					11/2/11
DATE IN 10/30/01	SUSPENSE	ENGINEER Panel	LOGGED IN / 6/30/69	TYSE DHC	APP NO. 0
///		//	7 7 6	1000	

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



		ADMINISTRATIVE APPLIC	ATION CHECKLIST	30-025-3760
-	THIS CHECKLIST IS M	IANDATORY FOR ALL ADMINISTRATIVE APPLICATION WHICH REQUIRE PROCESSING AT THE E		S AND REGULATIONS
Appli	[DHC-Dow PC-Pc	s: ndard Location] [NSP-Non-Standard Pror nhole Commingling] [CTB-Lease Comm ool Commingling] [OLS - Off-Lease Store	ation Unit] [SD-Simultaneous D ingling] [PLC-Pool/Lease Cor age] [OLM-Off-Lease Measure ssure Maintenance Expansion] ection Pressure Increase]	nmingling] ement]
[1]	TYPE OF AI [A]	PPLICATION - Check Those Which Appl Location - Spacing Unit - Simultaneous I NSL NSP SD		
	Check [B]	Cone Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC	PC OLS OLM	
	[C]	Injection - Disposal - Pressure Increase -		
	[D]	Other: Specify		
[2]	NOTIFICAT [A]	ION REQUIRED TO: - Check Those Wh Working, Royalty or Overriding Roy		
	[B]	Offset Operators, Leaseholders or S	urface Owner	
	[C]	Application is One Which Requires	Published Legal Notice	
	[D]	Notification and/or Concurrent App U.S. Bureau of Land Management - Commissioner of P		
	[E]	For all of the above, Proof of Notific	cation or Publication is Attached	, and/or,
	[F]	☐ Waivers are Attached		
[3]		CURATE AND COMPLETE INFORMATION INDICATED ABOVE.	ATION REQUIRED TO PRO	CESS THE TYPE
	oval is accurate a	TION: I hereby certify that the information and complete to the best of my knowledge. quired information and notifications are sult	I also understand that no action	
	Note	Statement must/be completed by an individual w	ith managerial and/or supervisory cap	acity.
-	er Cooke	MIMUL COOKE	Engineering Tech	10/28/2009
Print	or Type Name	Signature	Title	Date
			amber.cooke@apachecorp e-mail Address	.com



WWW.APACHECORP.COM Telephone: (918) 491-4900

October 28, 2009

Richard Ezeanyim New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re:

Application for Downhole Commingle

New Mexico S State #48 Unit F, Sec 2, T-22S, R-37E

Penrose Skelly; Grayburg and Eunice; San Andres, South Pools

Lea County, New Mexico

Dear Mr. Ezeanyim,

Enclosed please find an administrative application form (C-107A) and attachments for downhole commingling the Grayburg and San Andres in the New Mexico S State #48. Apache intends to produce both zones together with an expected rate of 33 BOPD, 164 BWPD, and 190 MCFPD. The ownership (WI, NRI and ORRI) of these pools are identical in this wellbore. Downhole commingling in this manner will offer an economic method of production while protecting against reservoir damage, waste of reserves and violation of correlative rights. This is a State well. The State of New Mexico Commissioner of Public Lands has been sent a copy of this application.

This well was originally completed to the San Andres in 3/2006. Apache intends to recomplete to the Grayburg and commingle with the existing San Andres production. Actual tests were used in determining the attached allocation for the San Andres and offset well data was used for the Grayburg allocation. See attached curves and supporting data.

If you need additional information or have any questions, please give me a call at (918) 491-4968.

Sincerely,

Amber Cooke

Engineering Technician

State of New Mexico Energy, Minerals and Natural Resources Department Form C-107A Revised June 10, 2003

X_Yes__No

District []

1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410

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

 $E\text{-}MAIL\ ADDRESS_amber.cooke@apachecorp.com}$

Oil Conservation Division

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

APPLICATION TYPE

X Single Well

Establish Pre-Approved Pools

EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING

			DHC-4228
Apache Corporation Operator		20 S Yale Ave, Suite 1500 Tulsa, Glress	OR 74136
New Mexico S State	48 F	2 22S 37E	Lea
Lease		Section-Township-Range	County
OGRID No. 873 Property Co	de 34816 API No. 30-025	5-37608 Lease Type:	Federal X 8tateFee
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWERZONE
Pool Name	Penrose Skelly; Grayburg		Eunice; San Andres, South
Pool Code	50350		24170
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3689'-3789' (Est Perf)		3860'-4252' (Perf)
Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift
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)	N/A		N/A
Oil Gravity or Gas BTU (Degree API or Gas BTU)	35.9 API		33.6 API
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: Est	Date:	Date: 10/19/2009
estimates and supporting data.)	Rates: 135 BWPD 100 MCFPD	Rates:	Rates: 29 BWPD 90 MCFPD
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or	Oil Gas 76 % 53 %	Oil Gas	Oil Gas 47 %
explanation will be required.)	10 70	/0 /0	24 /0 47 /0
	ADDITION	NAL DATA	
Are all working, royalty and overriding If not, have all working, royalty and over			Yes No Yes No
Are all produced fluids from all commis	ngled zones compatible with each of	other?	Yes X No
Will commingling decrease the value of	f production?		Yes No X
If this well is on, or communitized with or the United States Bureau of Land Ma			Yes X No
NMOCD Reference Case No. applicabl	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 Notification list of working, royalty Any additional statements, data or or comments.	at least one year. (If not available, ry, estimated production rates and stor formula.	attach explanation.) upporting data. r uncommon interest cases.	
	PRE-APPRO	OVED POOLS	
If application is	to establish Pre-Approved Pools, th	ne following additional information wi	ill be required:
List of other orders approving downhole List of all operators within the proposed Proof that all operators within the proposed Bottomhole pressure data.	d Pre-Approved Pools		
I hereby certify that the information	/ A1 // a		
signature WWW	TITLE Eng	gineering Tech	DATE 10/28/2009
TYPE OR PRINT NAME Amber C	ooke	TELEPHONE NO. (91	8 \ \ 491-4968

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

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

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

	AMENDED	DOOD
	1 A N/1 H N 1 H 1	REPURI

		WE	ELL LC	OCATION A	AND ACR	EAGE DEDIC	CATION PLA	.T			
	API Number		50050	² Pool Code		0 0	³ Pool Na	me			
30-025-3760	8		50350		Penr	ose Skelly, Grayb	urg				
¹ Property (Code				⁵ Property	Name			'v	Vell Number	
34816		New Mexico	S State	•				4	8		
⁷ OGRID	No.				* Operator	Name				Elevation	
873	ŀ	Apache Corp	poration					3	368' G	<u> </u>	
				1	⁰ Surface	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	Vest line	Cou	unty
F	2	22S 3	7E	18	80	North	1650	West		Lea	
			11 Bc	ottom Hole	Location I	f Different From	n Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	Vest line	Cou	unty
Dedicated Acres	33 Joint or	Infill "Cons	solidation (Code S Order I	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.

	1 1880'		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or the voluntary pooling agreement or a compulsory pooling order heretofole gnerally the division.
1650-	•		Signature Date Amber Cooke Printed Name
			18 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.
			Date of Survey Signature and Seal of Professional Surveyor: Certificate Number

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 IV. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brozos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Re. NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

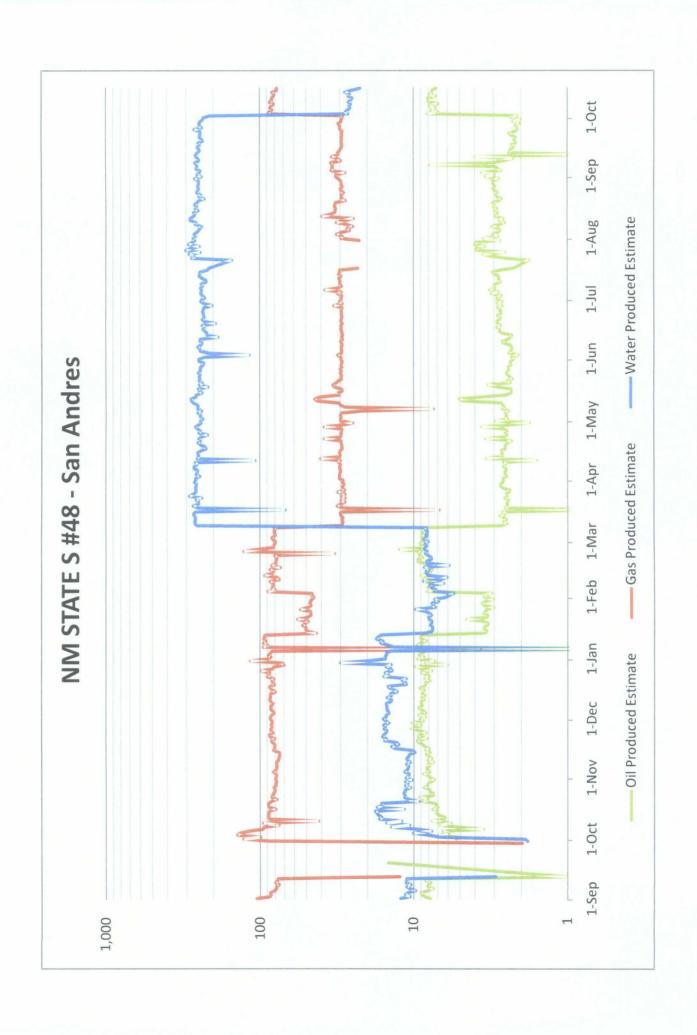
Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

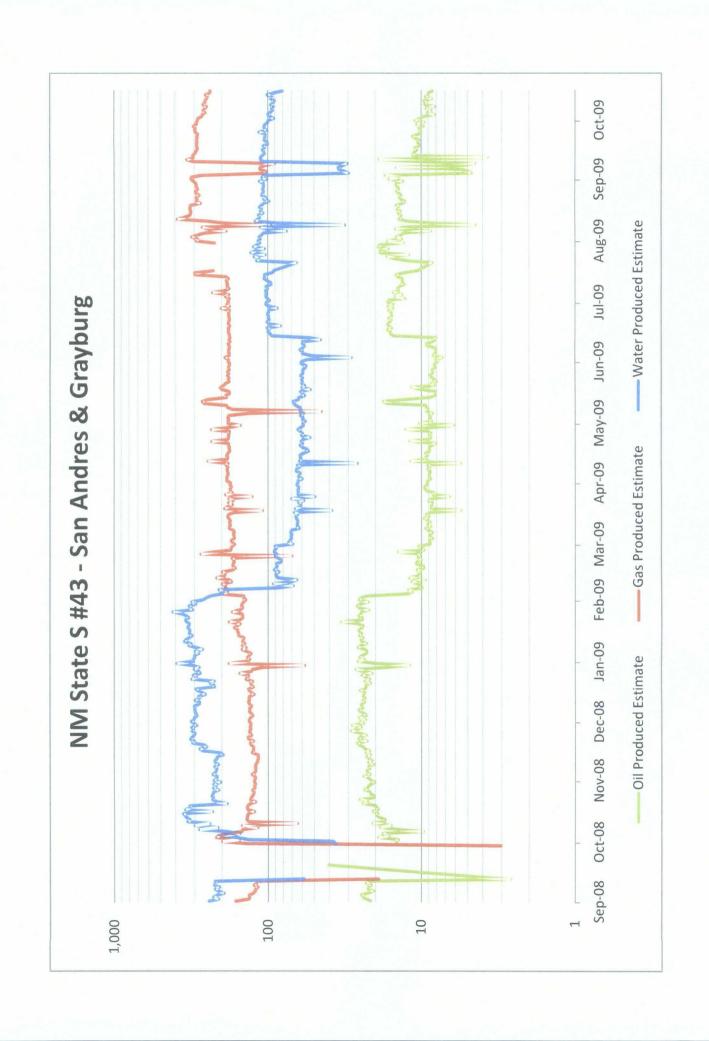
☐ AMENDED REPORT

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	V	VELL LO	OCATIO	N AND ACI	REAGE DEDIC	CATION PLA	T			
API Numbe										
8		24170	1	Eun	ice; San Andres, S	South				
Code				' Property	Name			٠,	Weil Number	
	New Mexi	co S State	?					48		
No.		·		Operator	Name				*Elevation	
	Apache C	orporation	1	•				3368' G	iL	
				10 Surface	Location					
Section	Township	Runge	Lot Ida			Feet from the	Eas	t/West line		County
2	228	37E		1880	North	1650	West		Lea	
		11 Bo	ottom He	ole Location	f Different From	n Surface				· · · · · ·
Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	Eas	t/West line		County
										{
" Joint or	fntill "C	onsolidation	Code "O	rder No.	· · · · · · · · · · · · · · · · · · ·	·				
	API Numbe 8 Code No. Section 2	API Number 8 Code New Mexi No. Apache C Section Township 2 Section Township	WELL LO APT Number 8 24170 Code New Mexico S State No. Apache Corporation Section Township Range 22S 37E 11 Bo Section Township Range	WELL LOCATIO API Number 24170 New Mexico S State No. Apache Corporation Section Township Runge Lot Idn 22S 37E 11 Bottom Ho Section Township Range Lot Idn	WELL LOCATION AND ACE APT Number 24170	WELL LOCATION AND ACREAGE DEDICAPTION AND ACREAGE DEDICAPTION Section Township Range Lot Idn Feet from the North/South line Section Township Range Lot Idn Feet from the North/South line North/South line Section Township Range Lot Idn Feet from the North/South line North/South line	WELL LOCATION AND ACREAGE DEDICATION PLA Property Name New Mexico S State No. Apache Corporation Surface Location	WELL LOCATION AND ACREAGE DEDICATION PLAT APT Number 8 24170 Eunice; San Andres, South Code New Mexico S State No. Apache Corporation 10 Surface Location Section Township Range Lot Idn Feet from the North/South line Feet from the Location If Different From Surface Section Township Range Lot Idn Feet from the North/South line Feet from the East Section Township Range Lot Idn Feet from the North/South line Feet from the East Section Township Range Lot Idn Feet from the North/South line Feet from the East Section Township Range Lot Idn Feet from the North/South line Feet from the East Section Township Range Lot Idn Feet from the North/South line Feet from the East Section Township Range Lot Idn Feet from the North/South line Feet from the East Section Township Range Lot Idn Feet from the North/South line Feet from the East Section Township Range Lot Idn Feet from the North/South line Feet from the East Section Township Range Lot Idn Feet from the North/South line Feet from the East Section Township Range Lot Idn Feet from the North/South line Feet from the East Section Township Range Lot Idn Feet from the North/South line Feet from the East Section Township Range Lot Idn Feet from the North/South line Feet from the East Section Township Range	WELL LOCATION AND ACREAGE DEDICATION PLAT APT Number 8 24170 Eunice; San Andres, South Code New Mexico S State 48 No. Apache Corporation 10 Surface Location Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line 11 Bottom Hole Location If Different From Surface Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line 12 Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line 14 Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line 15 Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line 15 Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line	WELL LOCATION AND ACREAGE DEDICATION PLAT APT Number 8 24170 Eunice; San Andres, South Code New Mexico S State 'Property Name 48 'Well Number 48 'Property Name 48 'Elevation 3368' GL No. Apache Corporation Surface Location Section Township Runge Lot Idn Feet from the North/South line Feet from the 1650 West Lea 10 Surface Location Feet from Surface Section Township Range Lot Idn Feet from the North/South line Feet from the Section Township Range Lot Idn Feet from the North/South line Feet from the Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line Lea

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.

	1880'	·	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including this proposed bottom hole location or has a right to drill this well at this location passing to a contract with an owner of such a mineral or working interest, or too witning pooling agreement or a compulsory pooling order herefuller endred by the dignium.
1650'	-1.48		Signature Date Amber Cooke Printed Name
			18 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.
			Date of Survey Signature and Seal of Professional Surveyor: Certificate Number





NM State #48 Production Allocation Calculation

NM State S #43 SA/ NM State S #44 SA/ NM State S #46 SA/ NM State S #51 SA/		Graybur	Grayburg Initial Production	oduction
	Producing Formation	BOPD	MCFPD	D dM8
	SA/GB	45	118	297
	SA/GB	16	22	118
	SA/GB	51	138	81
	SA/GB	22	104	72
	average	33.5	103.75	134.5
NM State S #48 Expected	Expected Grayburg	25	100	135
(lower end	(lower end average)			
Current Sa	Current San Andres	8	06	59

24%
47%
18%

From: Origin ID: TULA (918) 491-4968 Amber Cooke

6120 S. Yale Ave Suite 1500 Tulsa, OK 74136



J09300907312023

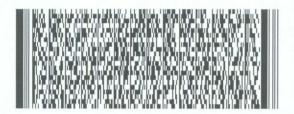
SHIP TO: (505) 827-5760

BILL SENDER

Pete Martinez

SLO: Commissioner of Public Lands 310 OLD SANTA FE TRL

SANTA FE, NM 87501



Ship Date: 28OCT09 ActWgt: 1.0 LB CAD: 101193149/INET9090 Account#: S *********

Delivery Address Bar Code



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Dept #

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