State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez

Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

David R. Catanach, Division Director Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date: 8/7/15

Well information:

API WELL#	Well Name	Well #	Operator Name	Туре	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng	W/I
80-043-21234-	CHACON IICARILLA		ENERGEN RESOURCES	. 0	N	Sandoval	J	M	23	23	N	3	W

Application Type: P&A Drilling/Casing Change Location Change
Recomplete/DHC (For hydraulic fracturing operations review EPA Underground injection control Guidance #84)
Other: Measurement

Conditions of Approval:

This approval is for the Chacon Jicarilla #602H only, if other wells are added to this LACT system a C-106 is required and possibly a surface commingle order prior to commingling.

NMOCD Approved by Signature

8/24/15 Date

Farm 3160-5 (August 2007)

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

LU		DLINI	IAL
	TIGH	THOL	FORM APPROVED OMB NO. 1004-0137
		1	F ' T 21 2212

CONFIDENTIAL

Expires July 31, 2010

5. Lease Serial No. 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.

The same of the same of	Jicarilla Apache 183
RECEIVED	6. If Indian, Allottee or Tribe Name

		111	0-2-0015	Jicarilla	Apache		
SUBMIT IN TRIPLICATE - Other instructions on page 2					7. If Unit or CA/Agreement, Name and/or N		
1. Type of Well X Oil Well Gas Well Other 2. Name of Operator		Farming Bureau of I	ton Field Offic and Manages	8. Well Name Chacon Jic	and No.		
Energen Resources Corporation				9. API Well N	0.		
3a. Address	3b. Phone No. (include are	ea code)	30-043-21234				
2010 Afton Place, Farmington, NM 8		(505) 325-680	0	10. Field and Pool, or Exploratory Area			
4. Location of Well (Footage, Sec., T., R., M., or Survey			West Linds	rith Gallup Dakota			
SHL - 892' FSL 775' FWL Sec. 23 T2	3N RO3W (M) SW	/SW					
BHL - 450' FSL 200' FWL Sec. 22 T2	3N R03W (M) SW	/SW		11. County or	Parish, State		
				Sandoval	NM		
12. CHECK APPROPRIAT	E BOX(ES) TO INI	DICATE NATURE OF N	OTICE, REPO	RT, OR OTHE	ER DATA		
TYPE OF SUBMISSION		TY	PE OF ACTION				
x Notice of Intent	Acidize	Deepen	Production	(Start/Resume)	Water Shut-Off		
	Alter Casing	Fracture Treat	Reclamatio	n	Well Integrity		
Subsequent Report	Casing Repair	New Construction	Recomplete	e	X Other		
Final Abandonment Notice	Change Plans	Plug and Abandon	Temporaril	y Abandon	Measurement		
	Convert to Injection	on Plug Back	Water Disp	osal	Installment		
13. Describe Proposed or Completed Operation (clear If the proposal is to deepen directionally or recomp Attach the Bond under which the work will be per following completion of the involved operations. testing has been completed. Final Abandonment 1	blete horizontally, give s reformed or provide the I of the operation results in	ubsurface locations and mea Bond No. on file with BLM/ n a multiple completion or re	sured and true ver BIA. Required su ecompletion in a n	tical depths of a absequent report ew interval, a F	Il pertinent markers and zones. Its shall be filed within 30 days form 3160-4 shall be filed once		

determined that the final site is ready for final inspection.)

Please see the attached request.

OIL CONS. DIV DIST. 3

AUG 11 2015

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)							
Anna Stotts	Title Regulatory Analyst						
Signature MVA STOLLA	Date 07/23/15						
THIS SPACE FOR FEDERAL OR STATE OFFICE USE							
Approved by William Tambekou	Title Petroleum Engineer Date 08-07-2015						
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office FF0						

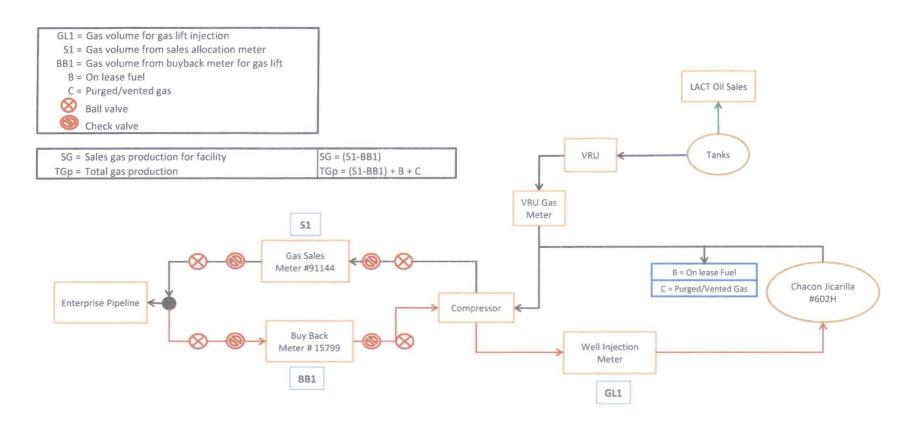
Energen Resources Chacon Jicarilla #602H Sec. 23 T23N R03W 3004321234

Energen Resources is hereby requesting authorization to install a gas lift measurement system on the subject well as part of our artificial lift operations. In addition to the gas lift installation, we also propose to use a LACT measurement system utilizing a Coriolis meter. All meters will be calibrated upon installation and quarterly thereafter per Onshore Orders No 4 & 5 requirements. The gas measurement skid will utilize both a sales and buy back metering system. Per BLM FFO requirements, four check valves will be installed, one upstream and the other downstream of each orifice meter.

Attached for your review is a detailed process flow diagram and measurement and reporting methodology. Utilizing this method of measurement will allow Energen to optimize well performance and maximize oil and gas recovery while maintaining the measurement accuracy requirements outlined in the Onshore Orders.

Note: Production from the Chacon Jicarilla D #13 well (3004320422) which is also located on this well pad is currently SI and will remain so until the Chacon Jicarilla 602H is completed. Production from this well will be measured separately from the Chacon Jicarilla 602H. When the Chacon Jicarilla D #13 is returned to production, a sundry notice will be filed which will provide the meter number and production start-up details.

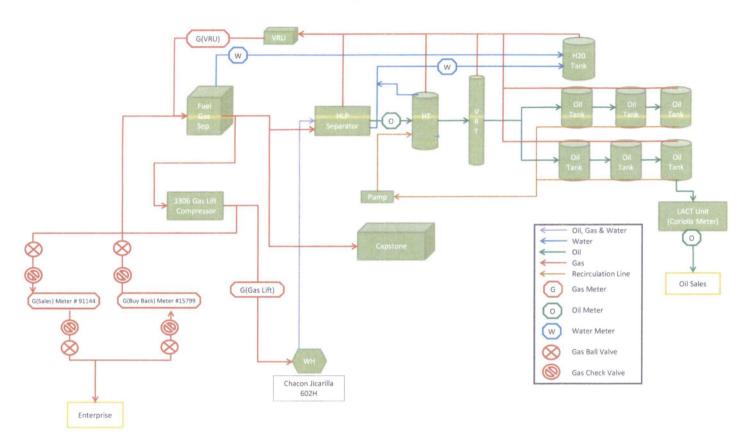
Chacon Jicarilla 602H



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PROCESS FLOW DIAGRAM

Chacon Jicarilla 602H Energen Resources



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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 <u>both</u> the sales and buy-back meters.
 - Gas Meters must be installed and calibrated in accordance with Onshore Order 5.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Farmington Field Office 6251 College Blvd., Suite A Farmington, New Mexico 87402 www.blm.gov/nm



REFERENCE ON USING A LACT MEASUREMENT SYSTEM UTILIZING A CORIOLIS METER, TO THE FEASIBILITY OF USING CORIOLIS MEASUREMENT TECHNOLOGY IN PLACE OF A POSITIVE DISPLACEMENT METER ON A LACT UNIT

BLM's Onshore Orders No.4 III D. will be followed except for the positive displacement meter which will be a Coriolis. The Coriolis shall register volumes of oil passing through said meter determined by a system which constantly and mechanically isolates the flowing oil into segments of known volume, and be equipped with a non-resettable totalizer. After appropriate assessment of the results, the above parties will determine if this technology is appropriate for use on a routine basis. This will be conducted at the following location for the Coriolis meter: Jicarilla Apache 183

As Coriolis meters are not addressed by onshore oil and Gas Order No. 4, their use for custody transfer of oil produced from Federal leases, Communization Agreements (CA), or units require that the operator apply for a variance to the order. Approval is conditioned upon compliance with applicable orders, API standards, and proving frequency as required by Onshore Order No. 4.

After considering the merits of your proposal and the mutual benefits to our respective organizations, the BLM supports the use of the Coriolis meter in place of a positive displacement meter on the LACT Unit. Our hope is that the Coriolis meter either meet's or exceed the standards established in the above referenced Orders. We encourage you to consult with the NMOCD on this. Also, please consider any other measurement standards that the NMOCD might require.

Please contact the BLM when the equipment installations are in place and ready for calibration and operation.

If you have any questions, please contact John McKinney at (505)564-7755 or William Tambekou at (505)564-7746