Appendix G
Producing Interval Codes

The producing interval code is a three-character standard format code (X99 where X = a letter and 9 = a number) assigned by BLM or BSEE, when a Sundry Notice or Well Summary Report is approved. The numeric portion is uniquely and permanently related to a specific completion zone or producing configuration within a wellbore.

- The 3-character producing interval code is a separate identifier and is not part of the 12-digit API number. However, it does complete the well number for reporting purposes.

- The letter of the code is assigned based upon the number of tubing strings in the wellbore that are capable of production. For example, a producing interval code of S01 indicates a single tubing string in the first reservoir completed; D01 indicates a dual tubing string in the first reservoir completed.

In the case of a tubingless or other completion where production from one reservoir flows through a tubing string and from another reservoir through the annulus, the letter of the producing interval code is D. In this case, the D code does not signify the presence of two tubing strings, but indicates there are two separate production streams with the annulus acting as a tubing string.

- The two numbers of the code relate to a specific reservoir or producing configuration and are assigned sequentially beginning with the number 01 for the first reservoir or formation completed within a wellbore, followed by consecutively increasing numbers assigned to successive completed reservoirs or formations. For example, a producing interval code of S01 indicates the first reservoir or formation completed in the well; S02 indicates the second reservoir or formation completed. If, however, additional perforations are added to an S01 completion in the same reservoir or formation, the producing interval code remains S01 because the completion is still producing from the same reservoir or commingled situation.

Components of the producing interval code are identified and described below.
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- The first character indicates the number of tubing strings, currently as follows:

<table>
<thead>
<tr>
<th>Borehole</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>S</td>
</tr>
<tr>
<td>Dual</td>
<td>D</td>
</tr>
<tr>
<td>Triple</td>
<td>T</td>
</tr>
<tr>
<td>Quadruple</td>
<td>Q</td>
</tr>
<tr>
<td>Quintuple</td>
<td>V</td>
</tr>
<tr>
<td>Allocated</td>
<td>A (onshore only)</td>
</tr>
<tr>
<td>Commingled</td>
<td>C (onshore only)</td>
</tr>
</tbody>
</table>

- The second and third characters indicate the reservoir or formation completed; for example, 01 through 99.

A producing interval code of X01 must be used when reporting only the wellbore, such as in the following cases:

- Reporting an active or inactive drilling well.
- Reporting a wellbore in which all completions have been abandoned but the wellbore itself has not been abandoned; that is, temporary abandonment.
- Reporting a wellbore that has been permanently abandoned.

Largely due to new technology, offshore special completions and producing situations exist that require exceptional naming and numbering guidelines. In part, these cases are addressed by reserving and using blocks of producing interval codes for well completion identification purposes. These reserved producing interval code ranges are identified as follows:

<table>
<thead>
<tr>
<th>Producing interval code</th>
<th>Reserved for:</th>
</tr>
</thead>
<tbody>
<tr>
<td>01-19</td>
<td>All “routine” producing completions not included in any of the following groups.</td>
</tr>
<tr>
<td>21-39</td>
<td>All completions involving the combined production of unit and non-unit hydrocarbons in a single tubing string.</td>
</tr>
<tr>
<td>41-59</td>
<td>All completions that “cross lease lines.”</td>
</tr>
<tr>
<td>61-79</td>
<td>All “capacity” completions. A capacity completion is defined as a completion with two or more tubing strings producing or capable of producing from the same reservoir.</td>
</tr>
<tr>
<td>81-99</td>
<td>Unassigned</td>
</tr>
</tbody>
</table>
The producing interval code is required on the OGOR-A to complete the API well number and is confirmed to the designated operator through the WELL Confirmation Report. The following examples illustrate the correct producing interval codes for various completions.

### G.1 Onshore Examples

**Example G-1** Onshore—Basic drilling well

Completion code X01

*Completion codes must be assigned by the appropriate BLM office.*
Example G-2  Onshore—Basic single completion

Completion code S01
Example G-3  Onshore—Basic commingled completion

Time 1
Assume:

• One tubing string
• One completion in zones A and B
• Approval to commingle downhole

A single tubing string that has commingled production from two sets of perforations and production allocated to two PAs (allocation might be accomplished by closing off one of the sets of perforations by a mechanical device, such as a sliding sleeve, and measuring the production) is recorded in a unique way. The completion codes in this instance are S01 and S02.
Example G-4  Onshore—Basic dual completion

Zone A  Completion code D01  Zone B  Completion code D02
Example G-5  Onshore—Recompleting a well

Time 1
Assume:
- One tubing string
- One completion in zone A

Result:
Zone A
Completion code S01

Time 2
Assume:
- First completion in zone A squeezed off
- Well recompleted in zone B

Result:
Zone B
Completion code S02

Time 3
Assume:
- Second completion in zone B squeezed off
- Well recompleted in zone C

Result:
Zone C
Completion code S03

If the S01 completion in zone A is squeezed, recompleted in zone B and squeezed, then at a later date recompleted in the same zone A and tubing string, the completion code would be S01. The S01 will be reported as ABD on the OGOR the month the S02 begins reporting, and the S02 will be reported as ABD the month the S03 begins reporting.
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**Example G-6**  Onshore—Tubingless completion

**Time 1**

Assume:
- One completion
- Casing is used as the production string

Result:
Completion code S01

**Time 2**

Assume:
- Well completed
- One tubing string
- Two completions
- One interval is producing using the annulus

Result:
Zone A
Completion code D02
Zone B
Completion code S01
Example G-7  Onshore—Downhole commingling

**Time 1**
Assume:
- Two tubing strings
- Two completions

Result:
Zone A
Completion code D01
Zone B
Completion code D02

**Time 2**
Assume:
- Two tubing strings
- Three completions
- Production from upper tubing string is commingled downhole

Result:
Zone A
Completion code D01
Zone B and C
Completion code D02
Example G-8  Onshore—Well deepened

**Time 1**
Assume:
- One tubing string
- One completion

Result:
Zone B
Completion code S01

**Time 2**
Assume:
- One tubing string
- Formation B completion is squeezed off
- Well is deepened and completed in formation A

Result:
Zone A
Completion code S02
Example G-9  Onshore—Abandonment

**Time 1**
Assume:
- One tubing string
- One completion

Result:
- Completion code S01
- Well status POW

**Time 2**
Assume:
- Completion is squeezed
- Well is abandoned

Result:
- Zone A
- Completion code S01
- Well status ABD
Example G-10  Onshore—Abandonment of one completion in a dually completed well

**Time 1**
Assume:
- Two tubing strings
- Two completions

Result:
- Zone A
  Completion code D01
  Well status POW
- Zone B
  Completion code D02
  Well status POW

**Time 2**
Assume:
- Zone B is abandoned
- One tubing string remains

Result:
- Zone A
  Completion code D01
  Well status POW
- Zone B
  Completion code D02
  Well status ABD
Example G-11  Onshore—Abandonment of both completions within a dually completed well

**Time 1**
Assume:
- Two tubing strings
- Two completions

**Time 2**
Assume:
- The D01 completion is abandoned
- The D02 completion remains producing

**Result:**
- Zone A Completion code D01
- Zone A Well status POW
- Zone B Completion code D02
- Zone B Well status POW

**Time 3**
Assume:
- Zone B is temporarily abandoned during the report month

**Result:**
- Zone B Completion code D02
- Zone B Well status TA
- Zone B Completion code D02
- Zone B Well status ABD

**Time 4**
Assume:
- Zone B is abandoned the next report period

**Result:**
- Zone B Completion code D02
- Zone B Well status ABD
**Example G-12  Onshore—Recompleting a well and adding a tubing string**

**Time 1**
Assume:
- One tubing string
- One completion in zone A

Result:
Zone A  
Completion code S01

**Time 2**
Assume:
- First completion in zone A squeezed off
- Well completed in zone B and zone C with a tubing string added

Result:
Zone B  
Completion code D01
Zone C  
Completion code D02

*The S01 will change to the D01 on the OGOR the month the D02 begins reporting.*
Example G-13 Onshore—Dual completion commingled downhole and one tubing string removed

**Time 1**
Assume:
- Two tubing strings
- Two completions in zone A and zone B

Result:
- Zone A
  Completion code D01
- Zone B
  Completion code D02

**Time 2**
Assume:
- Commingling (approved) D01 and D02 and remove one tubing string

Result:
- Completion code S01

*The D01 will change to the S01 on the OGOR, and the D02 will be reported as ABD the month the S01 begins reporting the commingled production on the OGOR.*
Example G-14  Onshore—Recompleting a commingled well and adding a tubing string

**Time 1**
Assume:
- One tubing string
- One completion in zone A and zone B
- Approval to commingle downhole

Result:
Completion code S01

**Time 2**
Assume:
- Two tubing strings
- Two completions in zone A and zone B

Result:
Zone A
Completion code D01
Zone B
Completion code D02

NOTE
The S01 will change to the D01 on the OGOR the month the D02 begins reporting.
Example G-15  Onshore—Basic triple completion

Zone A  Completion code T01
Zone B  Completion code T02  Zone C  Completion code T03

![Diagram of Onshore—Basic triple completion](image)
Example G-16  Onshore—Single completion with a dual completion added and then a triple completion added

<table>
<thead>
<tr>
<th>Time 1</th>
<th>Time 2</th>
<th>Time 3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Result:</strong></td>
<td><strong>Result:</strong></td>
<td><strong>Result:</strong></td>
</tr>
<tr>
<td>Zone A</td>
<td>Zone A</td>
<td>Zone A</td>
</tr>
<tr>
<td>Completion code S01</td>
<td>Completion code S01</td>
<td>Completion code S01</td>
</tr>
<tr>
<td>Zone B</td>
<td>Zone B</td>
<td>Zone B</td>
</tr>
<tr>
<td>Completion code D02</td>
<td>Completion code D02</td>
<td>Completion code D02</td>
</tr>
<tr>
<td>Zone C</td>
<td>Zone C</td>
<td>Zone C</td>
</tr>
<tr>
<td>Completion code T03</td>
<td>Completion code T03</td>
<td></td>
</tr>
</tbody>
</table>
Example G-17  Onshore—Triple well recompleted to commingle two of three zones

**Time 1**
Assume:
- Three tubing strings
- Three completions in three zones
- Approval to commingle two zones

Result:
- Zone A
  Completion code T01
- Zone B
  Completion code T02
- Zone C
  Completion code T03

**Time 2**
Assume:
- T02 and T03 commingled downhole
- One tubing string pulled
- Three completions in three zones

Result:
- Zone A
  Completion code D01
- Zone B
  Completion code D02

The T02 will change to the D02, and the T03 will be reported as ABD on the OGOR the month the D02 begins reporting.
## Offshore Examples

### Example G-18  Offshore—Sidetrack well

**Time 1**  
Assume:  
- Two tubing strings  
- Two completions in three zones  
- API well number 177174000000

Result:  
- Zone A  
  - WB code 00  
  - PI code D01  
- Zone B  
  - WB code 00  
  - PI code D02

**Time 2**  
Assume:  
- Zones A and B in original wellbore squeezed off  
- Well sidetracked and completed in new zones  
- API well number 177174000001

Result:  
- Zone C  
  - WB code 01  
  - PI code D01  
- Zone D  
  - WB code 01  
  - PI code D02

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NOTE  
Because a sidetrack creates a unique API well number, all completions are assigned new producing interval codes independent of the original wellbore.
Example G-19  Offshore—Well deepened

**Time 1**
Assume:
- One tubing string
- One completion

Result:
- Zone B
  - WB code 00
  - PI code S01

**Time 2**
Assume:
- One tubing string
- Zone B is squeezed off
- Well is deepened and completed in zone A

Result:
- Zone A
  - WB code 01
  - PI code S01

In this example, the well is initially completed and later deepened and recompleted in another zone. The API number wellbore code is incremented to 01. The producing interval code remains S01 because it is attached to a new wellbore.
Appendix G  Producing Interval Codes

Example G-20  Offshore—Historical wellbore with no API well number assigned

**Time 1**
Assume:
- Original wellbore is drilled
- API number is assigned 427094012300
- Zone B is completed and produced
- Well log name—A001

Result:
- Zone B
- Log ST 00
- WB code 00
- PI code S01

**Time 2**
Assume:
- Second wellbore is sidetracked from original hole
- Junked section is abandoned
- Mistakenly, no API number is assigned
- Wellbore is logged
- Well log name/ well name suffix—A001ST1

Result:
- Log ST 01

**Time 3**
Assume:
- Third wellbore is sidetracked from second wellbore
- API number is assigned 427094012301
- Zone A is completed and produced
- Well log name/ well name suffix—A001ST2

Result:
- Zone A
- Log ST 02
- WB code 01
- PI code S01

**Time 4**
Assume:
- API number with 70 series WB code is assigned to second wellbore 427094012370
- Allows identification of second wellbore data
- API numbers for original and third wellbores not changed

Result:
- Log ST 01
- WB code 70

**NOTE**

Historical sidetracks, bypasses, well deepenings, etc., that were not initially assigned an API number can be assigned an API number with a 70 series WB code at a later time, so any wellbore data can be identified but will not be confirmed to the operator for reporting purposes. API numbers already assigned will not be changed.
Example G-21  Offshore—Recompleting a well

**Time 1**
Assume:
- One tubing string
- One completion in zone A

Result:
Zone A
PI code S01

**Time 2**
Assume:
- First completion in zone A squeezed off
- Well recompleted in zone B

Result:
Zone B
PI code S02

**Time 3**
Assume:
- Second completion in zone B squeezed off
- Well recompleted in zone C

Result:
Zone C
PI code S03
Example G-22  Offshore—Workover

**Time 1**
Assume:
- Two tubing strings
- Two completions

Result:
Zone A  
PI code D01
Zone B  
PI code D02

**Time 2**
Assume:
- One of the tubing strings is removed during workover
- Zone B is squeezed off

Result:
Zone A  
PI code S01

The D02 completion must be reported as abandoned (status code 15) on the OGOR-A in the same month that the S01 completion begins reporting.
Example G-23  Offshore—Collapsed tubing string

**Time 1**
Assume:
- Two tubing strings
- Two completions

Result:
Zone A
PI code D01
Zone B
PI code D02

**Time 2**
Assume:
- D02 tubing collapsed—no longer capable of producing to surface
- D01 tubing recompleted in zone B
- Production is commingled downhole

Result:
Zone A
PI code S03
Zone B
PI code S03

**NOTE**

The D01 and D02 must be reported as completion abandoned (status code 15) on the OGOR-A in the same month that the S03 begins reporting.
Example G-24  Offshore—Tubingless completion

**Time 1**
Assume:
- One completion
- Casing is used as the production string

Result:
Zone B
PI code S01

**Time 2**
Assume:
- Well recompleted
- One tubing string
- Two completions
- One interval is producing using the casing

Result:
Zone A
PI code D02
Zone B
PI code D01
**Example G-25**

**Offshore—Unit and nonunit production combined**

**Time 1**

Assume:

- One tubing string
- One completion
- Gas production is unitized, oil production is not

**NOTE**

Gas production would be reported on unit OGOR-A; oil production would be reported separately on lease OGOR-A.
Example G-26  Offshore—Completion that crosses lease line

**Time 1**

Assume:

- Directional or horizontal well is completed with the perforated interval crossing a lease line

Result:

- Two completion records set up, one for each lease
- API number, including WB code, and well name suffix will be the same for both records
- Production and test data will be allocated to each lease based on method specific by ONRR
- PI codes S41 and S51
**Example G-27**  Offshore—Capacity well

### Time 1

Assume:

- Two tubing strings
- Two completions

### Time 2

Assume:

- After workover, zone A is squeezed off
- Lower string is plugged and perforated in zone B
- Both tubing strings producing from the same zone

### Result:

- Zone A
  - PI code D01
- Zone B
  - PI code D02

### Result:

- Zone B
  - PI code D02 and D62

---

**NOTE**

The D01 completion must be reported as a completion abandoned (status code 15) on the OGOR-A in the same month that the D62 completions begin reporting along with the existing D02.
**EXAMPLE**

Example G-28  Onshore—Downhole commingling, single tubing string

**Time 1**
Assume:
- Three potential pay zones: A, B, and C
- Zones A and B completed at same time
- Production is commingled downhole

Result:
- Zone A
  PI code S01
- Zone B
  PI code S01

**Time 2**
Assume:
- Zone C completed
- Production from zones A, B and C commingled downhole

Result:
- Zone A
  PI code S02
- Zone B
  PI code S02
- Zone C
  PI code S02

*The S01 must be reported as a completion abandoned (status code 15) on the OGOR-A in the same month that the S02 begins reporting.*
Example G-29  Onshore—Downhole commingling, dual completion

**Time 1**
Assume:
- Two tubing strings
- Two completions

Result:
Zone A  
PI code D01  
Zone B  
PI code D02

**Time 2**
Assume:
- Two tubing strings
- Three completions
- Production from upper tubing string is commingled downhole

Result:
Zone A  
PI code D01  
Zone B  
PI code D03  
Zone C  
PI code D03

The D02 must be reported as a completion abandoned (status code 15) on the OGOR-A in the same month that the D03 begins reporting.
Example G-30  Offshore—Horizontal well

**Time 1**

Assume:
- Pilot hole drilled through potential pay zone and plugged back
- Single tubing string completed in horizontal portion of wellbore
- API well number of original pilot wellbore 177214031000
- API well number of horizontal wellbore 177214031001

Result:
- Zone A
- PI code S01

---

**NOTE**

*Pilot wellbore is reported as plugged and abandoned (status code 16) on the OGOR-A.*
Example G-31  Offshore—Multilateral well

**Time 1**

Assume:

- Single tubing string completed in horizontal portion of wellbore
- One completion in zone A and one completion in zone B
- The WB code of each lateral will be numbered sequentially from the original wellbore
- API well number of original pilot wellbore 177254061000
- API well number of horizontal wellbore 177254061001

Result:

Zone A in first lateral
- WB code 00
- PI code S01

Zone B in second lateral
- WB code 01
- PI code S01

**NOTE**

Both laterals are open to production. The producing interval codes of S01 are unique to each wellbore segment.
Example G-32  Offshore—Downhole splitter well

Time 1

Assume:

- Single tubing string in each wellbore completed in horizontal position of well
- Because each wellbore has separate production casing and trees at surface, API well number of each wellbore will be numbered separately
- Each splitter well has a different well name (that is, A-1 and A-2)
- API well number of the first wellbore drilled 177244201100
- API well number of horizontal wellbore 177244121100 (or next available API well number)

Result:
First wellbore
Zone A
WB code S01
Second wellbore
Zone
WB code S01