Form 3160-5 (March 2012)

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

RECEIVED

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

SEP 18 20 5 Lease Serial No. NMM 109390

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this fo	orm for proposals t Use Form 3160-3 (A	o drill or to	sereateka j	Pand Man	agemen.	or Tribe N	ame
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. Lybrook P24-2206 01H		
2. Name of Operator Encana Oil & Gas (USA) Inc.					9. API Well No. 30-043-21124		
Ba. Address B70 17th Street, Suite 1700 Denver, CO 80202	include area co	ode)	10. Field and Pool or Exploratory Area Wildcat (Gallup)				
4. Location of Well <i>(Footage, Sec., T.,R.,M., or Survey Description)</i> SHL: 1059' FSL and 449' FEL Sec 24, T22N, R6W 3HL: 800' FSL and 330' FWL Sec 24, T22N, R6W					11. County or Parish, State Sandoval, NM		
· 12. CHEC	K THE APPROPRIATE BC	X(ES) TO INDI	CATE NATUR	E OF NOTIC	E, REPORT OR OTH	IER DATA	\
TYPE OF SUBMISSION	TYPE OF ACTION						
Notice of Intent	Acidize Alter Casing	Deepe	n re Treat	=	uction (Start/Resume)	=	ater Shut-Off dell Integrity
Subsequent Report	Casing Repair	_	Construction	_	mplete	√ 0	ther Installation of Gas Lift
Final Abandonment Notice	Change Plans Convert to Injection	Plug a	nd Abandon Back		oorarily Abandon r Disposal		Installation of Gas Ent
testing has been completed. Final A determined that the site is ready for Encana Oil & Gas (USA) Inc. is requiff and the gas allocation procedure.	final inspection.)	•	·			s a schem RCVD OIL C	•
BLATS APPROVAL OR ACCEPTANCE OF THIS ACTION BOES NOT RELIEVE THE LESSEE AND OFFICATION FLOM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS				SEE ATTACHED FOR CONDITIONS OF APPROVAL			
14. I hereby certify that the foregoing is tr	ue and correct. Name (Printe	d/Typed)					
Katie Wegner			Title Regulatory Analyst				
Signature Jah M	fr.		Date 09/17/2	013			
	THIS SPACE	FOR FEDER	RAL OR ST	ATE OFF	ICE USE		
Approved by Troy Salvers Conditions of approval if and are attached	Approval of this notice does	a not warrant or ca	Title Pe	troleum	Engineer	Date C	-18-2013

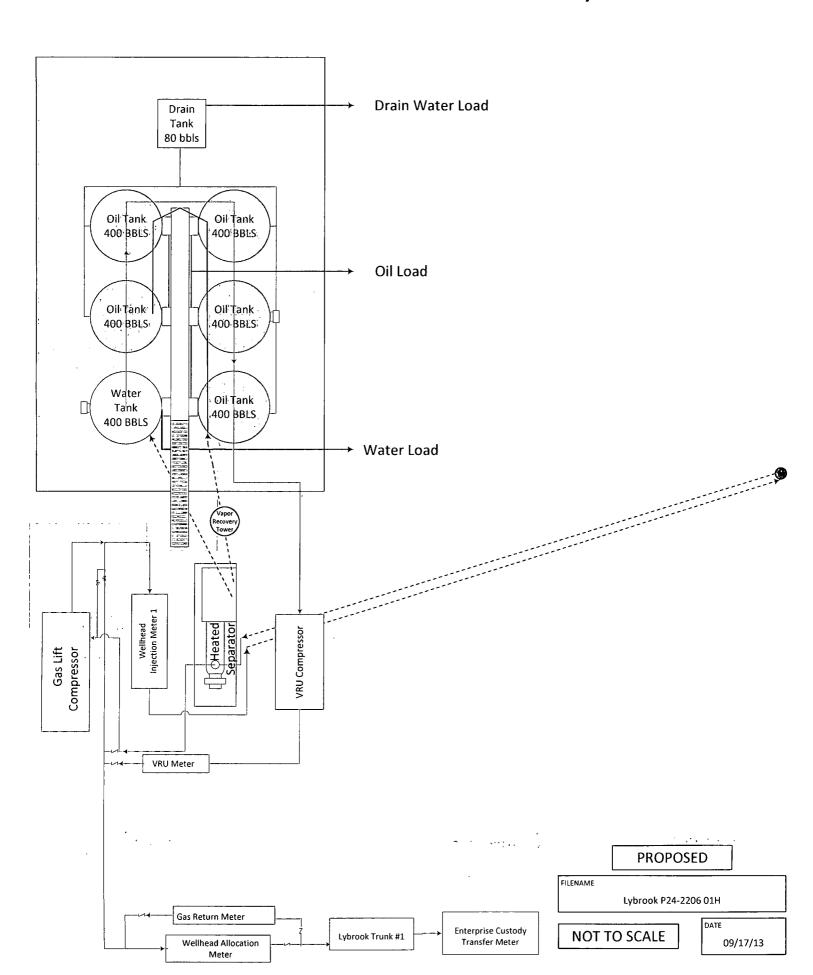
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

Office

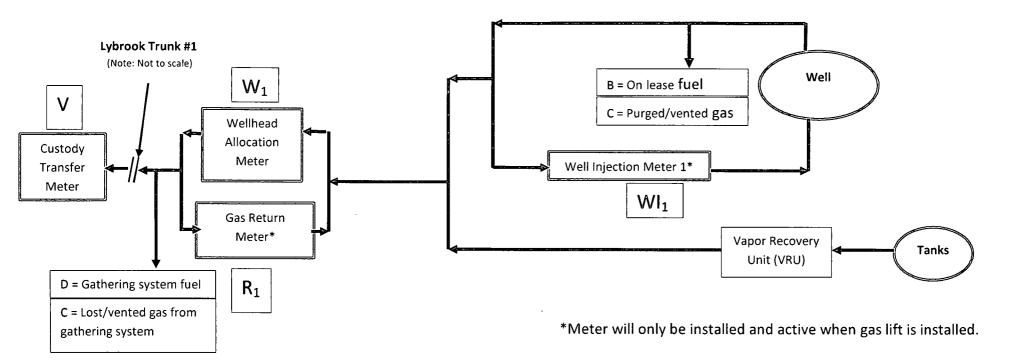
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entitle the applicant to conduct operations thereon.

Troy Salvers
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



Gas Measurement Allocation Procedure for Lybrook P24-2206 well pad



Base Data:

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

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)

WI₁ = 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)

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.

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 = $[((W_n-R_n)*Z_n)/SUM((W_n-R_n)*Z_n)]*Y$

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 AND CDP INSTALLATION:

• 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 immediately upstream and downstream of the buy-back meter to prevent produced gas from potentially by-passing the measurement and sales meter.

Contact this office so a BLM witness may 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 at the CDP listing the following information:
 - o Operator Name
 - o Facility Name (i.e. Lybrook P24-2206 01H CDP)
 - o UL, S-T-R, County and State

Clearly identify **both** the sales and by-back meters.

• Should future system needs require separation and/or compression equipment at the CDP, any liquid hydrocarbons recovered at the CDP must be allocated back to each well in proportion to the well's allocated gas production. Any fuel used at the CDP and at the well sites must also be allocated back to each contributing well in proportion to each well's allocated gas production. Fuel to run the Vapor Recovery Unit (VRU)

must also be allocated back to each contributing well in proportion to each well's oil contribution and the vapors recovered.

- Production and Sales allocation must be made on a Volumetric and MMBTU basis and be conducted in accordance with the allocation methodology proposed.
- Measurement of gas at the well sites <u>and</u> the CDP must be conducted in accordance with the requirements outlined in Onshore Order No. 3, Site security, Onshore Order No. 4, Oil Measurement, Onshore Order No. 5, Gas Measurement and NM NTL 2008-01, Electronic Flow Measurement.
- In Order to prevent waste and conserve natural gas, periodic review of each well's venting procedures must be conducted in accordance with the requirements outlined in NTL-ADO-93-1. Vented gas must be allocated back to each well based on the well's proportionate vented volume. Any gas vapor recovery from the VRU must be allocated to each well in proportion to each well's oil production.
- No other wells can be added to this measurement system without the prior authorization of this office.
- Contact this office in the event of any lost hydrocarbons between the wells and the CDP.
- This office reserves the right to require audit records of all wells contributing to this CDP.
- Failure to operate this facility in accordance with the conditions outlined above and in accordance with your application will subject this approval to revocation. In addition, this office reserves the right to rescind this approval should future evaluation of this method of measurement indicate lost or reduced royalties.