Form 3160-5 (March 2012)

# **UNITED STATES** DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

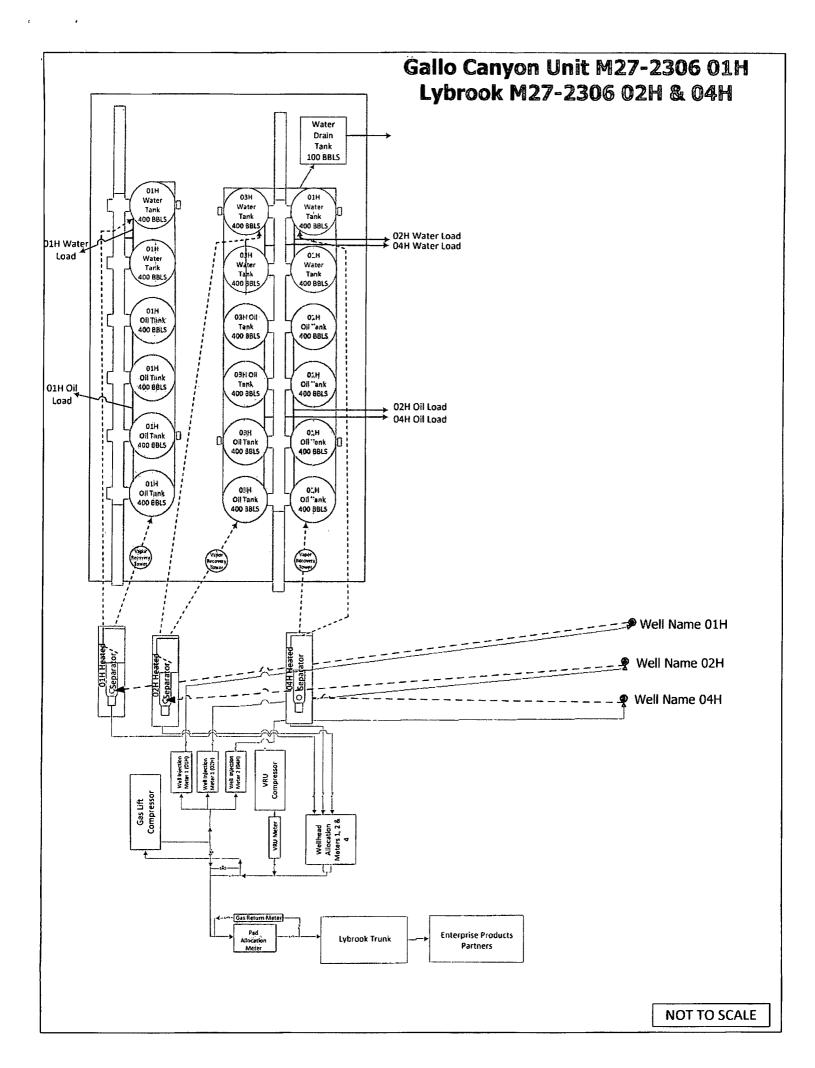
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FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2014

5. Lease Serial No.

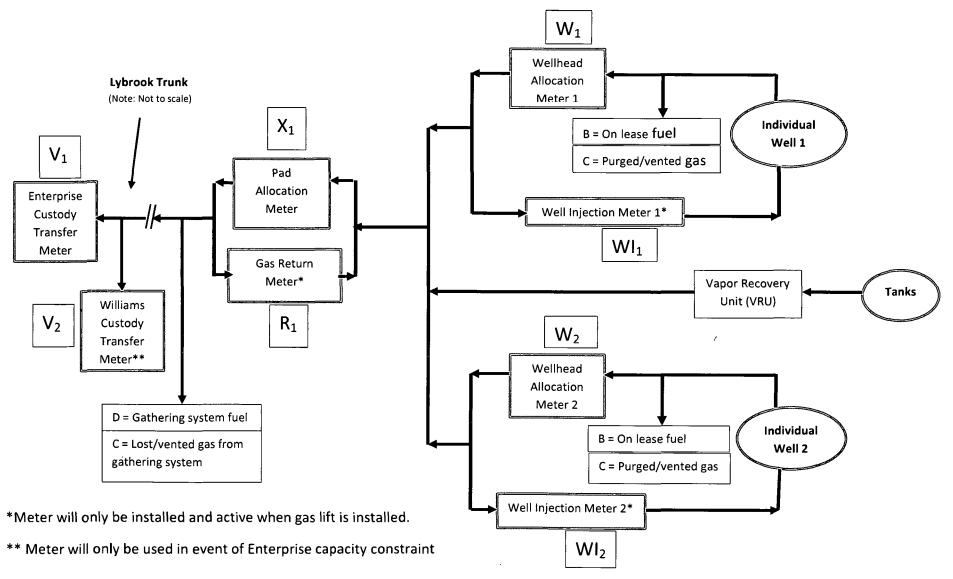
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| SUNDRY NOTICES AND REPORTS ON WELLS  | 16. |
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| shandaned wall. Hen Form 2160 2 (ADD) for each proposals   | ''  |

| SUNDRY NOT<br>Do not use this form<br>abandoned well. Us  | TICES AND REPO<br>on for proposals to<br>e Form 3160-3 (A | to drill or to       | re-enter an                                    | ة دمياسي   | າα ໂປເອ  | 6gIf,Indian,IAllottee  | or Tril  | be Name   |  |  |  |
|---|---|----------------------|--|------------|--|--|----------|---|--|--|--|
| SUBMIT IN TRIPLICATE - Other instructions on page 2.  |   |                      |  |            |  | 7. If Unit of CA/Agreement, Name and/or No.                      |          |   |  |  |  |
| I. Type of Well   |   |                      |  |            |  | - N/A  |          |   |  |  |  |
| Oil Well Gas Well Other   |   |                      |  |            |  | 8. Well Name and No.<br>Gallo Canyon Unit M27-2306 01H           |          |   |  |  |  |
| 2. Name of Operator<br>Encana Oil & Gas (USA) Inc.  |   |                      |  |            |  | 9. API Well No.<br>30-043-21179                                  |          |   |  |  |  |
| 3a. Address       3b. Phone No. (include area code)         370 17th Street, Suite 1700 Denver, CO 80202       720-876-5867                                       |   |                      |  |            | 10. Field and Pool or Exploratory Area<br>Counselors Gallup/Dakota |  |          |   |  |  |  |
| 4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SHL: Sec 27, T23N, R6W 990' FSL and 186' FWL BHL: Sec 35, T23N, R6W 359' FSL and 324' FWL    |   |                      |  |            |  | 11. County or Parish, State<br>Sandoval County, NM               |          |   |  |  |  |
| 12. CHECK T   | HE APPROPRIATE BO   | OX(ES) TO IND        | CATE NATURE                                    | E OF       | NOTIC  | E, REPORT OR OTH   | IER D    | DATA  |  |  |  |
| TYPE OF SUBMISSION  | TYPE OF SUBMISSION TYPE OF ACTI                           |                      |  |            |  |  |          | ION   |  |  |  |
| Notice of Intent  Subsequent Report   | Acidize Alter Casing Casing Repair Change Plans           | New 0                | en<br>are Treat<br>Construction<br>and Abandon |            | Recla  | roduction (Start/Resume) eclamation ecomplete emporarily Abandon |          | Water Shut-Off  Well Integrity  ✓ Other  Installation of Gas Lift |  |  |  |
| Final Abandonment Notice  | Convert to Injection                                      |                      |  | Ė          | _ `  | r Disposal   |          |   |  |  |  |
| testing has been completed. Final Aba determined that the site is ready for fin Encana Oil & Gas (USA) Inc. is request gas lift and the gas allocation procedure. | al inspection.)<br>ting authorization to in:<br>∋.        | stall gas lift at tl |  |            |  | .2306 01H well. Atta   | iched    | -   |  |  |  |
| 14. I hereby certify that the foregoing is true   | and correct. Name (Printe                                 | ed/Typed)            |  |            |  |  |          |   |  |  |  |
| Cristi Bauer  |   |                      | Title Operatio                                 | ns T       | Technici   | an   |          | · Warren  |  |  |  |
| Signature UFF B   | AUGR  |                      | Date 05/30/20                                  | 05/30/2014 |  |  |          |   |  |  |  |
|   | THIS SPACE  | FOR FEDE             | RAL OR ST                                      | ΑT         | E OFF  | ICE USE  |          |   |  |  |  |
| Approved by  Conditions of approval, if any are attached that the applicant holds legal or equitable title  | to those rights in the subje                              | es not warrant or c  | Title ertify old Office                        | \<br>      | }tr.   | Eng.   | Date     | 6/17/14   |  |  |  |
| entitle the applicant to conduct operations ther Title 18 U.S.C. Section 1001 and Title 43 U.S. fictitious or fraudulent statements or represen                   | .C. Section 1212, make it                                 |                      |  | nd w       | villfully to   | o make to any departme   | ent or a | ngency of the United States any false,                            |  |  |  |



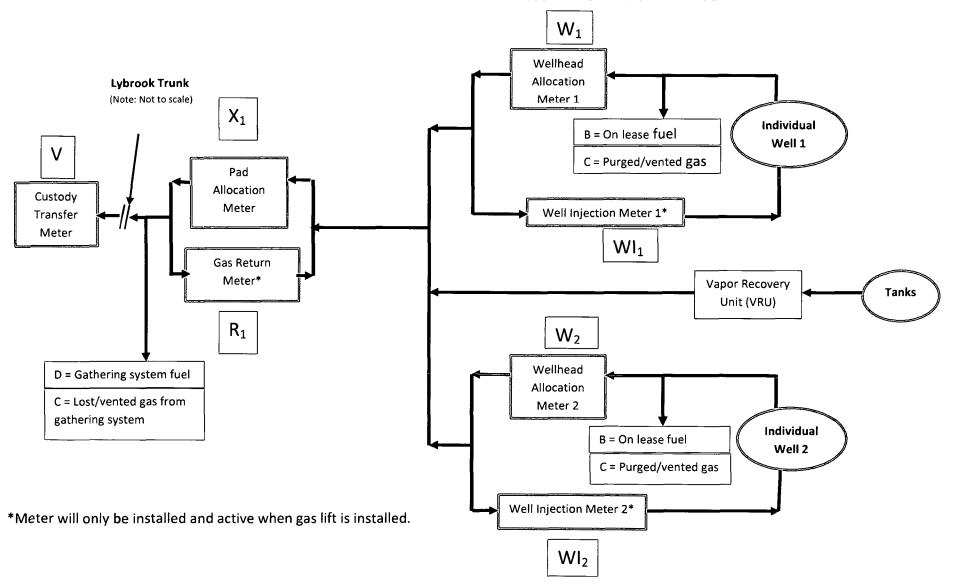
Attachment No. 5
Encana Oil & Gas (USA) Inc.
Lybrook Trunk Line #1, Gathering System
San Juan County, New Mexico
Amendment Dated May 15, 2014

# Gas Measurement Allocation Procedure for Multi-Well Pads



Attachment No. 5 Encana Oil & Gas (USA) Inc. Lybrook Trunk Line #1, Gathering System Sandoval County, New Mexico Amendment Dated May 15, 2014

# Gas Measurement Allocation Procedure for Multi-Well Pads



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#### **Base Data:**

V = Gas Volume (MCF) from Custody Transfer Meter during allocation period (Enterprise Products Partners)

 $X_x$  = Gas Volume (MCF) from Pad Allocation Meter during allocation period. (Encana)

R<sub>x</sub> = Gas Volume (MCF) from Gas Return Meter at Well Pad (Encana)\*

 $(X_x - R_x) = Gas Volume (MCF)$  for total Well Pad Production (Encana)

W<sub>x</sub> = Gas Volume (MCF) from Wellhead Allocation Meter at individual wells during allocation period. (Encana)

WI<sub>x</sub> = Gas Volume (MCF) from Well Injection Meter at individual wells during allocation period. (Encana)\*

Y = Heating Value (BTU/scf) from Custody Transfer Meter during allocation period. (Enterprise Products Partners)

Z = Heating Value (BTU/scf) from individual Wellhead Allocation Meter and Well Injection Meter. (Encana)

Allocation Period is typically a calendar month and will be the same for all Well Pads and individual wells.

### Well Pad Gas Production = A + B + C + D + E

A = Allocated Gas production off lease for Well Pad, MCF:  $[(X_1-R_1)/((X_1-R_1)+(X_2-R_2)+(X_n-R_n))]*(V)$ 

Please note, gas production (MCF) for individual wells on a Well Pad is calculated using the formula:  $[(W_1-WI_1)/((W_1-WI_1)+(W_2-WI_2)+(W_n-WI_n))]*(X_1-R_1)$ 

B = On lease fuel usage, MCF. Determined from equipment specification and operating conditions. This includes, but is not limited to, compression, vapor recovery unit (VRU) compression, burners, and pump jacks.

C = Lost and/or vented gas from well and/or lease equipment, MCF. Calculated using equipment and piping specifications and operating pressures.

D = Allocated fuel from gathering system equipment, MCF. The total fuel required to operate gathering system equipment will be allocated to the Well Pads benefiting from the equipment using allocation factors determined by  $[(X_1-R_1)/((X_1-R_1)+(X_2-R_2)+(X_n-R_n))]$  and for individual wells using allocation factors determined by  $[(W_1-WI_1)/((W_1-WI_1)+(W_2-WI_2)+(W_n-WI_n))]$ .

Attachment No. 5 Encana Oil & Gas (USA) Inc. Lybrook Trunk Line #1, Gathering System Sandoval County, New Mexico Amendment Dated May 15, 2014

E = Allocated volume of gas lost and/or vented from the gathering system, gathering system equipment, condensate collection, and water collection in MCF. The total volume will be determined using industry accepted procedures the time of the loss. The total volumes lost and/or vented will be allocated to the Well Pads affected using factors determined by  $[(X_1-R_1)/((X_1-R_1)+(X_2-R_2)+(X_n-R_n))]$ , and for individual wells using factors determined by  $[(W_1-WI_1)/((W_1-WI_1)+(W_2-WI_2)+(W_n-WI_n))]$ .

Individual Well BTU's =  $[[{(W_n-WI_n)*Z_n}/{SUM((W_n-WI_n)*Z_n)}]*(V*Y)*1000]$ Individual well gas heating values to be determined in accordance with BLM regulations.

# Attachment No. 5 Encana Oil & Gas (USA) Inc. Lybrook Trunk Line #1, Gathering System San Juan County, New Mexico Amendment Dated May 15, 2014

# **Base Data:**

 $V_1$  = Gas Volume (MCF) from Custody Transfer Meter during allocation period (Enterprise)

V<sub>2</sub> = Gas Volume (MCF) from Custody Transfer Meter during allocation period (Williams)

 $X_x$  = Gas Volume (MCF) from Pad Allocation Meter during allocation period. (Encana)

R<sub>x</sub> = Gas Volume (MCF) from Gas Return Meter at Well Pad (Encana)\*

 $(X_x - R_x) = Gas Volume (MCF) for total Well Pad Production (Encana)$ 

 $W_x$  = Gas Volume (MCF) from Wellhead Allocation Meter at individual wells during allocation period. (Encana)

WI<sub>x</sub> = Gas Volume (MCF) from Well Injection Meter at individual wells during allocation period. (Encana)\*

 $Y_1$  = Heating Value (BTU/scf) from Custody Transfer Meter during allocation period. (Enterprise)

Y<sub>2</sub> = Heating Value (BTU/scf) from Custody Transfer Meter during allocation period. (Williams)

Z = Heating Value (BTU/scf) from individual Wellhead Allocation Meter and Well Injection Meter. (Encana)

Allocation Period is typically a calendar month and will be the same for all Well Pads and individual wells.

# Well Pad Gas Production = A + B + C + D + E

A = Allocated Gas production off lease for Well Pad, MCF:  $[(X_1-R_1)/((X_1-R_1)+(X_2-R_2)+(X_n-R_n))]*(V_1+V_2)$ 

Please note, gas production (MCF) for individual wells on a Well Pad is calculated using the formula:  $[(W_1-WI_1)/((W_1-WI_1)+(W_2-WI_2)+(W_n-WI_n))]*(X_1-R_1)$ 

B = On lease fuel usage, MCF. Determined from equipment specification and operating conditions. This includes, but is not limited to, compression, vapor recovery unit (VRU) compression, burners, and pump jacks.

C = Lost and/or vented gas from well and/or lease equipment, MCF. Calculated using equipment and piping specifications and operating pressures.

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D = Allocated fuel from gathering system equipment, MCF. The total fuel required to operate gathering system equipment will be allocated to the Well Pads benefiting from the equipment using allocation factors determined by  $[(X_1-R_1)/((X_1-R_1)+(X_2-R_2)+(X_n-R_n))]$  and for individual wells using allocation factors determined by  $[(W_1-WI_1)/((W_1-WI_1)+(W_2-WI_2)+(W_n-WI_n))]$ .

E = Allocated volume of gas lost and/or vented from the gathering system, gathering system equipment, condensate collection, and water collection in MCF. The total volume will be determined using industry accepted procedures the time of the loss. The total volumes lost and/or vented will be allocated to the Well Pads affected using factors determined by  $[(X_1-R_1)/((X_1-R_1)+(X_2-R_2)+(X_n-R_n))]$ , and for individual wells using factors determined by  $[(W_1-WI_1)/((W_1-WI_1)+(W_2-WI_2)+(W_n-WI_n))]$ .

Individual Well BTU's =  $[[{(W_n-WI_n)*Z_n}/{SUM((W_n-WI_n)*Z_n)}]*(V_1*Y_1+V_2*Y_2)*1000]$ Individual well gas heating values to be determined in accordance with BLM regulations.