Form 3160-5 (August 2007)

1. Type of Well

3a. Address

370 17th Street, Suite 1700 Denver, CO 80202

Oil Well

BHL: 330'FSL and 2050'FWL Sec 33, T23N, R6W

2. Name of Operator Encana Oil & Gas (USA) Inc.

Gas Well

Location of Well (Footage, Sec., T., R., M., or Survey Description) L: 340' FSL and 1295' FWL Sec 28, T23N, R6W

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

	OMB No. 1004-013			
-	Expires: July 31, 201			
5. Lease Serial No. NMNM 112953				

SUNDRY NOTICES AND REPORTS ON WELLS

Other

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2.

	6. If Indian, Allottee or Tribe Name
7753	<u>N/A</u>
; \.\.\.\	(益;戶)
المستعدد	7. If Unit of CA/Agreement, Name and/or No.
1 201	N/A
	8. Well Name and No.
7 4 .	<u>"Ļу</u> brook M28-2306 ОЗН
, G. C.	94APEWell No.
Junkin	30-043-21194
	10. Field and Pool or Exploratory Area
	Lybrook Gallup
	11. Country or Parish, State
	Sandoval, New Mexico

12 _. CHEC	K THE APPROPRIATE BOX	(ES) TO INDICATE NATUR	RE OF NOTICE, REPORT OR OTHI	ER DAȚA
TYPE OF SUBMISSION	TYPE OF ACTION			
Notice of Intent	Acidize Alter Casing Casing Repair	Deepen Fracture Treat New Construction	Production (Start/Resume) Reclamation Recomplete	Water Shut-Off Well Integrity ✓ Other
Subsequent Report Final Abandonment Notice	Change Plans Convert to Injection	Plug and Abandon Plug Back	Temporarily Abandon Water Disposal	Installation of Gas Lift

3b. Phone No. (include area code)

720-876-5867

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

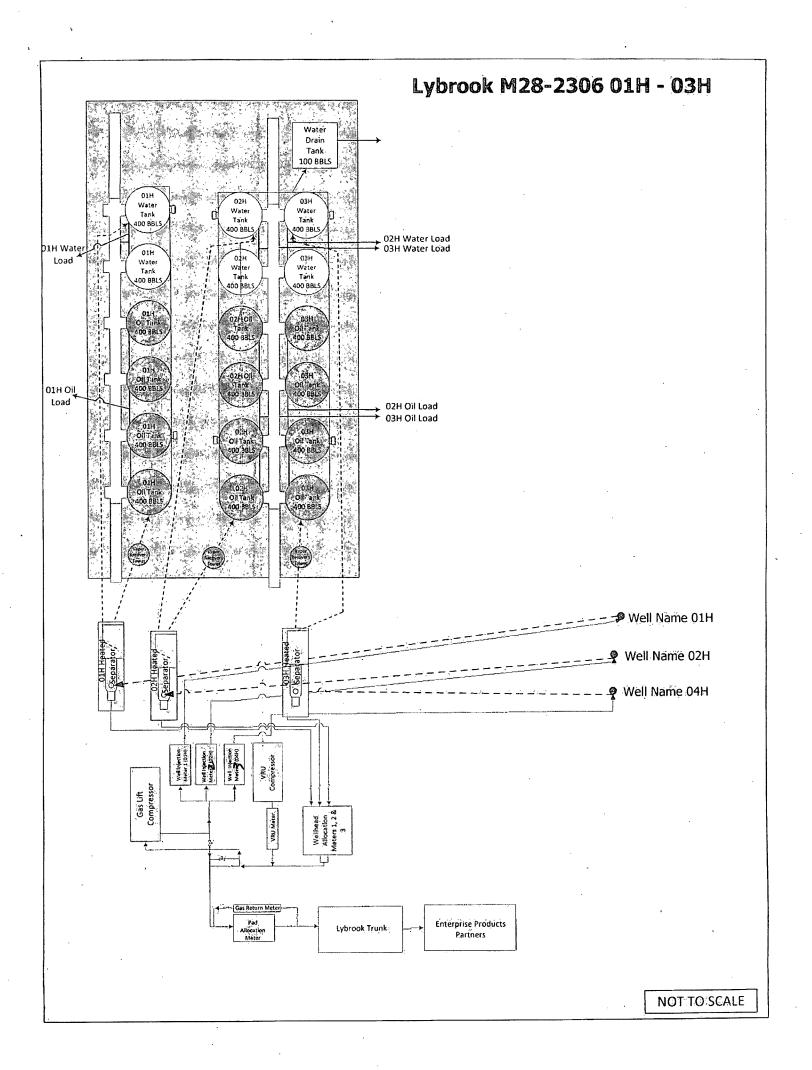
Encana Oil & Gas (USA) Inc. is requesting authorization to install gas lift at the Lybrook M28-2306 03H well. Attached is a schematic of the pad with gas lift and the gas allocation procedure.

RCVD SEP 8'14 OIL CONS. DIV.

DIST. 3

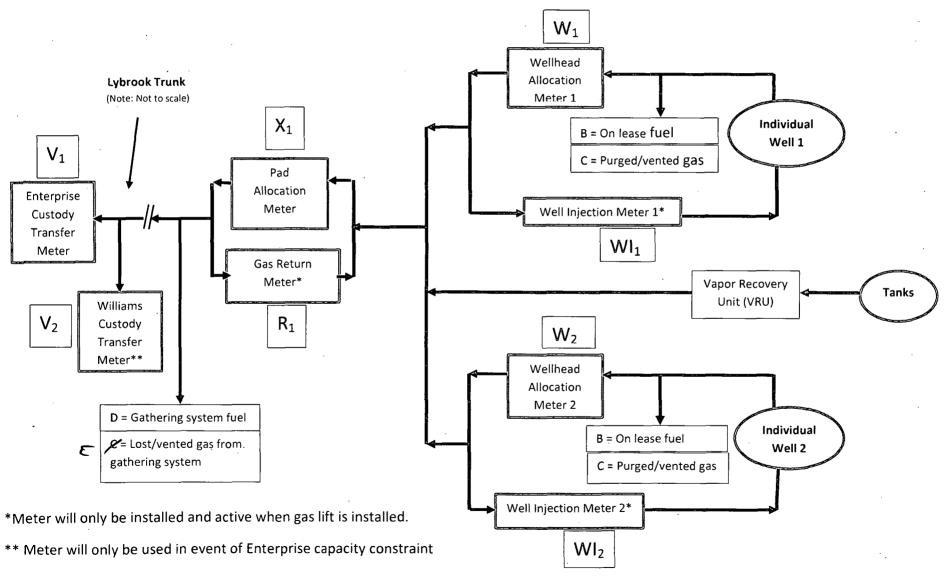
SEE ATTACKED FOR ADDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Cristi Bauer Tit	tle Operations Technologist
0.024.24	C/ - / · · /
Signature CREST DALLER Da	de 8/20/14
THIS SPACE FOR FEDERA	AL OR STATE OFFICE USE
Approved by	Title Petr. Enc Date 9/5/14
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certife that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office



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 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_2 = 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_x = 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_x = Gas Volume (MCF) from Well Injection Meter at individual wells during allocation period. (Encana)*

Y₁ = Heating Value (BTU/scf) from Custody Transfer Meter during allocation period. (Enterprise)

 Y_2 = 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.

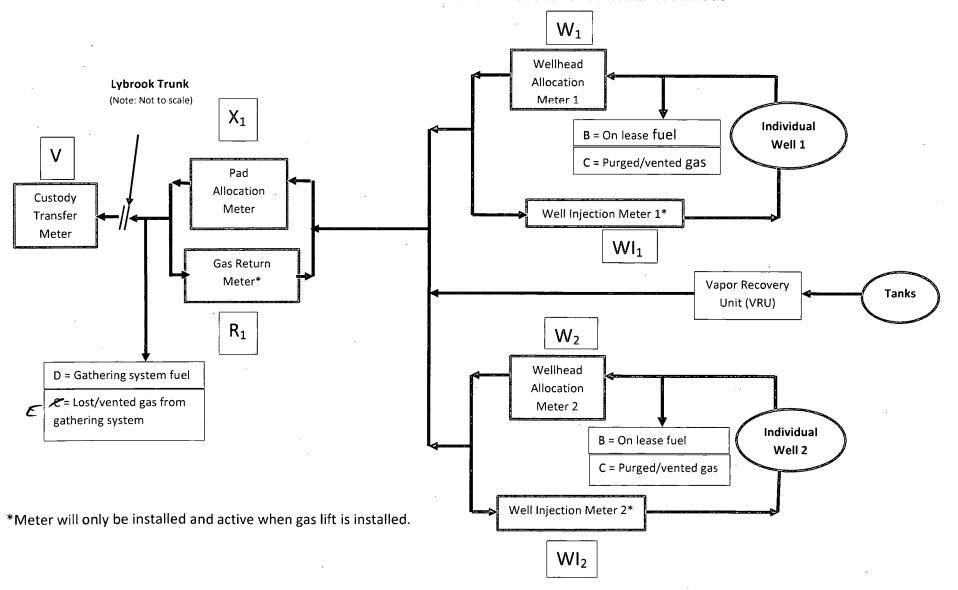
Attachment No. 5
Encana Oil & Gas (USA) Inc.
Lybrook Trunk Line #1, Gathering System
San Juan County, New Mexico
Amendment Dated May 15, 2014

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. 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



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

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_x = 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_x = 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.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Farmington Field Office 6252 College Blvd., Suite A Farmington, New Mexico 87402

IN REPLY REFER TO:

CONDITIONS OF APPROVAL FOR GAS LIFT & BUY BACK METER INSTALLATIONS:

• The buy-back meter isolation valve, either up or down stream of the buy-back meter must be effectively sealed in the closed position to prevent produced gas from potentially by-passing the measurement and sales meter. In lieu of the seal requirement at least two check valves can be installed in line with the buy-back meter to prevent produced gas from potentially by-passing the measurement and sales meter.

Contact this office so a BLM witness verify installation of either the seal or check valves.

- If seals are installed, seal records must be maintained and made available upon request.
 - Post a Facility sign that Clearly identifies <u>both</u> the sales and byback meters.