FIGURE 8-8. Reporting Example 2 (continued)
Completed SMFR-A (1 of 2)

OMB Approval No. 1010-0063
Expiration Date: December 31, 19XX

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

SOLID MINERALS FACILITY REPORT
PART B - INVENTORY
(SMFR-B)

FEDERAL
or
INDIAN MMS USE

REPORTER USE

REPORT TYPE: ORIGINAL
 MODIFIED

EFFECTIVE REPORT PERIOD: (4)MMYY
0 5 9 2

MMS OPERATOR NUMBER: (5)
M A 0 5 3

OPERATOR NAME: (30) Potash Inc.

MMS FACILITY NUMBER: (11)
1 1 3 0 0 1 5 0 0 0 1

FACILITY NAME: (30) Potash Inc. Plant 2

OPERATOR'S FACILITY NUMBER: (20)

LINE NUMBER	ACTION CODE (1)	PRODUCT CODE (2)	SOURCE MSHA MINE NUMBER (8)	BEGINNING INVENTORY (9)	RAW MATERIAL RECEIPTS (9)	PRODUCTION (9)	DISPOSITION CODE (2)	DISPOSITIONS			
								QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	ENDING INVENTORY (9)
1	AJE		02900250	15000	220000		86	225000			10000
2	AJD		02900250	2000		8500	80	5500		40300150002	0
3	AJD		02900250				80	5000		42300150003	
4	AJL		02900250	2500		6000	80	4000		40300150002	0
5	AJL		02900250				80	4500		42300150003	
6											
7											
8											
9											
10											
GRAND TOTAL (LAST SMFR-B PAGE ONLY)				19500	220000	14500		244000			10000

CHECK IF PART B IS CONTINUED

CONTACT NAME: (First, M.I., Last) (30) J. Fred Driller

TELEPHONE NUMBER: (10) (123) (456 - 7890) EXTENSION NUMBER: (4) ()

AUTHORIZING NAME: (First, M.I., Last) (30) Jane Driller

TITLE: (30) Chief Accountant

AUTHORIZING SIGNATURE: [signature]

DATE: (6)MMDDYY
0 7 1 0 9 2

COMMENTS: (60)

FIGURE 8-8. Reporting Example 2 (continued)
Completed SMFR-B (2 of 2)

8.5 Report Modification

Figure 8-9 on page 8-49 illustrates how to modify the original SMOR-A and -B presented in “Reporting Example 1: SMOR-A and -B” on page 8-20. The key considerations and diagram used for the modified example below are the same as those in example 1.

8.5.1 Modified reporting example: *SMOR-A and -B*

Key details of the completed reports are as follows:

1. The Modified field is checked. The effective report period, MMS operator number, Federal or Indian indicator, and MSHA mine number must be entered exactly as reported on the original submission.
2. The sales quantity from lease M754812360 was reported incorrectly on the original report. A portion of the sales quantity was transferred to a storage facility (14490050001) to be sold.
3. The quality analysis of percent sulfur (03) was reported incorrectly on the original report.
4. Sales quantities on the SMOR-B must be reallocated for MMS leases M754724630 and M754812360. In addition, sales quantity must be added for lease M754724630 indicating sales from a storage facility (14490050001).
5. The add lines for a product/lease combination must follow immediately after corresponding delete lines for the same product/lease combination.
6. Delete lines are negative, add lines are positive, and grand totals are calculated accordingly.
7. Additional modified documents are not required to be submitted because the beginning and ending inventories of subsequent PAAS reports were not changed.

8. The SMOR-A and -B forms should be stapled together before sending them to MMS.

Modified SMOR-A and -B Reporting Guidelines

Header information on the modified report must be entered exactly as reported on the original submission.

The operator must delete the original line(s) as accepted into the PAAS database. The accepted data may differ from what was originally submitted. The operator must include any MMS error corrections as shown on the SMOR confirmation reports.

The operator must delete all of the following line combinations before adding corresponding replacement line combinations:

1. SMOR-A–MMS lease number/product code combination; and
2. SMOR-B–MMS lease number/facility number/product code combination.

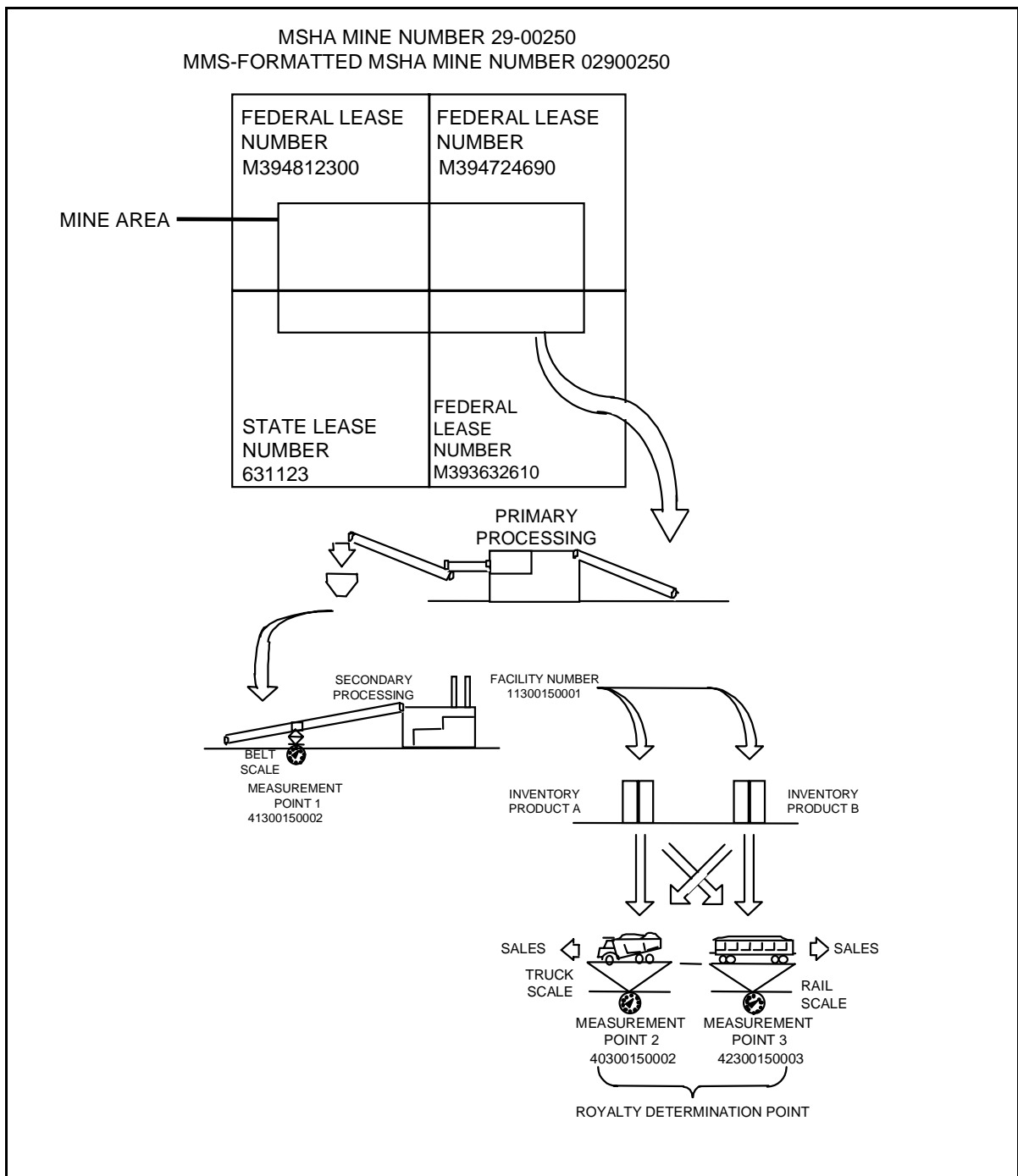


FIGURE 8-9. Modified Reporting Example, Schematic

8. Facility Reporting

SMOR-A and -B header information

Report item	Fact
Report Type	Modified
Effective Report Period	May 1992
MMS Operator Number	MA223 (assigned by MMS)
MSHA Mine Number	04933247
Operator Name	LMN Mine Company
Mine Name	Blue Mine
Federal or Indian	Federal production (Federal field is checked)

SMOR-A detail line information

Report item	Original report fact	Modified report fact
Action Code	D (delete) ^a (lines 1, 2, and 3)	A (add) (lines 4, 5, and 6)
MMS Lease Number	M754812360 (lines 1-3)	M754812360 (lines 4-6)
Product Code	ED (Bituminous Coal - Raw) (lines 1-3)	ED (Bituminous Coal - Raw) (lines 4-6)
Beginning Inventory	130,000 tons	130,000 tons
Quantity Produced	201,000 tons	201,000 tons
Losses from Production	0 tons	0 tons
Net Production	201,000 tons	201,000 tons
Quality Code	01, 02, 03 (lines 1-3)	01, 02, 03 (lines 4-6)
Analysis	11,200 (Btu) 6.25 (%Ash) 1.45 (%Sulfur)	11,200 (Btu) 6.25 (%Ash) 0.45 (%Sulfur)
Disposition Code	80 (sales)	80 (sales) 81 (transfer)
Quantity	220,000 tons (sales)	200,000 tons (sales) 20,000 tons (transfer)
Facility Number for Transfers	–	14490050001 (line 5)
Measurement Point	40490050003 (line 1) –	40490050003 (line 4) 42490050003 (line 5)
Ending Inventory	111,000 tons (line 1)	111,000 tons (line 4)

- a. The action code used on the original document was **A** (add). A **D** (delete) action code is used to remove original report facts and can only be used on a modified document.

**FIGURE 8-9. Modified Reporting Example (continued)
SMOR fact sheet**

SMOR-A detail line information (continued)

Report item	Original report fact	Modified report fact
Grand Total		
Beginning Inventory	330,000 tons	0 tons
Quantity Produced	311,550 tons	0 tons
Losses from Production	0 tons	0 tons
Net Production	311,550 tons	0 tons
Disposition Quantity	520,000 tons	0 tons
Ending Inventory	111,550 tons	0 tons

SMOR-A trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	1 of 2

SMOR-B detail line information

Report item	Original report fact	Modified report fact
Action Code	D (delete) ^a (line 1)	A (add) (lines 2–4)
Source MMS Lease Number	M754724630 (line 1)	M754724630 (line 2) M754724630 (line 3) M754812360 (line 4)
Product Code	EC (Bituminous Coal Processed)	EC (line 2) ED (line 3) EC (line 4)
Selling Facility Number	10490050001	10490050001 (line 2) 14490050001 (line 3) 10490050001 (line 4)

- a. The action code used on the original document was **A** (add). A **D** (delete) action code is used to remove original report facts and can only be used on a modified document.

**FIGURE 8-9. Modified Reporting Example (continued)
SMOR fact sheet (continued)**

8. Facility Reporting

SMOR-B detail line information (continued)

Report item	Original report fact	Modified report fact
Sales Quantity	200,000 tons (line 1)	196,600 tons (line 2) 20,000 tons (line 3) 3,400 tons (line 4)
Grand Total Sales Quantity	200,000 tons	20,000 tons

SMOR-B trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	2 of 2

**FIGURE 8-9. Modified Reporting Example (continued)
SMOR fact sheet (continued)**

(OMB 1010-0063)
(Expires December 31, 19XX)

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

**SOLID MINERALS OPERATIONS REPORT
PART A - PRODUCTION AND DISPOSITION
OF RAW MATERIALS
(SMOR-A)**

FEDERAL
or
INDIAN
MMS USE

REPORTER USE

REPORT TYPE: ORIGINAL MODIFIED
EFFECTIVE REPORT PERIOD: (4) MMY | 0 | 5 | 9 | 2 |
MMS OPERATOR NUMBER (5) | M | A | 2 | 2 | 3 |
MSHA MINE NUMBER: (8) | 0 | 4 | 9 | 3 | 3 | 2 | 4 | 7 |

OPERATOR NAME: (30) | LMN Mine Company |
MINE NAME: (30) | Blue Mine |

LINE NUMBER ACTION CODE (1)	MMS LEASE NUMBER (10)	PRODUCT CODE (2)	BEGINNING INVENTORY (9)	QUANTITY PRODUCED (9)	LOSSES FROM PRODUCTION (9)	NET PRODUCTION (9)	QUALITY CODE (2)	ANALYSIS (8)	DISPOSITION CODE (2)	DISPOSITIONS			ENDING INVENTORY (9)
										QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	
1 D	M754812360	ED	130000	201000	0	201000	01	11200	80	220000		40490050003	111000
2 D	M754812360	ED					02	6 25					
3 D	M754812360	ED					03	1 45					
4 A	M754812360	ED	130000	201000	0	201000	01	11200	80	200000		40490050003	111000
5 A	M754812360	ED					02	6 25	81	20000	14490050001	42490050003	
6 A	M754812360	ED					03	0 45					
7													
8													
9													
10													
GRAND TOTALS (LAST SMOR-A PAGE ONLY)			0	0		0				0			0

FOR ILLUSTRATION ONLY

CHECK IF PART A IS CONTINUED **WARNING:** This is to inform you that failure to report accurately and timely in accordance with the statutes, regulations, or terms of the lease, permit, or contract may result in late payment charges, civil penalties, or liquidated damages being assessed without further notification. Intentional false or inaccurate reporting is subject to criminal prosecution in accordance with applicable Federal law(s).

CONTACT NAME: (First, M.I., Last) (30) | Joe Doe |
TELEPHONE NUMBER: (10) | (123) (456 - 7890) |
EXTENSION NUMBER: (4) | () |

AUTHORIZING NAME: (First, M.I., Last) (30) | Jane Doe |
TITLE: (30) | Mine Manager |

AUTHORIZING SIGNATURE: | [signature] |
DATE: (6) MMDDYY | 0 | 8 | 0 | 5 | 9 | 2 |
COMMENTS: (60) |

**FIGURE 8-9. Modified Reporting Example (continued)
Completed SMOR-A (1 of 2)**

OMB 1010-0063
(Expires December 31, 19XX)

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

**SOLID MINERALS OPERATIONS REPORT
PART B - MINE SALES FROM A FACILITY
(SMOR-B)**

FEDERAL
or
INDIAN

REPORTER USE MMS USE

REPORT TYPE: ORIGINAL EFFECTIVE REPORT PERIOD:(4) MMY MMS OPERATOR NUMBER:(5) MSHA MINE NUMBER:(8)

MODIFIED 0 5 9 2 M A 2 2 3 0 4 9 3 3 2 4 7

OPERATOR NAME:(30) **LMN Mine Company** MINE NAME: (30) **Blue Mine**

LINE NUMBER	ACTION CODE(1)	SOURCE MMS LEASE NUMBER (10)	PRODUCT CODE (2)	SELLING FACILITY NUMBER (11)	SALES QUANTITY (9)
1	D	M754724630	EC	10490050001	200000
2	A	M754724630	EC	10490050001	196600
3	A	M754724630	ED	14490050001	20000
4	A	M754812360	EC	10490050001	3400
5					
6					
7					
8					
9					
10					
GRAND TOTAL (LAST SMOR-B PAGE ONLY)					200000
<input type="checkbox"/> CHECK IF PART B IS CONTINUED					

FOR ILLUSTRATION ONLY

CONTACT NAME: (First, M.I., Last) (30) Joe Doe	TELEPHONE NUMBER:(10) (123) (456 - 7890)	EXTENSION NUMBER:(4) ()
AUTHORIZING NAME: (First, M.I., Last) (30) Jane Doe	TITLE:(30) Mine Manager	
AUTHORIZING SIGNATURE: [signature]	DATE:(6)MMDDYY 0 8 0 5 9 2	COMMENTS:(60)

**FIGURE 8-9. Modified Reporting Example (continued)
Completed SMOR-B (2 of 2)**

8.5.2 Modified reporting example: SMFR-A and -B

The following portion of this example illustrates how to modify the original SMFR-A and -B presented in “Reporting Example 1: SMFR-A and -B” on p. 8-27). The key considerations and diagram used in this example are the same as those found in “Reporting Example 1: SMFR-A and -B.”

Key details of the completed reports are as follows:

1. The Modified field is checked. The effective report period, MMS operator number, Federal or Indian indicator, and MSHA mine number must be completed exactly as reported on the original submission.
2. Incorrect process input and output amounts were reported on the original document.
3. Incorrect production and disposition quantities were reported on the original document.
4. Add lines for a product/mine combination must follow immediately after the corresponding delete lines for the same product/mine combination.
5. Delete lines are negative, add lines are positive, and the grand totals are calculated accordingly.
6. The SMFR-A and -B for the Coal Wash Plant must be stapled together, while the SMFR-B for the storage facility should be filed separately.
7. An original SMFR-B must be submitted for May 1992 detailing activity at the storage facility 14490050001.

Modified SMFR-A and -B Reporting Guidelines: Header information on the modified report must be entered exactly as reported on the original submission.

The operator must delete the original line(s) as accepted into the PAAS database. The accepted data may differ from what was originally submitted. The operator must include any MMS error corrections as shown on the SMFR confirmation reports.

8. Facility Reporting

The operator must delete all of the following line combinations before adding corresponding replacement line combinations:

1. SMFR-A-product code/MSHA mine number combination
2. SMFR-B-product code/MSHA mine number combination

SMFR-A and -B header information

Report item	Fact
Report Type	Modified
Effective Report Period	May 1992
MMS Operator Number	MA223
Operator Name	LMN Mine Company
MMS Facility Number	10490050001
Facility Name	Coal Wash Plant
Federal or Indian	Federal production (Federal field is checked)

SMFR-A detail information

Report item	Original report fact	Modified report fact
Process inputs		
Action Code	D (delete) (lines 1-3) ^a	A (add) (lines 4-6)
Source MSHA Mine	04933247 (lines 1-3)	04933247 (lines 4-6)
Product Code	ED (lines 1-3)	ED (lines 4-6)
Quantity	300,000 tons (line 1)	305,000 tons (line 4)
Quality Code	01, 02, 03 (lines 1-3)	01, 02, 03 (lines 4-6)
Analysis	10,200 Btu 16.250% Ash 2.450% Sulfur	10,200 Btu 16.250% Ash 2.450% Sulfur
Process outputs		
Product Code	EC (lines 1-3)	EC (lines 4-6)
Quantity	202,075 tons (line 1)	205,570 tons (line 4)
Quality Code	01, 02, 03 (lines 1-3)	01, 02, 03 (lines 4-6)
Analysis	12,075 Btu 5.031% Ash 0.97% Sulfur	12,075 Btu 5.031% Ash 0.97% Sulfur
Grand Total		
Process Inputs	300,000 tons	5,000 tons
Process Outputs	202,075 tons	3,495 tons

- a. The action code used on the original document was **A** (Add). Delete (**D**) action code is used to remove original report facts and can only be used on a modified document.

**FIGURE 8-10. Modified Reporting Example
SMFR fact sheet**

8. Facility Reporting

SMFR-A trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	1 of 2

SMFR-B detail information

Report item	Original report fact	Modified report fact
Action Code	D (delete) (line 1) ^a	A (add) (line 2)
Product Code	ED (line 1)	ED (line 2)
Source MSHA Mine Number	04933247 (line 1)	04933247 (line 2)
Beginning Inventory	5,000 tons	5,000 tons
Raw Material Receipts	300,000 tons	300,000 tons
Disposition Code	86 (input to process)	86 (input to process)
Disposition Quantity	300,000 tons	305,000 tons
Ending Inventory	5,000 tons	0 tons
Action Code	D (delete) (line 3) ^a	A (add) (line 4)
Product Code	EC	EC
Source MSHA Mine Number	04933247	04933247
Beginning Inventory	0 tons	0 tons
Production	202,075 tons	205,570 tons
Disposition Code	80 (Sales)	80 (Sales)
Disposition Quantity	200,000 tons	200,000 tons
Measurement Point	42490050004	42490050004
Ending Inventory	2,075 tons	5,570 tons
Grand Total		
Beginning Inventory	5,000 tons	0 tons
Raw Material Receipts	300,000 tons	0 tons
Production	202,075 tons	3,495 tons
Disposition Quality	500,000 tons	<1,505> tons
Ending Inventory	7,075 tons	5,000 tons

- a. The action code used on the original document was **A** (add). Delete (**D**) action code is used to remove original report facts and can only be used on a modified document.

**FIGURE 8-10. Modified Reporting Example (continued)
SMFR fact sheet (continued)**

SMFR-B trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	2 of 2

SMFR-B header information

Report item	Fact
Report Type	Original
Effective Report Period	May 1992
MMS Operator Number	MA223
Operator Name	LMN Mine Company
MMS Facility Number	14490050001
Facility Name	Coal Storage Facility
Federal or Indian	Federal production (Federal field is checked)

SMFR-B detail information

Report item	Fact
Action Code	A (add)
Product Code	ED
Source MSHA Mine Number	04933247
Beginning Inventory	0 tons
Raw Material Receipts	20,000 tons
Production	0 tons
Disposition Code	80 (sales)
Disposition Quantity	20,000 tons
Measurement Point	40490050003
Ending Inventory	0 tons

**FIGURE 8-10. Modified Reporting Example (continued)
SMFR fact sheet (continued)**

8. Facility Reporting

SMFR-B detail information (continued)

Report item	Fact
Grand Total	
Beginning Inventory	0 tons
Raw Material Receipts	20,000 tons
Production	0 tons
Disposition Quantity	20,000 tons
Ending Inventory	0 tons

SMFR-B trailer information

All required trailer information is completed.

Page Number 1 of 1

**FIGURE 8-10. Modified Reporting Example (continued)
SMFR fact sheet (continued)**

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Expiration Date: December 31, 19XX

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

SOLID MINERALS FACILITY REPORT
PART A - PROCESS OPERATIONS
(SMFR-A)

REPORTER USE FEDERAL MMS USE
or
INDIAN

PROPRIETARY - FOR U.S. GOVERNMENT USE ONLY

REPORT TYPE: <input type="checkbox"/> ORIGINAL <input checked="" type="checkbox"/> MODIFIED	EFFECTIVE REPORT PERIOD:(4)MMYY <table border="1" style="display: inline-table; text-align: center;"> <tr><td>0</td><td>5</td><td>9</td><td>2</td></tr> </table>	0	5	9	2	MMS OPERATOR NUMBER:(5) <table border="1" style="display: inline-table; text-align: center;"> <tr><td>M</td><td>A</td><td>2</td><td>2</td><td>3</td></tr> </table>	M	A	2	2	3		
0	5	9	2										
M	A	2	2	3									
OPERATOR NAME:(30) LMN Mine Company		MMS FACILITY NUMBER: (11) <table border="1" style="display: inline-table; text-align: center;"> <tr><td>1</td><td>0</td><td>4</td><td>9</td><td>0</td><td>0</td><td>5</td><td>0</td><td>0</td><td>0</td><td>1</td></tr> </table>	1	0	4	9	0	0	5	0	0	0	1
1	0	4	9	0	0	5	0	0	0	1			
FACILITY NAME: (30) Coal Wash Plant		OPERATOR'S FACILITY NUMBER: (20)											

LINE NUMBER	ACTION CODE(1)	SOURCE MSHA MINE NUMBER (8)	PROCESS INPUTS			PROCESS OUTPUTS				
			PRODUCT CODE (2)	QUANTITY (9)	QUALITY CODE (2)	ANALYSIS (8)	PRODUCT CODE (2)	QUANTITY (9)	QUALITY CODE (2)	ANALYSIS (8)
1	D	04933247	ED	300000	01	10200	EC	202075	01	12075
2	D	04933247	ED		02	16 . 250	EC		02	5 . 031
3	D	04933247	ED		03	2 . 450	EC		03	0 . 97
4	A	04933247	ED	305000	01	10200	EC	205570	01	12075
5	A	04933247	ED		02	16 . 250	EC		02	5 . 031
6	A	04933247	ED		03	2 . 450	EC		03	0 . 97
7										
8										
9										
10										
GRAND TOTALS (LAST SMFR-A PAGE ONLY)				5000				3495		

CHECK IF PART A IS CONTINUED

CONTACT NAME: (First, M.I., Last) (30) Joe Doe	TELEPHONE NUMBER:(10) (123) (456 - 7890)						
AUTHORIZING NAME: (First, M.I., Last) (30) Jane Doe	TITLE:(30) Mining Engineer						
AUTHORIZING SIGNATURE: [signature]	DATE:(6)MMDDYY <table border="1" style="display: inline-table; text-align: center;"> <tr><td>0</td><td>8</td><td>0</td><td>5</td><td>9</td><td>2</td></tr> </table>	0	8	0	5	9	2
0	8	0	5	9	2		
COMMENTS:(60)							

FIGURE 8-10. Modified Reporting Example (continued)
Completed SMFR-A (1 of 2)

OMB Approval No. 1010-0063
Expiration Date: December 31, 19XX

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

SOLID MINERALS FACILITY REPORT
PART B - INVENTORY
(SMFR-B)

FEDERAL
or
INDIAN MMS USE

REPORTER USE

REPORT TYPE: ORIGINAL
 MODIFIED

EFFECTIVE REPORT PERIOD: (4)MMYY
0 5 9 2

MMS OPERATOR NUMBER: (5)
M A 2 2 3

OPERATOR NAME: (30)
LMN Mine Company

MMS FACILITY NUMBER: (11)
1 0 4 9 0 0 5 0 0 0 1

FACILITY NAME: (30)
Coal Wash Plant

OPERATOR'S FACILITY NUMBER: (20)

LINE NUMBER	ACTION CODE (1)	PRODUCT CODE (2)	SOURCE MSHA MINE NUMBER (8)	BEGINNING INVENTORY (9)	RAW MATERIAL RECEIPTS (9)	PRODUCTION (9)	DISPOSITION CODE (2)	DISPOSITIONS			
								QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	ENDING INVENTORY (9)
1	D	E	04933247	5000	300000		86	300000			5000
2	A	E	04933247	5000	300000		86	305000			0
3	D	E	04933247	0		202075	80	200000		42490050004	2075
4	A	E	04933247	0		205570	80	200000		42490050004	5570
5											
6											
7											
8											
9											
10											
GRAND TOTAL (LAST SMFR-B PAGE ONLY)				0	0	3495		5000			<1505>

FOR ILLUSTRATION ONLY

CHECK IF PART B IS CONTINUED

CONTACT NAME: (First, M.I., Last) (30) Joe Doe

TELEPHONE NUMBER: (10) (123) (456 - 7890) EXTENSION NUMBER: (4) ()

AUTHORIZING NAME: (First, M.I., Last) (30) Jane Doe

TITLE: (30) Mining Engineer

AUTHORIZING SIGNATURE: [signature]

DATE: (6)MMDDYY
0 8 0 5 9 2

COMMENTS: (60)

FIGURE 8-10. Modified Reporting Example (continued)
Completed SMFR-B (2 of 2)

OMB Approval No. 1010-0063
Expiration Date: December 31, 19XX

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

SOLID MINERALS FACILITY REPORT
PART B - INVENTORY
(SMFR-B)

FEDERAL
or
INDIAN MMS USE

REPORTER USE

REPORT TYPE: ORIGINAL
 MODIFIED

EFFECTIVE REPORT PERIOD:(4)MMYY
0 5 9 2

MMS OPERATOR NUMBER:(5)
M A 2 2 3

OPERATOR NAME:(30)
LMN Mine Company

MMS FACILITY NUMBER: (11)
1 4 4 9 0 0 5 0 0 0 1

FACILITY NAME: (30)
Coal Storage Facility

OPERATOR'S FACILITY NUMBER: (20)

LINE NUMBER	ACTION CODE(1)	PRODUCT CODE (2)	SOURCE MSHA MINE NUMBER (8)	BEGINNING INVENTORY (9)	RAW MATERIAL RECEIPTS (9)	PRODUCTION (9)	DISPOSITION CODE (2)	DISPOSITIONS			
								QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	ENDING INVENTORY (9)
1	A	ED	04933247	0	20000	0	80	20000		40490050003	0
2											
3											
4											
5											
6											
7											
8											
9											
10											
GRAND TOTAL (LAST SMFR-B PAGE ONLY)				0	20000	0		20000			0

FOR ILLUSTRATION ONLY

CHECK IF PART B IS CONTINUED

CONTACT NAME: (First, M.I., Last) (30) Joe Doe

TELEPHONE NUMBER:(10) (123) (456 - 7890) EXTENSION NUMBER:(4) ()

AUTHORIZING NAME: (First, M.I., Last) (30) Jane Doe

TITLE:(30) Mining Engineer

AUTHORIZING SIGNATURE: [signature]

DATE:(6)MMDDYY
0 8 0 5 9 2

COMMENTS:(60)

**FIGURE 8-10. Modified Reporting Example (continued)
Completed SMFR-B**

9. Additional SMOR and SMFR Reporting Examples

9.1 Overview

This chapter presents reporting situations that are more complex and specialized than those addressed in earlier chapters. The following five examples cover these situations:

1. Lead/zinc operation
2. Operation of a remote storage facility
3. Reporting a lease with no dispositions and a secondary processing facility with no production for a report period
4. Reclassifying concentrate at the mill
5. Inventory adjustment at a secondary processing facility

If the reporting situation falls outside the guidance provided in this handbook, please contact the RMP reporter contact representative.

9.2 Example 1: Lead/Zinc Operation

The key consideration of this lead/zinc operation example ([fig. 9-1 on p. 9-3](#)) is that the operation consists of an underground mine involving four Federal leases and a mine-mouth mill.

The example includes a schematic diagram and fact sheets for the completed MIF, FMIF, SMOR-A and -B, and SMFR-A and -B.

9. Additional SMOR and SMFR Reporting Examples

Key details of the completed reports include:

1. Production is from leases M042650321, M042540431, and M042430541 during the report period; however, all four leases are reported on the SMOR-A, as well as the MIF, because they are all part of the approved mine plan. Lease M042320651 does not have sales allocated to it for the report period and, therefore, is not reported on the SMOR-B.
2. Because the SMOR information continues onto a second page, the “CHECK IF PART A IS CONTINUED” field must be checked.
3. The mill produced three processed products from one raw product. Raw products are reported on the MIF, SMOR-A, and SMFR-A and -B. Processed products are reported on the MIF, SMFR-A and -B, and SMOR-B.
4. On the SMFR-A, a raw product code, a quality code, and an analysis are required on each detail line in which an output product code, a quality code, and an analysis are listed.
5. The action code/source MMS lease number/product code/selling facility number combination must be entered on each line in which a sales quantity is entered on the SMOR-B.

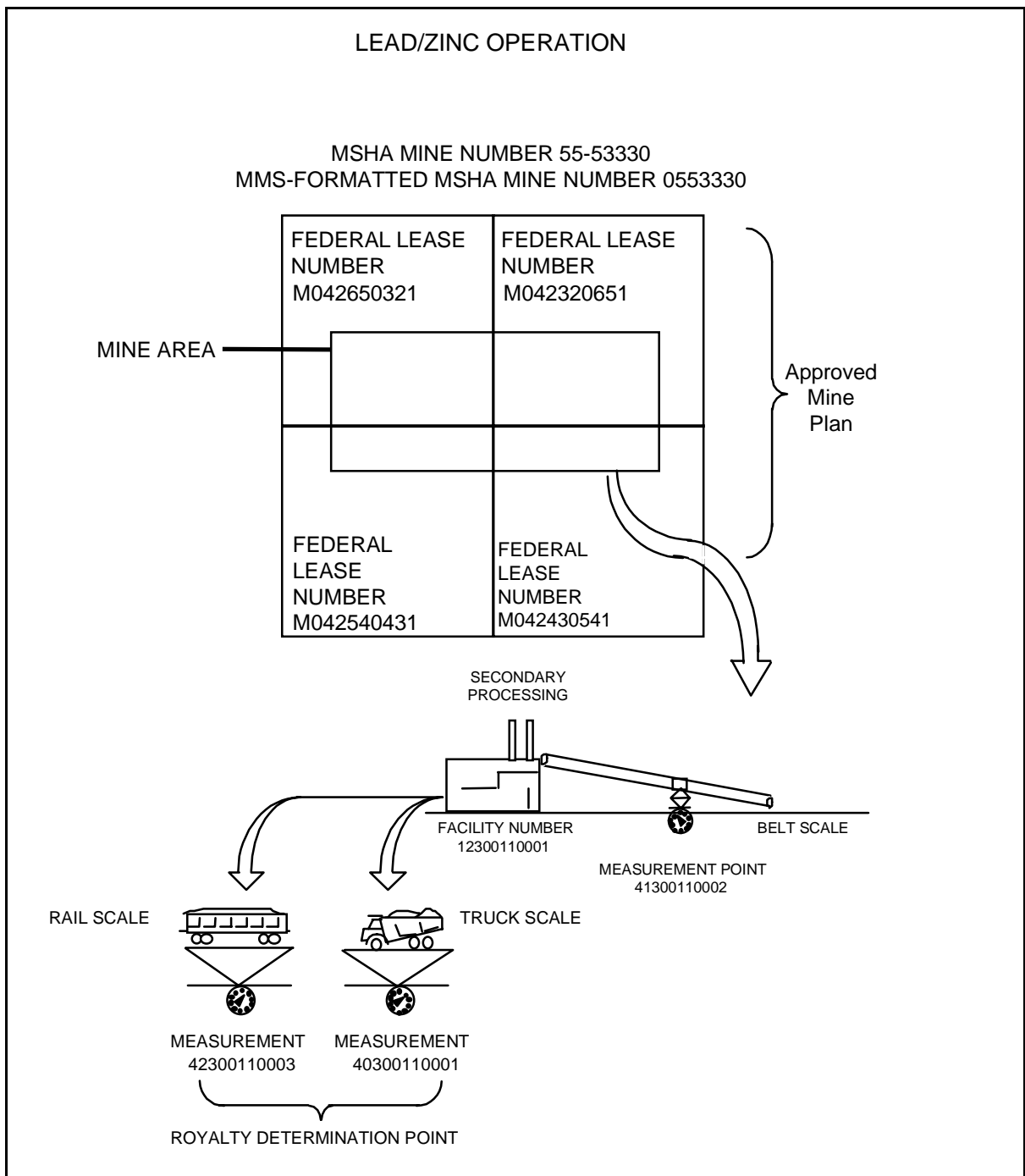


FIGURE 9-1. Example 1, Lead/zinc operation, schematic

9. Additional SMOR and SMFR Reporting Examples

MIF header information

Report item	Fact
Operator Name	ABC Mining Company
MMS Operator Number	MA123
Effective Report Period	April 1992
Mine Name	Mine #1
MSHA Mine Number	05553330
LMU Indicator	N (No LMU)
Mine Status Code	1 (producing)
Mine Products	PF (Lead Ore) PC (Lead Concentrate) ZA (Zinc Concentrate) CH (Copper Concentrate)
Allocation Method Code	3 (mine maps)
Federal or Indian	Federal leases (Federal field is checked)

MIF detail line information

Report item	Fact
Action Code	A (add)
MMS Lease Number	M042650321 M042540431 M042430541 M042320651
Mine Type	02 (underground)

MIF trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	1 of 1

**FIGURE 9-1. Example 1 (continued)
MIF fact sheet**

REPORTER USE

OMB 1010-0063
(Expires December 31, 19XX)

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

**MINE INFORMATION FORM
(MIF)**

FEDERAL
or
INDIAN

MMS USE

OPERATOR NAME: (30) ABC Mining Company			MMS OPERATOR NUMBER:(5) M A 1 2 3			EFFECTIVE REPORT PERIOD:(4)MMYY 0 4 9 2			
MINE NAME:(30) Mine #1			MSHA MINE NUMBER:(8) 0 5 5 5 3 3 3 0				LMU INDICATOR:(1) N		
MINE STATUS CODE:(1) 1	MINE PRODUCTS:(2) P F P C Z A C H								
CHECK IF NEW OPERATOR: <input type="checkbox"/>	PREVIOUS OPERATOR'S MMS NUMBER (IF APPLICABLE)(5)					ALLOCATION METHOD CODE: (1) 3			

LINE NUMBER	ACTION CODE(1)	MMS LEASE NUMBER (10)	MINE TYPE(2)	MINE TYPE(2)	MINE TYPE(2)	MINE TYPE(2)
1	A	M042650321	02			
2	A	M042540431	02			
3	A	M042430541	02			
4	A	M042320651	02			
5						
6						
7						
8						
9						
10						

FOR ILLUSTRATION ONLY

CONTACT NAME: (First, M.I., Last) (30) Joe Miner			TELEPHONE NUMBER:(10) (123) (456 - 7890)		EXTENSION NUMBER:(4) ()	
AUTHORIZING NAME: (First, M.I., Last) (30) Joe Miner			TITLE:(30) Mining Engineer			
AUTHORIZING SIGNATURE: [signature]			DATE:(6)MMDDYY 0 6 1 0 9 2		COMMENTS:(60)	

FIGURE 9-1. Example 1 (continued), Completed MIF

9. Additional SMOR and SMFR Reporting Examples

FMIF header information

Report item	Fact
Operator Name	ABC Mining Company
MMS Operator Number	MA123
Effective Report Period	April 1992
Federal or Indian	Federal production (Federal field is checked)

FMIF detail line information

Report item	Fact
Action Code	A (add)
Facility/Measurement Point Number	4030011 ^a (truck scale) 4130011 ^a (belt scale) 4230011 ^a (rail scale) 1230011 ^a (mill)
Commingling Code	4 (commingled)
Location Method Code	01
Location	SW-NE-36-520N-320W-06 (all at the same location)
Facility/Measurement Point Name	Truck load-out scale
Facility/Measurement Point Name	Mill feed scale
Facility/Measurement Point Name	XLT Rail Scale-Boss, MO
Facility/Measurement Point Name	ABC Mill
Subaction Code	A (add)
Scale/Meter Serial Number	253647B Ramsey 364758C Streator

- a. The sequence portion of the facility/measurement point number will be assigned by MMS. MMS will then notify the mine operator of the FMP sequence portion using a confirmation report.

FMIF trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	1 of 1

**FIGURE 9-1. Example 1 (continued)
FMIF fact sheet**

OMB 1010-0063
(Expires February 28, 20XX)

REPORTER USE

U.S. DEPARTMENT OF THE INTERIOR
 Minerals Management Service
 Royalty Management Program

**SOLID MINERALS
 FACILITY AND MEASUREMENT
 INFORMATION FORM
 (FMIF)**

FEDERAL
 or
 INDIAN

MMS USE

OPERATOR NAME: (30) <p align="center">ABC Mining Company</p>	MMS OPERATOR NUMBER (5) <p align="center">MA123</p>	EFFECTIVE REPORT PERIOD: (4) MMY <p align="center">0492</p>
CHECK IF NEW OPERATOR <input type="checkbox"/>	PREVIOUS OPERATOR'S MMS NUMBER (IF APPLICABLE) (5)	

LINE NUMBER	ACTION CODE (1)	FACILITY/ MEASUREMENT POINT NUMBER (11)				COMMINGLING CODE (1)	LOCATION METHOD CODE (2)	LOCATION (25)	FACILITY NAME (30)	INVENTORY CAPACITY (9)	SUBACTION CODE (1)	SCALE/METER SERIAL NUMBER (25)
		TYPE (2)	STATE (2)	COUNTY (3)	SEQUENCE (4)							
1	A	40	30	011		4	01	SW-NE-36-520N-320W-06	Truck Load-Out Scale		A	142536A Fairbanks
2	A	41	30	011		4	01	SW-NE-36-520N-320W-06	Mill Feed Scale		A	25367B Ramsey
3	A	42	30	011		4	01	SW-NE-36-520N-320W-06	XLT Rail Scale - Boss, MO		A	364758C Streator
4	A	12	30	011		4	01	SW-NE-36-520N-320W-06	ABC Mill			
5												
6												
7												
8												
9												
10												

FOR ILLUSTRATION ONLY

WARNING: This is to inform you that failure to report accurately and timely in accordance with the statutes, regulations, or terms of the lease, permit, or contract may result in late payment charges, civil penalties, or liquidated damages being assessed without further notification. Intentional false or inaccurate reporting is subject to criminal prosecution in accordance with applicable Federal law(s).

CONTACT NAME: (First, M.I., Last) (30) <p align="center">Joe Miner</p>	TELEPHONE NUMBER: (10) <p align="center">123-456-7890</p>
AUTHORIZING NAME: (First, M.I., Last) (30) <p align="center">Joe Miner</p>	TITLE: (30) <p align="center">Mining Engineer</p>
AUTHORIZING SIGNATURE: <p align="center">[signature]</p>	DATE: (6) MMDDYY <p align="center">061092</p>
COMMENTS: (60)	

FORM MMS-4051-S (REV. 12/93)

PAGE 1 OF 1

FIGURE 9-1. Example 1 (continued), Completed FMIF

9. Additional SMOR and SMFR Reporting Examples

SMOR-A and -B header information

Report item	Fact
Report Type	Original
Effective Report Period	May 1992
MMS Operator Number	MA123
Source MSHA Mine Number	05553330
Operator Name	ABC Mining Company
Mine Name	Mine #1
Federal or Indian	Federal production (Federal field is checked)

SMOR-A detail line information^a

Report item	Lease 1	Lease 2	Lease 3
Action Code	A (add)	A (add)	A (add)
MMS Lease Number	M042650321	M042540431	M042430541
Product Code	PF (Lead Ore)	PF (Lead Ore)	PF (Lead Ore)
Beginning Inventory	8,500 tons	15,000 tons	500 tons
Quantity Produced	75,000 tons	111,000 tons	105,000 tons
Losses from Production	0 tons	0 tons	0 tons
Net Production	75,000 tons	111,000 tons	105,000 tons
Quality Code	01,02,03,04,05	01,02,03,04,05	01, 02, 03, 04, 05
Analysis	4.00,0.70,0.42, 0.001, 0.001	3.80,0.05,0.43, 0.001, 0.001	4.20, 0. 19, 0.50, 0.001, 0.001
Disposition Code	81 (transfer)	81 (transfer)	81 (transfer)
Quantity	83,000 tons	126,000 tons	104,500 tons
Facility Number for Transfers	12300110001	12300110001	12300110001
Measurement Point	41300110002	41300110002	41300110002
Ending Inventory	500 tons	0 tons	1,000 tons

a. Lease M042320651 had no inventory or production during this report period.

FIGURE 9-1. Example 1 (continued), SMOR-A and -B fact sheet

SMOR-A detail line information^a (continued)

Report item	Lease 1	Lease 2	Lease 3
Grand Totals (last SMOR-A page only)			
Beginning Inventory	24,000 tons		
Quantity Produced	291,000 tons		
Losses from Production	0 tons		
Net Production	291,000 tons		
Disposition Quantity	313,500 tons		
Ending Inventory	1,500 tons		

a. Lease M042320651 had no inventory or production during this report period.

SMOR-A trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	1 of 3 and 2 of 3

SMOR-B detail line information

Report item	Lease 1	Lease 2	Lease 3
Action Code	A (add)	A (add)	A (add)
Source MMS Lease Number	M042650321	M042540431	M042430541
Product Code	PC, ZA, CH	PC, ZA, CH	PC, ZA, CH
Selling Facility Number	12300110001	12300110001	1230011001

**FIGURE 9-1. Example 1 (continued)
SMOR-A and -B fact sheet (continued)**

9. Additional SMOR and SMFR Reporting Examples

SMOR-B detail line information

Report item	Lease 1	Lease 2	Lease 3
Action Code	A (add)	A (add)	A (add)
Source MMS Lease Number	M042650321	M042540431	M042430541
Product Code	PC, ZA, CH	PC, ZA, CH	PC, ZA, CH
Selling Facility Number	12300110001	12300110001	1230011001
Sales Quantity	648 tons	960 tons	792 tons
	54 tons	80 tons	66 tons
	40 tons	60 tons	50 tons
Grand Total			
Sales Quantity	2,750 tons		

SMOR-B trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	3 of 3

**FIGURE 9-1. Example 1 (continued)
SMOR-A and B fact sheet (continued)**

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

**SOLID MINERALS OPERATIONS REPORT
PART A - PRODUCTION AND DISPOSITION
OF RAW MATERIALS
(SMOR-A)**

(OMB 1010-0063)
(Expires December 31, 19XX)

FEDERAL
or
INDIAN
MMS USE

REPORTER USE		REPORT TYPE: <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> MODIFIED		EFFECTIVE REPORT PERIOD: (4) MMY Y 0 5 9 2		MMS OPERATOR NUMBER (5) M A 1 1 2 3		MSHA MINE NUMBER: (8) 0 5 5 5 3 3 3 0	
OPERATOR NAME: (30) ABC Mining Company						MINE NAME: (30) Mine #1			

LINE NUMBER ACTION CODE (1)	MMS LEASE NUMBER (10)	PRODUCT CODE (2)	BEGINNING INVENTORY (9)	QUANTITY PRODUCED (9)	LOSSES FROM PRODUCTION (9)	NET PRODUCTION (9)	QUALITY CODE (2)	ANALYSIS (8)	DISPOSITION CODE (2)	DISPOSITIONS			ENDING INVENTORY (9)
										QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	
1 A	M042650321	PF	8500	75000	0	75000	01	4 00	81	83000	12300110001	41300110002	500
2 A	M042650321	PF					02	0 70					
3 A	M042650321	PF					03	0 42					
4 A	M042650321	PF					04	0 001					
5 A	M042650321	PF					05	0 001					
6 A	M042540431	PF	15000	111000	0	111000	01	3 80	81	126000	12300110001	41300110002	0
7 A	M042540431	PF					02	0 05					
8 A	M042540431	PF					03	0 43					
9 A	M042540431	PF					04	0 001					
10 A	M042540431	PF					05	0 001					
GRAND TOTALS (LAST SMOR-A PAGE ONLY)													

FOR ILLUSTRATION ONLY

CHECK IF PART A IS CONTINUED WARNING: This is to inform you that failure to report accurately and timely in accordance with the statutes, regulations, or terms of the lease, permit, or contract may result in late payment charges, civil penalties, or liquidated damages being assessed without further notification. Intentional false or inaccurate reporting is subject to criminal prosecution in accordance with applicable Federal law(s).

CONTACT NAME: (First, M.I., Last) (30) Joe Miner		TELEPHONE NUMBER: (10) (123) (456 - 7890)		EXTENSION NUMBER: (4) ()	
AUTHORIZING NAME: (First, M.I., Last) (30) Joe Miner		TITLE: (30) Mining Engineer			
AUTHORIZING SIGNATURE: [signature]		DATE: (6) MMDDYY 0 6 1 0 9 2		COMMENTS: (60)	

FIGURE 9-1. Example 1 (continued), Completed SMOR-A (1 of 3)

REPORTER USE

OMB 1010-0063
(Expires December 31, 19XX)

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

**SOLID MINERALS OPERATIONS REPORT
PART A - PRODUCTION AND DISPOSITION
OF RAW MATERIALS
(SMOR-A)**

FEDERAL
or
INDIAN

MMS USE

REPORT TYPE: ORIGINAL EFFECTIVE REPORT PERIOD: (4) MMY MMS OPERATOR NUMBER (5) MSHA MINE NUMBER: (8)

| 0 | 5 | 9 | 2 | M | A | 1 | 2 | 3 | | 0 | 5 | 5 | 3 | 3 | 0 |

OPERATOR NAME: (30) MINE NAME: (30)

ABC Mining Company Mine #1

LINE NUMBER ACTION CODE (1)	MMS LEASE NUMBER (10)	PRODUCT CODE (2)	BEGINNING INVENTORY (9)	QUANTITY PRODUCED (9)	LOSSES FROM PRODUCTION (9)	NET PRODUCTION (9)	QUALITY CODE (3)	ANALYSIS (8)	DISPOSITION CODE (2)	DISPOSITIONS			ENDING INVENTORY (9)
										QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	
1	A M042430541	PF	500	105000	0	105000	01	4 20	81	104500	12300110001	41300110002	1000
2	A M042430541	PF					02	0 19					
3	A M042430541	PF					03	0 50					
4	A M042430541	PF					04	0 001					
5	A M042430541	PF					05	0 001					
6	A M042320651	PF	0	0	0	0							0
7													
8													
9													
10													
GRAND TOTALS (LAST SMOR-A PAGE ONLY)			24000	291000	0	291000				313500			1500

FOR ILLUSTRATION ONLY

CHECK IF PART A IS CONTINUED WARNING: This is to inform you that failure to report accurately and timely in accordance with the statutes, regulations, or terms of the lease, permit, or contract may result in late payment charges, civil penalties, or liquidated damages being assessed without further notification. Intentional false or inaccurate reporting is subject to criminal prosecution in accordance with applicable Federal law(s).

CONTACT NAME: (First, M.I., Last) (30) Joe Miner	TELEPHONE NUMBER: (10) (123) (456 - 7890)
AUTHORIZING NAME: (First, M.I., Last) (30) Joe Miner	EXTENSION NUMBER: (4) ()
AUTHORIZING SIGNATURE: [signature]	TITLE: (30) Mining Engineer
DATE: (6) MMDDYY 0 6 1 0 9 2	COMMENTS: (60)

FIGURE 9-1. Example 1 (continued), Completed SMOR-A (2 of 3)

OMB 1010-0063
(Expires December 31, 19XX)

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

**SOLID MINERALS OPERATIONS REPORT
PART B - MINE SALES FROM A FACILITY
(SMOR-B)**

FEDERAL
or
INDIAN

REPORTER USE MMS USE

REPORT TYPE: ORIGINAL MODIFIED

EFFECTIVE REPORT PERIOD:(4) MMY

MMS OPERATOR NUMBER:(5)

MSHA MINE NUMBER:(8)

OPERATOR NAME:(30) **ABC Mining Company**

MINE NAME: (30) **Mine #1**

LINE NUMBER	ACTION CODE (1)	SOURCE MMS LEASE NUMBER (10)	PRODUCT CODE (2)	SELLING FACILITY NUMBER (11)	SALES QUANTITY (9)
1	A	M042650321	PC	12300110001	648
2	A	M042650321	ZA	12300110001	54
3	A	M042650321	CH	12300110001	40
4	A	M042540431	PC	12300110001	960
5	A	M042540431	ZA	12300110001	80
6	A	M042540431	CH	12300110001	60
7	A	M042430541	PC	12300110001	792
8	A	M042430541	ZA	12300110001	66
9	A	M042430541	CH	12300110001	50
10					
GRAND TOTAL (LAST SMOR-B PAGE ONLY)					2750

CHECK IF PART B IS CONTINUED

CONTACT NAME: (First, M.I., Last) (30) **Joe Miner**

TELEPHONE NUMBER:(10) (123) (456 - 7890) EXTENSION NUMBER:(4) ()

AUTHORIZING NAME: (First, M.I., Last) (30) **Joe Miner**

TITLE:(30) **Mining Engineer**

AUTHORIZING SIGNATURE: [signature] DATE:(6)MMDDYY

COMMENTS:(60)

**FIGURE 9-1. Example 1 (continued)
Completed SMOR-B (3 of 3)**

9. Additional SMOR and SMFR Reporting Examples

SMFR-A and -B header information

Report item	Fact
Report Type	Original
Effective Report Period	May 1992
MMS Operator Number	MA123
MSHA Facility Number	12300110001
Facility Name	ABC Mill
Federal or Indian	Federal production (Federal field is checked)

SMFR-A detail line information

Report item	Detail line	Fact
Action Code	1-8	A (add)
Source MSHA Mine Number	1-8	05553330
Process inputs		
Product Code	1-8	PF (lead ore)
Quantity	1	313,500 tons
Quality Code	1	01 (%Pb)
	2	02 (%Cu)
	3	05 (ounce/ton Ag)
	4	03 (%Zn)
	5	04 (%Cd)
	6	05 (ounce/ton Ag)
	7	02 (%Cu)
	8	05 (ounce/ton Ag)
Analysis	1	4.000
	2	0.500
	3	0.001
	4	1.500
	5	0.001
	6	0.001
	7	0.500
	8	0.001

**FIGURE 9-1. Example 1 (continued)
SMFR-A and -B fact sheet**

SMFR-A detail line information (continued)

Report item	Detail line	Fact
Process outputs		
Product Code	1,2,3	PC (Lead Concentrate)
	4,5,6	ZA (Zinc Concentrate)
	7,8	CH (Copper Concentrate)
Quantity	1	1,900 tons
	4	180 tons
	7	140 tons
Quality Code	1	01 (%Pb)
	2	02 %(Cu)
	3	03 (ounce/ton Ag)
	4	01 (%Zn)
	5	02 (%Cd)
	6	03 (ounce/ton Ag)
	7	01 (%Cu)
	8	02 (ounce/ton Ag)
Analysis	1	66.000
	2	27.000
	3	1.700
	4	58.127
	5	1.246
	6	1.130
	7	26.159
	8	1.320
Grand Totals		
Process Inputs	313,500 tons	
Process Outputs	2,220 tons	

**FIGURE 9-1. Example 1 (continued)
SMFR-A and -B fact sheet (continued)**

9. Additional SMOR and SMFR Reporting Examples

**FIGURE 9-1.
SMFR-A and -B fact sheet (continued)**

SMFR-B detail line information

Report item	Line 1	Line 2	Line 3	Line 4
Action Code	A (add)	A (add)	A (add)	A (add)
Product Code	PF	PC	ZA	CH
Source MSHA Mine Number	05553330	05553330	05553330	05553330
Beginning Inventory	1,500 tons	900 tons	50 tons	30 tons
Raw Material Receipts	313,500 tons	—	—	—
Production	—	1,900 tons	180 tons	140 tons
Disposition Code	86 (input)	80 (sales)	80 (sales)	80 (sales)
Quantity	313,500 tons	2,400 tons	200 tons	150 tons
Facility Number for Transfers	—	—	—	—
Measurement Point	—	42300110003	42300110003	40300110001
Ending Inventory	1,500 tons	400 tons	30 tons	20 tons
Grand Totals				
Beginning Inventory	2,480 tons			
Raw Material Receipts	313,500 tons			
Production	2,220 tons			
Disposition Quantity	316,250 tons			
Ending Inventory	1,950			

**FIGURE 9-1. Example 1 (continued)
SMFR-A and -B fact sheet (continued)**

SMFR-B trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	2 of 2

**FIGURE 9-1. Example 1 (continued)
SMFR-A and -B fact sheet (continued)**

OMB Approval No. 1010-0063
Expiration Date: December 31, 19XX

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

SOLID MINERALS FACILITY REPORT
PART A - PROCESS OPERATIONS
(SMFR-A)

FEDERAL
or
INDIAN

REPORTER USE

MMS USE

PROPRIETARY - FOR U.S. GOVERNMENT USE ONLY

REPORT TYPE: <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> MODIFIED	EFFECTIVE REPORT PERIOD:(4)MMYY 0 5 9 2	MMS OPERATOR NUMBER:(5) M A 1 2 3
OPERATOR NAME:(30) ABC Mining Company	MMS FACILITY NUMBER: (11) 1 2 3 0 0 1 1 0 0 0 1	OPERATOR'S FACILITY NUMBER: (20)
FACILITY NAME: (30) ABC Mill		

LINE NUMBER	ACTION CODE(1)	SOURCE MSHA MINE NUMBER (8)	PROCESS INPUTS				PROCESS OUTPUTS			
			PRODUCT CODE (2)	QUANTITY (9)	QUALITY CODE (2)	ANALYSIS (8)	PRODUCT CODE (2)	QUANTITY (9)	QUALITY CODE (2)	ANALYSIS (8)
1	A	05553330	PF	313500	01	4.000	PC	1900	01	66.000
2	A	05553330	PF		02	0.500	PC		02	27.000
3	A	05553330	PF		05	0.001	PC		03	1.700
4	A	05553330	PF		03	1.500	ZA	180	01	58.127
5	A	05553330	PF		04	0.001	ZA		02	1.246
6	A	05553330	PF		05	0.001	ZA		03	1.130
7	A	05553330	PF		02	0.500	CH	140	01	26.159
8	A	05553330	PF		05	0.001	CH		02	1.320
9										
10										
GRAND TOTALS (LAST SMFR-A PAGE ONLY)				313500				2220		

FOR ILLUSTRATION ONLY

CHECK IF PART A IS CONTINUED

CONTACT NAME: (First, M.I., Last) (30) Joe Miner	TELEPHONE NUMBER:(10) (123) (456 - 7890)	EXTENSION NUMBER:(4) ()
AUTHORIZING NAME: (First, M.I., Last) (30) Joe Miner	TITLE:(30) Mining Engineer	
AUTHORIZING SIGNATURE: [signature]	DATE:(6)MMDDYY 0 6 1 0 9 2	COMMENTS:(60)

FORM MMS-4060-A (REV. 2/97)

FIGURE 9-1. Example 1 (continued)
Completed SMFR-A (1 of 2)

OMB Approval No. 1010-0063
Expiration Date: December 31, 19XX

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

SOLID MINERALS FACILITY REPORT
PART B - INVENTORY
(SMFR-B)

FEDERAL
or
INDIAN MMS USE

REPORTER USE

REPORT TYPE: ORIGINAL
 MODIFIED

EFFECTIVE REPORT PERIOD: (4)MMYY
0 5 9 2

MMS OPERATOR NUMBER: (5)
M A 1 2 3

OPERATOR NAME: (30) ABC Mining Co.

MMS FACILITY NUMBER: (11)
1 2 3 0 0 1 1 0 0 0 1

FACILITY NAME: (30) ABC Mill

OPERATOR'S FACILITY NUMBER: (20)

LINE NUMBER	ACTION CODE (1)	PRODUCT CODE (2)	SOURCE MSHA MINE NUMBER (8)	BEGINNING INVENTORY (9)	RAW MATERIAL RECEIPTS (9)	PRODUCTION (9)	DISPOSITION CODE (2)	DISPOSITIONS			
								QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	ENDING INVENTORY (9)
1	A	PF	05553330	1500	313500		86	313500			1500
2	A	PC	05553330	900		1900	80	2400		42300110003	400
3	A	ZA	05553330	50		180	80	200		42300110003	30
4	A	CH	05553330	30		140	80	150		40300110001	20
5											
6											
7											
8											
9											
10											
GRAND TOTAL (LAST SMFR-B PAGE ONLY)				2480	313500	2220		316250			1950

FOR ILLUSTRATION ONLY

CHECK IF PART B IS CONTINUED

CONTACT NAME: (First, M.I., Last) (30) Joe Miner

TELEPHONE NUMBER: (10) (123) (456 - 7890) EXTENSION NUMBER: (4) ()

AUTHORIZING NAME: (First, M.I., Last) (30) Joe Miner

TITLE: (30) Mining Engineer

AUTHORIZING SIGNATURE: [signature]

DATE: (6)MMDDYY
0 6 1 0 9 2

COMMENTS: (60)

FIGURE 9-1. Example 1 (continued)
Completed SMFR-B (2 of 2)

9.3 Example 2: Operation of a Remote Storage Facility

Example 2 (fig. 9-2 on p. 9-22) consists of a schematic and the completed SMFR-B reports. Key considerations are:

1. A part of processed production is sold directly from a secondary processing facility, while the remainder is transferred to a remote storage facility (inventory stockpiled off the lease) prior to sale.
2. Remote storage and secondary processing facility activity must be reported on separate SMFR-B reports.
3. Royalty quantity is determined in each case at the point of sale, with some sales occurring at the refinery and some at the remote storage facility.

Key details of the completed SMFR-B include:

1. Dispositions of production on the SMFR-B, submitted for the secondary processing facility, include both sales (disposition code 80) and transfers **to** a remote storage facility (disposition code 81).
2. The transfer of processed material to a remote storage facility from another facility is shown on the SMFR-B as a transfer **from** a facility (disposition code 82).
3. If the incoming material at the remote storage facility is a raw product, the quantity received is entered as a raw material receipt rather than a disposition.
4. The disposition quantity shown as transferred **to** a facility for the secondary processing facility is equal to the quantity shown as transferred **from** a facility for the remote storage facility. However, brackets (<>) must be entered around the latter value to indicate incoming material at the remote storage facility.

5. The grand total of the dispositions for the remote storage facility is bracketed to show an addition to the material on hand because more material was received by the facility than was sold.
6. A SMFR-A is also required for the secondary processing facility, but should be submitted only for the report periods in which secondary processing has occurred. Only a SMFR-B is required for the remote storage facility because material is not processed there.

9. Additional SMOR and SMFR Reporting Examples

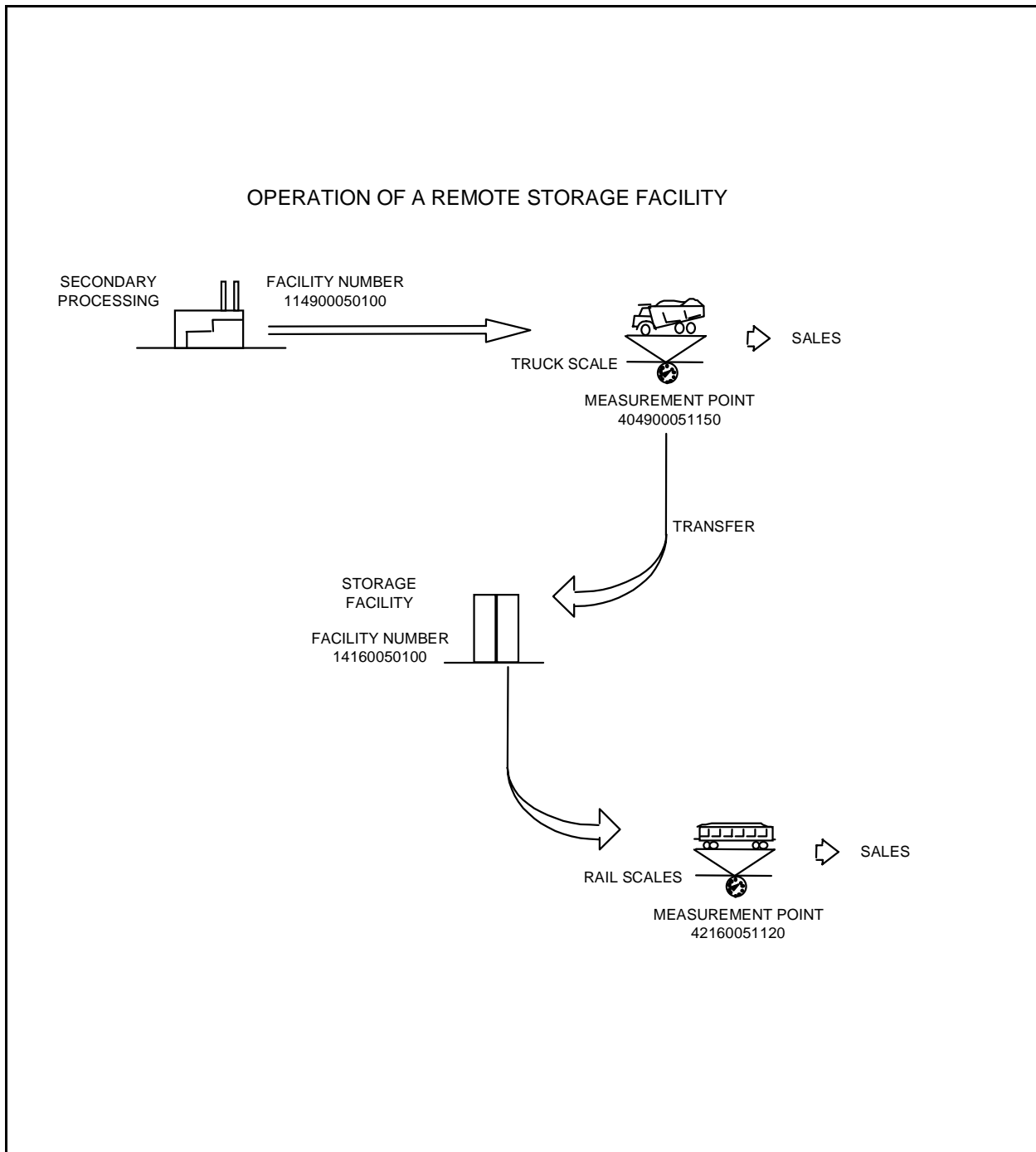


FIGURE 9-2. Example 2, Operation of a remote storage facility, schematic

OMB Approval No. 1010-0063
Expiration Date: December 31, 19XX

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

SOLID MINERALS FACILITY REPORT
PART B - INVENTORY
(SMFR-B)

FEDERAL
or
INDIAN MMS USE

REPORTER USE

REPORT TYPE: ORIGINAL
 MODIFIED

EFFECTIVE REPORT PERIOD:(4)MMYY
0 2 9 2

MMS OPERATOR NUMBER:(5)
M A 5 2 8

OPERATOR NAME:(30)
LMN Mine Co.

MMS FACILITY NUMBER: (11)
1 1 4 9 0 0 5 0 1 0 0

FACILITY NAME: (30)
PQR Refinery

OPERATOR'S FACILITY NUMBER: (20)

LINE NUMBER	ACTION CODE(1)	PRODUCT CODE (2)	SOURCE MSHA MINE NUMBER (8)	BEGINNING INVENTORY (9)	RAW MATERIAL RECEIPTS (9)	PRODUCTION (9)	DISPOSITION CODE (2)	DISPOSITIONS			
								QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	ENDING INVENTORY (9)
1	AJE		04933445	15000	23000		86	23000			15000
2	AJL		04933445	1000		4000	81	3200	14160050100	40490051150	1300
3	AJL		04933445				80	500		40490051150	
4	AJD		04933445	2500		5000	81	2000	14160050100	40490051150	4700
5	AJD		04933445				80	800		40490051150	
6	AJD		04933445	5000		600	81	4000	14160050100	40490051150	1600
7											
8											
9											
10											
GRAND TOTAL (LAST SMFR-B PAGE ONLY)				23500	23000	9600		33500			22600

CHECK IF PART B IS CONTINUED

CONTACT NAME: (First, M.I., Last) (30) Dave Reporter

TELEPHONE NUMBER:(10) (123) (456 - 7890) EXTENSION NUMBER:(4) ()

AUTHORIZING NAME: (First, M.I., Last) (30) John Engineer

TITLE:(30) Facility Manager

AUTHORIZING SIGNATURE: [signature]

DATE:(6)MMDDYY
0 4 0 5 9 2

COMMENTS:(60)

FIGURE 9-2. Example 2 (continued)
Completed SMFR-B (refinery)

OMB Approval No. 1010-0063
Expiration Date: December 31, 19XX

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

SOLID MINERALS FACILITY REPORT
PART B - INVENTORY
(SMFR-B)

FEDERAL
or
INDIAN MMS USE

REPORTER USE

REPORT TYPE: ORIGINAL
 MODIFIED

EFFECTIVE REPORT PERIOD: (4)MMYY
0 2 9 2

MMS OPERATOR NUMBER: (5)
M A 5 2 8

OPERATOR NAME: (30) LMN Mine Co.

MMS FACILITY NUMBER: (11)
1 4 1 6 0 0 5 0 1 0 0

FACILITY NAME: (30) JKL Silo

OPERATOR'S FACILITY NUMBER: (20)

LINE NUMBER	ACTION CODE (1)	PRODUCT CODE (2)	SOURCE MSHA MINE NUMBER (8)	BEGINNING INVENTORY (9)	RAW MATERIAL RECEIPTS (9)	PRODUCTION (9)	DISPOSITION CODE (2)	DISPOSITIONS			
								QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	ENDING INVENTORY (9)
1	A	JL	04933445	12000			82	<3200>	11490050100		10400
2	A	JL	04933445				80	4800		42160051120	
3	A	JD	04933445	7000			82	<2000>	11490050100		7200
4	A	JD	04933445				80	1800		42160051120	
5	A	LD	04933445	8500			82	<4000>	11490050100		10500
6	A	LD	04933445				80	2000		42160051120	
7											
8											
9											
10											
GRAND TOTAL (LAST SMFR-B PAGE ONLY)				27500				<600>			28100

CHECK IF PART B IS CONTINUED

CONTACT NAME: (First, M.I., Last) (30) Dave Reporter

TELEPHONE NUMBER: (10) (123) (456 - 7890) EXTENSION NUMBER: (4) () () ()

AUTHORIZING NAME: (First, M.I., Last) (30) John Engineer

TITLE: (30) Facility Manager

AUTHORIZING SIGNATURE: [signature]

DATE: (6)MMDDYY
0 4 0 5 9 2

COMMENTS: (60)

FIGURE 9-2. Example 2 (continued)
Completed SMFR-B (remote storage)

9.4 Example 3: Reporting a Lease With No Dispositions and a Secondary Processing Facility With No Production for a Report Period

Key considerations of this example (fig. 9-3) are:

1. A mine has three producing leases, only two of which have product dispositions for the report period. Production from the third lease was sent to a secondary processing facility during previous report periods.
2. Product quality is measured at the time of disposition from the mine. Three quality parameters are required to be reported for lease-level dispositions (Btu, %ash, and %sulfur).
3. The secondary processing facility receives but does not process any raw material during the report period; however, processed product is sold from inventory at the facility during the report period.
4. Sales of processed coal (EC) from the facility inventory were allocated to three MMS leases on the SMOR-B.

Key details of the completed reports include:

1. Because the product mined from one lease was stockpiled, the mine operator reports production and increased inventory for the lease but leaves the Quality Code, Analysis, Disposition Code, and Dispositions Quantity fields blank on the SMOR-A.
2. On the SMOR-B, allocated sales of the processed product from inventory at the facility are shown for the lease with no raw product dispositions. Raw product from the lease was transferred and processed during a previous report period.
3. The facility operator submits a SMFR-B showing raw material receipts and processed product sales from inventory. The Production field is left blank because no processing occurred during the report period.
4. A SMFR-A is not required when no raw products are processed during the report period.

9. Additional SMOR and SMFR Reporting Examples

SMOR-A and -B header information

Report item	Fact
Report Type	Original
Effective Report Period	July 1992
MMS Operator Number	MA223
MSHA Mine Number	04233001
Operator Name	LMN Mine Company
Mine Name	Blue Mine
Federal or Indian	Federal production (Federal field is checked)

SMOR-A detail line information

Report item	Lines 1-3	Lines 4-6	Line 7
Action Code	A (add)	A (add)	A (add)
MMS Lease Number	M734812360	M734724630	M733632410
Product Code	ED (Bituminous) Coal-Raw)	ED (Bituminous Coal-Raw)	ED (Bituminous Coal-Raw)
Beginning Inventory	25,000 tons	10,000 tons	15,000 tons
Quantity Produced	75,000 tons	100,000 tons	125,000 tons
Losses from Production	0 tons	0 tons	0 tons
Net Production	75,000 tons	100,000 tons	125,000 tons
Quality Code	01 (Btu) 02% Ash 03% Sulfur	01 (Btu) 02% Ash 03% Sulfur	— — —
Analysis	11,200 Btu 6.51% Ash 0.53% Sulfur	11,200 Btu 6.51% Ash 0.53% Sulfur	— — —
Disposition Code	81 (Transfer)	81 (Transfer)	—
Quantity	75,000 tons	110,000 tons	—
Facility Number for Transfers	10430270001	10430270001	—
Measurement Point	41430270001 (belt scale)	41430270001 (belt scale)	—
Ending Inventory	25,000 tons	0 tons	140,000 tons

**FIGURE 9-3. Example 3
SMOR-A and -B fact sheet**

SMOR-A detail line information (continued)

Report item	Lines 1–3	Lines 4–6	Line 7
Grand Totals			
Beginning Inventory	50,000 tons		
Quantity Produced	300,000 tons		
Losses from Production	0 tons		
Net Production	300,000 tons		
Disposition Quantity	185,000 tons		
Ending Inventory	165,000 tons		

SMOR-A trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	1 of 2

SMOR-B detail line information

Report item	Lines 1–3	Lines 4–6	Line 7
Action Code	A (add)	A (add)	A (add)
MMS Lease Number	M734812360	M734724630	M733632410
Product Code	EC (Bituminous Coal-Processed)	EC (Bituminous Coal-Processed)	EC (Bituminous Coal-Processed)
Selling Facility Number	10430270001 (Black Coal Wash Plant)	10430270001 (Black Coal Wash Plant)	10430270001 (Black Coal Wash Plant)

**FIGURE 9-3. Example 3 (continued)
SMOR-A and -B fact sheet (continued)**

9. Additional SMOR and SMFR Reporting Examples

SMOR-B detail line information (continued)

Report item	Lines 1–3	Lines 4–6	Line 7
Sales Quantity	20,000 tons	20,000 tons	10,000 tons
Grand Total Sales Quantity	50,000 tons		

SMOR-B trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	2 of 2

**FIGURE 9-3. Example 3 (continued)
SMOR-A and -B fact sheet (continued)**

REPORTER USE

OMB 1010-0063
(Expires December 31, 19XX)

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

**SOLID MINERALS OPERATIONS REPORT
PART A - PRODUCTION AND DISPOSITION
OF RAW MATERIALS
(SMOR-A)**

FEDERAL
or
INDIAN
MMS USE

REPORT TYPE: ORIGINAL EFFECTIVE REPORT PERIOD: (4) MMY MMS OPERATOR NUMBER (5) MSHA MINE NUMBER: (8)

MODIFIED | 0 | 7 | 9 | 2 | M | A | 2 | 2 | 3 | | 0 | 4 | 2 | 3 | 0 | 0 | 1 |

OPERATOR NAME: (30) LMN Mine Company MINE NAME: (30) Blue Mine

LINE NUMBER ACTION CODE (1)	MMS LEASE NUMBER (10)	PRODUCT CODE (2)	BEGINNING INVENTORY (9)	QUANTITY PRODUCED (9)	LOSSES FROM PRODUCTION (9)	NET PRODUCTION (9)	QUALITY CODE (3)	ANALYSIS (8)	DISPOSITION CODE (2)	DISPOSITIONS			ENDING INVENTORY (9)
										QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	
1	A M734812360	ED	25000	75000	0	75000	01	11200	81	75000	10430270001	41430270001	25000
2	A M734812360	ED					02	6 51					
3	A M734812360	ED					03	0 53					
4	A M734724630	ED	10000	100000	0	100000	01	11200	81	110000	10430270001	41430270001	0
5	A M734724630	ED					02	6 51					
6	A M734724630	ED					03	0 53					
7	A M733632410	ED	15000	125000	0	125000							140000
8													
9													
10													
GRAND TOTALS (LAST SMOR-A PAGE ONLY)			50000	300000		300000				185000			165000

CHECK IF PART A IS CONTINUED WARNING: This is to inform you that failure to report accurately and timely in accordance with the statutes, regulations, or terms of the lease, permit, or contract may result in late payment charges, civil penalties, or liquidated damages being assessed without further notification. Intentional false or inaccurate reporting is subject to criminal prosecution in accordance with applicable Federal law(s).

CONTACT NAME: (First, M.I., Last) (30) Joe Mineral TELEPHONE NUMBER: (10) (123) (456 - 7890) EXTENSION NUMBER: (4) ()

AUTHORIZING NAME: (First, M.I., Last) (30) Jane Mineral TITLE: (30) Staff Mining Engineer

AUTHORIZING SIGNATURE: [signature] DATE: (6) MMDDYY | 0 | 8 | 1 | 5 | 9 | 2 | COMMENTS: (60)

**FIGURE 9-3. Example 3 (continued)
Completed SMOR-A (1 of 2)**

REPORTER USE

OMB 1010-0063
(Expires December 31, 19XX)

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

**SOLID MINERALS OPERATIONS REPORT
PART B - MINE SALES FROM A FACILITY
(SMOR-B)**

MMS USE

FEDERAL
or
INDIAN

REPORT TYPE: <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> MODIFIED	EFFECTIVE REPORT PERIOD:(4) MMY 0 7 9 2	MMS OPERATOR NUMBER:(5) M A 2 2 3	MSHA MINE NUMBER:(8) 0 4 2 3 3 0 0 1
OPERATOR NAME:(30) LMN Mine Company		MINE NAME: (30) Blue Mine	

LINE NUMBER	ACTION CODE (1)	SOURCE MMS LEASE NUMBER (10)	PRODUCT CODE (2)	SELLING FACILITY NUMBER (11)	SALES QUANTITY (9)
1	A	M734812360	EC	10430270001	20000
2	A	M734724630	EC	10430270001	20000
3	A	M733632410	EC	10430270001	10000
4					
5					
6					
7					
8					
9					
10					
GRAND TOTAL (LAST SMOR-B PAGE ONLY)					50000

FOR ILLUSTRATION ONLY

CONTACT NAME: (First, M.I., Last) (30) Joe Mineral	TELEPHONE NUMBER:(10) (123) (456 - 789) EXTENSION NUMBER:(4) ()
AUTHORIZING NAME: (First, M.I., Last) (30) Jane Mineral	TITLE:(30) Staff Mining Engineer
AUTHORIZING SIGNATURE: [signature]	DATE:(6)MMDDYY 0 8 1 5 9 2
COMMENTS:(60)	

**FIGURE 9-3. Example 3 (continued)
Completed SMOR-B (2 of 2)**

SMFR-B header information

Report item	Fact
Report Type	Original
Effective Report Period	July 1992
MMS Operator Number	MA223
Operator Name	LMN Mine Company
MMS Facility Number	1043027001
Facility Name	Black Coal Wash Plant
Federal or Indian	Federal production (Federal field is checked)

SMFR-B detail line information

Report item	Line 1	Line 2
Action Code	A (add)	A (add)
Product Code	ED (Bituminous Coal-Raw)	EC (Bituminous Coal-Processed)
Source MSHA Mine Number	04233001	04233001
Beginning Inventory	15,000 tons	75,000 tons
Raw Material Receipts	185,000 tons	—
Production	—	0 tons
Disposition Code	—	80 (sales)
Quantity	—	50,000 tons
Facility Number for Transfers	—	—
Measurement Point	—	42430270001 (rail scale)
Ending Inventory	200,000 tons	25,000 tons
Grand Totals		
Beginning Inventory	90,000 tons	
Raw Material Receipts	185,000 tons	
Production	0 tons	
Disposition Quantity	50,000 tons	
Ending Inventory	225,000 tons	

SMFR-B trailer information

Report item	Fact
All required trailer information is completed.	
Page Number	1 of 1

**FIGURE 9-3. Example 3 (continued)
SMFR-B fact sheet**

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Expiration Date: December 31, 19XX

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

SOLID MINERALS FACILITY REPORT
PART B - INVENTORY
(SMFR-B)

FEDERAL or INDIAN

REPORTER USE MMS USE

REPORT TYPE: ORIGINAL MODIFIED

EFFECTIVE REPORT PERIOD: (4)MMYY 0 7 9 2

MMS OPERATOR NUMBER: (5) M A 2 2 3

OPERATOR NAME: (30) LMN Mine Company

MMS FACILITY NUMBER: (11) 1 0 4 3 0 2 7 0 0 0 1

FACILITY NAME: (30) Black Coal Wash Plant

OPERATOR'S FACILITY NUMBER: (20)

LINE NUMBER	ACTION CODE (1)	PRODUCT CODE (2)	SOURCE MSHA MINE NUMBER (8)	BEGINNING INVENTORY (9)	RAW MATERIAL RECEIPTS (9)	PRODUCTION (9)	DISPOSITION CODE (2)	DISPOSITIONS			ENDING INVENTORY (9)
								QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	
1	A	ED	04233001	15000	185000						200000
2	A	EC	04233001	75000		0	80	50000		42430270001	25000
3											
4											
5											
6											
7											
8											
9											
10											
GRAND TOTAL (LAST SMFR-B PAGE ONLY)				90000	185000	0		50000			225000

FOR ILLUSTRATION ONLY

CHECK IF PART B IS CONTINUED

CONTACT NAME: (First, M.I., Last) (30) Joe Mineral

TELEPHONE NUMBER: (10) (123) (456 - 7890) EXTENSION NUMBER: (4) ()

AUTHORIZING NAME: (First, M.I., Last) (30) Jane Mineral

TITLE: (30) Staff Mining Engineer

AUTHORIZING SIGNATURE: [signature]

DATE: (6)MMDDYY 0 8 1 5 9 2

COMMENTS: (60)

FIGURE 9-3. Example 3 (continued)
Completed SMFR-B (2 of 2)

9.5 Example 4: Reclassifying Concentrate at the Mill

Key considerations of this example are:

1. Copper Export Company has shipped 1,700 tons of copper concentrate under a tolling agreement to a smelter overseas.
2. The royalty quantity is determined prior to processing at the smelter, while the value of concentrate is determined after processing.
3. The amount of copper concentrate shipped to the overseas smelter is the amount to be reclassified into a mill (or weight) equivalent.

Key details of the completed SMFR-B (fig. 9-4) are:

1. No secondary processing activity has occurred during the June 1992 report period. A SMFR-A is required to be submitted only when secondary processing occurs.
2. Three hundred tons of Copper Concentrate (CH) remain in inventory at the mill.
3. One thousand seven hundred tons of Mill Equivalent (CI) will remain in inventory at the mill until royalty determination has occurred.
4. Disposition code 87 must be used on the last line of the Copper Concentrate (CH) and the first line of the Copper Concentrate-Mill Equivalent (CI).

OMB Approval No. 1010-0063
Expiration Date: December 31, 19XX

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

**SOLID MINERALS FACILITY REPORT
PART B - INVENTORY
(SMFR-B)**

FEDERAL
or
INDIAN MMS USE

REPORTER USE

REPORT TYPE: ORIGINAL
MODIFIED

EFFECTIVE REPORT PERIOD:(4)MMYY
0 6 9 2

MMS OPERATOR NUMBER:(5)
M A 2 3 1

OPERATOR NAME:(30) Copper Export Company

MMS FACILITY NUMBER: (11)
1 2 3 0 0 1 1 0 0 0 5

FACILITY NAME: (30) Sulfide Ridge Mill

OPERATOR'S FACILITY NUMBER: (20)

LINE NUMBER	ACTION CODE(1)	PRODUCT CODE (2)	SOURCE MSHA MINE NUMBER (8)	BEGINNING INVENTORY (9)	RAW MATERIAL RECEIPTS (9)	PRODUCTION (9)	DISPOSITION CODE (2)	DISPOSITIONS			ENDING INVENTORY (9)
								QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	
1	A	PH	04110217	5000	0						5000
2	A	PC	04110217	500		0					500
3	A	CH	04110217	2000		0	87	1700			300
4	A	CI	04110217	0			87	<1700>			1700
5											
6											
7											
8											
9											
10											
GRAND TOTAL (LAST SMFR-B PAGE ONLY)				7500	0	0		0			7500

FOR ILLUSTRATION ONLY

CHECK IF PART B IS CONTINUED

CONTACT NAME: (First, M.I., Last) (30) Sam Operator

TELEPHONE NUMBER:(10) (123) (456 - 7890) EXTENSION NUMBER:(4) ()

AUTHORIZING NAME: (First, M.I., Last) (30) Ray Mineral

TITLE:(30) Facility Manager

AUTHORIZING SIGNATURE: [signature]

DATE:(6)MMDDYY
0 7 1 0 9 2

COMMENTS:(60)

**FIGURE 9-4. Example 4
Completed SMFR-B**

9.6 Example 5: Inventory Adjustment at Secondary Processing Facility

Key considerations of this example for inventory adjustment at a secondary processing facility are:

1. The operation consists of an underground mine that is supplying raw trona to a mine-mouth refinery for processing.
2. The Soda Ash Co. (operator number MA999) maintains both raw product (trona ore) and processed product (soda ash and sodium sesquicarbonate) inventories at its refinery (Sweetwater Plant).
3. The Soda Ash Co. surveys the raw and processed inventories in December 1991 for their annual year-end inventory adjustments.

Key details of the completed reports (fig. 9-5, p. 9-37) include:

1. During the month of December 1991, 115,000 tons of trona ore (TJ) were transferred from the source mine (MSHA 04800999) and processed at the Sweetwater Plant (MMS facility 11490370015) to produce 58,000 tons of soda ash (SJ) and 5,200 tons of sodium sesquicarbonate (SP) (SMFR-A).
2. The action code/source MSHA mine number/product code/quality code (process input) combination must be entered on each line in which process output data are listed.
3. The trona ore inventory was reduced by 3,075 tons using disposition code 95 (inventory loss) and must be listed (line 2) after disposition code 86 (input to secondary process) (SMFR-B).
4. The soda ash inventory adjustment resulted in a gain of 1,000 tons. Disposition code 94 must be used to indicate an inventory gain; brackets (< >) are required around the disposition quantity. Soda ash sales (disposition code 80) must be reported before an inventory adjustment.

9. Additional SMOR and SMFR Reporting Examples

5. During December 1991 all of the Sodium Sesquicarbonate (SP) was sold (11,500 tons) at the Sweetwater Plant. An inventory reduction of 500 tons occurred in order to have a zero ending inventory.
6. Disposition codes 94 and 95 (inventory gain and inventory loss) do not require a measurement point number to be reported on lines 2, 4, and 6.

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Expiration Date: December 31, 19XX

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

SOLID MINERALS FACILITY REPORT
PART A - PROCESS OPERATIONS
(SMFR-A)

FEDERAL
or
INDIAN

MMS USE

REPORTER USE

PROPRIETARY - FOR U.S. GOVERNMENT USE ONLY

REPORT TYPE: <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> MODIFIED	EFFECTIVE REPORT PERIOD:(4)MMYY 1 2 9 1	MMS OPERATOR NUMBER:(5) M A 9 9 9
OPERATOR NAME:(30) Soda Ash Co.	MMS FACILITY NUMBER: (11) 1 1 4 9 0 3 7 0 0 1 5	
FACILITY NAME: (30) Sweetwater Plant	OPERATOR'S FACILITY NUMBER: (20)	

LINE NUMBER	ACTION CODE(1)	SOURCE MSHA MINE NUMBER (8)	PROCESS INPUTS				PROCESS OUTPUTS			
			PRODUCT CODE (2)	QUANTITY (9)	QUALITY CODE (2)	ANALYSIS (8)	PRODUCT CODE (2)	QUANTITY (9)	QUALITY CODE (2)	ANALYSIS (8)
1	A	04800999	TJ	115000	01	61 . 05	SJ	58000	01	99 . 52
2	A	04800999	TJ		01	.	SP	5200	01	98 . 52
3						.				.
4						.				.
5						.				.
6						.				.
7						.				.
8						.				.
9						.				.
10						.				.
GRAND TOTALS (LAST SMFR-A PAGE ONLY)				115000				63200		

FOR ILLUSTRATION ONLY

CHECK IF PART A IS CONTINUED

CONTACT NAME: (First, M.I., Last) (30) Bob Payor	TELEPHONE NUMBER:(10) (123) (456 - 7890)	EXTENSION NUMBER:(4) ()
AUTHORIZING NAME: (First, M.I., Last) (30) Ann Reporter	TITLE:(30) Plant Manager	
AUTHORIZING SIGNATURE: [signature]	DATE:(6)MMDDYY 0 1 3 0 9 2	COMMENTS:(60)

FIGURE 9-5. Example 5
Completed SMFR-A (1 of 2)

OMB Approval No. 1010-0063
Expiration Date: December 31, 19XX

U.S. DEPARTMENT OF THE INTERIOR
Minerals Management Service
Royalty Management Program

SOLID MINERALS FACILITY REPORT
PART B - INVENTORY
(SMFR-B)

FEDERAL
or
INDIAN

MMS USE

REPORTER USE

REPORT TYPE: <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> MODIFIED	EFFECTIVE REPORT PERIOD:(4)MMYY 1 2 9 1	MMS OPERATOR NUMBER:(5) M A 9 9 9
OPERATOR NAME:(30) Soda Ash Co.	MMS FACILITY NUMBER: (11) 1 1 4 9 0 3 7 0 0 1 5	
FACILITY NAME: (30) Sweetwater Plant	OPERATOR'S FACILITY NUMBER: (20)	

LINE NUMBER	ACTION CODE(1)	PRODUCT CODE (2)	SOURCE MSHA MINE NUMBER (8)	BEGINNING INVENTORY (9)	RAW MATERIAL RECEIPTS (9)	PRODUCTION (9)	DISPOSITION CODE (2)	DISPOSITIONS			ENDING INVENTORY (9)
								QUANTITY (9)	FACILITY NUMBER FOR TRANSFERS (11)	MEASUREMENT POINT (11)	
1	A	TJ	04800999	52500	115000		86	120000			44425
2	A	TJ	04800999				95	3075		42490370015	
3	A	SJ	04800999	17800		58000	80	48000			28800
4	A	JS	04800999				94	<1000>			
5	A	SP	04800999	6800		5200	80	11500		42490370015	0
6	A	SP	04800999				95	500			
7											
8											
9											
10											
GRAND TOTAL (LAST SMFR-B PAGE ONLY)				77100	115000	63200		182075			73225

FOR ILLUSTRATION ONLY

<input type="checkbox"/> CHECK IF PART B IS CONTINUED	
CONTACT NAME: (First, M.I., Last) (30) Bob Payor	TELEPHONE NUMBER:(10) (123) (456 - 7890) EXTENSION NUMBER:(4) ()
AUTHORIZING NAME: (First, M.I., Last) (30) Ann Reporter	TITLE:(30) Plant Manager
AUTHORIZING SIGNATURE: [signature]	DATE:(6)MMDDYY 0 1 3 0 9 2
	COMMENTS:(60)

FIGURE 9-5. Example 5 (continued)
Completed SMFR-B (2 of 2)

Glossary

analysis

Defines the composition or characteristics of a representative sample of material, as determined by analytical methods. For most products, analysis specifies the concentration of an element or compound and is expressed as a percentage or other ratio. For coal, the analysis specifies the heating value expressed in Btu's (app. C).

approved mine plan

The regulations that affect operator submission of a mine plan vary depending on the mineral type and land category as described below.

- Federal coal: Resource Recovery and Protection Plan (R₂P₂) submitted and approved by BLM (43 CFR 3480)
- Indian Minerals: Mining Plan submitted and approved by BLM (30 CFR 200.11 and 216.7)
- Federal Phosphate, Potassium, and Sodium: Mining Plan submitted and approved by BLM (43 CFR 3592)
- All minerals on acquired lands: Mine plans approved by the Federal agency having jurisdiction over the land, BLM, and/or United States Forest Service (43 CFR 3550)

Auditing and Financial System (AFS)

The RMP system responsible for recording and collecting royalties and other payments required by the terms of Federal and Indian mineral leases.

British thermal unit (Btu)	The amount of heat needed to raise 1 pound of water 1 degree Fahrenheit at 60 degrees Fahrenheit. The Btu is used to define coal quality (app. C).
Code of Federal Regulations (CFR)	A codification of the general and permanent rules of Federal departments and agencies, initially published in the <i>Federal Register</i> .
commingled production	For PAAS purposes, there are two definitions: Commingled production is production from a Federal or Indian lease that is combined with production from other State or private leases prior to the point of royalty determination. Production is also considered commingled when Federal production with varying royalty rates is combined prior to the point of royalty determination.
database	A collection of data organized logically and systematically in a computer for quick search and retrieval.
development contract	An agreement between a lessee and a lessor that combines more than one lease into a unitized area under a standardized royalty rate. The mine operator then reports to PAAS in accordance with the terms of the development contract rather than the individual leases.
disposition	The conveyance of production from a mine or facility; for example, sale or transfer. See Appendix A, "Assigned Numbers and Codes," for disposition type codes.
editing	The process that prevents erroneous data from being introduced to PAAS. For example, a blank field that should have been completed will generate an error during the automated document processing. See Appendix D, "Error Correction and Edit Criteria."

error	<p>Errors on PAAS reports are generally the result of the following situations:</p> <ul style="list-style-type: none">• Missing or incomplete data• Mathematical inaccuracies• Invalid report item combinations• Invalid codes• Illegible reports
facsimile report	<p>A computer-generated duplicate of a PAAS document.</p>
Federal land	<p>All land and interests in land owned by the United States that are subject to the mineral leasing laws, including mineral resources or mineral estates reserved to the United States in the conveyance of a surface or nonmineral estate.</p>
Indian land	<p>Any lands or interest in lands of an Indian Tribe or an Indian allottee held in trust by the United States, or which is subject to Federal restrictions against alienation, including mineral resources and mineral estates reserved to an Indian Tribe or Indian allottee in the conveyance of a surface or nonmineral estate, except that such term does not include any lands subject to the provisions of Section 3 of the Act of June 28, 1906 (30 CFR 216.6(j)).</p>
inventory	<p>The measured or estimated quantity of all economic mineral production that is stockpiled at a mine or facility. Inventory does not include in-place reserves or small quantities of production maintained in surge bins during the processing cycle.</p>

lease	A property or mineral estate described in a legal document executed between a mineral owner and a company or individual that grants the right to explore for and produce minerals.
lessee	The person entitled under a solid minerals lease to mine minerals from a lease. The lease obligates the lessee to pay the lessor rental fees and/or royalties.
lessor	The owner of mineral rights through execution of a lease. For purposes of PAAS, the lessor is either the U.S. Government or an Indian Tribe or allottee.
logical mining unit (LMU)	An area of land in which the recoverable coal reserves can be developed in an efficient, economical, and orderly manner as a unit with due regard to conservation of recoverable coal reserves and other resources. An LMU may consist of one or more Federal leases and may include intervening or adjacent lands in which the United States does not own the coal. All lands in an LMU shall be under the effective control of a single operator/lessee, be able to be developed and operated as a single operation, and be contiguous (43 CFR 3480.0-5). A mine's LMU status does not exempt it from lease-level reporting as described in chapters 7 and 8.
measurement point	For PAAS purposes, a scale or meter where Federal or Indian production is measured for sale or for transfer prior to the point of royalty determination.
mine	The site of solid mineral production operations composed of one or more leases or a development contract.

mill/refinery/ smelter	Facilities where secondary processing of mineral production occurs. The facility is classified according to standard industry criteria; for example, mills process lead, zinc, copper concentrates, and other products; refineries process potash, phosphate, trona, and other products; and smelters process lead, zinc, copper metals, and other products.
operator	The person or company engaged in the business of mining or processing solid minerals that has the responsibility of reporting production to PAAS.
payor	The person or company responsible for paying the royalties due on mineral production.
primary process	The first stage in processing run-of-mine material. Usually consists of mechanical processes that crush and size material for sale or prepare a product for secondary processing.
production	For PAAS purposes, includes all economic mineral quantities removed from their original position; does not include minerals left in place (pit inventory).
remote storage facility	For PAAS purposes, any location or structure situated away from lease property or from a mine or secondary processing facility that stores mineral production prior to the point of royalty determination. An adjacent loadout facility that serves a single mine's total output may be considered an extension of that mine inventory rather than a remote storage facility.
reporter	Any operator of a mine or facility that is required to submit PAAS documents to MMS.
reporting entity	A mine, secondary processing facility, storage facility, or measurement point for which operational data are reported to PAAS.

royalty	Any payment from a lessee to a lessor based on the value or quantity of minerals produced from a lease.
royalty determination point	The point(s) in the production and/or processing cycles at which the royalty value is determined for the products being sold.
Royalty Management Program (RMP)	A program administered by MMS that accounts for and monitors royalties for energy and mineral resources produced and removed from Federal and Indian lands.
sales quantity	The amount of material sold or the equivalent quantity on which royalty is based according to applicable regulations and lease terms.
secondary process	Includes mechanical and/or chemical processing. Usually done at a mill, smelter, or refinery where a concentrate or other salable product is produced. Does not include primary crushing or screening at a mine site (see primary process). The secondary process also includes coal wash plants, sink-float processors, potash refineries, soda ash refineries, lead-zinc-copper concentrate mills, and others.
secondary processing facility	A plant at which mineral products undergo secondary processing prior to royalty determination.
solid minerals	All mineral products except oil and gas, oil shale, and geothermal resources that are produced in accordance with the terms of a Federal lease on which royalty is due.

A. Assigned Numbers and Codes

A.1 MMS Operator Number

The MMS operator number is an MMS-assigned five-character (alphanumeric) number unique to each reporter. If the reporter (or operator) is also the payor, then the MMS operator number is used for both PAAS and AFS reporting. In this case, the PAAS operator number will be the same as the AFS payor number. Under normal circumstances, the MMS operator number for a given operator does not change after it is assigned.

A.2 MMS Lease Number

The MMS-formatted lease number is a 10-digit number identifying each Federal or Indian mineral lease for which production is reported on PAAS or royalties are reported on AFS. The components of the MMS lease number are assigned as follows:¹

MMS lease prefix	Lease identifier	Lease segregation code
M99	999999	X

Surface agency lease prefix. MMS converts the BLM- or the BIA-assigned surface agency numbers to an MMS three-digit prefix. All mining leases are designated using the letter **M** in the first digit. (See [“Lease Prefix Conversion Table”](#) on page A-2 for the Lease Prefix Conversion Table.)

¹ The number 9 denotes numbers; the letter X denotes letters or numbers.

Lease identifier. If the number originally assigned has fewer than six digits, MMS converts the BLM or BIA serially assigned lease identifier by adding zeros before the number to form a six-digit number.

Lease segregation code. The last digit is the BLM- or BIA-assigned code based on the segregation status of the lease. If the lease has not been segregated, the code is zero.

A.3 Lease Prefix Conversion Table

Lease operators and BLM personnel must use MMS prefixes for reporting and inquiry purposes. Any BLM-assigned prefix on a mining lease number may be converted to its corresponding MMS mining lease prefix using the following table. Using the first column, determine the State where the lease is located; in the third column, find the BLM-assigned prefix that corresponds to the MMS prefix in the second column on the same line. This table is divided into three sections: Eastern States, Western States, and Indian leases for all States. (The character indicates zero as opposed to the letter O.) Western States are listed; Eastern States include all other States.

Section I: All States East of the Mississippi River

Eastern States	MMS mining prefix	BLM-assigned prefix (Federal)
All	M88	BLM-A
	M89	ES, Eastern States

Section II: All States West of the Mississippi River

Western States	MMS mining prefix	BLM-assigned prefix (Federal)
Alaska	M01	Anchorage
	M02	Fairbanks
Arizona	M11	Ar, A, A...(Arizona) ^a
Arkansas	M62	BLM-A
	M63	ES
	M64	BLM
California	M03	S
	M04	R
	M06	LA
	M16	CA
Colorado	M49	D or Denver
	M50	C or Colorado
	M51	P or PU Pueblo
	M54	BLM-A
Idaho	M12	I or Idaho
	M13	Blackfoot ^b

- a. The ellipsis (three periods) indicates that the lease number is between the letters shown.
- b. Name of issuing office, not to be confused with the Tribe.

A. *Assigned Numbers and Codes*

Western States	MMS mining prefix	BLM-assigned prefix (Federal)
Minnesota	M86	M or Minnesota
	M88	BLM-A
	M89	ES or Eastern States
Missouri	M62	BLM-A
	M63	ES
	M64	BLM
Montana	M18	M or Montana
	M20	Montana...(GF) ^a
	M21	Billings or Montana...(BIL) ^a
	M22	Casp
	M25	Great Falls or GF
	M31	BLM-A
	M32	BLM
Nevada	M07	N
	M08	CC
	M13	Blackfoot ^b

- a. The ellipsis (three periods) indicates that the lease number is between the letters shown.
- b. Name of issuing office, not to be confused with the Tribe.

Western States	MMS mining prefix	BLM-assigned prefix (Federal)
New Mexico	M39	LC or Las Cruces
	M40	NM or New Mexico
	M41	SF or Santa Fe
	M43	BLM-A
North Dakota	M19	M...(ND) or Montana (ND) ^a
	M23	Bismarck or B
	M24	North Dakota or ND
	M31	BLM-A
	M32	BLM
	M33	BLM...(ND) ^a
Oklahoma	M60	BLM-C
	M61	BLM-1
	M64	BLM
	M65	NM...(OK)
	M66	Trans NM...(OK) ^a
Oregon	M05	O or Oregon
	M13	Blackfoot ^b

a. The ellipsis (three periods) indicates that the lease number is between the letters shown.

b. Name of issuing office, not to be confused with the Tribe.

A. *Assigned Numbers and Codes*

Western States	MMS mining prefix	BLM-assigned prefix (Federal)
South Dakota	M36	M...(SD) or South Dakota or SD ^a
Texas	M42	T or Texas
	M43	BLM-A
Utah	M72	SL or Salt Lake
	M73	U or Utah
	M77	BLM-A
Washington	M10	Wash
	M10	OR...(WASH) ^a
Wyoming	M22	Casper
	M29	B or Buffalo or Wyoming...(BUFF) ^a
	M31	BLM-A
	M32	BLM
	M52	C or CH or Cheyenne or Wyoming...(CHEY) ^a
	M74	E or Evanston
	M75	W or Wyoming

- a. The ellipsis (three periods) indicates that the lease number is between the letters shown.

Section III: All Indian Leases

States	MMS mining prefix	BLM-assigned prefix (Indian)
Arizona, California, ^a Idaho, Nevada, Oregon, and Washington	M09 M14 M15	All Indian prefixes 14-20-0603 14-20-0450
Colorado	M55	All Indian prefixes
Montana, North Dakota, South Dakota, and Wyoming	M34 M35	14-20-0252 All Indian prefixes
Minnesota	M90	All Indian prefixes
New Mexico and Texas	M44 M45 M46	All Indian prefixes 14-20-603 N00-C-1420
Oklahoma, Arkansas, and Missouri	M67	All Indian prefixes
Utah	M78	All Indian prefixes
Other States including all States east of the Mississippi River	M90	All Indian prefixes

- a. In California, where a Bureau of Indian Affairs (BIA) contract number is serialized in connection with a BIA lease number, the contract number is used in the MMS lease number (not the BIA lease number).

A.4 Facility/Measurement Point Number

The FMP number is an 11-digit number that consists of a type code, State code, county code, and sequential number to uniquely identify each facility or scale/meter. The FMP number is structured in the following manner.²

Type code	State code	County code	Sequential number
99	99	999	9999

Type code. The first two digits of the FMP are assigned as follows:

Facility types:

- 10 - Coal processing plant
- 11 - Refinery
- 12 - Mill
- 13 - Smelter
- 14 - Solid minerals storage
- 00 - Other

Measurement point types:

- 40 - Truck
- 41 - Belt
- 42 - Rail
- 43 - Meter or flow-measuring device
- 00 - Other

State code. The third and fourth digits identify the State in which the mine or FMP is located. The State codes are listed in [figure A-1 on page A-10](#).

² The number 9 denotes numeric characters.

County code. The fifth, sixth, and seventh digits identify the county in which a mine or FMP is located. County codes used by the American Petroleum Institute (API) are used for all mines and FMPs. The API assigned these codes by arranging the counties alphabetically within each State and assigning a three-digit code using odd integers.

The State of Alaska is not subdivided into counties. PAAS uses Geological Survey (GS) quadrangles as county equivalents for the State of Alaska.

County codes are listed in **The API Well Number and Standard and County Codes—American Petroleum Institute, API Bulletin D12A, May 1982**. To obtain a copy of this publication, contact the API at the following address:

American Petroleum Institute
Production Department
211 N. Ervay, Suite 1700
Dallas, Texas 75201
Telephone: 214-741-6791

To obtain the proper county code for an operation without procuring a copy of the API publication, contact MMS. See [page 4-3](#) of this handbook for the MMS contact telephone number.

Sequential number. The last four digits of the FMP are assigned by MMS when MMS receives an FMIF with a new measurement point or facility number. MMS then sends a confirmation report to each operator verifying the sequential number. This number ensures that each facility and meter/scale has a unique number regardless of the location, owner, or mine from which it receives production. The numbering sequence is unique to each type of FMP within a county, within each State.

A. Assigned Numbers and Codes

State	API code	State	API code
Alabama	01	Missouri	24
Alaska	50	Montana	25
Arizona	02	Nebraska	26
Arkansas	03	Nevada	27
California	04	New Hampshire	28
Colorado	05	New Jersey	29
Connecticut	06	New Mexico	30
Delaware	07	New York	31
District of Columbia	08	North Carolina	32
Florida	09	North Dakota	33
Georgia	10	Ohio	34
Hawaii	51	Oklahoma	35
Idaho	11	Oregon	36
Illinois	12	Pennsylvania	37
Indiana	13	Rhode Island	38
Iowa	14	South Carolina	39
Kansas	15	South Dakota	40
Kentucky	16	Tennessee	41
Louisiana	17	Texas	42
Maine	18	Utah	43
Maryland	19	Vermont	44
Massachusetts	20	Virginia	45
Michigan	21	Washington	46
Minnesota	22	West Virginia	47
Mississippi	23	Wisconsin	48
		Wyoming	49

FIGURE A-1. API State codes

A.5 MSHA Mine Number and MMS-Formatted MSHA Number

The mine number is a seven-digit number that MSHA assigns to each mine. The number consists of a State code and a sequentially assigned mine number.

For PAAS reporting purposes, the operator must enter the **MMS-formatted** MSHA number on all PAAS reports. The MMS-formatted number is an eight-digit number consisting of a prefix (usually zero) and the original seven-digit MSHA-assigned number with no hyphen. The one-digit prefix is used to segregate two mines with the same MSHA number. For example:

MSHA mine number: 05-11756

MMS-formatted MSHA mine number: 00511756

NOTE

MSHA does not assign a mine number to sodium/potassium brine (solution mining), solar evaporation production operations, and offshore sulfur operations. Contact MMS if the mine has not been assigned an MSHA mine number.

A.6 Effective Report Period Codes

The effective report period refers to the time span to which a report applies. Normally, the report period is monthly, unless a different reporting frequency is established by the lease terms. The effective report period used on the FMIF and MIF refers to the month and year in which the information on the form takes effect; for example, the month and year in which a scale at a measurement point went into operation.

A. Assigned Numbers and Codes

The effective report period is a four-character field (MMYY). The last two positions (YY) represent the year. The valid options for the first two positions (MM) are as follows:

Effective report period	Description
01	January
02	February
03	March
04	April
05	May
06	June
07	July
08	August
09	September
10	October
11	November
12	December
Q1	First Quarter (January–March)
Q2	Second Quarter (April–June)
Q3	Third Quarter (July–September)
Q4	Fourth Quarter (October–December)

A.7 Mine Status Codes

The mine status code is a one-digit number that indicates the current Federal or Indian production status of a mine. The acceptable values are:

Code	Mine status
1	Producing: The mine is currently producing or is expected to produce from a Federal or Indian lease in the next 12 months. All leases established on the MIF for a producing mine must be reported on the SMOR-A even if there is no production.
2	Nonproducing mine: The mine is currently not producing, is not expected to produce in the next 12 months, and has no outstanding inventory. The SMOR-A is not required for nonproducing mines.
3	Abandoned mine: Federal or Indian production at the mine has ceased, and the leases have been relinquished with the BLM or BIA. The SMOR-A is not required for an abandoned mine. All leases must be relinquished and MMS notified of the relinquishment before the leases can be deleted from the MIF and the mine status changed to abandoned.

Mine operators must notify BLM of a change in the mine status. After the change to the mine status code is made, a confirmation report is sent to the mine operators and the responsible BLM office.

A.8 Allocation Method Codes

The allocation method code is a one-digit number that identifies the method by which solid mineral production is allocated to the original source lease. Acceptable values are:

Code	Allocation method
1	Scales
2	Tallies
3	Mine maps
4	Meter or fluid measuring device
5	Working interest in property
0	Other

A.9 Action Codes

The action code indicates whether a line should be added (A) or deleted (D). The FMIF and the MIF use an additional code to indicate whether a line should be changed (C). A description of each code follows.

On the SMOR and the SMFR, use the following action codes:

A (add) is used to enter new information on the detail lines of an original report. A is also used to add revised detail lines that replace deleted lines on a modified report.

D (delete) is used only on a modified report to remove all information from a detail line on a previously submitted report. If D is used, Modified must have been indicated in Report Type.

On the FMIF, use the following action codes:

A (add) is used to enter new information on a first submission or to add revised detail lines that replace deleted lines on an amended report.

D (delete) is used to remove all information associated with an add on a previously submitted form.

C (change) is used to report changes at previously established FMPs. See “Expanded Example 2: Initializing additional information and amending old information” on page 6-20 for a description of how to amend FMP information. **C** is also used on an original document to add multiple scales or meters at a single measurement point. See “Expanded Example 1: Production from a mine passes through a primary processing plant and a secondary processing facility prior to sale” on page 6-15 for a description of how to add multiple scales at a single measurement point.

On the MIF, use the following action codes:

Mine operators enter **A** (add), which is used to enter new information on the detail lines of an original report.

BLM uses the following action codes on amended MIFs:

A (add) is used to enter new information on an original report or to add revised detail lines that replace deleted lines on an amended report.

D (delete) is used to remove all information associated with an add detail line on a previously submitted form.

C (change) is used to change previously submitted mine type data.

NOTE

All leases must be relinquished and MMS notified of the relinquishment before the leases can be deleted from the MIF and the mine status can be changed to abandoned.

A.10 Mine Type Codes

The mine type code is a two-digit number that identifies the method of mineral extraction at a particular site. The codes are:

Code	Mine type
01	Surface mining: Minerals are extracted by conventional surface mining methods; for example, placer mining, open pit, and strip mining.
02	Underground mining: Minerals are extracted by conventional underground mining methods; for example, room-and-pillar mining and longwall mining.
03	Auger mining: A specific surface mining method by which minerals are extracted using flight-auger equipment.
04	In situ: A specialized underground extraction method by which soluble minerals are chemically leached from ore bodies that are in place underground. The minerals are subsequently recovered after secondary processing.
05	Solution mining: A specialized underground extraction method by which minerals are dissolved by fluids injected into deposits underground; for example, Frasch process and hot-water process. The minerals are recovered after secondary processing.
06	Modified in situ: A specialized underground extraction method that encompasses the gasification of coal in place.

Code	Mine type
00	Other: Any mineral extraction method that cannot be classified as one of the above mine types.

A.11 Commingling Codes

The commingling code is a one-digit field that identifies whether the production from Federal or Indian leases is commingled with private or State production prior to the point of royalty determination. Production is also considered commingled when Federal production with different royalty rates is combined prior to the point of royalty determination. Possible values are:

Code	Commingling description
1	Noncommingled
4	Commingled

A.12 Location Method Codes and Location Description

The location of an FMP is defined by a two-digit location method code and a location description. The location method code specifies the type and format of the location description being used. The location description actually defines the area where the facility or scale/meter is situated.

A. Assigned Numbers and Codes

Reporters may select the appropriate method (for example, quarter-quarter-section-township-range-meridian) to describe the location of processing facilities and scales. Location method codes are defined as follows:

Code	Location method
01	Quarter-quarter-section-township-range-meridian
03	Latitude and longitude
00	Other

Location descriptions are defined below:

Code	Location description format
01	<p>Quarter-quarter-section-township-range-meridian: Locations on public land commonly will be described using this location method. The following format shows that the location description consists of six fields separated by dashes. Within the fields, Xs indicate that letters must be entered; 9s indicate numbers. If a location can be described by fewer characters than those shown for the section, township, and range fields, the extra positions are to be ignored.</p> <p>Quarter-quarter-section Quarter-section Section Township Range Meridian</p> <p>XX - XX - 999 - 999XX - 999XX - 99</p>

Code	Location description format
01 (cont.)	<p>Quarter-quarter-section: A quarter-quarter-section is one-sixteenth of a section, equal to 40 acres. It is specified by either NW, NE, SW, or SE. Other entries that are acceptable in this field are explained in figure A-2.</p> <p>Quarter-section: A quarter-section is one fourth of a section, equal to 160 acres. It is specified by either NW, NE, SW, or SE. Other entries that are acceptable in this field are explained in figure A-2.</p> <p>Section: A section is one of the 36 divisions of a township, is usually 1 mile square, and contains 640 acres. Sections are generally specified by a number ranging from 1 to 36.</p> <p>Township: A township is an area 6 miles square that contains 36 sections. The location of a particular township is specified by two coordinates: township and range. The township coordinates consist of a number that is greater than zero and a direction that is either N (north) or S (south) from the baseline of a BLM meridian. Townships are usually specified using whole numbers. For example, T. 23 N. would be entered in the township field as 23N. (The fourth position from the left in the township field, containing an X in the format, can be ignored.) However, some townships are specified by numbers that include 1/2. A township such as T. 23 1/2 N. is entered in the township field as 23HN. (An H, indicating 1/2, is entered in the fourth position from the left of the township field.)</p> <p>Range: The range coordinate consists of a number that is greater than zero and a direction that is either E (east) or W (west) from a BLM meridian. Ranges are usually specified using whole numbers. For example, R. 106 W. is entered in the range field as 106W. (The fourth position from the left in the range field, containing an X in the format, can be ignored.) However, some ranges are specified by numbers that include 1/2. A range such as R. 106 1/2 W. is entered in the range field as 106HW. (An H, indicating 1/2, is entered in the fourth position from the left of the range field.)</p>

A. Assigned Numbers and Codes

Quarter-quarter-section field	Quarter-section field	Remarks
NW (northwest) NE (northeast) SW (southwest) SE (southeast) NH (north-half) SH (south-half) EH (east-half) WH (west-half) CE (center)	NW (northwest) NE (northeast) SW (southwest) SE (southeast) NH (north-half) SH (south-half) EH (east-half) WH (west-half) SC (section)	Any combination of values is valid. See examples 1—3 that follow.
LT (lot) TR (tract)	01 through 99 01 through 99	Used to specify lots or tracts instead of quarter-quarter-section. See example 4 that follows.
NM	GA through GX	Used to specify a location using the New Mexico Grid System. See example 5 that follows.

FIGURE A-2. Acceptable values for Quarter-Quarter-Section and Quarter-Section fields

Code Location description format

01 **BLM Meridian:** Each meridian is the starting point for
(cont.) numbering township and range coordinates. The two-digit
code for each BLM meridian is provided in “[List of BLM
Meridian Codes](#)” on page A-23.

Examples of Location Descriptions Using the
Quarter-Quarter-Section-Township-Range-Meridian
Method

Example 1

Location: NW 1/4 SE 1/4 sec. 19, T. 12 N.,
R. 23 W. of the New Mexico Principal
Meridian

Entry: NW-SE-19-12N-23W-23

Example 2

Location: center of the NW 1/4 sec. 36,
T. 25 N., R. 68 W. of the 6th **Principal
Meridian**

Entry: CE-NW-36-25N-68W-06

Example 3

Location: N 1/2 sec. 20, T. 12 1/2 S., R. 15 E.,
of the Boise Meridian

Entry: NH-SC-20-12HS-15E-08

Code Location description format

01
(cont.)

Example 4

For irregular sections, lots or tracts may be used to specify a location within a section. Lots are indicated by entering **LT** in the quarter-quarter-section field; tracts are designated by entering **TR**. The lot or tract number is entered in the quarter-section field.

Location: lot 6, sec. 4, T. 1 N., R. 15 W. of the
 Gila and Salt River Meridian

Entry: LT-06-4-1N-15W-14

Example 5

To specify a location using the New Mexico Grid System, **NM** is entered in the quarter-quarter-section field, and **G** followed by the letter designation of the quarter-quarter-section (A through X) is entered in the quarter-section field.

Location: NE 1/4 NE 1/4 sec. 8, T. 17 S., R. 37 E. of
 the New Mexico Principal Meridian

Entry: NM-GA-8-17S-37E-23

Code Location description format

03 Latitude and Longitude: A location is described in terms of latitude and longitude using this method. The following format shows that the location description consists of six fields separated by dashes. Only numbers are entered in the field because locations are in the United States and north latitude and west longitude are implied. Latitude must range between 25° 00' 00" and 72° 00' 00"; longitude between 65° 00' 00" and 180° 00' 00". If a location is at a longitude that is less than 100°, the first position of this field can be ignored. Minutes and seconds must range from 00 through 59. The format is as follows:

Latitude			Longitude		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
99	-	99	-	99	-
99	-	99	-	999	-
				99	-
					99

An example of a location description using the latitude and longitude method is:

Location: lat 39° 22' 30" N.,
 long 98° 37' 5" W.

Entry: 39-22-30-98-37-05

00 Other: Locations described by Metes and Bounds, the X-Y Coordinate System, Texas Survey, or other methods may be entered using any format. The location description must contain 25 or fewer characters.

A.13 List of BLM Meridian Codes

The following list corresponds with the map of Principal Meridians and Base Lines in [figure A-3 on page A-27](#).

A. *Assigned Numbers and Codes*

Meridian code	Name	Location
01	1st Principal	Ohio, Indiana
02	2nd Principal	Indiana, Illinois
03	3rd Principal	Illinois
04	4th Principal	Illinois
46	4th Principal (extended)	Wisconsin, Minnesota
05	5th Principal	Arkansas, Iowa, Minnesota, Missouri, North Dakota, South Dakota
06	6th Principal	Colorado, Kansas, Nebraska, South Dakota, Wyoming
07	Black Hills	South Dakota
08	Boise	Idaho
09	Chickasaw	Mississippi
10	Choctaw	Mississippi
11	Cimarron	Oklahoma
12	Copper River	Alaska
13	Fairbanks	Alaska
14	Gila and Salt River	Arizona
15	Humboldt	California
16	Huntsville	Alabama
17	Indian	Oklahoma
18	Louisiana	Louisiana
19	Michigan	Michigan
20	Principal	Montana

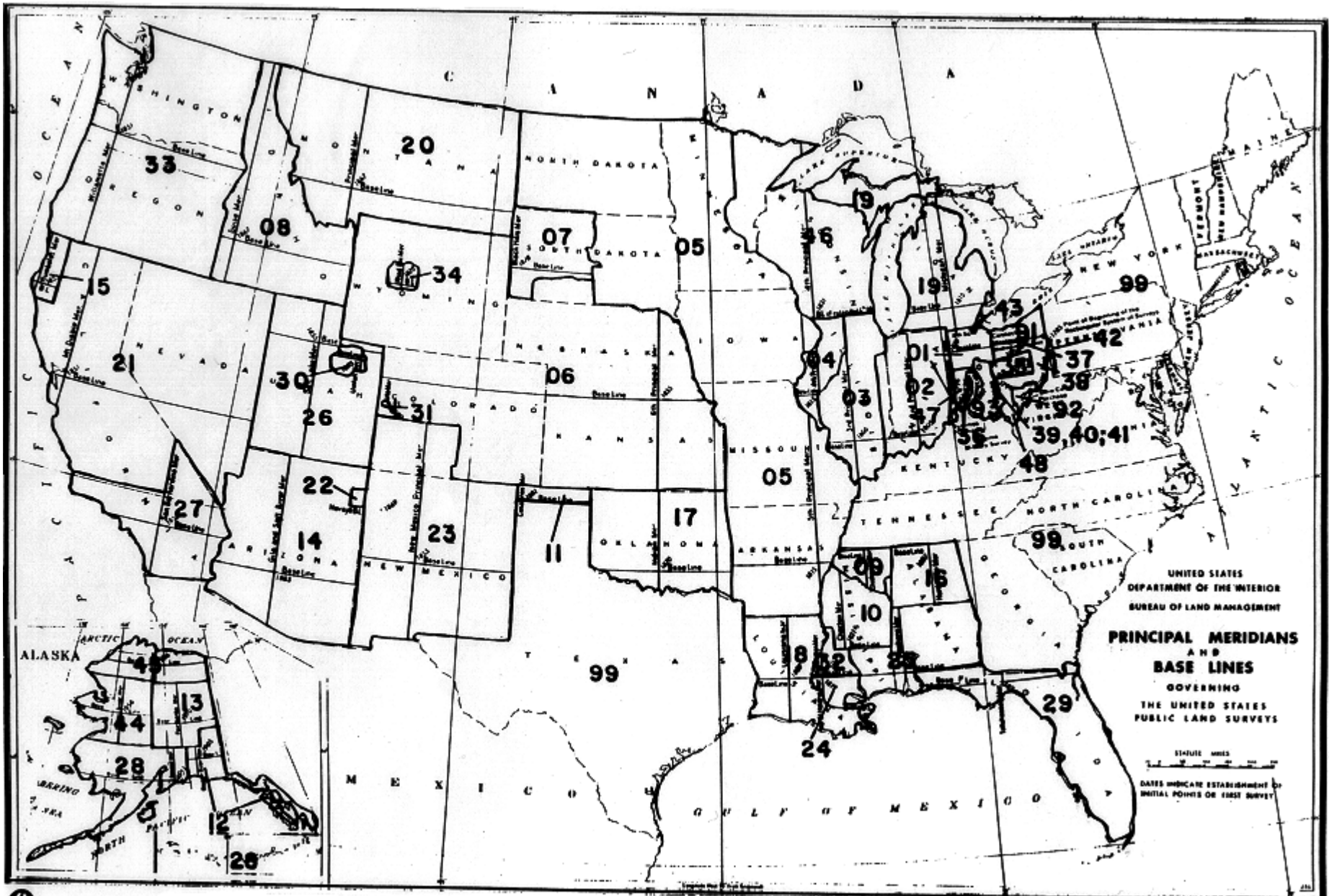
Meridian code	Name	Location
21	Mount Diablo	California
22	Navajo	Arizona
23	New Mexico Principal	New Mexico, Colorado
24	St. Helena	Mississippi
25	St. Stephens	Alabama, Mississippi
26	Salt Lake	Utah
27	San Bernardino	California
28	Seward	Alaska
29	Tallahassee	Florida
30	Unitah	Utah
31	Ute	Colorado
32	Washington	Mississippi
33	Willamette	Oregon, Washington
34	Wind River	Wyoming
35	Ohio River Survey	Ohio
36	Between the Miamis	Ohio
37	Muskingum River	Ohio
38	Ohio River Base	Ohio
39	First Scioto River	Ohio
40	Second Scioto River	Ohio
41	Third Scioto River	Ohio
42	Ellicott's Line	— ^a
43	Twelve-Mile Square	Ohio

- a. Ellicott's Line is the name of the Ohio-Pennsylvania boundary. No townships are referenced to Ellicott's Line; it is included for compatibility with BLM.

A. Assigned Numbers and Codes

Meridian code	Name	Location
44	Kateel River	Alaska
45	Umiat	Alaska
47	West of the Great Miami	Ohio
48	U.S. Military Survey	Ohio
91	Conn. Western Reserve	Ohio
92	Ohio Co. Purchase	Ohio
93	Va. Mil. Survey	Ohio
99	Not Public Land Survey	— ^a

- a. Code 99 is included for compatibility with BLM. It refers to either the original 13 States, Texas, or a U.S. Territory.



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FIGURE A-3. BLM principal meridians and base lines

A.14 Disposition Type Codes

The disposition type code is a two-digit report item that specifies the handling, storage, usage, or sale of mineral production at a mine or facility. All codes can be used either on the SMOR-A or the SMFR-B unless specified otherwise. Similarly, all codes indicate positive dispositions/quantities unless specified otherwise. Certain codes require, as specified, the entry of FMP numbers. In order to use any of the disposition codes listed below, the disposition quantity must be greater than zero.

Code	Disposition Type
80	Sales: Specifies material that was sold or disposed of from a mine or facility and is subject to royalty. A measurement point number is required when this code is used.
81	Transfer to a facility: Specifies material that was transferred to a facility for processing or storage from a mine or another facility. A facility number for transfers and a measurement point number are required when this code is used.
82	Transfer from a facility: Specifies material that was received from another facility for processing or storage. A facility number for transfers is required when this code is used. It is used only on the SMFR-B. Brackets (<>) are required around entries in the dispositions quantity field.
83	Casualty loss: Specifies material that was unavoidably lost and is not considered recoverable.

Code	Disposition Type
85	<p>Site use—royalty exempt: Specifies material used for mine operations, which by lease terms is royalty exempt; for example, coal used for heating on certain Indian leases. This code is used only on the SMOR-A.</p>
86	<p>Input to a secondary process: Specifies material that was entered into processing at a facility. This code is used only on the SMFR-B. A facility number for transfers and a measurement point number are not required when this code is used.</p>
87	<p>Reclassify product: Used to reclassify copper, lead, and zinc concentrate to a mill or weight equivalent. This code is used only on the SMFR-B for a 12 (mill) facility type.</p> <p>This disposition code is used to report on the SMFR-B (mill) the amount of concentrate that is in inventory or being processed at a smelter. The point of royalty determination is at the mill, but the final value of this concentrate is determined after smelting. Refer to “Example 4: Reclassifying Concentrate at the Mill” on page 9-33 for guidance on the use of mill equivalent.</p>
94	<p>Inventory gain: Specifies the increase in inventory because of the adjustment of previous estimates. Brackets (<>) are required around entries in the Dispositions Quantity field. The measurement point number is not required when this code is used. Disposition codes 94 and 95 cannot be used for the same MMS lease/product or source MSHA mine number/product combination for a specific report period.</p>

A. Assigned Numbers and Codes

Code	Disposition Type
95	Inventory loss: Specifies the decrease in inventory because of the adjustment of previous estimates. The measurement point number is not required when this code is used.
99	Other: Indicates an undefined adjustment, which requires an explanation in the Comments field. If the adjustment reflects a gain, brackets are required around entries in the Dispositions Quantity field. The measurement point number is not required when this code is used.

B. Model Reports and Forms

Samples of the following forms and reports are provided for reproduction:

Form name and number	Size in inches
Mine Information Form (MIF), Form MMS-4050	8 1/2 x 11
Facility and Measurement Information Form (FMIF), Form MMS-4051	8 1/2 x 11
Solid Minerals Operations Report Part A—Production and Disposition of Raw Materials (SMOR-A), Form MMS-4059-A	8 1/2 x 14
Solid Minerals Operations Report Part B—Mine Sales From a Facility (SMOR-B), Form MMS-4059-B	8 1/2 x 11
Solid Minerals Facility Report Part A—Process Operations (SMFR-A), Form MMS-4060-A	8 1/2 x 11
Solid Minerals Facility Report Part B—Inventory (SMFR-B), Form MMS-4060-B	8 1/2 x 11

C. Product and Quality Codes

The product code uniquely identifies the various products mined or processed from raw materials mined from Federal and Indian leases. Certain product codes have quality codes associated with them. Product codes are used in conjunction with the two-digit quality codes to provide an assay, grade, or analysis of the specific product.

Solid minerals product codes, the associated quality codes, and the descriptions are shown on the following pages. The units of measure for reporting product quantities and the format of the eight-digit analysis field are also indicated. The analysis for all qualities (except Btu, ounces per ton silver (Ag), and parts per thousand fine) should be reported using a range of 0.001 percent (three digits to the right of the fixed decimal point on the forms) to 100 percent (three digits to the left of the fixed decimal point on the forms). All Btu's (a measure of coal quality) should be reported as a whole number to the left of the decimal point, using a range of 1 to 14,000. Gold and silver are reported in parts per thousand fine, using a range of 1 to 1,000. (One to four digits to the left of the fixed decimal point on the forms.) For lead, copper, and zinc concentrates, the amount of silver (Ag) is reported using a range of 0.001 ounces per ton (three digits to the right of the fixed decimal point on the forms) to 1,000 ounces per ton (four digits to the left of the fixed decimal point on the forms).

C.1 Products Listed Alphabetically by Product Name

The following table shows product and quality codes listed alphabetically by product name. One asterisk (*) after the product code indicates that it is for the raw product. Two asterisks (**) after the quality code indicate that reporting this quality value is optional.

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Amethyst	AA*	grams	-	-	-
Anhydrous Sodium Sulfate	SN	tons	03	%Na ₂ SO ₄	.001% to 100%
Asbestos	AB*	pounds	-	-	-
Asphalt	AD*	tons	-	-	-
Barite	BB	tons	01	%BaSO ₄	.001% to 100%
Basalt	BC*	tons	-	-	-
Bentonite	BD*	tons	-	-	-
Bitumen-Processed	BF	tons	01	%Bitumen by weight	.001% to 100%
Bitumen-Raw	BA*	tons	01	%Bitumen by weight	.001% to 100%
Borate/Potash Brine	NP	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
			02	%K ₂ SO ₄	.001% to 100%
			03	%Na ₂ SO ₄	.001% to 100%
			04	%Na ₂ CO ₄	.001% to 100%
			05	%KCl	.001% to 100%
Borate/Sulfate Brine	NQ	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
			02	%K ₂ SO ₄	.001% to 100%
			03	%Na ₂ SO ₄	.001% to 100%
			04	%Na ₂ CO ₃	.001% to 100%
			05	%KCl	.001% to 100%
			07	%CO ₂	.001% to 100%
Borax Slag	BN	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
Borax-Anhydrous	BH	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
Borax-Coarse	BG	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Borax-Decahydrous	BJ	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
Borax-Ore	BW*	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
Borax-Pentahydrate	BL	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
Boric Acid	BM	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
Boric Oxide	BO	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
Brine	ND*	barrels	01	%NaCl	.001% to 100%
Burkeite Brine	BR	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
			02	%K ₂ SO ₄	.001% to 100%
			03	%Na ₂ SO ₄	.001% to 100%
			04	%Na ₂ CO ₃	.001% to 100%
			05	%KCl	.001% to 100%
Burkeite Cake	BP	tons	03	%Na ₂ SO ₄	.001% to 100%
			04	%Na ₂ CO ₃	.001% to 100%
Cadmium	CD	pounds	-	-	-
Calcium Chloride	CA	pounds	-	-	-
Calcium Silicate-Slag	CS	tons	-	-	-
Carbon Dioxide	CO	tons	07	%CO ₂	.001% to 100%
Carbonated Liquor	MD	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
			03	%Na ₂ SO ₄	.001% to 100%
			04	%Na ₂ CO ₃	.001% to 100%
			05	%KCl	.001% to 100%
			07	%CO ₂	.001% to 100%
Caustic	SR	tons	01	%Na ₂ CO ₃	.001% to 100%
Chat	CB*	tons	-	-	-
Cinders	CC*	tons	-	-	-

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Clay	CG*	tons	01	%Al ₂ O ₃	.001% to 100%
Coal Resin	ER	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulfur	.001% to 100%
			04**	%H ₂ O	.001% to 100%
Coal-Anthracite-Processed	EA	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulphur	.001% to 100%
			04**	%H ₂ O	.001% to 100%
Coal-Anthracite-Raw	EB*	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulphur	.001% to 100%
			04**	%H ₂ O	.001% to 100%
Coal-Bituminous-Processed	EC	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulphur	.001% to 100%
			04**	%H ₂ O	.001% to 100%
Coal-Bituminous-Raw	ED*	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulphur	.001% to 100%
			04**	%H ₂ O	.001% to 100%
Coal-Fines-Circuit	ES	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulphur	.001% to 100%
			04**	%H ₂ O	.001% to 100%
Coal-Lignite-Processed	EF	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulphur	.001% to 100%
			04**	%H ₂ O	.001% to 100%
Coal-Lignite-Raw	EG*	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulphur	.001% to 100%
			04**	%H ₂ O	.001% to 100%

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Coal-Subbituminous-Processed	EH	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulphur	.001% to 100%
			04**	%H ₂ O	.001% to 100%
Coal-Subbituminous-Raw	EI*	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulphur	.001% to 100%
			04**	%H ₂ O	.001% to 100%
Compactor Feed	MF	tons	01	%K ₂ O	.001% to 100%
Copper	CU	pounds	01	%Cu	.001% to 100%
Copper Concentrate	CH	tons	01	%Cu	.001% to 100%
			02	ounce/ton Ag	.001 to 1000
Copper Concentrate (Mill-Equivalent)	CI	tons	01	%Cu	.001% to 100%
			02	ounce/ton Ag	.001 to 1000
Copper Ore	CJ*	tons	01	%Cu	.001% to 100%
			02	%Pb	.001% to 100%
			03	%Zn	.001% to 100%
Dawsonite	DA*	tons	01	%NaAlCO ₃	.001% to 100%
Feldspar Concentrate	FA*	tons	-	-	-
Ferro Phosphorous Slag	FB	tons	-	-	-
Fluorspar Concentrate Chemical Grade	FD	tons	01	%CaF ₂	.001% to 100%
			02	%Zn	.001% to 100%
Fluorspar Concentrate Industrial Grade	FC	tons	01	%CaF ₂	.001% to 100%
			02	%Zn	.001% to 100%

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Fluorspar-Raw Ore	FR*	tons	01	%CaF ₂	.001% to 100%
			02	%Zn	.001% to 100%
			03	%BaSO ₄	.001% to 100%
Garnet Concession Sale	GC	tickets	-	-	-
Garnet Sands	GB*	tons	-	-	-
Gilsonite	GF*	tons	-	-	-
Glaserite	GL	tons	01	%K ₂ O	.001% to 100%
Gold Metal	AU	ounces	01	parts per thousand fine	1 to 1000
Gold Ore	AV*	tons	01	%Gold (Au)	.001% to 100%
Gold Placer	AP*	ounces	01	parts per thousand fine	1 to 1000
Granite	GG*	tons	-	-	-
Gypsum	GH*	tons	01	%CaSO ₄	.001% to 100%
Hi-Carbonate Brine	NS	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
			03	%Na ₂ SO ₄	.001% to 100%
			04	%Na ₂ CO ₃	.001% to 100%
			07	%CO ₂	.001% to 100%
Ilmenite Raw Ore	IA*	tons	01	%Fe ₂ O ₃	.001% to 100%
			02	%Ti	.001% to 100%
Intermediate Brine	IB	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
			02	%K ₂ SO ₄	.001% to 100%
			03	%Na ₂ SO ₄	.001% to 100%
			04	%Na ₂ CO ₃	.001% to 100%
Iron Concentrate	FF	long ton units	01	%Fe ₂ O ₃	.001% to 100%

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Iron Ore	FE*	tons	01	%Fe ₂ O ₃	.001% to 100%
Kyanite	KA*	tons	-	-	-
Langbeinite-Coarse	LB	tons	01	%K ₂ O	.001% to 100%
Langbeinite-Granular	LC	tons	01	%K ₂ O	.001% to 100%
Langbeinite-Raw Ore	LA*	tons	01	%K ₂ O	.001% to 100%
Langbeinite-Special Standard	LS	tons	01	%K ₂ O	.001% to 100%
Langbeinite-Standard	LD	tons	01	%K ₂ O	.001% to 100%
Lead	PB	tons	01	%Pb	.001% to 100%
Lead Concentrate	PC	tons	01	%Pb	.001% to 100%
			02	%Cu	.001% to 100%
			03	ounce/ton Ag	.001 to 1000
Lead Concentrate (Mill-Equivalent)	PE	tons	01	%Pb	.001% to 100%
			02	%Cu	.001% to 100%
			03	ounce/ton Ag	.001 to 1000
Lead Ore	PF*	tons	01	%Pb	.001% to 100%
			02	%Cu	.001% to 100%
			03	%Zn	.001% to 100%
			04	%Cd	.001% to 100%
			05	%Ag	.001% to 100%
Leonardite	LT*	tons	-	-	-
Limestone	PG*	tons	-	-	-
LLX/BAX Brine	NL	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
			02	%K ₂ SO ₄	.001% to 100%
			03	%Na ₂ SO ₄	.001% to 100%
			04	%KCl	.001% to 100%
			05	%KCl	.001% to 100%

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Magnesium Chloride Brine	MG*	tons	01	%MgCl ₂ (by weight)	.001% to 100%
Manganese	MN	tons	01	%Mn	.001% to 100%
Manure Salts	MS	ton	01	%K ₂ O	.001% to 100%
			02	%KCl	.001% to 100%
			03	%NaCl	.001% to 100%
Mercury	HG	pounds	-	-	-
Mica	MA*	tons	-	-	-
Muriate of Potash-Chemical	JC	tons	01	%K ₂ O	.001% to 100%
			05	%KCl	.001% to 100%
Mixed Potash-Raw Ore	JE*	tons	01	%K ₂ O as Sylvite	.001% to 100%
			02	%K ₂ O as Langbeinite	.001% to 100%
			03**	%KCl	.001% to 100%
Mixed Sulfate Cake	MC	tons	02	%K ₂ SO ₄	.001% to 100%
			03	%Na ₂ SO ₄	.001% to 100%
			05	%KCl	.001% to 100%
Molybdenum	MO	pounds	01	%Mo	.001% to 100%
Molybdenum Concentrate	MB	tons	01	%Mo	.001% to 100%
Muriate of Potash-Coarse	JA	tons	01	%K ₂ O	.001% to 100%
			05	%KCl	.001% to 100%
Muriate of Potash-Fine	JB	tons	01	%K ₂ O	.001% to 100%
			05	%KCl	.001% to 100%
Muriate of Potash-Granular	JL	tons	01	%K ₂ O	.001% to 100%
			05	%KCl	.001% to 100%

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Muriate of Potash-Soluble	JS	tons	01	%K ₂ O	.001% to 100%
			05	%KCl	.001% to 100%
Muriate of Potash-Standard	JD	tons	01	%K ₂ O	.001% to 100%
			05	%KCl	.001% to 100%
Nahcolite	NC*	tons	01	%Na ₂ CO ₃	.001% to 100%
Nickel	NI	pounds	-	-	-
Olivine Concentrate	OB	tons	-	-	-
Peat	PI*	tons	-	-	-
Phosphate Concentrate	PJ	tons	01	%P ₂ O ₅	.001% to 100%
Phosphate Pebble	PH	tons	01	%P ₂ O ₅	.001% to 100%
Phosphate-Precipitator Dust	PQ	tons	02	%K ₂ O	.001% to 100%
			03	%Zn	.001% to 100%
Phosphate Raw Ore	PK*	tons	01	%P ₂ O ₅	.001% to 100%
			02	%H ₂ O	.001% to 100%
Phosphate Rock	PL*	tons	01	%P ₂ O ₅	.001% to 100%
Phosphatic Clay	PM	tons	01	%P ₂ O ₅	.001% to 100%
Potassium Sulfate-Granular	PT	tons	01	%K ₂ O	.001% to 100%
			02	%K ₂ SO ₄	.001% to 100%
Potassium Sulfate-Special Standard	PS	tons	01	%K ₂ O	.001% to 100%
			02	%K ₂ SO ₄	.001% to 100%
Potassium Sulfate-Standard	PN	tons	01	%K ₂ O	.001% to 100%
			02	%K ₂ SO ₄	.001% to 100%
Purge Liquor	PP	tons equivalent	01	%Na ₂ CO ₃	.001% to 100%

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Quartz	QA*	pounds	-	-	-
Quartz Crystal	QB*	tickets or pounds	-	-	-
Riprap	RP*	tons	-	-	-
Salt	SA*	tons	01 02	%NaCl %H ₂ O	.001% to 100% .001% to 100%
Salt Cake	SD	tons	01	%Na ₂ SO ₄	.001% to 100%
Salt	SW*	tons	08	%NaCl	.001% to 100%
Sand/Gravel	SF*	tons	-	-	-
Sand/Gravel	SG*	cubic yards	-	-	-
Scoria	SC*	cubic yards	-	-	-
Silica Sand	SE*	tons	01	%SiO ₂	.001% to 100%
Silver	AG	ounces	01	parts per thousand fine	1 to 1000
Slag (Metal)	SH	tons	-	-	-
Soda Ash	SJ	tons	01	%Na ₂ CO ₃	.001% to 100%
Soda Ash-Dense	SL	tons	04	%Na ₂ CO ₃	.001% to 100%
Soda Ash-Granular	SO	tons	04	%Na ₂ CO ₃	.001% to 100%
Soda Ash-Light	SK	tons	04	%Na ₂ CO ₃	.001% to 100%
Sodium	NA	tons	-	-	-
Sodium Bicarbonate	SB	tons	01 02	%Na ₂ CO ₃ %NaHCO ₃	.001% to 100% .001% to 100%

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Sodium Bicarbonate-Animal Feed	SM	tons	04	%Na ₂ CO ₃	.001% to 100%
			07	%CO ₂	.001% to 100%
Sodium Bicarbonate-Industrial	SI	tons	04 07	%Na ₂ CO ₃ %CO ₂	.001% to 100% .001% to 100%
Sodium Brine (NaCl)	NB*	tons	01	%NaCl	.001% to 100%
Sodium Sesquicarbonate	SP	tons	01	%Na ₂ CO ₃	.001% to 100%
Sodium Tripolyphosphate	SQ	tons	01	%Na ₂ CO ₃	.001% to 100%
Spent Brine	RA	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
			02	%K ₂ SO ₄	.001% to 100%
			03	%Na ₂ SO ₄	.001% to 100%
			04	%Na ₂ CO ₃	.001% to 100%
			05	%KCl	.001% to 100%
			06	%SO ₄	.001% to 100%
			07	%CO ₂	.001% to 100%
Sulfide	SU	tons	01	%Na ₂ CO ₃	.001% to 100%
Sulfuric Acid	SZ	tons	06	%H ₂ SO ₄	.001% to 100%
Sulfur	SS*	long tons	01	%S	.001% to 100%
Supo End Liquor	ME	tons	02	%K ₂ SO ₄	.001% to 100%
			03	%Na ₂ SO ₄	.001% to 100%
			05	%KCl	.001% to 100%
Sylvite-Raw Ore	SY*	tons	01	%K ₂ O	.001% to 100%
Tar Sand	TD*	tons	01	%Bitumen by weight	.001% to 100%
Titanium Oxide	TF*	tons	01	%Ti	.001% to 100%
Tripoli	TG*	tons	-	-	-

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Trona Ore	TJ*	tons	01	%Na ₂ CO ₃	.001% to 100%
Trona-Raw	TR*	tons	04 07	%Na ₂ CO ₃ %CO ₂	.001% to 100% .001% to 100%
Tungsten	WW*	tons	01	%WO ₃	.001% to 100%
Uranium Concentrate (Yellow Cake)	UU	pounds	01 02	%U ₃ O ₈ %H ₂ O	.001% to 100% .001% to 100%
Uranium Raw Ore	UA*	tons	01 02 03**	%U ₃ O ₈ %H ₂ O %Mo	.001% to 100% .001% to 100% .001% to 100%
Vanadium	VV	tons	01	%V ₂ O ₅	.001% to 100%
Wavellite	WA*	specimen	-	-	-
Yttrium	YY	tons	01	%Y	.001% to 100%
Yttrium Ore	YO*	tons	01	%Y	.001% to 100%
Zinc	ZN	pounds	01	%Zn	.001% to 100%
Zinc Concentrate	ZA	tons	01 02 03	%Zn %Cd ounce/ton Ag	.001% to 100% .001% to 100% .001 to 1000
Zinc Concentrate (Mill-Equivalent)	ZB	tons	01 02 03	%Zn %Cd ounce/ton Ag	.001% to 100% .001% to 100% .001 to 1000

C.2 Products Listed Alphabetically by Product Code

The following table shows product and quality codes listed alphabetically by product code. One asterisk (*) after the product code indicates that it is for the raw product. Two asterisks (**) after the quality code indicate that reporting this quality value is optional.

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Amethyst	AA*	grams	-	-	-
Asbestos	AB*	pounds	-	-	-
Asphalt	AD*	tons	-	-	-
Silver	AG	ounces	01	parts per thousand fine	1 to 1000
Gold Placer	AP*	ounces	01	parts per thousand fine	1 to 1000
Gold Metal	AU	ounces	01	parts per thousand fine	1 to 1000
Gold Ore	AV*	tons	01	%Gold (Au)	.001% to 100%
Bitumen-Raw	BA*	tons	01	%Bitumen by weight	.001% to 100%
Barite	BB	tons	01	%BaSO ₄	.001% to 100%
Basalt	BC*	tons	-	-	-
Bentonite	BD*	tons	-	-	-
Bitumen-Processed	BF	tons	01	%Bitumen by weight	.001% to 100%
Borax-Coarse	BG	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Borax-Anhydrous	BH	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
Borax-Decahydrous	BJ	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
Borax-Pentahydrate	BL	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
Boric Acid	BM	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
Borax Slag	BN	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
Boric Oxide	BO	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
Burkeite Cake	BP	tons	03	%Na ₂ SO ₄	.001% to 100%
			04	%Na ₂ CO ₃	.001% to 100%
Burkeite Brine	BR	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
			02	%K ₂ SO ₄	.001% to 100%
			03	%Na ₂ SO ₄	.001% to 100%
			04	%Na ₂ CO ₃	.001% to 100%
			05	%KCl	.001% to 100%
Borax-Ore	BW*	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
Calcium Chloride	CA	pounds	-	-	-
Chat	CB*	tons	-	-	-
Cinders	CC*	tons	-	-	-
Cadmium	CD	pounds	-	-	-
Clay	CG*	tons	01	%Al ₂ O ₃	.001% to 100%
Copper Concentrate	CH	tons	01	%Cu	.001% to 100%
			02	ounce/ton Ag	.001 to 1000
Copper Concentrate (Mill-Equivalent)	CI	tons	01	%Cu	.001% to 100%
			02	ounce/ton Ag	.001 to 1000

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Copper Ore	CJ*	tons	01	%Cu	.001% to 100%
			02	%Pb	.001% to 100%
			03	%Zn	.001% to 100%
Carbon Dioxide	CO	tons	07	%CO ₂	.001% to 100%
Calcium Silicate-Slag	CS	tons	-	-	-
Copper	CU	pounds	01	%Cu	.001% to 100%
Dawsonite	DA*	tons	01	%NaAlCO ₃	.001% to 100%
Coal-Anthracite-Processed	EA	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulphur	.001% to 100%
			04**	%H ₂ O	.001% to 100%
Coal-Anthracite-Raw	EB*	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulphur	.001% to 100%
			04**	%H ₂ O	.001% to 100%
Coal-Bituminous-Processed	EC	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulphur	.001% to 100%
			04**	%H ₂ O	.001% to 100%
Coal-Bituminous-Raw	ED*	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulphur	.001% to 100%
			04**	%H ₂ O	.001% to 100%
Coal-Lignite-Processed	EF	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulphur	.001% to 100%
			04**	%H ₂ O	.001% to 100%
Coal-Lignite-Raw	EG*	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulphur	.001% to 100%
			04**	%H ₂ O	.001% to 100%

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Coal-Subbituminous-Processed	EH	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulphur	.001% to 100%
			04**	%H ₂ O	.001% to 100%
Coal-Subbituminous-Raw	EI*	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulphur	.001% to 100%
			04**	%H ₂ O	.001% to 100%
Coal Resin	ER	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulfur	.001% to 100%
			04**	%H ₂ O	.001% to 100%
Coal-Fines-Circuit	ES	tons	01	Btu	1 to 14000
			02	%Ash	.001% to 100%
			03	%Sulphur	.001% to 100%
			04**	%H ₂ O	.001% to 100%
Feldspar Concentrate	FA*	tons	-	-	-
Ferro Phosphorous Slag	FB	tons	-	-	-
Fluorspar Concentrate Industrial Grade	FC	tons	01	%CaF ₂	.001% to 100%
			02	%Zn	.001% to 100%
Fluorspar Concentrate Chemical Grade	FD	tons	01	%CaF ₂	.001% to 100%
			02	%Zn	.001% to 100%
Iron Ore	FE*	tons	01	%Fe ₂ O ₃	.001% to 100%
Iron Concentrate	FF	long ton units	01	%Fe ₂ O ₃	.001% to 100%
Fluorspar-Raw Ore	FR*	tons	01	%CaF ₂	.001% to 100%
			02	%Zn	.001% to 100%
			03	%BaSO ₄	.001% to 100%

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Garnet Sands	GB*	tons	-	-	-
Garnet Concession Sale	GC	tickets	-	-	-
Gilsonite	GF*	tons	-	-	-
Granite	GG*	tons	-	-	-
Gypsum	GH*	tons	01	%CaSO ₄	.001% to 100%
Glaserite	GL	tons	01	%K ₂ O	.001% to 100%
Mercury	HG	pounds	-	-	-
Ilmenite Raw Ore	IA*	tons	01	%Fe ₂ O ₃	.001% to 100%
			02	%Ti	.001% to 100%
Intermediate Brine	IB	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
			02	%K ₂ SO ₄	.001% to 100%
			03	%Na ₂ SO ₄	.001% to 100%
			04	%Na ₂ CO ₃	.001% to 100%
Muriate of Potash-Coarse	JA	tons	01	%K ₂ O	.001% to 100%
			05	%KCl	.001% to 100%
Muriate of Potash-Fine	JB	tons	01	%K ₂ O	.001% to 100%
			05	%KCl	.001% to 100%
Muriate of Potash-Chemical	JC	tons	01	%K ₂ O	.001% to 100%
			05	%KCl	.001% to 100%
Muriate of Potash-Standard	JD	tons	01	%K ₂ O	.001% to 100%
			05	%KCl	.001% to 100%

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Mixed Potash-Raw Ore	JE*	tons	01	%K ₂ O as Sylvite	.001% to 100%
			02	%K ₂ O as Langbeinite	.001% to 100%
			03**	%KCl	.001% to 100%
Muriate of Potash-Granular	JL	tons	01	%K ₂ O	.001% to 100%
			05	%KCl	.001% to 100%
Muriate of Potash-Soluble	JS	tons	01	%K ₂ O	.001% to 100%
			05	%KCl	.001% to 100%
Kyanite	KA*	tons	-	-	-
Langbeinite-Raw Ore	LA*	tons	01	%K ₂ O	.001% to 100%
Langbeinite-Coarse	LB	tons	01	%K ₂ O	.001% to 100%
Langbeinite-Granular	LC	tons	01	%K ₂ O	.001% to 100%
Langbeinite-Standard	LD	tons	01	%K ₂ O	.001% to 100%
Langbeinite-Special Standard	LS	tons	01	%K ₂ O	.001% to 100%
Leonardite	LT*	tons	-	-	-
Mica	MA*	tons	-	-	-
Molybdenum Concentrate	MB	tons	01	%Mo	.001% to 100%
Mixed Sulfate Cake	MC	tons	02	%K ₂ SO ₄	.001% to 100%
			03	%Na ₂ SO ₄	.001% to 100%
			05	%KCl	.001% to 100%

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Carbonated Liquor	MD	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
			03	%Na ₂ SO ₄	.001% to 100%
			04	%Na ₂ CO ₃	.001% to 100%
			05	%KCl	.001% to 100%
			07	%CO ₂	.001% to 100%
Supo End Liquor	ME	tons	02	%K ₂ SO ₄	.001% to 100%
			03	%Na ₂ SO ₄	.001% to 100%
			05	%KCl	.001% to 100%
Compactor Feed	MF	tons	01	%K ₂ O	.001% to 100%
Magnesium Chloride Brine	MG*	tons	01	%MgCl ₂ (by weight)	.001% to 100%
Manganese	MN	tons	01	%Mn	.001% to 100%
Molybdenum	MO	pounds	01	%Mo	.001% to 100%
Manure Salts	MS	ton	01	%K ₂ O	.001% to 100%
			02	%KCl	.001% to 100%
			03	%NaCl	.001% to 100%
Sodium	NA	tons	-	-	-
Sodium Brine (NaCl)	NB*	tons	01	%NaCl	.001% to 100%
Nahcolite	NC*	tons	01	%Na ₂ CO ₃	.001% to 100%
Brine	ND*	barrels	01	%NaCl	.001% to 100%
Nickel	NI	pounds	-	-	-
LLX/BAX Brine	NL	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
			02	%K ₂ SO ₄	.001% to 100%
			03	%Na ₂ SO ₄	.001% to 100%
			05	%KCl	.001% to 100%

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Borate/Potash Brine	NP	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
			02	%K ₂ SO ₄	.001% to 100%
			03	%Na ₂ SO ₄	.001% to 100%
			04	%Na ₂ CO ₄	.001% to 100%
			05	%KCl	.001% to 100%
Borate/Sulfate Brine	NQ	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
			02	%K ₂ SO ₄	.001% to 100%
			03	%Na ₂ SO ₄	.001% to 100%
			04	%Na ₂ CO ₃	.001% to 100%
			05	%KCl	.001% to 100%
			07	%CO ₂	.001% to 100%
			Hi-Carbonate Brine	NS	tons
03	%Na ₂ SO ₄	.001% to 100%			
04	%Na ₂ CO ₃	.001% to 100%			
07	%CO ₂	.001% to 100%			
Olivine Concentrate	OB	tons	-	-	-
Lead	PB	tons	01	%Pb	.001% to 100%
Lead Concentrate	PC	tons	01	%Pb	.001% to 100%
			02	%Cu	.001% to 100%
			03	ounce/ton Ag	.001 to 1000
Lead Concentrate (Mill-Equivalent)	PE	tons	01	%Pb	.001% to 100%
			02	%Cu	.001% to 100%
			03	ounce/ton Ag	.001 to 1000
Lead Ore	PF*	tons	01	%Pb	.001% to 100%
			02	%Cu	.001% to 100%
			03	%Zn	.001% to 100%
			04	%Cd	.001% to 100%
			05	%Ag	.001% to 100%
Limestone	PG*	tons	-	-	-
Phosphate Pebble	PH	tons	01	%P ₂ O ₅	.001% to 100%
Peat	PI*	tons	-	-	-

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Phosphate Concentrate	PJ	tons	01	%P ₂ O ₅	.001% to 100%
Phosphate Raw Ore	PK*	tons	01	%P ₂ O ₅	.001% to 100%
			02	%H ₂ O	.001% to 100%
Phosphate Rock	PL*	tons	01	%P ₂ O ₅	.001% to 100%
Phosphatic Clay	PM	tons	01	%P ₂ O ₅	.001% to 100%
Potassium Sulfate-Standard	PN	tons	01	%K ₂ O	.001% to 100%
			02	%K ₂ SO ₄	.001% to 100%
Purge Liquor	PP	tons equivalent	01	%Na ₂ CO ₃	.001% to 100%
Phosphate-Precipitator Dust	PQ	tons	02	%K ₂ O	.001% to 100%
			03	%Zn	.001% to 100%
Potassium Sulfate-Special Standard	PS	tons	01	%K ₂ O	.001% to 100%
			02	%K ₂ SO ₄	.001% to 100%
Potassium Sulfate-Granular	PT	tons	01	%K ₂ O	.001% to 100%
			02	%K ₂ SO ₄	.001% to 100%
Quartz	QA*	pounds	-	-	-
Quartz Crystal	QB*	tickets or pounds	-	-	-
Spent Brine	RA	tons	01	%Na ₂ B ₄ O ₇	.001% to 100%
			02	%K ₂ SO ₄	.001% to 100%
			03	%Na ₂ SO ₄	.001% to 100%
			04	%Na ₂ CO ₃	.001% to 100%
			05	%KCl	.001% to 100%
			06	%SO ₄	.001% to 100%
			07	%CO ₂	.001% to 100%
Riprap	RP*	tons	-	-	-

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Salt	SA*	tons	01	%NaCl	.001% to 100%
			02	%H ₂ O	.001% to 100%
Sodium Bicarbonate	SB	tons	01	%Na ₂ CO ₃	.001% to 100%
			02	%NaHCO ₃	.001% to 100%
Scoria	SC*	cubic yards	-	-	-
Salt Cake	SD	tons	01	%Na ₂ SO ₄	.001% to 100%
Silica Sand	SE*	tons	01	%SiO ₂	.001% to 100%
Sand/Gravel	SF*	tons	-	-	-
Sand/Gravel	SG*	cubic yards	-	-	-
Slag (Metal)	SH	tons	-	-	-
Sodium Bicarbonate-Industrial	SI	tons	04	%Na ₂ CO ₃	.001% to 100%
			07	%CO ₂	.001% to 100%
Soda Ash	SJ	tons	01	%Na ₂ CO ₃	.001% to 100%
Soda Ash-Light	SK	tons	04	%Na ₂ CO ₃	.001% to 100%
Soda Ash-Dense	SL	tons	04	%Na ₂ CO ₃	.001% to 100%
Sodium Bicarbonate-Animal Feed	SM	tons	04	%Na ₂ CO ₃	.001% to 100%
			07	%CO ₂	.001% to 100%
Anhydrous Sodium Sulfate	SN	tons	03	%Na ₂ SO ₄	.001% to 100%
Soda Ash-Granular	SO	tons	04	%Na ₂ CO ₃	.001% to 100%
Sodium Sesquicarbonate	SP	tons	01	%Na ₂ CO ₃	.001% to 100%
Sodium Tripolyphosphate	SQ	tons	01	%Na ₂ CO ₃	.001% to 100%

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Caustic	SR	tons	01	%Na ₂ CO ₃	.001% to 100%
Sulfur	SS*	long tons	01	%S	.001% to 100%
Sulfide	SU	tons	01	%Na ₂ CO ₃	.001% to 100%
Salt	SW*	tons	08	%NaCl	.001% to 100%
Sylvite-Raw Ore	SY*	tons	01	%K ₂ O	.001% to 100%
Sulfuric Acid	SZ	tons	06	%H ₂ SO ₄	.001% to 100%
Tar Sand	TD*	tons	01	%Bitumen by weight	.001% to 100%
Titanium Oxide	TF*	tons	01	%Ti	.001% to 100%
Tripoli	TG*	tons	-	-	-
Trona Ore	TJ*	tons	01	%Na ₂ CO ₃	.001% to 100%
Trona-Raw	TR*	tons	04 07	%Na ₂ CO ₃ %CO ₂	.001% to 100% .001% to 100%
Uranium Raw Ore	UA*	tons	01 02 03**	%U ₃ O ₈ %H ₂ O %Mo	.001% to 100% .001% to 100% .001% to 100%
Uranium Concentrate (Yellow Cake)	UU	pounds	01 02	%U ₃ O ₈ %H ₂ O	.001% to 100% .001% to 100%
Vanadium	VV	tons	01	%V ₂ O ₅	.001% to 100%
Wavellite	WA*	specimen	-	-	-
Tungsten	WW*	tons	01	%WO ₃	.001% to 100%
Yttrium Ore	YO*	tons	01	%Y	.001% to 100%

C. Product and Quality Codes

Product name	Product code	Units of measure	Quality code	Quality description	Analysis range
Yttrium	YY	tons	01	%Y	.001% to 100%
Zinc Concentrate	ZA	tons	01	%Zn	.001% to 100%
			02	%Cd	.001% to 100%
			03	ounce/ton Ag	.001 to 1000
Zinc Concentrate (Mill-Equivalent)	ZB	tons	01	%Zn	.001% to 100%
			02	%Cd	.001% to 100%
			03	ounce/ton Ag	.001 to 1000
Zinc	ZN	pounds	01	%Zn	.001% to 100%

D. Error Correction and Edit Criteria

D.1 Overview

This appendix is provided to assist reporters in the correction of reporting errors. The MMS computer system detects errors through a series of automated, up-front edits performed on each solid minerals document during input processing. Errors detected include invalid codes, format errors, data inconsistencies, mathematical errors, or incomplete information.

“**Error Correction**” below outlines the general procedure for correcting errors detected by the reporter and/or MMS. A list of common reporting errors compiled from previously submitted solid minerals reports is also included.

“**Mine Information Form**” on page D-3 through “**Solid Minerals Facility Report**” on page D-24 describes the criteria used by PAAS to edit each solid minerals document during input processing. The edit specifications define valid entries for the fields in various reporting situations. For each type of document, edits are listed for header, detail, and trailer information and for grand totals. To emphasize the specific fields to which the edit criteria apply, PAAS report items and codes are capitalized in this chapter.

D.2 Error Correction

Before production reports enter the PAAS database, the MMS computer system checks them for errors. If errors are detected, MMS personnel attempt to correct them by contacting the operator (reporter). All reporters should direct correspondence and telephone contacts regarding errors to their MMS contact. See page 4-3 for a contact address and telephone number.

D.2.1 Correction procedures for errors detected by reporters

Errors discovered by the reporter after the reports have been accepted into the PAAS database should be corrected through the following procedures:

1. For errors detected on the MIF, contact MMS or the BLM district/area office. Confirmation reports are sent to mine operators when any data element on the MIF is changed.
2. For errors discovered on the FMIF, submit an amended FMIF. Refer to “[Expanded Example 2: Initializing additional information and amending old information](#)” on page 6-20 for specific procedures for amending previously submitted information. MMS sends confirmation reports to verify corrections.
3. To revise data submitted on previous SMOR and SMFR reports, submit a modified report. The modified report should be mailed no sooner than 10 days after the original report was mailed to ensure that MMS has processed the report being modified.

D.2.2 Correction procedures for errors detected by MMS

Errors may be discovered by PAAS edit routines. MMS evaluates the cause of the error by reviewing the form or report, along with available PAAS database information. Whenever possible, MMS attempts to resolve errors by telephone to save time and minimize paperwork. If the report contains only a few errors, MMS calls the reporter to resolve the problem. After the appropriate entry is determined, the MMS contact person makes the correction and sends a confirmation report to the reporter to verify the change. In case of an incorrect production or disposition quantity, the reporter is required to resubmit or modify the document. If the problem cannot be resolved by telephone, or if a report contains numerous errors, MMS requests that the reporter submit a new report with the correct information.

D.2.3 Common reporting errors

MMS has compiled a list of common reporting errors found in reports received from operators converted to PAAS. Listed below are instructions to avoid these errors when beginning reporting.

1. The MSHA mine number must be reported exactly as it was confirmed on the MIF (all forms).
2. An action code, an MMS lease number, and a product code are required on each line in which multiple quality codes and/or disposition codes are reported (SMOR-A).
3. The same quality code and analysis cannot be repeated for a specific lease/product combination when there are multiple dispositions (SMOR-A).
4. All production, dispositions, and inventory quantities must be whole numbers (all forms).
5. All leases confirmed on the MIF for producing mines must be reported for each report period (SMOR-A).
6. The authorizing signature and date must be entered on the first page of each report (all forms).

NOTE

Correct reporting is essential because pending regulations may require an assessment for incorrect or late reports.

D.3 Mine Information Form

The following edit criteria for the MIF ([ch. 5](#)) apply only to original reports submitted by the mine operator. Additional edit criteria not listed here apply to amended MIFs, which should be submitted only by BLM.

D.3.1 Header information criteria

Field	Action
Operator Name	No editing is performed.
MMS Operator Number	<ol style="list-style-type: none">1. Must be a valid MMS operator number.2. Must be a solid minerals operator.
Effective Report Period	<ol style="list-style-type: none">1. Must be a valid report period code.2. Year must be numeric.
Mine Name	<ol style="list-style-type: none">1. Must not be blank.2. Required only on the first page of a multipage document.
MSHA Mine Number	<ol style="list-style-type: none">1. Must use the eight-digit MMS-formatted MSHA mine number.2. A hyphen in this field is not acceptable.
LMU Indicator	<ol style="list-style-type: none">1. Must be either Y or N.2. Required only on the first page of a multipage document.
Mine Status Code	<ol style="list-style-type: none">1. Must be a valid mine status code.2. Required only on the first page of a multipage document.
Mine Products	<ol style="list-style-type: none">1. Must be a valid mine product code.2. Each entry must be unique.3. Required only on the first page of a multipage document.
Allocation Method Code	<ol style="list-style-type: none">1. Must be a valid allocation method code.2. Required only on the first page of a multipage document.

Field	Action
Check if New Operator and Previous Operator's MMS Number	Must be blank (completed by BLM as necessary).

D.3.2 Detail information edit criteria

Field	Action
Line Number	<ol style="list-style-type: none">1. Must be numeric.2. Must be 01 for first line on each page and be incremented by one for each subsequent line on a page.
Action Code	Must be A (add).
MMS Lease Number	<ol style="list-style-type: none">1. Must be a valid MMS lease number.2. Must be a mining lease.3. Must be alphanumeric.4. Cannot repeat a specific MMS lease number on another detail line.
Mine Type	Must be a valid mine type code.

D.3.3 Trailer information edit criteria

Field	Action
Contact Name	<ol style="list-style-type: none">1. No editing is performed.2. Should be entered on the first page of multipage document.
Telephone Number	<ol style="list-style-type: none">1. Must not be blank.2. Must be entered on the first page of a multipage document.
Extension Number	<ol style="list-style-type: none">1. No editing is performed.2. Should be entered on the first page of a multipage document.
Authorizing Name	<ol style="list-style-type: none">1. Must not be blank.2. Must be entered on the first page of a multipage document.
Title	<ol style="list-style-type: none">1. No editing is performed.2. Should be entered on the first page of a multipage document.
Authorizing Signature	Required on the first page of a multipage document.
Date	<ol style="list-style-type: none">1. Must be numeric.2. Must be in MMDDYY format.3. Must be a valid date.4. Must not be later than the current MMS processing date.5. Must be entered on the first page of a multipage document.
Comments	<ol style="list-style-type: none">1. No editing is performed.2. Should be entered on the first page of a multipage document.
Page__Of__	Pages must be numbered consecutively.

D.4 Facility and Measurement Information Form

The following sections describe edit criteria for the FMIF (ch. 6).

D.4.1 Header information edit criteria

Field	Action
Operator Name	No editing is performed.
MMS Operator Number	Must be a valid MMS solid minerals operator number.
Effective Report Period	<ol style="list-style-type: none"> 1. Must be a valid monthly report period code. 2. Year must be numeric.
Check If New Operator and Previous Operator's MMS Number	<ol style="list-style-type: none"> 1. If the Check If New Operator field is blank, the Previous Operator's MMS Number field must be blank. 2. If the Check If New Operator field is marked: <ol style="list-style-type: none"> a. Previous Operator's MMS Number field must be entered. b. Previous Operator's MMS Number must be a valid MMS operator number. c. Previous Operator's MMS Number cannot be the same as the entry in the MMS operator number field. d. The entity specified by the Previous Operator's MMS Number must have operated the FMP up to the effective date of the operator change.

D.4.2 Detail information edit criteria

MMS uses two sets of detail information edit criteria because the FMIF may be used either to change operators of existing FMPs (see “[Operator change edit criteria](#)” below) or to add, delete, or amend FMP data (see “[Facility/measurement point data edit criteria](#)”). Only one set of edit criteria is applicable to a given FMIF.

D.4.2.1 Operator change edit criteria

MMS applies the following edit criteria when the operator of an existing FMP changes. Report items Check If New Operator and Previous Operator’s MMS Number must be entered when an operator change occurs (see “[Header information edit criteria](#)” on p. D-7).

Field	Action
Line Number	<ol style="list-style-type: none">1. Must be numeric.2. Must be 01 for the first line on each page and be incremented by one for each subsequent line on the page.
Action Code	Must be A (add).
Facility/ Measurement Point Number	<ol style="list-style-type: none">1. Must be a valid FMP number.2. The previous operator of the FMP must not have submitted a SMFR-B for a report period equal to or later than the effective date of the operator change.3. All other report items on the detail line must be blank.

D.4.2.2 Facility/measurement point data edit criteria

The following edit criteria apply if FMP data are being added, deleted, or amended.

Field	Action
Line Number	<ol style="list-style-type: none"> 1. Must be numeric. 2. Must be 01 for the first line on each page and be incremented by one for each subsequent line on a page.
Action Code	The action code must be either A (add), D (delete), or C (change).
If the Action Code is A (add)	<p>Facility/measurement point number:</p> <ol style="list-style-type: none"> 1. For a new FMP, entries must be made only in the Type, State, and County fields. 2. State and county codes must be shown as described by the API. <p>Commingling code: This must be a valid commingling code:</p> <ol style="list-style-type: none"> 1. Noncommingled (code 1) 2. Commingled (code 4) <p>Location method code and location:</p> <ol style="list-style-type: none"> 1. Entries must be made in both fields. 2. Must be a valid location method code.

Field	Action
If the Action Code is A (add)— (continued)	<p>If the location method code specifies quarter-quarter-section-township-range-meridian (code 1), then within the Location field:</p> <ol style="list-style-type: none">1. Five dashes must be inserted to separate one subfield from the next.2. Quarter-quarter-section value must be valid.3. Quarter-section value must be valid.4. Section must be numeric.5. Entries in any of the first three positions of the township or range fields must be numeric.6. Township or range fraction, if applicable, must be valid.7. Township or range direction must be valid.8. BLM meridian code must be valid.9. The remainder of the location after the above elements must be blank. <p>If the location method code specifies latitude-longitude (code 03), then within the Location field:</p> <ol style="list-style-type: none">1. Five dashes must be present to separate one subfield from the next.2. Latitude and longitude degrees must be numeric. Valid latitudes are between 25 and 72 degrees. Valid longitudes are between 65 and 180 degrees.3. Latitude and longitude minutes must be numeric and less than 60.4. Latitude and longitude seconds must be numeric and less than 60.5. The remainder of the location after the above elements must be blank. <p>If the location method code specifies Other (code 00):</p> <ol style="list-style-type: none">1. No editing is performed on the Location field.2. Must not exceed field size of 25 characters.

Field	Action
If the Action Code is A (add)— (continued)	<p>Facility or Measurement Field name:</p> <ol style="list-style-type: none">1. If the type code is for a scale or meter, no editing is performed.2. If the type code is for a facility, for example, mill or smelter, the facility name must be entered.3. Can be used to identify the name or function of the scale associated with the measurement point number.4. Can be used for measurement point types. <p>Inventory capacity:</p> <p>This field must be blank (not used by mining facility operators).</p> <p>Subaction code and scale/meter serial number:</p> <ol style="list-style-type: none">1. For a measurement point number:<ol style="list-style-type: none">a. Subaction code must be A (add).b. Scale/meter model and serial number must be entered.c. Scale/meter model and serial number cannot be the same as those at another measurement point.2. For a facility number:<ol style="list-style-type: none">a. Subaction code must be blank.b. Scale/meter serial number must be blank.
If the Action Code is D (delete)	<p>Facility/measurement point number:</p> <ol style="list-style-type: none">1. Must be a valid FMP number.2. For the effective report period, the FMP must be operated by the entity specified in the MMS Operator Number field.3. A SMFR-B must not have been submitted for the FMP for a report period equal to or later than the effective report period.4. All other fields must be blank.

Field	Action
If the Action Code is C (change)	An action code of C is used either to assign several scales or meters to a measurement point or to change data related to an existing FMP.

Assignment of multiple scales to a measurement point:

When two or more scales are reported for a single measurement point, the first scale is initialized by entering action code **A**, all relevant information, subaction code **A**, and the scale serial number. The second scale is initialized by entering action code **C**, the same portion of the FMP number, subaction code **A**, and the scale serial number. Multiple scales must be reported on consecutive lines.

Change data related to an existing FMP:

1. To report scale changes at a measurement point, the old scale is deleted by entering action code **C**, the previously assigned FMP number, subaction code **D**, and the model and serial number of the old scale. The new scale is initialized on the next line by entering action code **C**, the same FMP number, subaction code **A**, and the model and serial number of the new scale.
2. To report a change in data related to an existing FMP other than a scale change, the operator must enter a **C** action code, the previously assigned FMP number, and the new data, which must be different from the previously accepted data. Changes to data on the FMIF can occur in the following report items:
 - Commingling Code
 - Location Method Code and Location
 - Facility or Measurement field

Field	Action
<p>If the Action Code is C (change)— (cont.)</p>	<p>Subaction code and scale/meter serial number: If subaction code is entered: 1. The measurement point number must have a valid type code (that is, 40 (truck), 41 (belt), etc.). 2. Subaction code must be either A (add) or D (delete).</p> <p>If the subaction code is A (add): 1. Scale/meter model and serial number must be entered. 2. Scale/meter model and serial number cannot be the same as those at another measurement point.</p> <p>If the subaction code is D (delete): 1. Scale/meter model and serial number must be entered. 2. Scale/meter model and serial number must have been previously established for the measurement point.</p>

D.4.3 Trailer information edit criteria

Field	Action
Contact Name	1. No editing is performed. 2. Should be entered on the first page of a multipage document.
Telephone Number	1. Must not be blank. 2. Must be entered on the first page of a multipage document.

Field	Action
Extension Number	<ol style="list-style-type: none">1. No editing is performed.2. Should be entered on the first page of a multipage document.
Authorizing Name	<ol style="list-style-type: none">1. Must not be blank.2. Must be entered on the first page of a multipage document.
Title	<ol style="list-style-type: none">1. No editing is performed.2. Should be entered on the first page of a multipage document.
Authorizing Signature	Required on the first page of a multipage document.
Date	<ol style="list-style-type: none">1. Must be numeric.2. Must be in MMDDYY format.3. Must be a valid date.4. Must not be later than the current MMS processing date.5. Must be entered on the first page of a multipage document.
Comments	<ol style="list-style-type: none">1. No editing is performed.2. Should be entered on the first page of a multipage document.
Page__Of__	Pages must be numbered consecutively.

D.5 Solid Minerals Operations Report

The following sections contain edit criteria for the SMOR.

D.5.1 Header information edit criteria

Field	Action
Report Type	<ol style="list-style-type: none"> 1. Either original or modified must be specified with an X. 2. If the document is an original, it must be the first submitted for the specific MSHA mine number/MMS operator number/effective report period combination. 3. If it is a modified document, an original document must have been previously submitted for the specific MSHA mine number/MMS operator number/effective report period combination.
Effective Report Period	<ol style="list-style-type: none"> 1. Must be a valid report period code. 2. The report period code must be consistent with the reporting frequency of the mine. 3. Year must be numeric. 4. Must not be later than the current MMS processing date.
MMS Operator Number	Must be a valid MMS operator number.
MSHA Mine Number	<ol style="list-style-type: none"> 1. Must be a valid MSHA mine number. 2. The relationship between the mine and the operator must have been previously established for the report period by a MIF. 3. Must be reported exactly as it was confirmed on the MIF. 4. Must use the MMS-formatted MSHA number.
Operator Name	No editing is performed.
Mine Name	No editing is performed.

D.5.2 Detail information edit criteria

The detail information edit criteria for the SMOR-A and -B are as follows.

D.5.2.1 SMOR-A edit criteria

Field	Action
Line Number	<ol style="list-style-type: none">1. Must be numeric.2. Must be 01 for the first line on each page and be incremented by one for each subsequent line on a page.
Action Code	<ol style="list-style-type: none">1. Must be either A (add) or D (delete).2. On original documents, only A can be entered.
If the Action Code is A (add)	<ol style="list-style-type: none">1. MMS lease number and product code must be entered on each line.2. If several added lines are required to report the multiple quality codes/analysis and/or dispositions of production from a lease:<ol style="list-style-type: none">a. Entries must be made in the following fields only on the first line for a particular MMS lease number/product code combination: Beginning Inventory, Quantity Produced, Losses From Production, Net Production, and Ending Inventory.b. All added lines for a particular MMS lease number/product code combination must be listed consecutively.c. The action code/MMS lease number/product code combination must be entered on each line in which quality code, analysis, or multiple disposition lines are reported on the SMOR-A.

Field	Action
If the Action Code is D (delete)	If the action code is D (delete), the incorrect lease information must be entered exactly as accepted on PAAS for the original submission. Each deleted line must be followed by the corresponding added line.
MMS Lease Number	<ol style="list-style-type: none"> 1. Must be a valid MMS lease number. 2. The relationship between the lease and the mine must have been previously established by a MIF. 3. All leases that were reported on the MIF must also be reported on the SMOR-A. 4. Required for each line entry.
Product Code	<ol style="list-style-type: none"> 1. Must be a valid raw product code. 2. Must have been previously reported on a MIF. 3. Required for each line entry.
Beginning Inventory	<ol style="list-style-type: none"> 1. Must be either blank or numeric and greater than zero. 2. Must be equal to the ending inventory of the previous report period. 3. Must be a whole number. 4. Must be right justified.
Quantity Produced	<ol style="list-style-type: none"> 1. Must be either blank or numeric and greater than zero. 2. Must be a whole number. 3. Must be right justified.
Losses From Production	<ol style="list-style-type: none"> 1. Must be either blank or numeric and greater than zero. 2. Must be a whole number. 3. Must be right justified.

Field	Action
Net Production	<ol style="list-style-type: none">1. Must be either blank or numeric and greater than zero.2. Net production = quantity produced - losses from production.3. Must be a whole number.4. Must be right justified.
Quality Code and Analysis	<ol style="list-style-type: none">1. Quality code must be either blank or a valid quality code.2. If the Quality Code field is blank, the Analysis field must be blank. <p>If quality code is entered:</p> <ol style="list-style-type: none">1. It must be a valid quality code for the specified product code.2. Analysis values must be numeric and expressed as either a decimal or a whole number, depending on the product code and quality code.3. Product code and analysis are required whenever production and/or dispositions are shown.4. The same quality code and analysis cannot be repeated within the document when there are multiple dispositions for a specific lease/product.

Field	Action
Disposition Code; Dispositions Quantity, Facility Number For Transfers, and Measurement Point	<ol style="list-style-type: none">1. Disposition Code field must be either blank or a valid disposition code on the SMOR-A.2. If Disposition Code field is blank, Dispositions Quantity and FMP numbers must be blank.3. If a disposition code is entered, dispositions quantity must be numeric, a whole number, and right justified.4. If disposition code specifies the transfer of material to a facility (code 81):<ol style="list-style-type: none">a. A valid facility number must be entered in the Facility Number For Transfers field.b. A valid measurement point number for a scale or meter must be entered in the Measurement Point field.5. If the disposition code specifies the sale of production (code 80):<ol style="list-style-type: none">a. The Facility Number For Transfers field must be blank.b. A valid measurement point number for a scale or meter must be entered in the Measurement Point field.6. If the disposition code does not specify transfer or sale of material:<ol style="list-style-type: none">a. The Facility Number For Transfers field must be blank.b. The Measurement Point field must be blank.7. If the disposition code specifies an addition to an inventory, entries in the Disposition Quantity field must be enclosed with brackets (< >).

Field	Action
Ending Inventory	<ol style="list-style-type: none">1. Must be either blank or numeric and greater than zero.2. For each unique MMS lease number/product code combination, ending inventory = beginning inventory + net production - disposition quantity(ies).3. Must be a whole number.4. Must be right justified.

D.5.2.2 SMOR-B edit criteria

Field	Action
Line Number	<ol style="list-style-type: none">1. Must be numeric.2. Must be 01 for the first line on each page and be incremented by one for each subsequent line on the page.
Action Code	<ol style="list-style-type: none">1. Must be either A (add) or D (delete).2. On original documents, A (add) must be entered.
If the Action Code is A (add)	The action code/source MMS lease number/product code/selling facility number combination must be entered on each line in which a sales quantity is reported.
If the Action Code is D (delete)	If the action code is D (delete), the entire line must be identical to a previously submitted added line.
Source MMS Lease Number	<ol style="list-style-type: none">1. Must be a valid lease number.2. The relationship between the lease and the mine must have been previously established by a MIF.3. Required for each line entry.

Field	Action
Product Code	<ol style="list-style-type: none">1. Must be a valid product code.2. Must have been previously reported on a MIF.3. Required for each line entry.
Selling Facility Number	<ol style="list-style-type: none">1. Must be a valid FMP number for a facility.2. Required for each line entry.
Sales Quantity	<ol style="list-style-type: none">1. Must be numeric and greater than zero, because only leases from which production is sold are listed on SMOR-B.2. Required for each line entry.3. Must be a whole number.

D.5.3 Trailer information edit criteria

Field	Action
Contact Name	<ol style="list-style-type: none">1. No editing is performed.2. Should be entered on the first page of a multipage document.
Telephone Number	<ol style="list-style-type: none">1. Must not be blank.2. Should be entered on the first page of a multipage document.
Extension Number	<ol style="list-style-type: none">1. No editing is performed.2. Should be entered on the first page of a multipage document.
Authorizing Name	<ol style="list-style-type: none">1. Must not be blank.2. Must be entered on the first page of a multipage document.

Field	Action
Title	<ol style="list-style-type: none">1. No editing is performed.2. Should be entered on the first page of a multipage document.
Authorizing Signature	Required on the first page of a multipage document.
Date	<ol style="list-style-type: none">1. Must be numeric.2. Must be in MMDDYY format.3. Must be a valid date.4. Must not be later than the current MMS processing date.5. Must be entered on the first page of a multipage document.
Comments	<ol style="list-style-type: none">1. No editing is performed.2. Should be entered on the first page of a multipage document.
Page__Of__	Pages must be numbered consecutively.

D.5.4 Document totals edit criteria

To calculate the totals for original documents, all quantities within each column are totaled. The total may be bracketed for only the Dispositions Quantity column. Totals are entered at the bottom of the column, in the Grand Totals field, only on the last page of the report part.

On modified documents, the total of each column is derived by adding the quantities on each added line and subtracting the quantities on each deleted line. Totals for any column may be bracketed (< >). Totals are entered at the bottom of the column, in the Grand Totals field, only on the last page of the report part.

The edit criteria for the SMOR-A totals are as follows:

Field	Action
Beginning Inventory-Grand Total	<ol style="list-style-type: none">1. Must be equal to the total value of all SMOR-A detail lines with entries in the Beginning Inventory fields.2. Must be equal to the Ending Inventory-Grand Total of the prior Effective Report Period.3. Must be entered only on the last page of a multipage document part.
Quantity Produced-Grand Total	<ol style="list-style-type: none">1. Must be equal to the total value of all SMOR-A detail lines with entries in the Quantity Produced field.2. Must be entered only on the last page of a multipage document part.
Losses From Production-Grand Total	<ol style="list-style-type: none">1. Must be equal to the total value of all SMOR-A detail lines with entries in the Losses From Production field.2. Must be entered only on the last page of a multipage document part.
Net Production-Grand Total	<ol style="list-style-type: none">1. Must be equal to the total value of all SMOR-A detail lines with entries in Net Production field.2. Must be entered only on the last page of a multipage document part.
Dispositions Quantity-Grand Total	<ol style="list-style-type: none">1. Must be equal to the total value of all SMOR-A detail lines with entries in the Dispositions Quantity field.2. Must be entered only on the last page of a multipage document part.

Field	Action
Ending Inventory-Grand Total	<ol style="list-style-type: none">1. Must be equal to the total value of all SMOR-A detail lines with entries in the Ending Inventory field.2. Must be entered only on the last page of a multipage document part.

The edit criteria for the SMOR-B totals are as follows:

Field	Action
Sales Quantity-Grand Total	<ol style="list-style-type: none">1. Must be equal to the total value of all SMOR-B detail lines with entries in the Sales Quantity field.2. Must be entered only on the last page of a multipage document part.

D.6 Solid Minerals Facility Report

The following sections describe the edit criteria for the SMFR-A and -B.

D.6.1 Header information edit criteria

Field	Action
Report Type	<ol style="list-style-type: none">1. Either original or modified must be specified with an X.

Field	Action
Report Type (cont.)	<ol style="list-style-type: none"> 2. If the document is an original, it must be the first submitted for the specific MMS facility number/MMS operator number/effective report period combination. 3. If it is a modified document, an original document must have been previously submitted for the specific MMS facility number/MMS operator number/effective report period combination.
Effective Report Period	<ol style="list-style-type: none"> 1. Must be a valid report period code. 2. The report period code must be consistent with the reporting frequency of the facility. 3. Year must be numeric. 4. Must not be later than the current MMS processing date.
MMS Operator Number	Must be a valid MMS operator number.
Operator Name	No editing is performed.
MMS Facility Number	<ol style="list-style-type: none"> 1. Must be a valid facility number for a solid minerals processing or storage facility. 2. The current operator of the facility must be the one specified in the MMS operator number field.
Facility Name	No editing is performed.
Operator's Facility Number	No editing is performed.

D.6.2 Detail information edit criteria

The following sections describe the edit criteria for the SMFR-A and SMFR-B.

D.6.2.1 SMFR-A edit criteria

Field	Action
Line Number	<ol style="list-style-type: none">1. Must be numeric.2. Must be 01 for the first line on each page and be incremented by one for each subsequent line on the page.
Action Code	<ol style="list-style-type: none">1. Must be either A (add) or D (delete).2. On original documents, A must be entered.
If the action code is A (add)	<ol style="list-style-type: none">1. Source MSHA mine number and process inputs-product code must be entered on each line.2. If several added lines are required to report the different qualities of material for a mine:<ol style="list-style-type: none">a. Entries are made in the Process Inputs fields and Process Outputs-Quantity field only on the first line of a particular source MSHA mine number/process inputs-product code combination.b. All added lines for a particular source MSHA mine number/process inputs-product code combination must be listed consecutively.c. The action code/source MSHA mine number/process inputs-product code combination must be reported on each line in which process inputs/quantity/quality code(s) and process outputs quantity/quality code(s) are reported.
If the Action Code is D (delete)	If the action code is D (delete), the entire line must be identical to a previously submitted added line.

Field	Action
Source MSHA Mine Number	<ol style="list-style-type: none"> 1. Must be a valid MSHA mine number. 2. Required for each line entry. 3. Must use the MMS-formatted MSHA mine number.
Process Inputs-Product Code	<ol style="list-style-type: none"> 1. Must be a valid raw product code. 2. Must be a raw product code that was specified on the MIF for the source mine. 3. Required for each line entry.
Process Inputs-Quantity	<ol style="list-style-type: none"> 1. Must be either blank or numeric and greater than zero. 2. Must be equal to the total of all values in the Dispositions Quantity field that are associated with dispositions code 86 (input to a secondary process) on the SMFR-B for the mine and product. 3. Must only be entered on the first line for a particular source MSHA mine number/process inputs-product code combination. 4. Must be a whole number.
Process Inputs-Quality Code and Analysis	<ol style="list-style-type: none"> 1. Must be either blank or a valid quality code. 2. If the Quality Code field is blank, the Analysis field must be blank. 3. If quality code is entered: <ol style="list-style-type: none"> a. Must be a valid quality code for the specified product code. b. Analysis values must be numeric and expressed as either a decimal or a whole number, depending on the product code and quality code.

D. Error Correction and Edit Criteria

Field	Action
Process Outputs-Product Code	<ol style="list-style-type: none">1. Must be a valid processed product code.2. Must be a processed product code that was specified on the MIF for the source mine.3. Required for each line entry in the Process-Outputs fields.
Process Outputs-Quantity	<ol style="list-style-type: none">1. Must be either blank or numeric and greater than zero.2. Must be equal to the value in the Production field on the SMFR-B for the mine and product.3. Must be entered on only the first line for a particular source MSHA mine number/process inputs-product code/process outputs-product code combination.4. Must be a whole number.
Process Outputs-Quality Code and Analysis	<ol style="list-style-type: none">1. Must be a valid quality code for the specified product code.2. Analysis values must be numeric and expressed as either a decimal or a whole number, depending on the product code and quality code.

D.6.2.2 SMFR-B edit criteria

Field	Action
Line Number	<ol style="list-style-type: none">1. Must be numeric.2. Must be 01 for the first line on each page and be incremented by one for each subsequent line on the page.
Action Code	<ol style="list-style-type: none">1. Must be either A (add) or D (delete).2. On original documents, A must be entered.

Field	Action
If the action code is A (add)	<ol style="list-style-type: none"> 1. Product code and source MSHA mine number must be entered on each line. 2. If several added lines are required to report all dispositions of a product for a mine: <ol style="list-style-type: none"> a. Entries are made in the following fields only on the first line for a particular product code/source MSHA mine number combination: Beginning Inventory, Raw Material Receipts or Production, and Ending Inventory. b. All lines for a particular product code/source MSHA mine number must be listed consecutively. c. The action code/product code/source MSHA mine number combination must be reported on each line in which dispositions are reported.
If the Action Code is D (delete)	If the action code is D (delete), the entire line must be identical to a previously submitted added line.
Product Code	<ol style="list-style-type: none"> 1. Must be a valid product code. 2. Must be a product code that was specified on the MIF for the source mine. 3. Required for each line entry.
Source MSHA Mine Number	<ol style="list-style-type: none"> 1. Must be a valid MSHA mine number. 2. Required for each line entry. 3. Must use the MMS-formatted MSHA mine number.
Beginning Inventory	<ol style="list-style-type: none"> 1. Must be either blank or numeric and greater than zero. 2. Beginning inventory must be equal to the ending inventory of the previous report period. 3. Must be a whole number.

D. Error Correction and Edit Criteria

Field	Action
Raw Material Receipts	<ol style="list-style-type: none">1. Must be either blank or numeric and greater than zero.2. If an entry is made in the Raw Material Receipts field, the Production field on that line must be blank.3. Must be a whole number.
Production	<ol style="list-style-type: none">1. Must be either blank or numeric and greater than zero.2. If an entry is made in the Production field, the Raw Material Receipts field on that line must be blank.3. Must equal the values in the Process Outputs-Quantity field on the SMFR-A for the mine and product.4. Must be a whole number.
Disposition Code; Dispositions Quantity, Facility Number for Transfers, and Measurement Point	<ol style="list-style-type: none">1. Disposition Code field must be either blank or a valid disposition code on the SMFR-B.2. If the Disposition Code field is blank, the Dispositions Quantity field must be blank.3. If the disposition code is entered, dispositions quantity must be numeric.4. If the disposition code specifies input of material to a secondary process (code 86): For the mine and product, the total of all values in the Dispositions Quantity field that are associated with disposition code 86 (input to a secondary process) must equal the value in the Process Inputs-Quantity field on the SMFR-A for a specific product code/source mine combination.

Field	Action
Disposition Code; Dispositions Quantity, Facility Number for Transfers, and Measurement Point (cont.)	<ol style="list-style-type: none">5. If the disposition code specifies the transfer of material to another facility (code 81):<ol style="list-style-type: none">a. A valid facility must be entered in the Facility Number for Transfers field.b. A valid measurement point number for a scale or meter must be entered in the Measurement Point field. 6. If the disposition code specifies the transfer of material from another facility (code 82):<ol style="list-style-type: none">a. A valid facility must be entered in the Facility Number for Transfers field.b. The entry in the Dispositions Quantity field must be enclosed with brackets. 7. If the disposition code specifies the sale of material (code 80):<ol style="list-style-type: none">a. The Facility Number for Transfers field must be blank.b. A valid measurement point number for a scale or meter must be entered in the Measurement Point field. 8. If the disposition code does not specify the transfer or sale of material:<ol style="list-style-type: none">a. The Facility Number for Transfers field must be blank.b. The Measurement Point field must be blank. 9. If the disposition code specifies an addition to an inventory, entries must be enclosed with brackets (< >).

Field	Action
Ending Inventory	<ol style="list-style-type: none">1. Must be either blank or numeric and greater than zero.2. Must be a whole number.3. For each unique product code/source MSHA mine number combination:<ol style="list-style-type: none">a. For raw product codes: ending inventory = beginning inventory + raw material receipts - total dispositions quantity.b. For processed product codes: ending inventory = beginning inventory + production - total dispositions quantity.

D.6.3 Trailer information edit criteria

Field	Action
Contact Name	<ol style="list-style-type: none">1. No editing is performed.2. Should be entered on the first page of multipage document.
Telephone Number	<ol style="list-style-type: none">1. Must not be blank.2. Must be entered on the first page of a multipage document.
Extension Number	<ol style="list-style-type: none">1. No editing is performed.2. Should be entered on the first page of a multipage document.
Authorizing Name	<ol style="list-style-type: none">1. Must not be blank.2. Must be entered on the first page of a multipage document.

Field	Action
Title	<ol style="list-style-type: none">1. No editing is performed.2. Should be entered on the first page of a multipage document.
Authorizing Signature	Required on the first page of a multipage document.
Date	<ol style="list-style-type: none">1. Must be numeric.2. Must be in MMDDYY format.3. Must be a valid date.4. Must not be later than the current MMS processing date.5. Must be entered on the first page of a multipage document.
Comments	<ol style="list-style-type: none">1. No editing is performed.2. Should be entered on the first page of a multipage document.
Page__Of__	Pages must be numbered consecutively.

D.6.4 Document totals edit criteria

To calculate the totals for original documents, all quantities within each column are summed. The total may be bracketed (< >) for only the Dispositions Quantity column. Totals are entered at the bottom of the column, in the Grand Totals field, only on the last page of the report part.

On modified documents, the total of each column is derived by adding the quantities on each added line and subtracting the quantities on each deleted line. Totals for any column may be bracketed (< >). Totals are entered at the bottom of the column, in the Grand Totals field, only on the last page of the report part.

D.6.4.1 SMFR-A

Field	Action
Process Inputs-Quantity- Grand Total	<ol style="list-style-type: none">1. Must be equal to the total value of all SMFR-A detail lines with entries in the Process Inputs-Quantity field.2. Must be entered only on the last page of a multipage document part.
Process Outputs-Quantity- Grand Total	<ol style="list-style-type: none">1. Must be equal to the total value of all SMFR-A detail lines with entries in the Process Outputs-Quantity field.2. Must be entered only on the last page of a multipage document part.

D.6.4.2 SMFR-B

Field	Action
Beginning Inventory-Grand Total	<ol style="list-style-type: none">1. Must be equal to the total value of all SMFR-B detail lines with entries in the Beginning Inventory field.2. Must equal the ending inventory-grand total of the prior effective report period.3. Must be entered only on the last page of a multipage document part.
Raw Material Receipts-Grand Total	<ol style="list-style-type: none">1. Must be equal to the total value of all SMFR-B detail lines with entries in the Raw Materials Receipts field.2. Must be entered only on the last page of a multipage document part.

Field	Action
Production-Grand Total	<ol style="list-style-type: none">1. Must be equal to the total value of all SMFR-B detail lines with entries in the Production field.2. Must be entered only on the last page of a multipage document part.
Dispositions Quantity-Grand Total	<ol style="list-style-type: none">1. Must be equal to the total value of all SMFR-B detail lines with entries in the Dispositions-Quantity field.2. Must be entered only on the last page of a multipage document part.
Ending Inventory-Grand Total	<ol style="list-style-type: none">1. Must be equal to the total value of all SMFR-B detail lines with entries in the Ending Inventory field.2. Must be entered only on the last page of a multipage document part.

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Release History

Release number	Release date	Revised chapters/sections	RMP originator	Preparer
1.0	11/18/92		DMD ^a	AMS/OC ^b
2.0	02/10/00		RVD ^c	AMS/OC

- a. Data Management Division, Solid Minerals Staff.
- b. American Management Systems Operations Corporation, Inc.
- c. Royalty Valuation Division, Solid Minerals Staff.



As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering sound use of our land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.



As a bureau of the Department of the Interior, the Minerals Management Service's (MMS) primary responsibilities are to manage the mineral resources located on the Nation's Outer Continental Shelf (OCS), collect revenue from the Federal OCS and onshore Federal and Indian lands, and distribute those revenues.

Moreover, in working to meet its responsibilities, the **Offshore Minerals Management Program** administers the OCS competitive leasing program and oversees the safe and environmentally sound exploration and production of our Nation's offshore natural gas, oil, and other mineral resources. The MMS **Royalty Management Program** meets its responsibilities by ensuring the efficient, timely, and accurate collection and disbursement of revenue from mineral leasing and production due to Indian tribes and allottees, States, and the U.S. Treasury.

The MMS strives to fulfill its responsibilities through the general guiding principles of (1) being responsive to the public's concerns and interests by maintaining a dialogue with all potentially affected parties and (2) carrying out its programs with an emphasis on working to enhance the quality of life for all Americans by lending MMS assistance and expertise to economic development and environmental protection.