ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



		ADMINISTRATIVE APPLICATION CHECKLIST	
TH	IIS CHECKLIST IS N	MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATION WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE	NS
Applic	[DHC-Dow [PC-P		
[1]	[A]	Location - Spacing Unit - Simultaneous Dedication NSL NSP SD Oil Conserved	003
	Chec. [B]	ck One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM	Division -
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR	
	[D]	Other: Specify	
[2]	NOTIFICAT	FION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners	
	{B]	Offset Operators, Leaseholders or Surface Owner	
	[C]	Application is One Which Requires Published Legal Notice	
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office	
	[E]	For all of the above, Proof of Notification or Publication is Attached, and/or,	
	[F]	Waivers are Attached	
[3]		CCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TY CATION INDICATED ABOVE.	PE
	al is accurate	ATION: I hereby certify that the information submitted with this application for administration and complete to the best of my knowledge. I also understand that no action will be taken or required information and notifications are submitted to the Division.	
0	^	e: Statement must be completed by ap individual with managerial and/or supervisory capacity.	,
	GGY COLL Type Name	Signature REGULATORY Supr. 7-1 Title Date	<u> 14-03</u>
2 0/	JF	Townson Date	

District I 1625 N. French Drive, Hobbs, NM 88240

District II 1301 W. Grand Avenue, Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztec, NM 87410

District IV 1220 S. St. Francis Dr., Santa Fc, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, New Mexico 87505

Form C-107A Revised May 15, 2000

APPLICATION TYPE _Single Well

_____Shigh Well
Establish Pre-Approved Pools
EXISTING WELLBORE
_Y__Yes ____No

APPLICATION FOR DOWNHOLE COMMINGLING

Operator State 16	Add #1 E-16-28	ress	San Juan
ease		Section-Township-Range	County
OGRID No. <u>14538</u> Property (AFI NO	J-043-23639 Lease Type:	_Federal _X_StateFee
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	OTERO CHACRA		POTTER GALLUP
Pool Code	82329		50387
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	WILL BE SUPPLIED UPON COMPLETION		5732'-6558'
Method of Production (Flowing or Artificial Lift)	NEW ZONE		ARTIFICIAL LIFT PLUNGER
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	Original 449 psi From Jicarilla 150 #12 offset (see attachment)		Original 358 psi Current 220 psi
Oil Gravity or Gas BTU (Degree API or Gas BTU)	BTU 1240 From Jicarilla 150 #12 offset		BTU 1269
Producing, Shut-In or New Zone	New Zone		Producing
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production	Date: N/A		Date: 5/31/03
estimates and supporting data.)	Rates: See Attachment		Rates: 83 Mcfd
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	WILL BE SUPPLIED UPON COMPLETION		WILL BE SUPPLIED UPON COMPLETION
	ADDITIO	NAL DATA	
re all working, royalty and overriding	royalty interests identical in all con	nmingled zones?	Yes X No
re all produced fluids from all commi	ngled zones compatible with each of	other?	Yes X No
Vill commingling decrease the value of	f production?		Yes NoX
this well is on, or communitized with the United States Bureau of Land Ma			Yes X No
IMOCD Reference Case No. applicable	e to this well:		
Attachments: C-102 for each zone to be comming Production curve for each zone for For zones with no production histor Data to support allocation method of Any additional statements, data or of the comments.	at least one year. (If not available, y, estimated production rates and s or formula.	attach explanation.) upporting data.	
	PRE-APPRO	OVED POOLS	
If application is	to establish Pre-Approved Pools, th	ne following additional information w	vill be required:
ist of other orders approving downhol ist of all operators within the proposed roof that all operators within the proposed ottomhole pressure data.	l Pre-Approved Pools		
hereby certify that the information		he best of my knowledge and bel enior Reservoir Engr.	
ixo	om Loveland		LEPHONE NO. (<u>505</u>) 326-97

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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30 - 045 - 25639	Pool Name OTERO CHACRA (GAS)	Pool Code 82329
Property Code 7532	Property Name STATE 16	Well No. 001
OGRID No. 14538	Operator Name Burlington Resources Oil and Gas Company	Elevation 5986

Surface And Bottom Hole Location

UL or Lot E	Section 16	Township 28N	Range 09W	Lot Idn	Feet From 1761	N/S Line N	Feet From 790	E/W Line W	County San Juan
Dedicated Acres		Joint or	Infill	Consoli	dation Code		Order 1	No.	
160									

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Electronically Signed By:

Title:

Date:

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Electronically Signed By: Michael Daly

Date of Survey: 2/28/1983 Certificate Number: 5992

State 16 #1 Bottom Hole Pressures Flowing and Static BHP

Cullender and Smith Method

Version 1.0 1/14/98

Chacra	Gallup
<u>CH-Current</u>	<u>GL-Current</u>
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) #DIV/0!	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %L2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 219.8
<u>CH-Original</u>	<u>GL-Original</u>
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 0.719 0.00573 0.00865 7 1959 60 80 80 80 80 80 80 80 80 80	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 308 BOTTOMHOLE PRESSURE (PSIA) 358.1

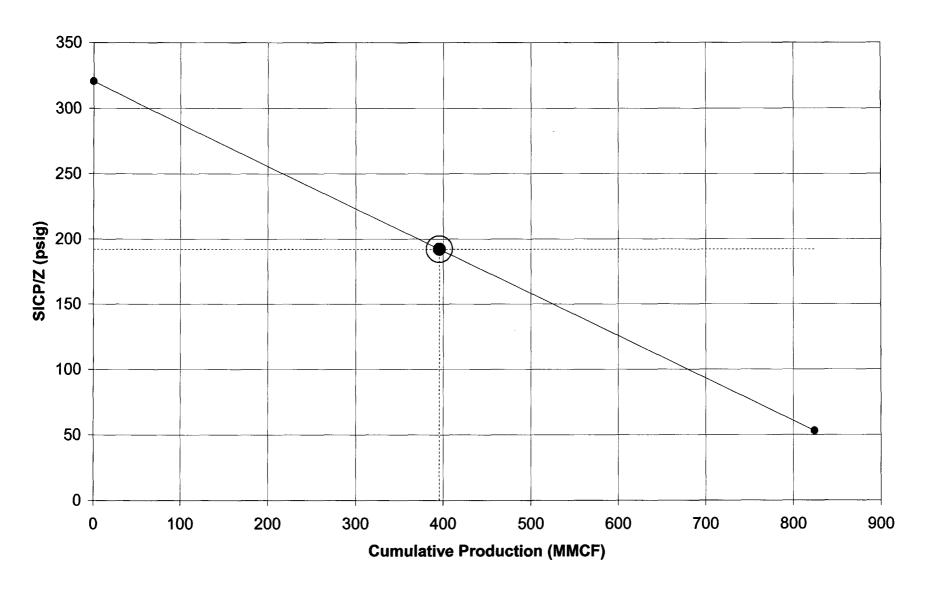
State 16 1 BHP.xls 7/11/2003 10:08 AM

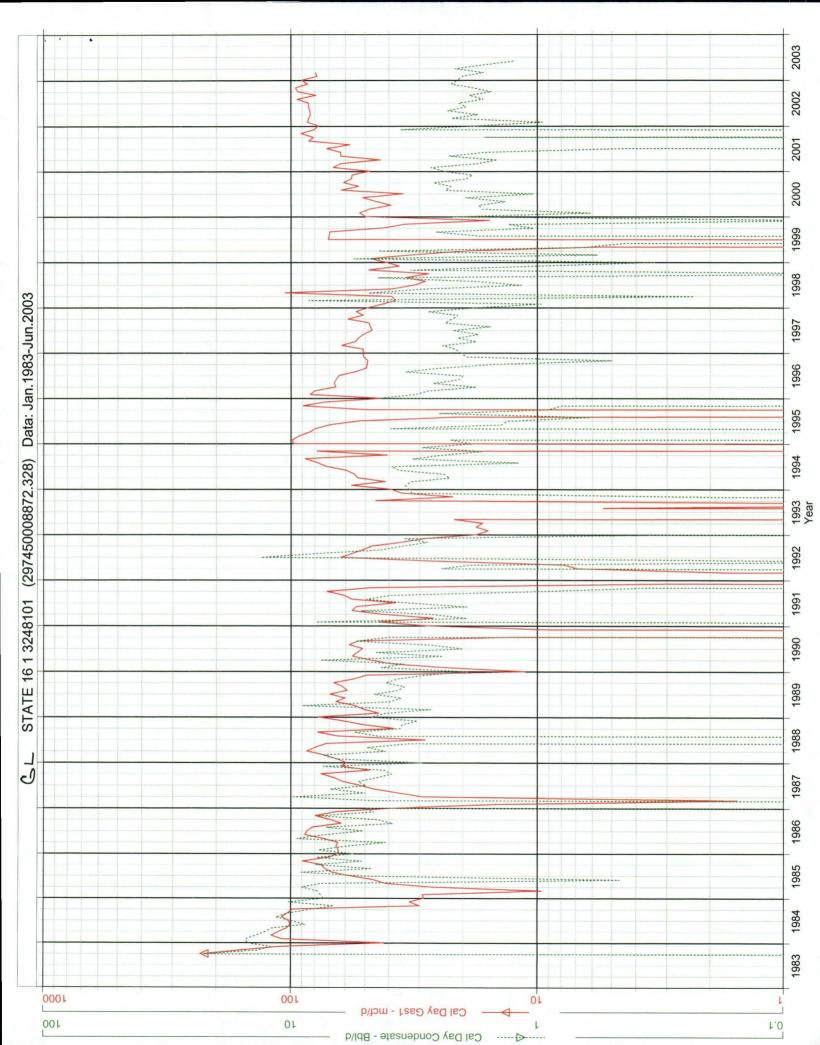
State 16 #1 - SICP/Z Data

Zone: <u>Date</u>	Gallup SICP (psig)	Chromatograph <u>Used</u>	Z-Factor	SICP/Z (psig)	Cum Qg (MMCF)	Slope	Y Intercept
9/5/1983	308	10/1/2002	0.961	320	0	N/A	320
???	53	N/A	1	53	823.8766	-0.324684	320 ↓
5/31/2003	???	10/1/2002	???	192	395.578	-0.324684	320
		Z-Factor = SICP (psig) =					

NOTE: THESE ARE ESTIMATES OF THE CURRENT RESERVOIR PRESSURE IN EACH ZONE. IT IS REALIZED THAT THE NEAR-WELLBORE PRESSURES FOR EACH ZONE SHOULD BE SIMILAR, DUE TO THEIR COMMINGLED STATUS.

State 16 #1 (GL)







TO: New Mexico Oil Conservation Division

FROM: Lewis Implementation Team, Burlington Resources

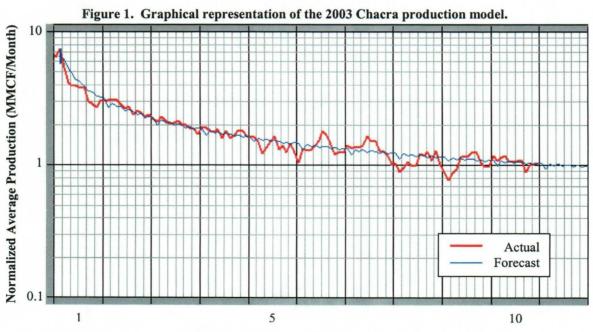
DATE: December 2, 2002

RE: 2003 Chacra Recompletion Program Expected Production

Chacra-only production from 73 wells completed after 1970 was normalized and forecasted to result in the production model presented in Table 1. A graphical representation of this normalized production forecast is shown in the attached Figure 1. These wells are located in or near the Chacra Fairway in T-27-N, R-08-W; T-27-N, R-09-W; T-28-N, R-09-W; T-28-N, R-11-W; T-29-N, R-09-W; T-29-N, R-11-W; T-29-N, R-11-W. Actual results from the individual payadds will certainly vary, but this production model represents the average results that should be achieved. Further delineation in the area will be made in 2003.

Table 1: 2003 Chacra production model.

Decline Type	Hyp to Exp
Initial Incremental Rate (MCF/D)	260
Initial Decline (%/yr, effective)	62
Final Decline (%/yr, effective)	1.6
Final Incremental Rate (MCF/D)	15
Hyperbolic Exponent, n	2.0
EUR (MMCF)	496



Normalized Year