FOGGED

ABOVE THIS LINE FOR DIVISION USE ONLY

### NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

	THIS COVERS	ADMINISTRATIVE APPLICATION COVERSHEET  MEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS
Applic	[PC-Pc	[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] nhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] ool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] alified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	[A]	PPLICATION - Check Those Which Apply for [A]  Location - Spacing Unit - Directional Drilling  NSL NSP DD SD  k One Only for [B] and [C]
	[B]	Commingling - Storage - Measurement  DHC   CTB   PLC   PC   OLS   OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  ☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
[2]	NOTIFICA [A]	TION REQUIRED TO: - Check Those Which Apply, or Does Not Apply  Working, Royalty or Overriding Royalty Interest Owners - (1) common interest)
	[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
٠	[E]	☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	☐ Waivers are Attached
[3]	INFORMAT	TION / DATA SUBMITTED IS COMPLETE - Statement of Understanding
I here	by certify that	, or personnel under my supervision, have read and complied with all applicable Rules an

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.

Amy t- Spang	any	T. Spana	legulato	ry Compliance Analyst	8/2/0
Print or Type Name	Signature /	•	Title	,	Date



200 WestLake Park Blvd. Houston, Texas 77079 Post Office Box 4587 Houston, Texas 77210-4587

August 2, 2001

New Mexico Oil Conservation Division Attn: David Catanach 2040 S. Pacheco Street Sante Fe. NM 87505

Bureau of Land Management – Roswell 2909 W 2<sup>nd</sup> Roswell, NM 88201

RE:

ARCO Permian Downhole Commingling Application Jaguar Federal "26", Well No. 1 Wildcat (Atoka & Strawn) Eddy County, NM

Mr. Catanach:

ARCO Permian respectfully requests administrative approval for downhole commingling on the Jaguar Federal "26" Well Number 1. Attached are the supporting documents for this application.

If you have any questions, please contact me at (281) 366-7655. Please sent the approved permit to:

ARCO Permian ATTN: Amy T. Spang 200 Westlake Park Blvd., Rm 266 Houston, TX 77079

Yours very truly,

Umy 7. Spang

Amy T. Spang

Regulatory Compliance Analyst

**Attachments** 

XC:

NMOCD District 2 – Artesia Office Mike Brock – EUN Jeff Robinson – WL4-245 Central Files – WL1 – 0.320 R/C Files State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A Revised May 15, 2000

District II

District III

District IV

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

APPLICATION FOR DOWNHOLE COMMINGLING

APPLICATION TYPE
\_\_\_\_Single Well
\_\_\_Establish Pre-Approved Pools
EXISTING WELLBORE
\_\_\_\_ Yes \_\_\_\_No

According Permian | P.O. Box 1610 | Midland, TX. 79701

Operator | Address |

Jayuar Federal "26" # 1 | A \$26,7205 | R21E | Eddy

Lesse | Well No. | Unit Letter-Section-Township-Range | County

OGRID, No. 000990 | Property Code 25336 | API No. 30-015-31566 | Lease Type: | Federal | State | Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Wildcat (Strawn)		Wildcat (Atoka)
Pool Code	,		
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	7358' - 7363' 7445' - 7451'		7673'-7668'
Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
Bottomhole Pressure (Note: Pressure data will not be required if the bonom perforation in the lower zone is within 150% of the depth of the top perforation in the upper note)			
Oil Gravity or Gas BTU (Degree API or Gas BTU)	Sq. = 0.650		sq. = 0.650
Producing, Shut-In or New Zone	Sg. = 0-650 Producing		sg. = 0.650 Producing
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shill be required to smeth production	Date:	Date:	Date:
estimates shif supporting data.)	Rates:	Rates:	Rates:
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil Gas	Oil Gas	Oil Gas
than current of pass production, supporting data or explanation will be required.)	% %	% %	% %

#### ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones?

If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?

/es\_X\_No\_\_\_\_

Are all produced fluids from all commingled zones compatible with each other?

Yes\_X\_ No\_\_\_

Will commingling decrease the value of production?

/cs\_\_\_\_ No\_X

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?

Yes\_X\_ No\_\_\_\_

NMOCD Reference Case No. applicable to this well:

#### Attachments:

C-102 for each zone to be commingted 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.

Notification list of working, royalty and overriding royalty interests for pacommon interest cases.

ling royalty interests for uncommon interest cases.

#### Any additional statements, data or documents required to support commingting.

#### PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools
List of all operators within the proposed Pre-Approved Pools
Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
Bottomhole pressure data.

I hereby certify th	ist the information	n above is true and	d complete to the	best of my kno	wledge and beli	ef.
	M	$\mathbf{c}$				
SIGNATURE	april I.	Spang	title_le	gulatory	Analyst	DATE
		-		7		

TYPE OR PRINT NAME AMY T- Spang

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

#### State of New Mexico

Energy, Minerals and Natural Resources Department

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

Pool Name

Atoka + Strawn)

Fee Lease - 3 Copies

DISTRICT II P.O. Brawer DD, Artesia, NM 58211-0719

DISTRICT III

1000 Rio Brazos Rd., Astec, NM 87410

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

Well Number

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

API Number

30-015-31566

Property Code

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Property Name

Pool Code

NM 2533	36	JAGUAR FEDERAL 1							
OGRID No. Operator Name							Elevatio		
00099	OOO990 ARCO PERMIAN							4403	
					Surface Lo	cation			
UL or lot No.	Section	Township		Lot Idn	Feet from the	1 '	Feet from the	East/West line	County
A	26	20 S	21 E		735	NORTH	660	EAST	EDDY
			Bottom	Hole Lo	cation If Dif	ferent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	····	<u> </u>			<u> </u>				
Dedicated Acres	Joint o	or Infill	Consolidation	Code 0	rder No.				
320									
NO ALLO	WABLE V					UNTIL ALL INTEI N APPROVED BY		EEN CONSOLIDA	ATED
			NON DIE			THE THOUSE DE	THE DIVISION		
	       				   	4392.1'	I hereb contained herei best of my know	OR CERTIFICA'  ny certify the the in  n is true and compl  whedge and bellef.	formation
	- — — <del> </del>         		Signature  Any Printed Name  Regulation  Title  8/2  Date						· · · · · · · · · · · · · · · · · · ·
	+           						I hereby certify on this plat w actual surveys supervison, as		Non shown d notes of under my r true and if.
	]				       		Renold w.o. N	00+11-1	ON. 3239

#### District I

1625 N. French Dr., Hobbs, NM 88240

District II

811 South First, Artesia, NM 88210

#### State of New Mexico Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION 2040 South Pacheco

Form C-104 Revised March 25, 1999

Date

Submit to Appropriate District Office

District III 5 Copies Santa Fe, NM 87505 1000 Rio Brazos Rd., Aztec, NM 87410 District IV ☐ AMENDED REPORT 2040 South Pacheco, Santa Fe, NM 87505 REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OGRID Number Operator name and Address ARCO PERMIAN 000990 P.O.BOX 1610 <sup>3</sup> Reason for Filing Code MIDLAND, TX, 79702 NW 4 API Number 5 Pool Name 6 Pool Code 30-015-31566 WILDCAT (ATOKA & STRAWN) Property Code 8 Property Name 9 Well Number NM 25336 JAGUAR FEDERAL "26" II. **Surface Location** UL or lot no. Section Township Range Lot. Idn Feet from the North/South Line Feet from the East/West line County 735 NORTH 660 EAST EDDY **Bottom Hole Location** UL or lot no Section Township Lot. Idn Feet from the North/South Line Feet from the East/West line County 13 Producing Method Code 15 C-129 Permit Number <sup>17</sup> C-129 Expiration Date 14 Gas Connection Date C-129 Effective Date 12 Lse Code 7/17/01 F III. Oil and Gas Transporters 18 Transporter OGRID 19 Transporter Name 20 POD 21 O/G <sup>22</sup> POD ULSTR Location and Address and Description EL PASO FIELD SERVICES 007057 2812284 SAME NAVAJO 015694 SAME Produced Water 24 POD ULSTR Location and Description Well Completion Data 25 Spud Date <sup>26</sup> Ready Date 27 TD 28 PBTD <sup>29</sup> Perforations DHC, MC 7358-8045 DHC 2/11/01 33 Depth Set 31 Hole Size 32 Casing & Tubing Size 34 Sacks Cement 12-1/4 8-5/8 1400 SURF 7-7/8 5-1/2 8395 590' RKB 2-3/8 (TUBING) 7660 VI. Well Test Data 36 Gas Delivery Date 35 Date New Oil 37 Test Date Tbg. Pressure 38 Test Length 40 Csg. Pressure 7/17/01 7/17/01 7/24/01 24 HRS 300 460 <sup>45</sup> AOF Water 41 Choke Size Gas 46 Test Method 83 <sup>47</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. OIL CONSERVATION DIVISION Approved by: Signature: Printed name: AMY T. SPANG Title: Approval Date: REGULATORY COMPLIANCE ANALYST Date: Phone: 8/2/01 281-366-7655 48 If this is a change of operator fill in the OGRID number and name of the previous operator

Printed Name

Previous Operator Signature

Form 3160-4 (July 1992)

SIGNED.

## UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN DUPLICATE®

FORM APPROVED OMB NO. 1004-0137

(See other instructions on

Expires: February 28, 1995
LEASE DESIGNATION AND SERIAL NO.

DATE 8/2/01

		BURE	AU OF	LAND M	ANAGE	MENT			reve	rse side)	1	-2533		AND SERIAL NO
VELL COMP	LETIC	ON OF	REC	COMPL	ETIC	N REF	ORT A	ND I	LOG*					OR TRIBE NAME
a. TYPE OF WELL:		OIL	u 🗆	GAS WELL X	l .	DRY 🔲 (	Other				7. UNII	AGREEN	ENT NA	ME
b. TYPE OF COMPL	ETION:					JK1 '	July 2							
WELL X	WORK (	DEE EN	<b>*</b> · 🔲	PLUG BACK	D(f	SVR (	Other		n		8. FAR	M OR LEA	SE NAM	E, WELL NO.
2. NAME OF OPERATOR											1			AL "26" 1
ARCO Permian											\	WELL NO.		
3. ADDRESS AND TE								-			l	-01 E-1		•
P.O. Box 1610  4. LOCATION OF WELL					e with an	v State ceauli	rements) *	28	1-366-	7655		<u>=015=:</u> LD AND P		WILDCAT
At surface	(Report	iocumon cie	.uriy unu	in accoraanc	c man anj	, Didic requi	· cincina)				WI	LDCAT		
735' FNL & 660		la										TOKA		
At top prod. interval i	геропеа ве	iow										C., T., R., M O SURVEY		
At total depth					LA BCD	MIT NO.		DATE	eel IED			-T20S	-R21E	
					14. PER	MII NO.		I	220ED			USH		13. STATE
				<del>,</del>	<u>.                                    </u>						<u></u>	EDDY		NM
15. DATE SPUDDED	1 .	E T.D. REAC	HED	1 .		eady to prod.	'		•	, RKB, RT, G	R, ETC.)*		19. EL	EV. CASINGHEAD
2/11/01	<del></del>	12/01		7/16	· · · ·			440	)3' GR				L	<del></del>
20. TOTAL DEPTH, MD &	TVD	1		D., MD & TVD	22	IF MULTIPL HOW MANY	**			ERVALS LLED BY	RO	TARY;TOO	XLS	CABLE TOOLS
83951		791		On DOTTOM		AND TIME	2			<u>→</u>	<u> </u>	<u> </u>		WAS DIRECTIONAL
24. PRODUCING INTERV	AL(S), OF 1	HIS COMPL	ETION - 10	OP, BOTTOM,	NAME (MI	ינטאו טאאט							*	SURVEY MADE
7358'-7673'	(Atok	a + S	strau	un)									Ì	N
26 TYPE ELECTRIC AND			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							**.			27 WA	S WELL CORED
MICRO CEL/ GR														N
28.				CASI	NG REC	ORD (Repo	rt all strings :	set in wei	(I)					
CASING SIZE/GRADE	W	EIGHT, LB /I	FT.	DEPTH SET	MD)	НО	LE SIZE		TOP O	CEMENT, C	EMENTIN	G RECOR	D	AMOUNT PULLED
-5/8	32			1400		12-1/4			SURF_					NA
-1/2	17_			8395		7-7/8			590' R	Œ				NA.
						<b> </b>								
		-				<u> </u>			1 30			10.550		
size T	TOP (	MD)		RECORD DM (MD)	SACKS	CEMENT*	SCREEN	(MD)	30. St	'E		NG REC		PACKER SET (MD)
1		,	20110	, , , , , , , , , , , , , , , , , , ,	ditoito	Cartain	00:000	(	2-7			7660		Tricker Ser (ND)
										78				
* PERFORATION RECO	RD (Interv	al, size and	number)	1			122	AC	TOHS OF	FRACTU	RE CEM	ENT SO	lieeze	FTC
7358-7363 (	6 HOLES	s) & 74	51-7	445 <sup>7</sup> (7 HC	(LES			NTERVA	L (MD)					TERIAL USED
7668-1673 (	12 HOL	ES)		•				68'-7		ACID	W/ 6	00 GAI	\$ 7.	5% HCL
8010-8014 (	8 HOLES	s) & 80	43-80	45 (5 HC	TES)				7445'	ACID	W/ 1	500 C	IS 7	.5% HCL
		,		(				58'-7		FRAC	W/ 5	2000 1	20/	40 SND
								0'-8	3045'	CIBE	SET	a 7910	<u>'</u>	
DATE FIRST PRODUCTIO	N .	PRODU	ICTION M	ETHOD (Flow		PRODUCT		e of num	n)			WELLS	TATUE	(Producing or
7/17/01	.,	1	VING	LITIOD (T. IO.		)., P	once and type	c oj pang	<b>P</b> )			shut	-in)	RODUCING
DATE OF TEST	HOURS	TESTED		OKE SIZE	PROD	"N. FOR	OL-BBL.		, GAS-M	CF	. WATE	R - BBL.		GAS - OIL RATIO
7/26/01	24		- 1	2/64	TEST	PERIOD	0		83		5			
FLOW, TUBING PRESS.		PRESSURE	CA	LCULATED	, OIL -	BBL.	<del></del>	- MCF.	1	WATER -		1	OIL GR	AVITY - API (CORR.)
300	460		24-	HOUR RATE						1				•
34. DISPOSITION OF GAS	(Sold, use	d for fuel,	vented, et	c.)			•			····	TEST W	ITNESSE	DBY	
SOLD														
35. LIST OF ATTACHMEN	its												•	
16. I hereby certify that the f	innegning and	attached info	mation is c	omolete and non	race as deta-	mined from all	aunilable mees						_	

TITLE REGULATORY COMPLIANCE ANALYST

Form 3160-5 (November 1994)

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

#### SUNDRY NOTICES AND REPORTS ON WELLS

FORM APPROVED Budget Bureau No. 1004-0135

Expires	November 1	30	2000
Scriet N			

э.	Lease	<b>301111</b>	MO.	

SUNDRY NOTICES	NM 25336					
Do not use this form for abandoned well. Use For	r proposals to drill or to re m 3160-3 (APD) for such			6. If Indian, Al		
SUBMIT IN TRIPLICATE	- Other instructions on re	verse side		7. If Unit or CA	VAgreement, 1	Name and/or No.
I. Type of Well Oil Well Well Other				8. Well Name a		#1
2. Name of Operator						
ARCO Permian  3a. Address	1.	3b. Phone No. (include area co	dal	9. API Well No		
P.O.BOX 1610, MIDIAND, TX 79702	1	81-366-7655	ac)	30-015-315		
4. Location of Well (Footage, Sec., T., R., M., or Survey Description	-	01 500 7005		10. Field and P WILDCAT	ool, or Explora	itory Area
735' FNL & 660' FEL	•			(ATOKA & S	TRAWN)	
SEC 26, T20S, R21E				11. County or I		
220 20, 2200, 2200				EDI	YC	MM
12. CHECK APPROPRIA	TE BOX(ES) TO IND	ICATE NATURE OF NO	TICE, REPORT	OR OTHER	DATA	
TYPE OF SUBMISSION	, , ,		E OF ACTION			
X Notice of Intent - DHC	Acidize	Deepen	Droduction.	(Start/Resume)		Shut-Off
Application				•		
Subsequent Report	Alter Casing	Fracture Treat	Reclamation	n	Well In	ntegrity
	Casing Repair	New Construction	Recomplete	:	X Other	COMPLETION
Final Abandonment Notice	Change Plans	Plug and Abandon	Temporaril	y Abandon		
	Convert to Injection	Plug Back	Water Disp	osal		
following completion of the involved operations. If testing has been completed. Final Abandonment N determined that the final site is ready for final inspection of the final site is ready for final inspection of the final site is ready for final inspection of the final site is ready for final inspection of the final site is ready for final inspection of the final site is ready for final inspection of the final site is ready for final inspection of the final site is ready for final inspection of the final site is ready for final	on) 014' & 8043'-8045' 018' & 8043'-8045' 07800'. 073' (12 holes). 081	' (13 holes). Set Cl. No gas produc Acidized Atoka per 63' (6 holes) & 74 1. ' (15 holes) down	RBP (8100 ed. fs w 600 ga 51'-7445' (	'. 1 7.5% HCl 7 holes).	L <b>.</b>	
14. I hereby certify that the foregoing is true and correct Name (Printed Typed)  AMY T. SPANG  LUMY T. Spang		Title REGULA  Date 8/2/01	IORY COMPLIZ	ANCE ANALY	ST	
ТН	S SPACE FOR FED	ERAL OR STATE OF	ICE USE			
Approved by		Title			Date	
Conditions of approval, if any, are attached. Approval o certify that the applicant holds legal or equitable title to which would entitle the applicant to conduct operations thereon.	of this notice does not we those rights in the subje	arrant or Office				

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

	0	۸	TI	N
_		м		IV

Jaguar Federal 26 #1

Sec 26 T20S R21E Eddy County, New Mexico

**LEASE & WELL** 

(Give Unit, Section, Township and Range)

**OPERATOR** 

BP P. O. Box 1610 Midland, Texas 79701

#### **DRILLING CONTRACTOR**

NABORS DRILLING USA, INC.

The Undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

following results	'•				
DEGREES @ DI	EPTH	DEGREES @ [	DEPTH	DEGREES @ DEPTH	DEGREES @ DEPTH
3/4	1979	2 1/4	8400		
3/4	2494				
1	2911				
1/2	3929				-
1/2	4410				
1/2	4956				
1 1/4	5471				-
1 3/4	5955				
4 1/2	6395				
3 3/4	6555				
3 1/2	6683				
3 1/2	6909				
2 1/2	7166				
2 1/2	7584				
3	8034				
		Drilling Contrac	otor _	Nabors Drilling USA, Inc.	

Ву Brent Sanders, Manager-Contracts & Marketing

Subscribed and sworn to before me this 24th day of

My Commision Exp

DONNA WESTBROOKN plary Public **Notary Public** State of Texas

MIDLAND

County

**TEXAS** 



## **Fax**

To: David Catanach	From: Amy Spang/Arco Permia
Fax: (505) 476 - 3407	Fax:
Phone:	Phone: (281) 366-7655
Pages: 3	Date: 8/20/01
Re: Form C-107-A (Incomple	cc:
☐ Urgent ☐ For Review ☐ Plea	ase Comment   □ Please Reply   □ Please Recycle
• Comments:	

Mr. Catanach,

Affached is the requested Administrative

Application checklist for Arco Permian's - Jaguar Jederal

26'- well # 1. You should also receive the allocation method data by Fed Ex this morning (8/20/01). Please call me at (281) 366-7655 if you don't receive it. Thanks,

na militar na managa da ay da ka da



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Jennifer A. Salisbury

Cabinet Secretary

August 14, 2001

Lori Wrotenbery
Director
Oil Conservation Division

ARCO Permian P.O. Box 4587 Houston, Texas 77210-4587

Attention: Ms. Amy T. Spang

Re:

Form C-107-A

Jaguar Fèderal "26" No. 1

Dear Ms. Spang:

This letter acknowledges the receipt of your administrative application dated August 2, 2001, to downhole commingle the the Strawn and Atoka formations in the Jaguar "26" Federal Well No. 1 located in Section 26, Township 20 South, Range 21 East, NMPM, Eddy County, New Mexico. The Division received your application on August 7, 2001.

Our preliminary review indicates that the information provided in the application is not sufficient to process the administrative order. The following information is necessary:

- a) Administrative Application Checklist
- b) A description of the method by which production shall be allocated to each of the commingled zones and supporting data.

Since the submitted information is insufficient to review, the application was Ruled Incomplete on August 14, 2001. Please submit the above stated information by August 21, 2001.

The Division cannot proceed with your application until the required information is submitted. Upon receipt, the division will continue to process your application. The additional information can be faxed, or mailed to the Division. If the necessary information is not submitted, your application will be returned to you.

If you have any questions, please contact me in Santa Fe, at (505) 476-3466.

Sincerely,

David Catanach
Petroleum Engineer

281 366 7688

LOGCEDIN SUSPENSE ENGINEER

T-020 P.003/003 F-043

ABOVE THIS LINE FOR DIVISION USE ONLY

### NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -



		1220 South St. Francis Drive, Santa Fe, Ni	1 87505
		ADMINISTRATIVE APPLICAT	TION CHECKLIST
THIS	CHECKLIST IS MA	NDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FO WHICH REQUIRE PROCESSING AT THE DIVISI	OR EXCEPTIONS TO DIVISION RULES AND REGULATIONS ON LEVEL IN SANTA FE
Applica	[DHC-Dowr [PC-Po	s: idard Location] [NSP-Non-Standard Proration ihole Commingling] [CTB-Lease Commingl ol Commingling] [OLS - Off-Lease Storage]	n Unit] [SD-Simultaneous Dedication] ing] [PLC-Pool/Lease Commingling] [OLM-Off-Lease Measurement] re Maintenance Expansion]
[1]		PLICATION - Check Those Which Apply fo	
	[A]	Location - Spacing Unit - Simultaneous Ded NSL NSP SD	ication
		One Only for [B] or [C]	
	[B]	Commingling - Storage - Measurement DHC	OLS OLM
	[C]	Injection - Disposal - Pressure Increase - En  WFX PMX SWD II	hanced Oil Recovery PI
	[D]	Other: Specify	
[2]		ION REQUIRED TO: - Check Those Which Working, Royalty or Overriding Royal	
	(B)	Offset Operators, Leaseholders or Surfi	ace Owner
	[C]	Application is One Which Requires Pu	blished Legal Notice
	[D]	Notification and/or Concurrent Approv U.S. Bureau of Land Management - Commissioner of Public	
	[E]	For all of the above, Proof of Notificati	on or Publication is Attached, and/or,
	[F]	Waivers are Attached	
[3]		CURATE AND COMPLETE INFORMATA ATION INDICATED ABOVE.	ION REQUIRED TO PROCESS THE TYPE
	al is <b>accurate</b> a		ubmitted with this application for administrative also understand that <b>no action</b> will be taken on thinited to the Division.
		Statement must be completed by an individual with r	
An Print or	Type Name	Signature Spang	Regulatory Compliance malyst 8/20/01 Title Date  Conv. + Spang (2) bp. con  c-mail Address
			c-mail Address



200 WestLake Park Blvd. Houston, Texas 77079 Post Office Box 4587 Houston, Texas 77210-4587

August 16, 2001

New Mexico Oil Conservation Division Attn: David Catanach 2040 S. Poncho Street Santa Fe, New Mexico 87505

**RE:** ARCO Permian Downhole Commingling Application – Additional Information

Jaguar Federal "26" Well No. 1 Wildcat (Atoka & Strawn) Eddy County, NM

Mr. Catanach:

ARCO Permian submitted a downhole commingle application to your office on August 2, 2001. I have amended the C-107A form to include the well allocation percentage for each zone and added supporting documentation.

Please contact me if any additional information is required at (281) 366-7655. The approved permit can be sent to:

ARCO Permian Attn: Amy T. Spang 200 Westlake Park Blvd., Rm 266 Houston, Texas 77079

Yours very truly,

any 1. Spang

Amy T. Spang

**Regulatory Compliance Analyst** 

Xc:

NMOCD District 2 - Artesia Office

Mike Brock – EUN Jeff Robinson – 245 Central Files

R/C Files

## State of New Mexico

Form C-107A Revised May 15, 2000

District II

District III
1000 Rio Brazos Road, Azecc, NM 87410

District IV 2040 South Pacheco, Santa Fe, NM 87505

### Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION** 2040 South Pacheco Santa Fe, New Mexico 87505

APPLICATION TYPE Single Well Establish Pre-Approved Pools EXISTING WELLBORE \_\_\_ Yes XNo

APPLICATION FOR DOWNHOLE COMMINGLING

ARCO Permian, P.O. Box 1610. Midland, TX. 79701							
Operator  Juguar Federal "26" # 1  A S26, T205 K21E  Lease Well No. Unit Letter-Section-Township-Range County							
Unit Letter-Section-Township-Range  County  OGRID No. 000990 Property Code 25336 API No. 30-015-31566 Lease Type: FederalStateFee							
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE				
Pool Name	Wildcat (Strawn)		Wildcat (Atoka)				
Pool Code							
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	Top and Bottom of Pay Section 7358' - 7363' 7673' - 7668'						
Method of Production (Flowing or Artificial Lift)	Flowing		Flowing				
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)							
Oil Gravity or Gas BTU (Degree API or Gas BTU)	s.g. = 0.650		s.g. = 0.650				
Producing, Shut-In or New Zone	Producing		fioducing				
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history,	Date:	Date:	Date:				
applicant shall be required to attach production estimates and supporting data.)	Rates:	Rates:	Rates:				
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil Gas	Oil Gas	Oil Gas				
than current or past production, supporting data or explanation will be required.)	% 77 %	% %	% 23%				
	ADDITIO	NAL DATA					
	ing royalty interests identical in all co overriding royalty interest owners be		Yes No No No				
Are all produced fluids from all com	nmingled zones compatible with each	other?	Yes No				
Will commingling decrease the valu	e of production?		Yes No				
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?  Yes No							
NMOCD Reference Case No. applic	cable to this well:						
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.  Notification list of working, royalty and overriding royalty interests for uncommon interest cases.  Any additional statements, data or documents required to support commingling.							
PRE-APPROVED POOLS							
If application is to establish Pre-Approved Pools, the following additional information will be required:							
List of other orders approving downhole commingling within the proposed Pre-Approved Pools List of all operators within the proposed Pre-Approved Pools Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottomhole pressure data.							
I hereby certify that the informat	ion above is true and complete to	the best of my knowledge and beli	ef.				
SIGNATURE WY	- Spung TITLE	legulatory Comp. Analyst	DATE 8/16/01				
TYPE OR PRINT NAME Amy t. Spang TELEPHONE NO. (281) 366-7655							

#### Well Allocation Percentage for Each Zone

To downhole commingle the Strawn and Atoka in the Jaguar Federal "26", well no. 1, the production in each zone was calculated based on the porosity and net pay.

The Atoka has 5' of net pay with an average porosity of 8% and the Strawn has 11' with 12% porosity. Based on a weighted average the (porosity X net feet) in each zone the production split is 23% for the Atoka and 77% for the Strawn.

This was calculated by:

(5\*.08)/(5\*.08+11\*.12)=23% Atoka

100-23 = 77% Strawn

#### JAGUAR FEDERAL "26" # 1

Little Box (Morrow)

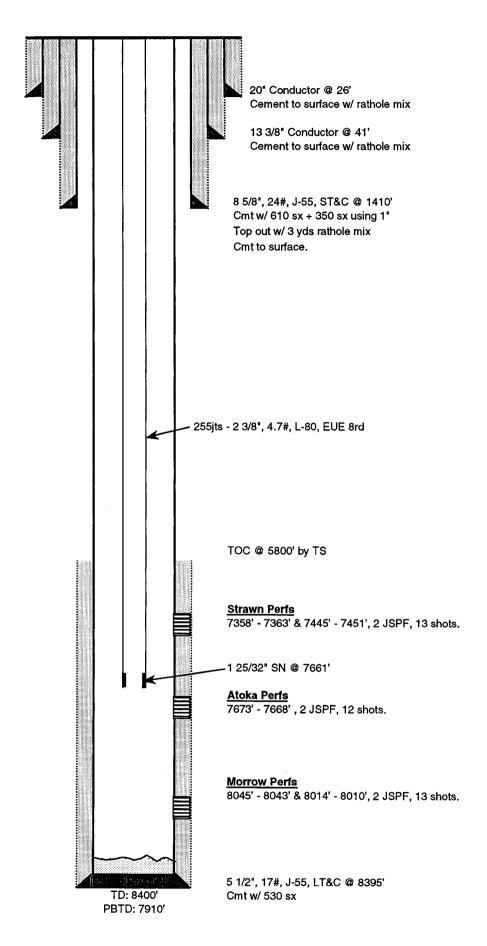
735' FNL & 660' FEL,Sec. 26 Unit A, T-20-S, R-21E Eddy County, New Mexico

RKB 4421' GL 4403' Spud: 2/12/01 RR: 5/22/01

API # 30-015-31566

NAD 27:

LAT: 32° 32" 50.98" N LONG: 104° 54' 29.00" W



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

#### State of New Mexico

Busery, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artosia, RM 66211-0719

DISTRICT III

1000 Rio Brusos Rd., Astec, NM 87410

OIL CONSERVATION DIVISION

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

DISTRICT IV P.O. Box 2068, Santa Fe, NN 87604-2066 CI AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		1	Pool Code		Pool Name				
30 - 015 - 31566						Wildcat (Atoka + Strawn)			
Property Code				Property Name				Well Number	
NM 25336			JAGUAR FEDERAL				1		
OGRID N	o.		Operator Name				Elevation		
000990				ARCO PERMIAN			4403		
Surface Location									
UL or lot No.	Section .	Township	Range	Lot Idn	Peet from the	North/South line	Feet from the	East/West line	County
Α	26	20 S	21 E		735	NORTH	660	EAST	EDDY
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
Dedicated Acres Joint or Infill Consolidation Code Order No.									
320									
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									

	3.5.	OPERATOR CERTIFICATION  1 hereby certify the the information
	4392.1' 4401.0'	contained herein is true and complete to the best of my knowledge and beltef.
	4401.9' 4398.5'	any 1. Spang
	 † — — — — — —     	Amy T Spany
	1	Regulatory Compliance Title Analyst  Bete
	     	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 supervison, and that the same is true and correct to the best of my belief.
	\   	OCTOBER 19, 2000  Date Surveyed JLP  Signature & Seal of the Processional Surveyor to
		Monold of the 10/23/00 W.O. Num 00+31-1311
	1	Condition No. RONALD EIDSON, 3239 CARY & EIDSON, 12041

# New Mexico Oil Conservation Division---Enginnering Bureau Administrative Application Process Documentation

Date Application Received:	-	8/1/01 8/14/01
Date of Preliminary Review: (Note: Must be within 10-days of receive	ud data)	8/14/01
•	,	
Results:Application Cor	npleteX	_Application Incomplete
Date Incomplete Letter Sent:	<u>-</u>	8/14/01
Deadline to Submit Requested Informati	8/21/01	
Phone Call Date: (Note: Only applies if requested data is a	ot submitted wi	thin the 7-day deadline)
Phone Log Completed?	Yes	No
Date Application Processed:	-	
Date Application Returned: (Note: Only as a last resort & only after the necessary information to process the	-	ts by the Division to obtain