

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

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

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.  
NM 55836

6. If Indian, Allottee or Tribe Name  
N/A

**SUBMIT IN TRIPLICATE** - Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

FEB 13 2015

7. If Unit of CA/Agreement, Name and/or No.  
N/A

8. Well Name and No.  
Lybrook H04-2208 01H

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

9. API Well No.  
30-045-35328

3a. Address  
370 17th Street, Suite 1700  
Denver, CO 80202

3b. Phone No. (include area code)  
720-876-3926

10. Field and Pool or Exploratory Area  
Basin Mancos

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SHL: 1980' FNL and 330' FEL Sec 4, T22N, R8W  
BHL: 1980' FNL and 330' FWL Sec 4, T22N, R8W

11. Country or Parish, State  
San Juan, NM

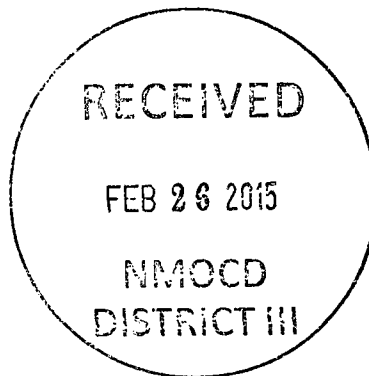
12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Installation of
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Gas Lift
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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 recompleate 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 recompleation 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 H04-2208 01H well. Attached is a schematic of the pad with the gas lift and the gas allocation procedure.

**CONDITIONS OF APPROVAL**  
Adhere to previously issued stipulations



**BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS**

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)  
Jessica Gregg

Title Regulatory Analyst

Signature

Jessica Gregg

Date

2/12/15

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

William Tambekou

Title Petroleum Engineer

Date 2-19-2015

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify 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 FFO

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

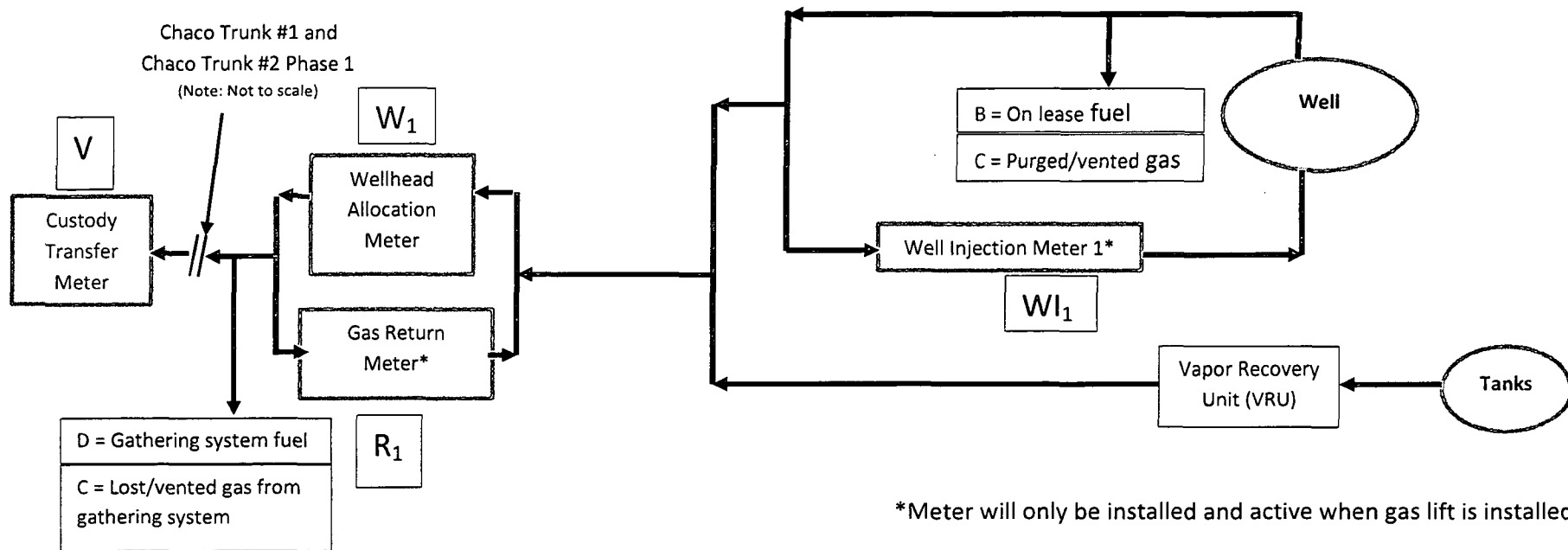
(Instructions on page 2)

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Attachment No. 5  
Encana Oil & Gas (USA) Inc.  
Chaco Trunk #1 and Chaco Trunk #2 Phase 1 Gathering System  
San Juan and Sandoval Counties, New Mexico

**Gas Measurement Allocation Procedure for Single Well Pads**



**Base Data:**

- $V$  = Gas Volume (MCF) from Custody Transfer Meter during allocation period (Enterprise Products Partners)
- $R$  = Gas Volume (MCF) from Gas Return Meter (Encana)\*
- $W_1$  = Gas Volume (MCF) from Wellhead Allocation Meter at individual wells during allocation period. (Encana)
- $WI_1$  = 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 individual wells.

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Encana Oil & Gas (USA) Inc.  
Chaco Trunk #1 and Chaco Trunk #2 Phase 1 Gathering System  
San Juan and Sandoval Counties, New Mexico

**Individual Well Gas Production** = A + B + C + D + E

A = Allocated Gas production off lease, MCF:  $[(W_1-R_1)/((W_1-R_1)+(W_2-R_2)+(W_n-R_n))]*(V)$

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.

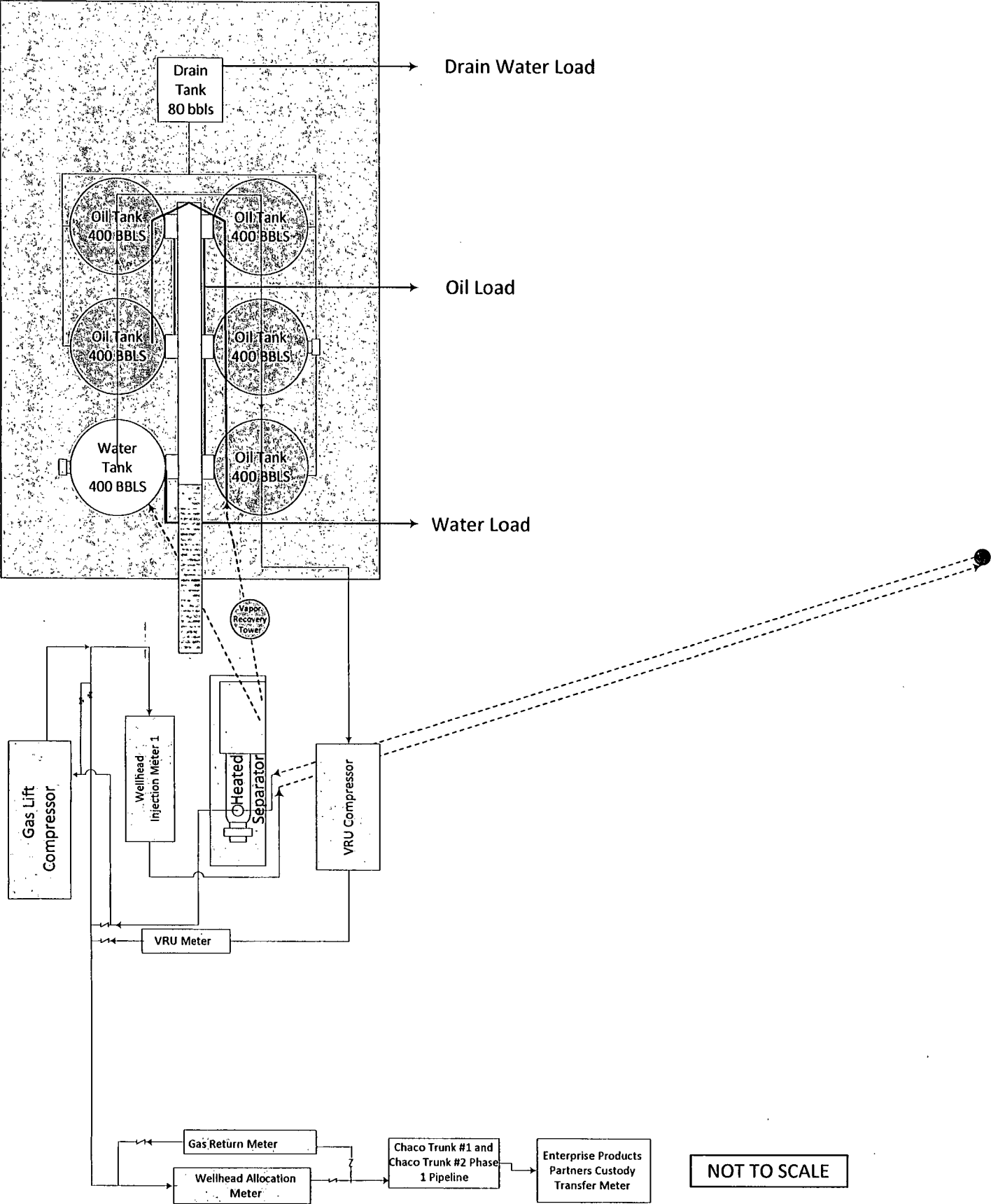
C = Lost and/or vented gas from well and/or lease equipment, MCF. Calculated using equipment and piping specifications and operating pressures.

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

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 individual wells affected using factors determined  $[(W_1-R_1)/((W_1-R_1)+(W_2-R_2)+(W_n-R_n))]$ .

**Individual Well BTU's** =  $[(W_n-W_{In})*Z_n]/\{SUM((W_n-W_{In})*Z_n)\}*(V*Y)*1000]$

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 either up and down stream of the buyback meter or 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 Card or Sign that clearly identifies both the sales and buy-back meters.**
  - **Gas Meters must be installed and calibrated in accordance with Onshore Order 5.**