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	1	NEW MEXIC	ABOVE THIS LINE FOR DIVISION USE O OIL CONSERV. - Engineering Bureau	ONLY ATION DIVISIO 1 -	N alog1
		ADMINISTRAT	IVE APPLICAT	ION COVER	SHEET
	THIS COVERSHEET	T IS MANDATORY FOR ALL ADM	INISTRATIVE APPLICATIONS F	OR EXCEPTIONS TO DIVISIO	N RULES AND REGULATIONS
Applica	tion Acronyms: [DHC-Down [PC-Poc [[EOR-Quali	[NSP-Non-Standard [DD-Directiona hole Commingling] ol Commingling] [OL [WFX-Waterflood Expa [SWD-Salt Water ified Enhanced Oil Re	Proration Unit] [NS I Drilling] [SD-Simu [CTB-Lease Comming S - Off-Lease Storage Insion] [PMX-Press Disposal] [IPI-Inject covery Certification]	L-Non-Standard Loc Itaneous Dedicatior Iling] [PLC-Pool/L] [OLM-Off-Lease are Maintenance Exp ion Pressure Increa [PPR-Positive Pro	cation]] ease Commingling] Measurement] pansion] ase] duction Response]
[1]	TYPE OF AI [A] Check [B]	PPLICATION - Cha Location - Spacing NSL NSP One Only for [B] ar Commingling - Sto DHC CTB	eck Those Which Ap Unit - Directional D DD SD dd [C] rage - Measurement PLC PC (ply for [A];) [E] rilling	B 2 8 2000
	[C]	Injection - Disposa WFX PMX	I - Pressure Increase SWD IPI	- Enhanced Oil Re EOR PPR	covery
[2]	NOTIFICAT [A]	ION REQUIRED Working, Royalty	FO: - Check Those V or Overriding Royal	Which Apply, or I ty Interest Owners	Does Not Apply
	[B]	Offset Operators, I	Leaseholders or Surfa	ace Owner	
	[C]	Application is One	e Which Requires Pu	blished Legal Noti	ce
		Notification and/o U.S. Bureau of Land I	r Concurrent Approv Management - Commissioner of	ral by BLM or SLC Public Lands, State Land Off) ice
	[E]	For all of the abov	e, Proof of Notificat	ion or Publication	is Attached, and/or,
·	[F]	Waivers are Attac	hed		
[3]	INFORMAT	TION / DATA SUB	MITTED IS COMP	LETE - Statement	t of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Print or Type Name

Signature

Regulatory/Compliance Administrator

DISTRICT | 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II uth First St., Artesia, NM 88210 DISTRICT III Rd, Aztec, NM 87410 1000 Rio Bra DISTRICT IV . Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department **OIL CONSERVATION DIVISION**

2040 S. Pacheco Santa Fe, New Mexico 87505-6429

Form C-107-A vised August 1999 Rev APPROVAL PROCESS: Administrative Hearing **EXISTING WELLBORE**

APPLICATION FOR DOWNHOLE COMMINGLING

_X_YES ___NO **BURLINGTON RESOURCES OIL & GAS COMPANY** PO BOX 4289, FARMINGTON, NM 87499 Add

JICARILLA 150	12	N 01-26N-05W	RIO ARRIBA
Lease	Well No.	Unit Ltr Sec - Twp - Rge	County
			Spacing Unit Lease Types: (check 1 or more)

OGRID NO. API NO. 30-039-24211 , (and/or) Fee 14538 Property Code 16344 Federal X_, State _

The following facts are submitted in support of downhole commingling:	de Upper *****	Intermediate	Lower Zone
1. Pool Name and Pool Code	WILDCAT CHACRA	BLANCO MESAVERDE - 72319	BS MESA GALLUP - 72920
2. Top and Bottom of Pay Section (Perforations)	WILL BE SUPPLIED UPON COMPLETION	WILL BE SUPPLIED UPON COMPLETION	WILL BE SUPPLIED UPON COMPLETION
3. Type of production (Oil or Gas)	GAS	GAS	GAS
4. Method of Production (Flowing or Artificial Lift)	FLOWING	FLOWING	FLOWING
5. Bottomhole Pressure	a. (Current)	a. (Current)	a. ^(Current)
Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing:	337 psi (see attachment)	544 psi (see attachment)	772 psi (see attachment)
Measured Current All Gas Zones:	b. ^(Oriiginal)	b. ^(Oriiginal)	b. ^(Oriiginal)
Lournaled Or Measured Original	873 psi (see attachment)	1151 psi (see attachment)	1630 psi (see attachment)
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1180	BTU 1192	BTU 1253
7. Producing or Shut-In?	SHUT-IN	SHUT-IN	SHUT-IN
	NÖ	NO	YES
Production Marginal? (yes or no)	Date: N/A	Date: N/A	Date: N/A
* If Shut-In, give date and oil/gas/ water rates of last production	Rates:	Rates:	Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: N/A	Date: N/A	Date: N/A
* If Producing, give date andoil/gas/ water rates of recent test (within 60 days)	Rates:	Rates:	Rates:
 Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%) 	Oil: Gas: % WILL BE SUPPLIED UPON COMPLETION	Oil: Ges: % % WILL BE SUPPLIED UPON COMPLETION	Oii: Gas: % % WILL BE SUPPLIED UPON COMPLETION

If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data. 9.

10. Are all working, overriding, and royalty interests identical in all commingled zones? X Yes No

Will cross-flow occur? <u>X</u>Yes <u>N</u>No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. XYes <u>N</u>No (If No, attach explanation) 11. Will cross-flow occur?

12. Are all produced fluids from all commingled zones compatible with each other? _X_Yes ___No

13. Will the value of production be decreased by commingling? _Yes _X No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. X Yes No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S).

16. ATTACHMENTS

* C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
 * Production curve for each zone for at least one year. (If not available, attach explanation.)
 * For zones with no production history, estimated production rates and supporting data.
 * Data to support allocation method or formula.
 * Any additional statements, data, or documents required to support commingling.

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

SIGNATURE	Sean \$.	lonigon	TITLE PRODUCT	ION ENGINEER	DATE: 02/23/00	
	° 1					
TYPE OR PRIN	T NAME SEAN	N E. CORRIGAN	TELEPHONE NO.	505-326-9700		

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztee, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088

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State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Numb	er ² Pool Code	Wildcat Chacra 'PoolName	sa Gallup
30-039-24211	72319/72920	Blanco Mesaverde/B. S. Mes	
* Property Code	Jicari	' Property Name	• Well Number
16344		11a 150	12
'0 GRID No. 14538	Burlington Resour	'Operator Name ces Oil & Gas Company	7338 ^{Elevation}

¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	Count
N	1	26N	5W		885	South	2465	West	RA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
¹¹ Dedicated Acr MV-W/319	es ¹³ Joint 88	or infill 1* (Consolidatio	n Code ¹³ C	rder No.	<u> </u>		<u></u>	<u>.</u>

Gal-160.84 Cha-160

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16	Original pl Cecil B. Tu	at from 11is 11 - 3-87	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
			Desqui ale
			Peggy Cole Printed Name Regulatory Administrator
			Date 18SURVEYOR 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.
			Date of Survey Signature and Scal of Professional Surveyer:
24651			
			Certificate Number

Jicarilla 150 #12

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Expected Chacra Production



Jicarilla 150 #12

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Expected Mesaverde Production



Jicarilla 150 #12 Actual Gallup Production

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Jicarilla 150 #12 Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method Version 1.0 3/13/94

Mesaverde	Gallup			
MV-Current	<u>GP-Current</u>			
GAS GRAVITY 0.688 COND. OR MISC. (C/M) C %N2 0.47 %CO2 0.9 %H2S 0 DIAMETER (IN) 1.5 DEPTH (FT) 5632 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 137 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 472 BOTTOMHOLE PRESSURE (PSIA) 543.8	GAS GRAVITY0.723COND. OR MISC. (C/M)C%N20.36%CO20.73%H2S0DIAMETER (IN)2.375DEPTH (FT)7715SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)198FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)633BOTTOMHOLE PRESSURE (PSIA)771.7			
MV-Original	<u>GP-Original</u>			
GAS GRAVITY 0.688 COND. OR MISC. (C/M) C %N2 0.47 %CO2 0.9 %H2S 0 DIAMETER (IN) 1.5 DEPTH (FT) 5632 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 137 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 986 BOTTOMHOLE PRESSURE (PSIA) 1151.0	GAS GRAVITY0.723COND. OR MISC. (C/M)C%N20.36%CO20.73%H2S0DIAMETER (IN)2.375DEPTH (FT)7715SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)198FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)1309BOTTOMHOLE PRESSURE (PSIA)1629.9			

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Jicarilla 150 #12 Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method Version 1.0 3/13/94

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Chacra	Mesaverde			
<u>CH-Current</u>	<u>MV-Current</u>			
GAS GRAVITY 0.671 COND. OR MISC. (C/M) C %N2 0.51 %CO2 0.26 %H2S 0 DIAMETER (IN) 1.25 DEPTH (FT) 3276 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 137 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 312 BOTTOMHOLE PRESSURE (PSIA) 337.2	GAS GRAVITY 0.688 COND. OR MISC. (C/M) C %N2 0.47 %CO2 0.9 %H2S 0 DIAMETER (IN) 1.5 DEPTH (FT) 5632 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 137 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 472 BOTTOMHOLE PRESSURE (PSIA) 543.8			
<u>CH-Original</u>	<u>MV-Original</u>			
GAS GRAVITY 0.671 COND. OR MISC. (C/M) C %N2 0.51 %CO2 0.26 %H2S 0 DIAMETER (IN) 1.25 DEPTH (FT) 3276 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 137 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 802 BOTTOMHOLE PRESSURE (PSIA) 872.6	GAS GRAVITY0.688COND. OR MISC. (C/M)C%N20.47%CO20.9%H2S0DIAMETER (IN)1.5DEPTH (FT)5632SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)137FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)986BOTTOMHOLE PRESSURE (PSIA)1151.0			

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<u>Jicarilla 150 #12</u>

Chacra Offset

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Well Name	<u>Date</u>	Pressure
VAUGHN 11	4/29/70	802
VAUGHN 11	4/14/71	469
VAUGHN 11	8/1/72	428
VAUGHN 11	8/28/73	406
VAUGHN 11	4/28/75	260
VAUGHN 11	3/1/93	312

Jicarilla 150 #12

Existing Gallup

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	Date			Pressure
Jicarilla 150 12	1980-	03-	27	1,309
Jicarilla 150 12	1981-	06-	1	664
Jicarilla 150 12	1982-	04-	9	607
Jicarilla 150 12	1983-	06-	9	633

<u>Jicarilla 150 #12</u>

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Mesaverde Offset

	<u>[</u>	Pressure		
JICARILLA 150 1	1954-	09-	2	986
JICARILLA 150 1	1970-	10-	23	946
JICARILLA 150 1	1971-	09-	26	709
JICARILLA 150 1	1972-	04-	17	554
JICARILLA 150 1	1973-	05-	17	591
JICARILLA 150 1	1974-	06-	2	496
JICARILLA 150 1	1976-	05-	3	444
JICARILLA 150 1	1978-	05-	18	458
JICARILLA 150 1	1980-	07-	25	505
JICARILLA 150 1	1982-	04-	9	405
JICARILLA 150 1	1984-	05-	2	564
JICARILLA 150 1	1986-	04-	23	567
JICARILLA 150 1	1989-	11-	29	603
JICARILLA 150 1	1991-	05-	1	671
JICARILLA 150 1	1991-	05-	15	659
JICARILLA 150 1	1993-	06-	1	472

Jicarilla 150 #12 Chacra / Mesaverde / Gallup 26N - 5W - 01N

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