Recease 11.30.93



November 4, 1993

Mr. William J. LeMay, Director New Mexico Oil Conservation Division 310 Old Santa Fe Trail Post Office Box 2088 Santa Fe, New Mexico 87504

File: CAW-297-986.511

Application for Exception to Rule 303-A Downhole Commingling Jicarilla A-2E Well 1120' FSL, 1520' FEL, Sec. 18, T26N-R5W Basin Dakota and Tapacito Gallup Pools <u>Rio Arriba County, New Mexico</u>

Amoco Production Company hereby requests administrative approval to downhole commingle production from the Basin Dakota and Tapacito Gallup pools in the Jicarilla A-2E well referenced above. This will also require a location exception for the Tapacito Gallup pool which Amoco is filing under a separate application. The ownership (WI, RI, ORRI) of these two pools is identical in this wellbore. Production methods are limited due to the 4 1/2" casing in the well. Downhole commingling will offer an economical method of production while protecting against reservoir damage, waste of reserve and violation of correlative rights.

A copy of this application will be sent to the offset operators. If there are any questions concerning this matter, please contact me at (303) 830-5072.

Sincerely,

J. W. Hawkins

Enclosures

cc: Wayne Branam Lara Kwartin

> Frank Chavez, Supervisor Amoco District III 1000 Rio Brazas Road Aztec, NW 87410

Meridian Oil, Inc. P. O. Box 4289 Farmington, NM 87499 Robert Kent Bureau of Land Management 435 Montano NE Albuquerque, NM 87107





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Application for Exception to Rule 303-SEGREGATION OF PRODUCTION FROM POOLS

D. REQUIREMENTS

(1) Name and address of the operator:

Amoco Production Company P. O. Box 800 Denver, CO 80201

(2) Lease name, well number, well location, name of the pools to be commingled:

Lease Name:	Jicarilla/A/
Well Number:	2E
Well Location:	11200' FSL & 1520' FEL
	Sec. 18, T26N-R5W
	Rio Arriba County, New Mexico
Pools Commingled:	Tapacito, Gallup
•	Basin Dakota

(3) A plat of the area showing the acreage dedicated to the well and the ownership of all offsetting leases.

Attached	(Attachment I)
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(4) A current (within 30 days) 24-hour productivity test on Division Form C-116 showing the amount of oil, gas and water produced from each zone.

Attached

(Attachment II)

(5) A production decline curve for both zones showing that for a period of at least one year a steady rate of decline has been established for each zone which will permit a reasonable allocation of the commingled production to each zone for statistical purposes. (This requirement may be dispensed with in the case of a newly completed or recently completed well which has little or no production history. However, a complete resume of the well's completion history including description of treating, testing, etc., of each zone, and a prognostication of future production from each zone shall be permitted.)

Dakota Completion: Historical production curve attached, well was shut-in since 1991.

(Attachment III)

Gallup Completion: New completion, no production history available, completion report attached.

(Attachment IV)

(6) Estimated bottomhole pressure for each artificially lifted zone. A current (within 30 days) measured bottom hole pressure for each zone capable of flowing.

Dakota Completion:	BH Press.	SI Tub. Press.	Fluid Level
Jicarilla B-5E	3560 psi	1090 psi	193

Jicarilla B5-E is representative of the Dakota SIBHP in this area. Jicarilla A-2E well has no SI pressure data available due to casing leak. This leak has been repaired during the Gallup completion work.

Gallup Completion:	BH Press.	SI Tub. Press.	Fluid Level
Jicarilla A-5	1827 psi	445 psi	3749

This well is in Section 20 diagonally offset to the Jicarilla A-2E and has been shut-in for about 2 years. This is best estimate of SI BH Press. for the Gallup formation in this area.

(7) A description of the fluid characteristics of each zone showing that the fluids will not be incompatible in the wellbore.

The fluids have no abnormal components that would prohibit commingling, or promote the creation of emulsions or scale (see attached produced gas and fluid analysis).

(8) A computation showing that the value of the commingled production will not be less than the sum of the values of the individual streams.

Dakota Product	<u>ion</u>	Gallup Production			
Oil, BOPD	3.6	Oil, BOPD	3.4		
Gas, MCFD	88	Gas, MCFD	1196		
Water, BWPD	0	Water, BWPD	3		

The combined production from the Gallup-Dakota formations will be approximately 1284 MCFD/7 BOPD/3 BWPD. Since the BTU content and API gravities of the produced fluids are very similar, we would expect the commingled production to have the same value as the sum of the individual streams.

(9) A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such formula:

Based on C-116 report:

	<u>Dakota</u>	<u>Gallup</u>
Gas -	88/1284 = 7%	1196/1284 = 93%
Oil -	3.6/7 = 51%	3.4/7 = 49%

(10) A statement that all offset operators and, in the case of a well on federal land, the United States Bureau of Land Management, have been notified in writing of the proposed commingling.

All offsetting operators will receive a copy of this application by certified mail. The offsetting operator is: Meridian Oil Inc., P. O. Box 4289, Farmington, NM 87499.

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies <u>DISTRICT I</u>

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O.Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator	*****				Lease Well No.					
Amoco Product	ion Co	ompany		·	JICARIL	LA A			2E]
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State of New Mexico . Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

DISTRICTJ P.O. Box 1980, Hobbs, NM 88240 DISTBICTJI P.O. Drawer DD, Artesia, NM 88210 P.O. Drawer DD, Artesia, NM 88210 DISTBICTJII

Submit 2 copies to Appropriate

District Office.

1000 Rio Brans Rd., Aztec, NM 87410

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(See Rule 301, Rule 1116 & appropriate pool rules.)

Revised 1/1/89 Form C-116

District Office. DISTRICTJ P.O. Box 1980, Hobbs, NM 88240 DISTRICTJI P.O. Drawer DD, Artesia, NM 88210 DISTRICTJII 1000 Riv Brazos Rd., Aztec, NM 87410 Submit 2 copies to Appropriate

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

Form C-116 Revised 1/1/89

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(See Rule 301, Rule 1116 & appropriate pool rules.)

DISTRICT I

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

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

DISTRICT III 1000 Rio Brazos Rd, Aztec, NM 87410 State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107 Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Filing Instructions Bottom of Page

APPLICATION FOR MULTIPLE COMPLETION

Operator	alateration and the second state of Ad	dress	
Amoco Production Compa	nny, P.O. Box 800, Den	ver, CO 80201	·
Lease	Well No. Ur	it Ltr Sec - Twp - Rge	County
Jicarilla A	2E	O 18 T26N R5W	Rio Arriba
All applicants for multiple comple	etion must complete Items 1 ar	d 2 below.	· · · · · · · · · · · · · · · · · · ·
1. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Tapacito Gallup		Basin Dakota
b. Top and Bottom of Pay Section (Perforations)	6780–6800		7288–7520
c. Type of production (Oil or Gas)	+ GAS		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
e. Daily Production X Actual Estimated Oil Bbls. Gas MCF Water Bbls.	3.43 BOPD 1196 MCFD 3.1 BWPD		3.6 BOPD 88 MCFD .02 BWPD

2. The following must be attached:

a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.

b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.

c. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

OPERATOR:	OIL CONSERVATION DIVISION
I hereby certify above information is true and complete to best of my knowledge, and belief.	Approved by:
Printed Name & Title Wayne Branam, Bus, Analyst	Title:
Date 092093 Telephone (303) 830-4912	Date:
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NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

FILING INSTRUCTIONS:

1) <u>District Approval</u> -- See rule 112-A-B -- Submit 4 copies of Form C-107 with attachments to appropriate district office.

2) Division Director Administrative Approval - See Rule 112-C -- Submit 2 copies of Form C-107 with attachments to Division office in Santa Fe and 2 copies of Form C-107 with attachments to appropriate district office.

3) Multiple completions not gualifying for District or Division Director approval may be set for hearing as outlined in Rule 112-A-E.



HPS Fri Oct 29 07:28:17 1993

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Form 3160-4 (October 1990)	DEPA	RTMEN	IT OF	THE INT	FERIOR		(See other in-	Expi	res: Dec	ember 31,1991
	BI	IRFALL OF		MANAGEMI	FNT		structions on reverse side)	5. LEASE DESIG	SNATION	AND SERIAL NO.
									CONTR.	ACT 110
WELL C	OMPLETIC	on or r	ECON	IPLETION	REPORT	AND L	.0G*	. IF INDIAN, A	JICA	RILLA
IL TYPE OF WEL	L: 0				OTHER			7. UNIT AGREE	MENT NA	
b. TYPE OF COM	IPLETION:									
				RESVR.	OTHER RECO	OMPLETIC	DN	8. FARM OR LE	ASE NAM	E, WELL NO.
2. NAME OF OPERA	ATOR			A	Itention:				JICA	RILLA A 2E
Amoco Productio	on Company			W	AYNE BRAN	AM		9. API WELL N	0.	
3. ADDRESS AND T	TELEPHONE NO,	80201			(303) 830	-4912		3003	922581
4. LOCATION OF W	VELL Report loca	tion clearly and	in accorda	ince with any State 1	requirements)*	·			POOL, OR	WILDCAT
At surface 1120	" FSL	1520'	FEL	-	UNITO			11. SEC., T., R.,	M., OR B	LOCK. AND SURVEY
At top prod, inte	rval reported bel	w						OR AREA		
									ection	18
At total depth								Township	26N	Range 5W
				14. PERMIT NO.	1	DATE ISSU	ED	PARISH	OR	13. STATE
	16 DATET D	DEACHED 1	7 DATE C	OME Ready to	nerd 1 18	EI EVATIO	NS (DE PKB	RIO ARI		
08/15/81	08/31	81		09/01/93	10.		6601GR	R1, 6R, 210.)	127. 200	
20. TOTAL DEPTH, M	D & TVD 21. PL	UG, BACK T.I	.,MD & T	VD 22. IF MULT	IPLE COMPL.,	23.	INTERVALS	ROTARY TO	OLS	CABLE TOOLS
7567'		7548'		HOWMA	1			YES		NO
24. PRODUCING INTE	ERVAL(S), OF TH	S COMPLETIO	ON - TOP,	BOTTOM, NAME	(MD AND TVD)	•			25.	WAS DIRECTIONAL SURVEY MADE
6780	-6800			CALLUD						NO
26 TYPE ELECTRIC A	ND OTHER LOG	S DIIN	······	GALLUP					27. WAS	WELL CORED
									271 1112	N
28.			CAS	ING RECORD (Report all string	s set in we	:11)			
CASING SIZE/GRAD	E WEIGHT, L	B./FT. I	EPTH SET	r (MD) H	OLE SIZE	TOP O	F CEMENT,C	EMENTING RECO	RD	AMOUNT PULLET
9 5/8"	36#		325'	1	2 1/4"	2505 X CL-	•B			·
4 1/2"	10.5#	·	7567		7 7/8"	1041 SX D	-79			····
·····						200 SX C1-	-8			
29		I INCO DE	COPD					TIPING PE	COPD	
SIZE	TOP (MD)	BOTTOM	(MD) S	ACKS CEMENT*	SCREEN (M	D) (C	SIZE	DEPTH SET (M		PACKER SET (MD)
						2	2 3/8"	6807'	<u> </u>	
1. PERFORATION RE	CORD (Interval, si	ze and number)		32.	ACID, SHO	OT, FRACTI	JRE, CEMENT	SQUEE2	le, etc.
SEE ATTACHED					DEPTH IN	TERVAL (M	(D) /	MOUNT AND KI	ND OF M	ATERIAL USED
•					6780'	6800	<u>,</u>	SEE A	ATTACI	HED
						·····				
								<u></u>		
3.*	·····			PRO	DUCTION					
DATE FIRST PRODUC	TION PROI	DUCTION ME	THOD (Flo	wing, gas lift, pump	ing - size and typ	e of pump)		WELL S shue-	STATUS	(Producing or
03 15 199	HOURS TESTED	CHORE	SIZE	FLON		GAG	S. MCF	WATER - RPI		U PIPELINE
09 15 1993	24		3146	TEST PERIOD	3 47		1198	3 1		348.688
LOW TUBING PRESS	CASING PRESSU	TRE CALCU	LATED	OIL - BBL.	GAS - M	CF.	WATER	- BBL	OIL GRA	VITY - API (CORR.)
221	🗮 🖗 411 🖣	24-HOU	R RATE	3.43		1196	1	3.1	65 (@ 60 DEGREES
4. DISPOSITION OF G	iAS (Sold, used for	fuel, vented, et	rc.)	·	·····		TEST WI	TNESSED BY		
		ТОВ	E SOLD	· · · · ·		• .				
5. LIST OF ATTACHM	CENTS 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	형순동속 · · · 남주				- :	•	··· · · · ·	•	e de la composition d La composition de la c
e C m	that the foregoing	and attached	informatio	on is complete an	d correct as det	ermined fr	om all availal	ble records		
36. I hereby certify t		A			· .					
36. 1 hereby certify t	Wans ?	Br-		TTTT	BUSI	IESS ANA	ALYST	DATE	. (09-20-1993

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081893 MIRUSU, TAKE PRESSURES, TBG AND CSG WERE DEAD, NDWH, NUBOP, TIH W/7 JTS TBG DID NOT TAG FILL, TOH, TIH W/SCRAPPER TAG AT 7557 W/9' FILL, TOH, TIH W/RBP & PKR TO 7200', SET RBP & PRESS TEST, DID NOT TEST, MOVE RBP UPHOLE 30' RESET & RETEST, TEST TO 1000#, HELD, BLED OFF & RETEST, DID NOT HOLD, TIH LATCH ONTO RBP, TOH, SET RBP AT 7061', TEST TO 1000#, HELD, TOH TO 6624', TEST CSG TO 3500#, HELD, TOH W/PKR LOOKING FOR LEAK, CSG LEAKS FOUND 2580' TO 2107', TOH, PMP 8 BBLS KCL WATER TO LOAD HOLE, MIX & PMP 22BBLS CMT/.8%HALAD-322/.5% CAL SEAL SPOT OVER LEAKS, DISP W/3 BBLS 2% KCL, TOH, LOAD HOLE W/4.75 BBLS KCL WATER, SQZ W/11 BBLS AT 600#, WAIT 45 MIN, SQZ W/2 BBLS CMT AT 240#, WAIT 30 MIN, SQZ W/.25 BBL. SI, TIH W/ BIT & SCRAPER, TAG TOC AT 2147', DRL CMT TO 2651', CIRC CLEAN, PRESS TEST TO 500#, HELD, TOH, TIH W/TBG TO 6800', SWAB TO 6000+, TOH,

TH PERF THE GALLUP INTERVAL W/4 JSPF 12G CHARGE FROM 6780' TO 6800', NO INITIAL PRESS RESPONSE WAS SEEN AFTER PERFING, TH W/ FRAC STRING, SET PKR AT 6633' AND PRESS TEST TO 6500#, HELD, FISH STD VALVE,

FRAC WELL W/ 56,000 GALLONS OF 70 QUALITY NITROGRN FOAM AND 110,000 LBS 20/40 BRADY SAND DOWN THE CSG AT 15 BPM, AND WHTP = 3050 PSI, DISPLACE W/ BASE GEL

SI AND RIG UP FLOWLINE, OPEN WELL AT 6:30 PM, TBG 890# FLOWING THRU .25" CHOKE, .REL PKR, KILL WELL W/80 BBLS KCL WATER, TOH, TIH W/ PRD TBG, TAG SAND AT 6776', TOH 3 STDS, TAKE PRESS READINGS CSG480# TBG 480#, CO SAND FROM 6776' TO 6932', TOT OF 156' OF SAND, W/127,000SCF N2, TOH, LAND PRD TBG AT 6807', PMP 5 BBLS KCL KILL WELL, NDBOP, NUWH, RDSU 090193, CO CMT FROM PIT. TEST GALLUP TBG 90# CSG 400#, MADE SEVERAL ATTEMPTS TO KICK OFF WELL, TBG BLEW DN TO 0# IN 5 MIN, CSG MAINTAINED 400#, WOULD NOT UNLOAD, BLEW 2 HRS, CSG PRESS BUILT A LITTLE. TBG PRESS 68# CSG 450#, TURNED WELL ON, BLEWDOWN TO 0#, 2ND ATTEMPT 2 HRS LATER, BLEW DOWN TO 0#, WILL NOT UNLOAD & FLOW. TBG 75# CSG 455#, TBG BLEW DOWN IN 5 MIN, BLEW WELL FOR 3 HRS, WOULD NOT UNLOAD. TBG 160# CSG 480#, BLEW WELL 2 HRS, WELL STARTED TO COME AROUND, SI FOR 15 MIN, TURNED INTO TEST SEP W/150# BACK PRESS, FLOWING TBG 175#, CSG 425#. TBG 162# CSG 425# FLOWING 706 MCFD.TBG 165# XSG 420# FLOWING 743 MCFD.TBG 200# CSG 440# 798 MCFD.

JICARILLA A 002E Location – 180– 26N– 5W SINGLE dk Orig.Completion – 10/81 LAST FILE UPDATE – 9/93 BY CSW

		 BOT OF 9.625 IN OD CSA 325 36 LB/FT K-55 CASING TOC - SURF
OJ AT 1775		
<u>PC AT 3095</u> LS AT 3175		
MV AT 4805		
MAN AT 5500		
GP-4SPF PERF 6780-6800]	
DK1SPF PERF 7288-7292 7298-7302		801 OF 2.375 IN OD TBG AT 7297
7422 - 7434 7468 - 7474 7504 - 7520		
PBTD AT 7548 FT.		
TILENAME: 0 3922581	TOTAL DEPTH 7567 FT.	BOT OF 4.5 IN OD CSA 7567 11.6 LB/FT, K-55 CASING CLASS TOC-SURFACE

SEP 30 '93 1	27:18 AMOCOService	2005 325 4000 PHUNE NU. : 505 325 4000	P.2/2
TO JAKE	1115 FA	RMINGTON AVE FARMI	INGTON, NM 87401
		a 17 b 7 V	(505) 325-6622
L CHA	WELL/LE	ASE INFORMATION	ate HA: Undaage
COMPANY :	AMOCO PRODUCTION COMP.	ANY PRESSURE:	200 PRIG
WELL NAME:	JICARILLA A-2E	SAMPLE TEMP.;	DEG.F
LOCATION:	·	DATE SAMPLED:	9/14/93
FORMATION:	GALLUP	SAMPLE SRC 1	Meter Tube
COUNTY :	RIO ARRIBA, NM	SAMPLED BY:	DICK THOMPSON
STATION NO.	:	PROD FOREMAN:	JAKE NUNEZ

STATION NO. :

REMARKS: TEST WELL

ANALYSIS

COMPONENT	MOLE 9	GPM**	B.T.U.*	SP. GR. *
NITROGEN CO2 METHANE BTHÂNE PROPANE I-BUTANE N-BUTANE I-PENTANE N-PENTANE	1.141 0.616 76.851 12.444 6.352 0.682 1.615 0.473 0.439	0.0000 0.0000 3.3954 1.5045 0.2275 0.5195 0.1756 0.1624	0,00 0.00 777.95 220.72 134.97 22.22 52.82 18.97 17.66	0.0110 0.0094 0.4257 0.1292 0.0815 0.0137 0.0324 0.0118 0.0109
HEXANE	በ. 387	0,1724	19.92	0.0125
TOTAL	100.000	6.1583	1265.23	0.7381

* . @ 14.730 PBIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 15.025 & 60 DEG. F

COMPRESSIBILITY FACTOR	(1/2)	1.0038
BTU/CU.FT. (DRY) CORRECTED FOR	(1/2)	1295.5
BTU/CU.FT. (WET) CORRECTED FOR	(1/Z)	1272.9
REAL SPECIFIC GRAVITY		(0.7405)

ANALYSIS RUN AT 15.025 PSIA & 60 DEGREES F

CYLINDER PRESSURE:	194 PSIG
CYLINDER NO.;	RC3224
DATE RUN:	9/ 15/93
ENERSIARA BITTE BU-	CHREEP DURREN

SEP 20 '93 06:30 AMOCO

3:00 FR HALIBURTON-FARMINGTON 05 327 2534 TO 17746510

HALLIBURTON DISTRICT LABORATORY

WATER ANALYSIS DATA SHEET

₽: <u>9-15-93</u>		Report No.
DCO PRODUCTION		
JAKE Date R JICARILLA A #2E - GP	eceived _	-15-93
Format	ion	
		Data For Repor
	Specif i	c Gravity 1.004
	рX	6,80
Ion Calculation		ppm
Fe Log		15
K %T		300
Na \$T		935
Ca		47
Mg	······	28
C1		
\$04 Log		<10
003		
HC03		952
TDS		3620
		Rw 3,71 @ 65.5°

Notice

on sound engineering practices, but because of variable well contributes and other information which must be relied upon, Halliburton arranty, express or implied, as to be accuracy of the data or of any calculations or opinions expressed herein. You agree that Halliburton • any loss or damage whether due to negligence or otherwise arking out of or in connection with such data, calculations or opinions.



				the Maine ////
THE FELT			NO.	JKUG / KLL =
				////
	ENERGY, MINERALS	and NATURAL R	ESOURCES DIVI:	SION
	RECEIVED	AZTEC DISTRICT OFFI	CE	
BRUCE KING governor	193 DE: 20 AM 9 49	ANITA LOCKWOOD CABINET MCRETARY	\cap	1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (SND 334-6170
Date:	12/17/93	\mathbf{v}	agy	
		All		
Oil Cons	ervation Division			
P.O. Box	2088	-		
Santa Fe,	NM 87504-2088			
RE: P	roposed MC		Proposed DHC	X
P	roposed NSL		Proposed SWD	
P	roposed WFX		Proposed PMX	<u> </u>
P	roposed NSP		Proposed DD	
Gentleme	en:			
I have ex	amined the application rece	eived on Nor.	15,97	
for the	amow		cmille a #	21=
	OPERATOR	0	LEA	SE & WELL NO.
\mathcal{O}_{-1}	8-2611-5W	an	d my recommendati	ons are as follows:
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Yours truly,