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RAY POWELL, M.S., D.V.M.
COMMISSIONER

State of New Mexico Commissioner of Public Lands

310 OLD SANTA FE TRAIL P.O. BOX 1148

SANTA FE, NEW MEXICO 87504-1148

(505) 827-5760 FAX (505) 827-5766

October 1, 1996

Texaco Exploration & Production, Inc. 205 East Bender Blvd. Hobbs, New Mexico 88240

Attn: Mr. Monty C. Duncan

Re:

Application for Downhole Commingling

Request for Exception to Rule 303

New Mexico O State NCT-1 #34, Unit Letter P

New Mexico O State NCT-1 #35, Unit Letter O

New Mexico O State NCT-1 #36. Unit Letter N

New Mexico O State NCT-1 #37, Unit Letter I

Vacuum Blinebry (61850) and Vacuum Drinkard (62110) Pools

Section 36-17S-34E

Lea County, New Mexico

Dear Mr. Duncan:

Your application to downhole commingle the production from within the wellbore of the above-captioned wells was received on June 28, 1996. Your application requests our approval to downhole commingle the Vacuum Blinebry and Vacuum Drinkard production within the wellbore of the New Mexico O State NCT-1 Wells Nos. 34-P, 35-O, 36-N & 37-I located in Section 36-17S-34E.

Since it appears that all the New Mexico Oil Conservation Division rules and regulations have been complied with, and there will be no loss of revenue to the State of New Mexico as a result of your proposed operation, your request for downhole commingling is hereby approved. Any deviation from the substance of your request will be sufficient grounds for rescinding our approval. Our approval is subject to like approval by the New Mexico Oil Conservation Division and the Bureau of Land Management.

Your \$30.00 dollar filing fee was received.

Texaco Exploration & Production, Inc. Page 2

October 1, 1996

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY POWELL, M.S., D.V.M.

COMMISSIONER OF PUBLIC LANDS

LARRY KEHOE, Director

Oil, Gas and Minerals Division

(505) 827-5744

RP/LK/cpm

Enclosure

cc: Reader File

Attention: Mr. Dave Catanach, Mr. Ben Stone

Commissioner's File



RAY POWELL, M.S., D.V.M. COMMISSIONER

State of New Mexico Commissioner of Public Lands

310 OLD SANTA FE TRAIL P.O. BOX 1148

SANTA FE, NEW MEXICO 87504-1148

(505) 827-5760 FAX (505) 827-5766

June 24, 1996

Texaco Exploration & Production Inc. Post Office Box 730 Hobbs. New Mexico 88241-0730

Attn: Mr. Monte C. Duncan

Re: Amendment for Off-Lease Storage & Surface Commingling

Vacuum Drinkard Consolidated Battery

Section 1-18S-34E, SE4SE4

Vacuum Drinkard, Vacuum Blinebry, Vacuum Wolfcamp and Wildcat Atoka Pools

Lea County, New Mexico

Dear Mr. Duncan:

We received your application letter on June 13, 1996, requesting approval to amend a previously approved request for off-lease storage and surface commingling of production from the above-referenced tank battery.

We understand that the following wells are be included in the amended off-lease storage and surface commingling application:

N.M. O State NCT-1, #34	P-36-17S-34E	B-155	Vacuum Drinkard
N.M. O State NCT-1, #35	O-36-17S-34E	B-155	Vacuum Drinkard
N.M. O State NCT-1, #36	N-36-17S-34E	B-155	Vacuum Drinkard
N.M. O State NCT-1, #37	I-36-17S-34E	B-155	Vacuum Drinkard
N.M. Z State NCT-1, #1	C-2-18S-34E	B-3011	Vacuum Wolfcamp
N.M. L State #18	A-1-18S-34E	B-1733	Wildcat Atoka
N.M. R State NCT-1, #18	H-6-18S-35E	B-1306	Vacuum Blinebry

Since it appears that there will be no loss of revenue to the State of New Mexico as a result of your proposed operation, your request for off-lease storage and surface commingling of the production from the above-mentioned wells is hereby approved. Any deviation from the substance of your request will be sufficient grounds for rescinding our approval. Our approval is subject to like approval by the New Mexico Oil Conservation Division.

Texaco Exploration & Production Inc. June 24, 1996 Page 2

Since the above-mentioned wells are utilizing the tank battery on State Lease No. B-1306-2, a right-of-way easement and business lease may be required. Please contact Ms. Debra Padilla of our Right-of-Way Section for further information regarding a right-of-way easement. Ms. Padilla's telephone number is (505) 827-5729. Also, please contact Mr. Nick Mace of our Commercial Resources Division at (505) 827-5727 regarding a business lease for this site. Our approval is contingent upon Texaco's obtaining any required right-of-way or business lease.

Your \$30.00 filing fee has been received.

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY POWELL, M.S., D.V.M.

COMMISSIONER OF PUBLIC LANDS

LARRY KEHOE, Director

Oil, Gas and Minerals Division

(505) 827-5744

RP/LK/cpm

Enclosure

cc: Reader File

OCD--Attention: David Catanach and Ben Stone

Debra Padilla Nick Mace



205 E. Bender Blvd. Hobbs NM 88240 505 393 7191

'96 Jijn 24 PM 8 52

- GAUL VERBAL ON THIS ONE ONLY ON 7.31.96

June 25, 1996

New Mexico Oil Conservation Division 2040 South Pacheco Santa Fe. New Mexico 87505

Attn: Mr. William J. LeMay, Division Director

RE:

Request for Exception to Rule 303

Downhole Commingling

Vacuum Blinebry and Vacuum Drinkard Pools

13/4 New Mexico O State NCT-1 #34, Unit Letter P

New Mexico O State NCT-1 #35, Unit Letter O

13 % New Mexico O State NCT-1 #36. Unit Letter N

1317 New Mexico O State NCT-1 #37, Unit Letter I

Section 36, T-17-S, R-34-E Lea County, New Mexico

Gentlemen:

Texaco Exploration and Production Inc. respectfully requests administrative approval for an exception to Rule 303 to permit the downhole commingling of the Vacuum Blinebry and Vacuum Drinkard pools in the above wells.

Enclosed is the pertinent data supporting this application as outlined in Rule 303. Copies of this administrative application are being provided to our offset operators via Certified Mail.

If you have any questions concerning this proposal, or if you require further information, please contact Darrell Carriger at (505) 397-0426 or myself at (505) 397-0418.

Thank you for your consideration of this proposal.

Sincerely,

Monte C. Duncan **Engineer's Assistant**

/mcd, Chrono, Attachments

cc: New Mexico Land Department, Santa Fe

New Mexico Oil Conservation Division, District I Office

Notification Contained

COMMINGLE PRE-APPLICATION

STATE LAND OFFICE RULES 1.053-1.055 APPLY TO COMMINGLING OIL AND GAS PRODUCTION FROM NEW MEXICO STATE LANDS. PLEASE PROVIDE THE FOLLOWING INFORMATION SO THAT WE CAN DETERMINE WHETHER OR NOT A COMMINGLE APPLICATION PACKAGE SHOULD BE SUBMITTED.

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		,	NAME:	ny:		Texac	o Explo	can, Engineration and der; Hobbs	Producti	ion Inc.	
			PHONE	MUME	BER:			18 or (505			

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT THE OIL, GAS AND MINERALS DIVISION AT (505) 827-5744.

DISTRICT

P.O. Box 1980, Hobbs, NM . 88240

OIL CONSERVATION DIVISION

Form C-107-A New 3-12-96

DISTRICT II

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

APPROVAL PROCESS:

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410

811 South First St., Artesis, NM 88210

APPLICATION FOR DOWNHOLE COMMINGLING

State of New Mexico Energy, Minerals and Natural-Resources Department

X Administrative __Hearing EXISTING WELLBORE X YES _ NO

Texaco Exploration & New Mexico "O" State	Production Inc. 205 E	Bender; Hobbs, NM	88240 Lea
OGRID NO. 022351 Property Cod	well No. Unit Li e API NO30	6-17S-34E (7sec-1wp-Hge s 025 32338 Federal	pacing Unit Lease Types: {check 1 or more} , State X , tendror! Fee
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zones	Lower Zone
Pool Name and Pool Code	Vacuum Blinebry		Vacuum Drinkard
Top and Bottom of Pay Section (Perforations)	6404'-7124'		7486'-7751'
3. Type of production (Oil or Gas)	011		Oil
Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	a. (Current) 2409 psi	a.	a. 1490 psi
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. ^(Original) NA	b.	b. ŅA
6. Oil Gravity (*API) or Gas BTU Content	36.1°	·	36.7°
7. Producing or Shut-In?	To be completed		Producing
Production Marginal? (yes or no)	Yes		Yes
If Shut-In, give date and oil/gas/ water rates of last production	Date: New Zone	Date: Rates:	Date: Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	(see attached)		
 If Producing, give date andoil/gas/ water rates of recent test (within 60 days) 	Date: Rates: NA	Date: Rates:	Date: 5/96 Rates: 11 BO, OBW,72 MC:
8. Fixed Percentage Allocation Formula -% for each zone	OII: Gas: 70 % 26 · %	Oil: Gas: %	Oii: 30 % Gas: 74 %
If allocation formula is based submit attachments with supplies.	upon something other than cu oporting data and/or explaining	rrent or past production, or is method and providing rate pr	based upon some other method ojections or other required data
 Are all working, overriding, and if not, have all working, over Have all offset operators been 	nd royalty interests identical in riding, and royalty interests be given written notice of the pro	all commingled zones? en notified by certified mail? posed downhole commingling:	Yes — No Yes — No X Yes — No
Will cross-flow occur? flowed production be recover	ℓ es $rac{X}{N}$ No $\;$ If yes, are fluids ed, and will the allocation form	compatible, will the formations nula be reliable. X Yes	not be damaged, will any cross No (If No, attach explanation
2. Are all produced fluids from a			
Will the value of production b			
	Management has been notifie	ed in writing of this application	Yes No NA
5. NMOCD Reference Cases for	Rule 303(C) Exceptions:	ORDER NO(S). NO	VE
* Production curve for For zones with no * Data to support all * Notification list of * Notificatio	ne to be commingled showing or each zone for at least one y production history, estimated pocation method or formula. all offset operators. working, overriding, and royalt ements, data, or documents re	ear. (If not available, attach e production rates and supporting ty interests for uncommon into	xplaination.) g data. erest cases.
hereby certify that the informati	on above is true and complete	to the best of my knowledge	and belief.
GIGNATURE Jan 19	france	TITLE PROD. ENG.	DATE
YPE OR PRINT NAME <u>Darrel</u>	1 J. Carriger	TELEPHONE NO.	505) 397-0426

Attachments

- 1. C-102 plats: A C-102 for each zone is attached
- 2. Production curve for each zone: A production curve for the Vacuum Drinkard is attached. However, because the Vacuum Blinebry is a new zone, the production had to be estimated from offset performance. Attached is a production curve from two Blinebry wells located in Unit letter K & L of the same section, township, and range, of the subject well. The two wells are the State "I" and the State "VB".
- 3. Estimated production rates: The plot described in item #2 above shows that production rates will probably begin around 40 BOPD for one month and then quickly fall to a steadier 25 BOPD. Allocation percentages for the subject well were determined using the 25 BOPD.
- 4. Data to support allocation method: The production plot described in item #2 above was used to estimate well performance (25 BOPD, 25 MCFPD) and determine an allocation split as follows:

	BOPD	MCFPD
Vacuum Drinkard	11	72
Vacuum Blinebry	<u>25</u>	25

TOTAL:

36 BOPD & 97 MCFPD

Therefore:

Drinkard Oil - 30%

Blinebry Oil - 70%

Drinkard Gas - 74%

Blinebry Gas - 26%

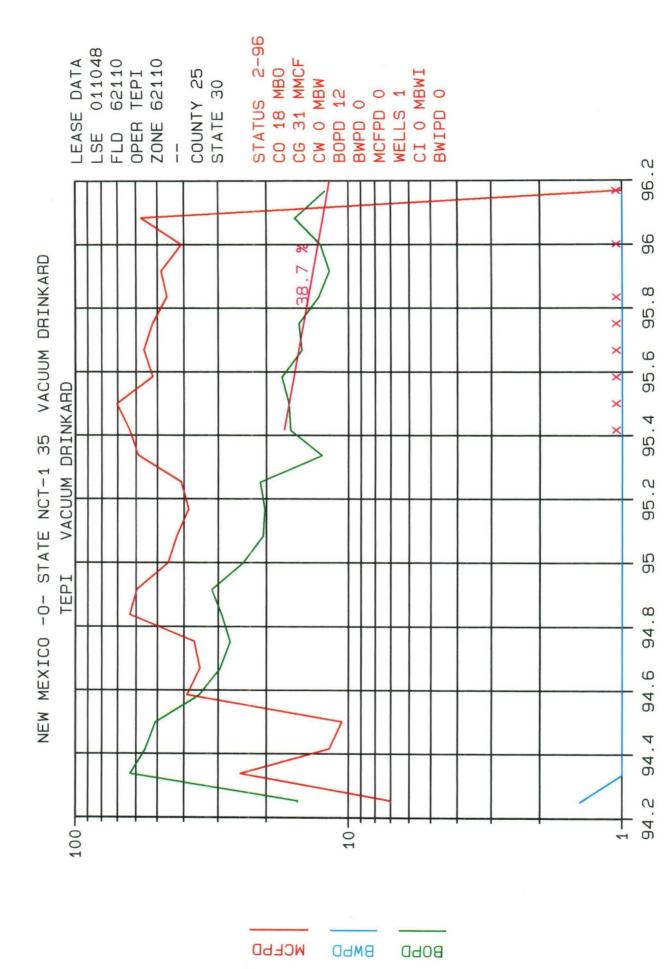
- 5. Attached is a list of all offset operators and their addresses
- 6. Working, overriding & royalty interests are all common for the Vacuum Drinkard and the Vacuum Blinebry zones (same school).
- 7. Additional information: Bottomhole pressures were acquired from the following:

Vacuum Drinkard: New Mexico "O" State #38 (new well): Pressure tested zone while

drilling (offset Drinkard)

Vacuum Blinebry: Marathon's Warn State Acc-2 #25 (offset Blinebry)

"VB" MCFPD ▲ "VB" BOPD -"I" MCFPD → "I" BOPD State "I" State "VB" Normalized Daily Production 40 35 30 (First 3 years) 25 Month 20 15 10 2 1000 100 10 Production



FARS

Offset Operators

Marathon PO Box 552 Midland, TX 79702

Phillips Petroleum 4001 Penbrook Odessa, TX 79763

Mobil Oil Co PO Box 633 Midland, TX 79702

Shell PO Box 576 Houston, TX 77001

Amerada Hess PO Box 2040 Houston, TX 77252

TWAIT NO

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
LO. Drawer DD, Antelia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aziec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

PEXACO EXPLORATION AND PRODUCTION Inc. New Mexico "O" State NCT-1 35 Lea Towards Socio O 17 South Reage O 2 17 South Reage Towards County O 34 East NMTM Lea 1875 Set from the East Lea Declarate Acresses Pool Inc. Pool	perator				1	Locato	•			1	Well 110	
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355 feet from the SOUTH PROBLEM Francisco From Pool 1. Collision the screege declinated to the subject well by colored posed or bedstern marks on the pile below. 1. Collision the screege declinated to the subject well by colored posed or bedstern marks on the pile below. 2. If more than one lease of different overamble is dedicated to the well, exiting an analysis of the pile below. 3. If more than one lease of different overamble is dedicated to the well, as the screen of the pile below. 3. If more than one lease of different overamble is dedicated to the well, patient and reputition, untilization, (open-pooling, std.) 3. If more than one lease of different overamble is performed been consolidated by communitization, untilization, (open-pooling, std.) 3. If more than one lease of different overamble is performed been consolidated by communitization, untilization, fore-pooling, std.) 3. If more than one lease of different overamble is a description which have scaled place consolidated. (Use reverse side of the state of the consolidated by communitization, untilization, fore-pooling, or otherwise) 3. If more than one lease of different overamble is a description which have scaled place consolidated. (Use reverse side of the consolidated by communitization, untilization, fore-pooling, or otherwise) 3. If more than one lease of different overamble is a deal of the consolidated by communitization, untilization, fore-pooling, or otherwise) 3. If more than one lease of different overamble is a deal of the consolidated by communitization, the consolidated by communitization, the consolidated by communitization, the consolidated by communitization, untilization, fore-pooling, or otherwise) 3. If more than one lease of different consolidated by communitization, the consolidated by communitization, untilization, untilization, un		L		17 8000			Basc	NMP.	M.I			····
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DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

P.O. Box Drawer DD, Artesia, NM 88211-0719 DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10,1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies ☐ AMENDED REPORT

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	Pool Code	³ Pool Name	BRY
30-025-32338	61850	VACUUM BLINEB	
4 Property Code	·	erty Name	⁶ Well No.
11048		O O STATE NCT-1	35
OGRID Number	•	rator Name	⁹ Elevation
022351		ION & PRODUCTION INC.	3990' GL

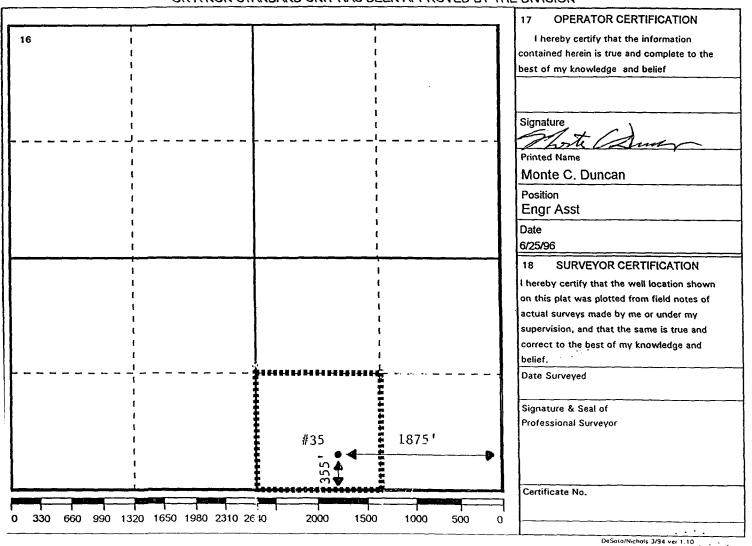
10 Surface Location

Ul or lot no.	Section	Township	Range	Lot.idn	Feet From The	North/South Line	Feet From The	East/West Line	County	l
0	36	178	34E		355	SOUTH	1875	EAST	LEA	

Bottom Hole Location If Different From Surface

UI or lot no.	Section	Township	Range	Lot.ldn	Feet From	The	North/South Line	Feet From The	East/West Line	County
12 Dedicated	Acres	13 Joint or Infill No	14	Consolidatio	n Code	15 Ord	ier No.			

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



STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

GOVERNOR

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

RE: Proposed:	
MC DHC 🔀	
NSL X	
NSP	
SWD WFX	
PMX	
entlemen:	Vacuum Blinebry and Vacuum Drinkard Pools New Mexico O State NCT-1 #34, Unit Letter P New Mexico O State NCT-1 #35, Unit Letter O
have examined the Texaco Ed	New Mexico O State NCT-1 #36, Unit Letter N New Mexico O State NCT-1 #37, Unit Letter I Section 36, T-17-S, R-34-E Lea County, New Mexico
TEXACO CA	
perator	Lease & Well No. Unit S-T-R
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ours) very truly	Lease & Well No. Unit S-T-R
Operator and my recommendat	Lease & Well No. Unit S-T-R ions are as follows: