

Notice of Proposed Directive Amendments

Directive PNG011: Allowable Rate of Production - Gas Wells ***Directive PNG013: Well Data Submission Requirements***

Background

The Ministry of Energy and Resources (ER, the Ministry) is consulting with the oil and gas industry on proposed amendments to *Directive PNG011: Allowable Rate of Production - Gas Wells* and *Directive PNG013: Well Data Submission Requirements* (the amended Directives). The proposed changes aim to reorganize and update sections of the directives and introduce existing requirements from a guideline and the regulations for improved accessibility and enforceability.

The Ministry has initiated amendments to Directive PNG011 in response to industry concerns about accessing certain requirements contained in the guideline titled – *Gas Well Absolute Open Flow (AOF) Tests*. As a result, ER is proposing to relocate applicable information from the guideline to Directive PNG011. Consequently, Directive PNG013 is being amended to align with these changes.

The Process

ER is launching industry consultations on the amended Directives from March 23, 2026, to April 10, 2026. Upon conclusion of consultations, ER will review all feedback in preparation of final drafts of the amended Directives that are anticipated to come into effect in April/May 2026.

Summary of Proposed Changes

Mainly, the amended Directives aim to better communicate the requirements and process for conducting Absolute Open Flow (AOF) Tests. These requirements are currently contained in the above guideline and are being migrated to the amended Directives for improved access and to promote clarity. The following key items are being relocated:

- Existing critical AOF testing requirements for gas wells.
- Existing process of notification, submission and waiver obligations in support of conducting AOF tests.
- Existing information detailing acceptable testing methods and test design criteria for gas wells.

The following are miscellaneous changes:

- Numerous updates to the terminology used in the ‘definitions’ section of Directive PNG011 to promote consistency and better understanding.
- General reorganization and wording updates to modernize, enhance clarity and structure, and align with other related directives.
- Various reference updates, removal of duplicate information and outdated details such as logos, ER division reference, and repealed information.

Review of Draft Directive

ER is seeking written comments on the proposed amendments outlined in the side-by-side documents attached to this notice as **Appendix A** and **Appendix B**. Please direct any comments or questions about the proposed amendments to:

ER Service Desk at er.servicedesk@gov.sk.ca
Attn: Mehr Tajik

The deadline for submitting written comments is **April 10, 2026**.

Changes to Directive PNG011: Allowable Rate of Production: Gas Wells

Existing Section/Wording	New Section and Wording	Explanation of Proposed Changes
1. Introduction The Saskatchewan Ministry of Energy and Resources (ER) regulates the production of gas wells in the province in order to ensure equitable distribution of the resources and to maximize the ultimate recovery from a pool. ER achieves these objectives by assigning production limits for gas wells in the province. This Directive outlines how ER assigns production limits for gas wells, how they calculate the production limit for specific well types/locations, and how operators are to deal with underproduction and overproduction. Other requirements that are pertinent to this topic may be found in the Directive PNG007: Off Target Well Requirements. Questions concerning the requirements in this document may be directed to the ER Service Desk at 1-855-219-9373 or email at ER.servicedesk@gov.sk.ca.	1. Introduction This Directive sets out the policies and requirements of the Saskatchewan Ministry of Energy and Resources (ER) for regulating the production of gas wells in Saskatchewan. The purpose of the Directive is to ensure equitable distribution of the natural resources and to maximize the ultimate recovery from a pool. It addresses topics including the assignment of production limits, the methodology used to calculate production limits based on the well type and location and regulatory oversight related to underproduction and overproduction. Questions concerning the requirements set out in this document should be directed to the ER Service Desk at 1-855-219-9373 or email at ER.servicedesk@gov.sk.ca.	Rephrased to broadly describe the directive's purpose rather than ER's role. New wording provides more clarity and aligns with other directives. Relocated the reference to Directive PNG007 to a more appropriate location - section 1.1.
1.1 Governing Legislation The requirements outlined in this Directive are based on <i>The Oil and Gas Conservation Act</i> (OGCA) and <i>The Oil and Gas Conservation Regulations, 2012</i> (OGCR). In particular, section 17 of the OGCA provides ER with the authority to regulate the production rate of gas. Licensees should consult these documents in conjunction with this Directive. It is the responsibility of all operators, as specified in the legislation, to be aware of ER requirements and to ensure compliance with all requirements prior to and during the productive life of a well.	1.1 Governing Legislation The requirements outlined in this Directive are authorized under and supported by: • <i>The Oil and Gas Conservation Act</i> (OGCA) • <i>The Oil and Gas Conservation Regulations, 2012</i> (OGCR) • Associated Directives and Guidelines: • <i>Directive PNG006: Horizontal Oil and Gas Well Requirements</i> (Directive PNG006) • <i>Directive PNG007: Off Target Well Completion Requirements</i> (Directive PNG007) • <i>Directive PNG012: Allowable Rate of Production – Oil Wells</i> (Directive PNG012)	Updated this section to list all directives and guidelines associated with Directive PNG011. Added specific references to legislation (the OGCA and OGCR) and included reference material to horizontal gas well requirements to enhance clarity.

	• <i>Directive PNG013: Well Data Submission Requirements</i> (Directive PNG013) • <i>Directive PNG017: Measurement Requirements for Oil and Gas Operations</i> (Directive PNG017) • <i>Guideline PNG021: Determining Drainage Units and Target Areas</i> (Guideline PNG021). Clauses 17(1)(d) and (e) of the OGCA provide the minister with the authority to regulate, limit and allocate production from one or more gas wells. Subsection 33(2) of the OGCR contains regulations specific to allowable rates of gas production. For horizontal gas well requirements, refer to Directive PNG006. Other requirements that are pertinent to this topic may be found in Directive PNG007. As specified in the legislation, it is the responsibility of all operators to be aware of ER requirements and to ensure compliance prior to and during the productive life of a well.	
1.2 Definitions Absolute open flow potential: means the rate at which a gas well would produce against zero sandface backpressure as determined from a gas well test. Daily allowable (DA): means the daily allowable rate of production authorized by ER for a well completion, if an operator has applied for a rate above the minimum allowable. Drainage unit: means the area allocated to one or more well completions for the purpose of drilling and producing oil or gas. Good production practice (GPP): means production of gas from a well at a rate not governed by a defined allowable rate of production, but limited to what can be produced on the basis of technical parameters without adversely and significantly affecting the ultimate recovery of gas or the opportunity for other owners to obtain their share of production from the pool.	1.2 Definitions Absolute open flow (AOF) potential: is the rate at which a gas well would produce against zero sandface backpressure as determined from a gas well test. Daily allowable (DA): is the daily allowable rate of production authorized by ER for a well completion, if an operator has applied for a rate above the minimum allowable. Drainage unit: is the area allocated to one or more well completions for the purposes of drilling and producing. Good production practice (GPP): is production of gas from a well at a rate not governed by a defined allowable rate of production. The rate is limited to what can be produced on the basis of technical parameters without adversely and significantly affecting the ultimate recovery of gas, or the opportunity of other owners to obtain their share of production from the pool.	Added the acronym for Absolute Open Flow. Removed the reference to oil or gas in the definition of ‘Drainage Unit’ to expand scope. Revised the definition of ‘Good Production Practice (GPP)’ to improve readability and structure. Updated the verbiage in other definitions to align with modern standards and provide clarity. Removed the reference to gas in the definition of ‘On-target’ and ‘Off-target’ as the definition is not limited to gas wells only.

Monthly allowable: means the product of the DA or the minimum allowable multiplied by the number of calendar days in the month. Monthly production limit: means the product of the DA or the minimum allowable multiplied by the number of calendar days in the month that the well has produced. Off-target: means a gas well not completed within the prescribed target area of the drainage unit (see Directive PNG007 for more information on target areas and drainage units). On-target: means a gas well completed within the prescribed target area of the drainage unit. Overproduction: means the production from a gas well in excess of the monthly allowable or monthly production limit in a given month. Underproduction: means the production from a gas well less than the monthly allowable or monthly production limit in a given month.	Monthly allowable: is the product of the DA or the minimum allowable multiplied by the number of calendar days in the month. Monthly production limit: is the product of the DA or the minimum allowable multiplied by the number of calendar days in the month that the well has produced. Off-target: is a well not completed within the prescribed target area of the drainage unit (see Directive PNG007 for more information on target areas and drainage units). On-target: is a well completed within the prescribed target area of the drainage unit. Overproduction: is the production from a gas well in excess of the monthly allowable or monthly production limit in a given month. Underproduction: is the production from a gas well less than the monthly allowable or monthly production limit in a given month.	
2. Allowable Rates of Production 2.1 Minimum Allowable For gas wells that are completed on-target or off-target, ER assigns a minimum daily allowable rate of production of 10 000 m³ /d, with the exception of wells that are within a defined pool where GPP has been granted (see Guideline PNG021: Determining Drainage Units and Target Areas, available at http://publications.gov.sk.ca/documents/310/85288-Guideline PNG021- Determining Drainage Units and Target Areas March21,2017.pdf to determine the location of defined pools). The minimum allowable is applied automatically to the gas well. 2.2 Daily Allowable If an operator wishes to apply for a daily production rate that is more than the minimum allowable, they need to submit an application in the Integrated Resource Information System (IRIS). The form to use is	2. Allowable Rates of Production 2.1 Minimum Allowable For gas wells that are completed on-target or off-target, ER assigns a minimum daily allowable rate of production of 10 000 m³/d, with the exception of wells that are within a defined pool where GPP has been granted (see Guideline PNG021 for guidance on determining the location of defined pools). The minimum allowable is applied automatically to the gas well. 2.2 Daily Allowable An operator may apply for a daily production rate that is more than the minimum allowable by submitting an Application for Daily Allowable through the Integrated Resource Information System (IRIS) along with a completed <i>Application for Daily Allowable – Gas Form</i>. Once such an application is received, ER will calculate a suitable daily allowable	Removed the link in section 2.1 for consistency with other directives and better management. Reworded section 2.2 for clarity purposes and added reference to the <i>‘Application for Daily Allowable – Gas Form’</i> in Appendix 1. Removed outdated/repealed information in section 2.3 and included a reference to Directive PNG012 for ease of use.

called an <i>Application for Daily Allowable</i> and, once such an application is received, ER will calculate a suitable daily allowable production rate based on the conditions outlined in subsection 2.3, below. 2.3 Calculation of Daily Allowable When ER receives an application for a daily production rate above the minimum allowable, a suitable production rate is determined as follows: - For an on-target gas well, the daily allowable will be equal to the absolute open flow potential of the well multiplied by 20 per cent. - For an off-target gas well, the daily allowable will be equal to the absolute open flow potential of the well multiplied by 20 per cent, with the product of that calculation multiplied by the off-target penalty (see Directive PNG007 for more details on off-target penalties). If the off-target penalty has been waived by ER, the daily allowable will be the absolute open flow potential of the well multiplied by 20 per cent. The method for determining an off-target penalty is explained in section 35 of the OGCR. Some examples of the calculation are also shown in Appendix 2 of this Directive. How to apply for a waiver of off-target penalty is explained within Directive PNG007.	production rate based on the conditions outlined in subsection 2.3 below. A completed example of this form is shown in Appendix 1. 2.3 Calculation of Daily Allowable When ER receives an application for a daily production rate above the minimum allowable, a suitable production rate is determined as follows: - For an on-target gas well, the daily allowable will be equal to the absolute open flow (AOF) potential of the well multiplied by 20 per cent. - For an off-target gas well, the daily allowable will be equal to the AOF potential of the well multiplied by 20 per cent, with the product of that calculation multiplied by the off-target penalty (see Directive PNG007 for more details on off-target penalties). If the off-target penalty has been waived by ER, the daily allowable will be the AOF potential of the well multiplied by 20 per cent. The method for determining an off-target penalty, including a sample calculation, is shown in Appendix 2 of this Directive. The method for determining the net productive area for off-target wells is outlined in Appendix 2 of Directive PNG012 and the method for applying for a waiver of off-target penalty is explained in Directive PNG007.	
4. Good Production Practice 4.1 GPP Authorized in a Defined Pool If a gas well is producing from an established defined pool that has been granted GPP rates of daily production, then the producer must follow those production guidelines, unless otherwise instructed by ER. No application for a daily allowable rate of production is necessary for these types of wells.	4. Good Production Practice 4.1 Good Production Practice Authorized in a Defined Pool If a gas well is producing from an established defined pool that has been granted GPP rates of daily production, then the producer must follow those production guidelines, unless otherwise instructed by ER. No application for a daily allowable rate of production is necessary for these types of wells.	Replaced the ‘GPP’ acronym in section 4.1 with the complete wording for clarity.
N/A - NEW	7. Absolute Open Flow Test With the exception of wells completed in the Milk River or Medicine Hat Sand, all gas wells must be deliverability tested with an approved method within 30 days	Introduced section 7 to improve the ease of locating these mandatory requirements which are currently contained in a separate unnumbered

	after any completion, stimulation, reconditioning or recompletion. The approved test methods are the 4-point isochronal test or the modified isochronal test. Milk River or Medicine Hat gas wells must be flow tested by means of a single point flow test with a minimum flow time of 48 hours. This testing requirement should be specified in the gas pool Minister's Order. A test may be required to verify the stabilized flow capability of a gas well after the first year of production using an approved method. For any variation from the requirements and restrictions listed above, a Well Test application must be submitted through IRIS for approval prior to conducting the test. See Appendix 3 for guidance on the acceptable testing methods. 7.1 Notification The operator must inform the appropriate field office at least 24 hours in advance of the test, providing details of the proposed test. As per <i>The Oil and Gas Tenure Registry Regulations</i>, ER must be notified and permission must be obtained to test any fluids out of a well that is on Crown permit lands. To request permission to test, email the ER Service Desk at er.servicedesk@gov.sk.ca a minimum of seven days prior to the test commencing. 7.2 Information to be Submitted A 4-point isochronal or modified isochronal test must be conducted. Additionally, the resultant test data must be submitted to ER, in accordance with Directive PNG013. All gas produced during the test must be accurately metered and flared. ER supports in-line testing of gas wells. For further details on submission requirements, refer to Directive PNG013. For gas reporting requirements, refer to Directive PNG017. 7.3 Waiver and Extension of the Absolute Open Flow Test	guideline - 'Gas Well Absolute Open Flow Tests'. Additionally, the migrated requirements are appropriately suited to a directive, not a guideline. New subsections (7.1, 7.2 and 7.3) were also introduced from migrated guideline content to clearly communicate AOF test notification, submission and waiver obligations for operators. This will enhance accessibility, clarity and structure within the document.
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	A waiver may be requested, through IRIS, to either extend the 30-day timeframe for completing an AOF Test or fully waive the AOF testing requirement. The request will be considered and must include detailed rationale and any technical supporting documentation. If an extension is granted, the 30-day deadline will be adjusted to the requested date, allowing the test to be performed later. If a full waiver is granted, the obligation to perform the AOF test will be completely removed. A waiver of the AOF test is rarely issued. If circumstances arise that make it difficult to perform the test within the 30-day period, an application may be submitted to extend the timeframe. If circumstances arise that make it difficult to perform the test, an application may be submitted to waive the AOF test requirement. Expenditures are not a valid reason to apply for a waiver. Additionally, section 7 of this Directive does not apply to wells in reservoirs used for gas storage, unless otherwise ordered by the minister.	
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Appendix 1: Example of a
Completed Application
Form: *Daily Allowable for
Gas*

 **APPLICATION FOR DAILY ALLOWABLE** Petroleum and Natural Gas Division

Part I - GENERAL INFORMATION

BOTTOM HOLE LOCATION **SURFACE LOCATION**

LSD	SEC	TWP	RGE	M
7	21	0	32	21
W				3

LSD	SEC	TWP	RGE	M
7	21	0	32	21
W				3

LICENCE NUMBER: 01A234

Pool Name: Dodsland North Viking Gas Pool Pool Code: 227322

Pay Interval: 676 - 679, 680 - 682.5 mKB Contact Intervals: 676 - 679 mKB

Assigned Area:
Legal description of Drainage Unit (D.U.): S/2 21-032-21 W3M

Number of Legal Subdivisions in D.U.: 8 Actual Number of hectares in D.U.: 129.5

Have you mineral leases for entire D.U.: ☒ yes ☐ no you pooling agreements for entire D.U.: ☐ N.A. ☒ yes ☐ no

Test Data:
Date: 11 1 2015 Type: ☐ 4-Point Isochronal ☒ 4-Point Modified Isochronal Other:
mm dd yyyy

Absolute Open Flow Capacity: 75 10³m³/d Daily Allowable Applied for: 15 10³m³/d

Part II - REQUIRED ATTACHMENTS

☒ Portion of well logs showing pool, pay, and contact intervals
☒ Gas Well Test in accordance to Section 79 of *The Oil and Gas Conservation Regulations, 2012*

Part III - APPLICANT INFORMATION AND DECLARATION

Applicant Name: ☒ Mr. ☐ Ms. John Smith
Telephone: 306-123-4567 ext. Email Address: test@ABCPet.com
Company Name: ABC Petroleum Inc.
Company Address: 123 Test St., Regina, SK

By signing below, I hereby certify that the application form and required attachments are complete and accurate. Furthermore, I acknowledge that the Ministry of the Economy may reject the application and that I may be required to resubmit a new application.

Signature of Applicant: Date: 11 19 2015
mm dd yyyy

Part IV - SUBMISSION OF APPLICATION

Submit the application electronically, in PDF file format, via the Ministry of the Economy's Integrated Resource Information System (IRIS) at www.saskatchewan.ca/IRIS. IRIS is an online business system that supports the development and regulation of Saskatchewan's energy and resources industry. Through IRIS, the oil and gas industry completes regularly performed business activities and regulatory tasks with the province online.

(for ministry use only)

Test Data:
Date: mm dd yyyy Type: ☐ 4-Point Isochronal ☐ 4-Point Modified Isochronal Other:
mm dd yyyy

Absolute Open Flow Capacity: 10³m³/d First Production Date: mm dd yyyy

Daily Allowable Calculation: ☐ AOF X 20% X OTW Penalty Factor ☐ AOF X 20% Other:
Remarks:
Pool Name: Pool Code:
Effective Date: mm dd yyyy Date of Issue: mm dd yyyy Authorized DA: 10³m³/d
Reviewed by: Authorized by:

Appendix 1: Example of a
Completed Application Form:
Daily Allowable for Gas

 **APPLICATION FOR DAILY ALLOWABLE - GAS** Energy Regulation Division

Part I - GENERAL INFORMATION

BOTTOM HOLE LOCATION **SURFACE LOCATION**

LSD	SEC	TWP	RGE	M
7	21	0	32	21
W				3

LSD	SEC	TWP	RGE	M
7	21	0	32	21
W				3

LICENCE NUMBER: 01A234

Pool Name: Dodsland North Viking Gas Pool Pool Code: 227322

Pay Interval: 676 - 679, 680 - 682.5 mKB Contact Intervals: 676 - 679 mKB

Assigned Area:
Legal description of Drainage Unit (D.U.): S/2 21-032-21 W3M

Number of Legal Subdivisions in D.U.: 8 Actual Number of hectares in D.U.: 129.5

Have you mineral leases for entire D.U.: ☒ yes ☐ no Have you pooling agreements for entire D.U.: ☐ N.A. ☒ yes ☐ no

Test Data:
Date: 11 1 2025 Type: ☐ 4-Point Isochronal ☒ 4-Point Modified Isochronal Other:
mm dd yyyy

Absolute Open Flow Capacity: 75 10³m³/d Daily Allowable Applied for: 15 10³m³/d

Part II - REQUIRED ATTACHMENTS

☒ Portion of well logs showing pool, pay, and contact intervals
☒ Gas Well Test in accordance to Section 79 of *The Oil and Gas Conservation Regulations, 2012*

Part III - APPLICANT INFORMATION AND DECLARATION

Applicant Name: ☒ Mr. ☐ Ms. John Smith
Telephone # 306-123-4567 ext. Email Address: test@ABCPet.com
Company Name: ABC Petroleum Inc.
Company Address: 123 Test St., Regina, SK

By signing below, I hereby certify that the application form and required attachments are complete and accurate. Furthermore, I acknowledge that the Ministry of the Energy and Resources may reject the application and that I may be required to resubmit a new application.

Signature of Applicant: Date: 11 19 2025
mm dd yyyy

Part IV - SUBMISSION OF APPLICATION

Submit the application electronically, in PDF file format, via the Ministry of the Energy and Resources Integrated Resource Information System (IRIS) at www.saskatchewan.ca/IRIS. IRIS is an online business system that supports the development and regulation of Saskatchewan's energy and resources industry. Through IRIS, the oil and gas industry completes regularly performed business activities and regulatory tasks with the province online.

(for ministry use only)

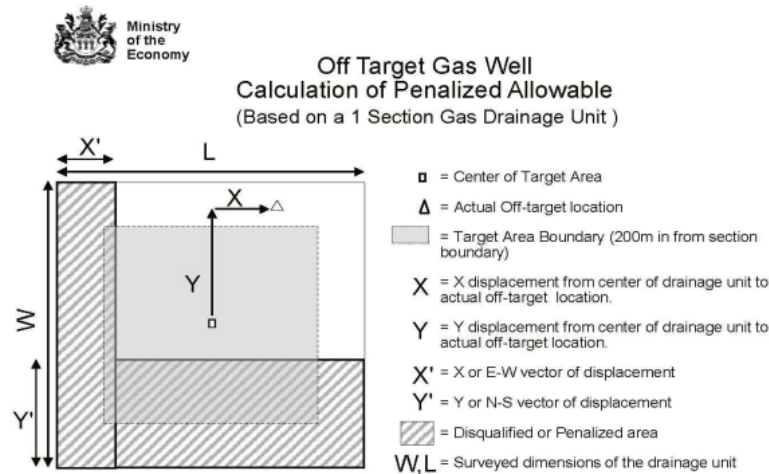
Test Data:
Date: mm dd yyyy Type: ☐ 4-Point Isochronal ☐ 4-Point Modified Isochronal Other:
mm dd yyyy

Absolute Open Flow Capacity: 10³m³/d First Production Date: mm dd yyyy

Daily Allowable Calculation: ☐ AOF X 20% X OTW Penalty Factor ☐ AOF X 20% Other:
Remarks:
Pool Name: Pool Code:
Effective Date: mm dd yyyy Date of Issue: mm dd yyyy Authorized DA: 10³m³/d
Reviewed by: Authorized by:

Updated the application form example to reflect the current Government of Saskatchewan logo and division information.

Appendix 2: Example
Calculations for Daily
Allowable for Gas Wells
Subject to Off-Target
Penalties



GAS:

Penalized Daily Allowable = Sandface AOF x 20% x Penalty Factor

* note: minimum allowable assigned is 10 x10³m³

where: Penalty Factor = ((Qualified or Unpenalized Area) / Total Area))

Unpenalized Area = (L - X') x (W - Y')

Total Area = W * L or the area of drainage unit

SAMPLE PENALTY FACTOR CALCULATION:

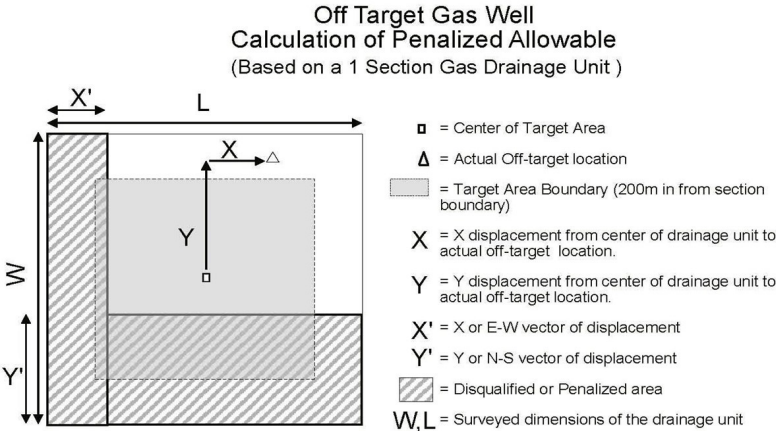
Off target well co-ordinates: 510.0 m West and 100.0 m South

If L=1609.2 m and W=1609.2 m, then X'=294.6 m and Y'=704.6 m

Penalty Factor = [(1609.2 - 294.6) X (1609.2 - 704.6)] / (1609.2 X 1609.2)

Penalty Factor = (1314.6 x 904.6) / 2589524.6 = 0.459

Appendix 2: Example
Calculations for Daily
Allowable for Gas Wells
Subject to Off-Target
Penalties



GAS:

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* note: minimum allowable assigned is 10 x10³m³

where: Penalty Factor = ((Qualified or Unpenalized Area) / Total Area))

Unpenalized Area = (L - X') x (W - Y')

Total Area = W * L or the area of drainage unit

SAMPLE PENALTY FACTOR CALCULATION:

Off target well co-ordinates: 510.0 m West and 100.0 m South

If L=1609.2 m and W=1609.2 m, then X'=294.6 m and Y'=704.6 m

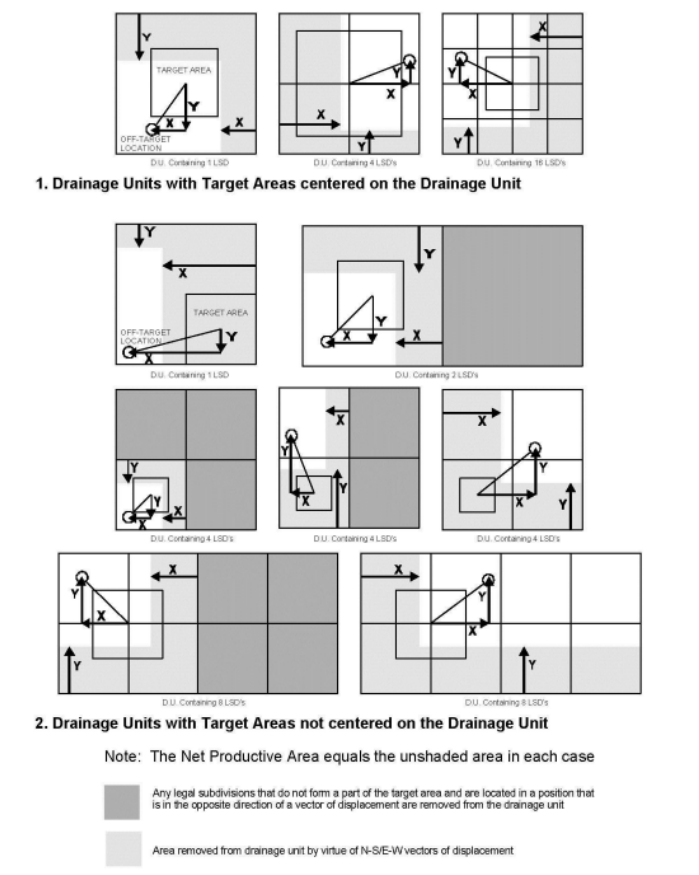
Penalty Factor = [(1609.2 - 294.6) X (1609.2 - 704.6)] / (1609.2 X 1609.2)

Penalty Factor = (1314.6 x 904.6) / 2589524.6 = 0.459

Removed the outdated 'Ministry of the Economy' logo from top left.

Appendix 3: Examples of Establishing Net Productive Area for Off-Target Wells

OIL AND GAS CONSERVATION
Illustration of Principle for Establishing Net Productive Area for Off-target Wells
(Section 30 of THE OIL AND GAS CONSERVATION REGULATIONS, 1985)



N/A - NEW

Appendix 3: Acceptable Absolute Open Flow (AOF) Testing Methods

Acceptable Testing Methods

The approved test methods are the 4-point isochronal test or the modified isochronal test. The test is a measure of the stabilized

Removed the illustration in Appendix 3 as it is already contained in Directive PNG012 with further detail and clarification. A reference to Directive PNG012 was provided in Section 2.3 of this directive.

Migrated from the AOF guideline which was harder for operators to locate. Moving these requirements into Appendix 3 of Directive PNG011 provides a clear, dedicated section for technical standards without cluttering

	bottomhole flowing pressure and flow rate under stabilized operating conditions, followed by measurement of the reservoir pressure from a pressure buildup survey. Under certain conditions, an acceptable AOF testing method may be approved if an accurate estimate of the well's deliverability under stabilized conditions is obtained. A gas fluid analysis should normally be carried out on each separate gas reservoir and the analysis should accompany the test results. Refer to Directive PNG013 for fluid analysis requirements. Extended flow periods shall not exceed 72 hours unless otherwise approved by ER. The maximum volume of produced and flared gas during the test is 500 thousand cubic metres (17.7 mmcf). Approval by ER is required for all tests involving variation from the requirements and restrictions listed above. Any such requests must be in writing, outlining the proposed test program in detail. Other test methods such as a single point test must be approved on a well-by-well basis and will only be considered for wells with poor deliverability for which flow stabilization times would be excessive or for re-testing of wells where an approved test has been previously conducted. <u>Test Design Criteria</u> It is the operator's responsibility to design and conduct individual isochronal well tests so that an accurate estimate of open flow potential may be calculated. Isochronal flow periods must be of sufficient duration to eliminate wellbore storage effects. The extended flow period must be of sufficient duration to allow for stabilization of the flow rate. ER may require the re-testing of a gas well if the test results are determined to be invalid.	the main directive text. Additionally, the directive main text focuses on regulatory obligations and compliance processes, while the appendices house detailed engineering criteria; this separation improves clarity and readability for both regulatory and technical audiences. Lastly, the new design criteria are to eliminate confusion and ensure clarity as well as accurate and valid test results.
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Consequential Changes to *Directive PNG013: Well Data Submission Requirements*

Existing Section/Wording	New Section and Wording	Explanation of Proposed Changes
8.2 Gas Test The licensee must submit to ER, through IRIS, the 4 Point Isochronal or modified Isochronal tests within 30 days of the test being performed. Refer to Directive PNG017 for a complete list of gas reporting requirements.	8.2 Gas Test The licensee must submit to ER, through IRIS, the 4 Point Isochronal or modified Isochronal tests within 30 days of the test being performed. The test results submitted must include a complete analysis, testing method used, raw production and pressure data, field notes, interpretation of the results, and a graph of the sandface deliverability. Refer to Directive PNG011 for more information on when this type of gas test must be conducted. Refer to Directive PNG017 for an additional list of gas sampling and analysis requirements.	Revised to incorporate existing submission requirements from the Guideline: Gas Well Absolute Open Flow Tests. This will provide more direction and enhance clarity for operators. Added a reference to Directive PNG011 to provide more direction on gas tests. Updated the Directive PNG017 reference to specify 'sampling and analysis'.
8.4 Fluid Analysis The licensee must submit to ER, through IRIS, the following information within 30 days of the analysis being performed with respect to any fluid analysis test conducted at the facility or well: • test date; • origin of the sample that has been analyzed; • the fluid analysis document containing all test and analysis results; • test type; • sampling pressure; and • specific data elements required. Refer to Directive PNG017 for additional information regarding oil and gas analysis requirements.	8.4 Fluid Analysis The licensee must submit to ER, through IRIS, the following information within 30 days of the analysis being performed with respect to any fluid analysis test conducted at the facility or well: • test date; • origin of the sample that has been analyzed; • the fluid analysis document containing all test and analysis results; • test type; • sampling pressure; and • specific data elements required. Refer to Directive PNG017 for additional information regarding oil and gas sampling and analysis requirements.	Updated the Directive PNG017 reference to specify 'sampling and analysis'.