DATE IN 11/25/09	SUSPENSE	ENGINEER Jones	LOGGED IN 11/25	PYPE DHC APP NO. 0 930	1953891
				1 10201	
		ABOVE	THIS LINE FOR DIVISION/USE ONL	(WW)	

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureapm 3 12



Apache

		1220 South St. Francis Drive, Santa Fe,	NM 87505	1912.03	State #
		ADMINISTRATIVE APPLICA	TION CHE	CKLIST	30 025-3760
1	THIS CHECKLIST IS N	MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS WHICH REQUIRE PROCESSING AT THE DIV			AND REGULATIONS
App!i	[DHC-Dow	ns: Indard Location] [NSP-Non-Standard Prorati Inhole Commingling] [CTB-Lease Commin Iool Commingling] [OLS - Off-Lease Storag	ion Unit] [SD-Sir gling] [PLC-Po e] [OLM-Off-Le ure Maintenanco tion Pressure In	multaneous Do ool/Lease Com ease Measure e Expansion] crease]	mingling] ment]
[1]	TYPE OF A	PPLICATION - Check Those Which Apply for Location - Spacing Unit - Simultaneous De			
	Chec.	k One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC P	C 🗌 OLS [OLM	
	[C]	Injection - Disposal - Pressure Increase - En WFX PMX SWD		overy PPR	
	[D]	Other: Specify			
[2]	NOTIFICAT [A]	TION REQUIRED TO: - Check Those Which Working, Royalty or Overriding Royal			
	[B]	Offset Operators, Leaseholders or Surf	face Owner		
	[C]	Application is One Which Requires Pu	ublished Legal No	otice	
	[D]	Notification and/or Concurrent Approvus. Bureau of Land Management - Commissioner of Publi	val by BLM or SI	LO ·	
	[E]	For all of the above, Proof of Notificat			and/or,
	[F]	Waivers are Attached			
[3]		CCURATE AND COMPLETE INFORMAT ATION INDICATED ABOVE.	TION REQUIRE	ED TO PROC	ESS THE TYPE
	val is accurate a	TION: I hereby certify that the information s and complete to the best of my knowledge. I are equired information and notifications are subm	also understand th	nat no action v	
	Note	Statement must be completed by an individual with	managerial and/or s	supervisory capa	city.
	er Cooke	WWW. WOVE	Engineering	Tech	11/20/2009
Print (or Type Name	Signature	Title		Date
			amber.cooke e-mail Addres	@apachecorp.oss	com



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

November 20, 2009

Will Jones New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re:

Application for Downhole Commingle

New Mexico S State #47 Unit E, Sec 2, T-22S, R-37E

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

Lea County, New Mexico

Dear Mr. Jones,

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 #47. Apache intends to produce both zones together with an expected rate of 27 BOPD, 155 BWPD, and 209 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 5/2006. 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.

Singerely.

Amber Cooke

Engineering Technician

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised June 10, 2003

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

Oil Conservation Division

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

APPLICATION TYPE

X Single Well
Establish Pre-Approved Pools
EXISTING WELLBORE

District IV APPLICATION FOR DOWNHOLE COMMINGLING Yes No 1220 S. St. Francis Dr., Santa Fe, NM 87505 6120 S Yale Ave, Suite 1500 Tulsa, OK 74136 Apache Corporation Operator Address 2 New Mexico S State Ε 37E Lea Well No. Unit Letter-Section-Township-Range County Property Code_34816 API No. 30-025-37607 _Federal _X_State __ OGRID No. 873 Lease Type: **DATA ELEMENT UPPER ZON** INTERMEDIATE ZONE LOWER ZONE Penrose Skelly; Grayburg Eunice: San Andres, South Pool Name 24170 50350 Pool Code Top and Bottom of Pay Section 3629'-3782' (Est Perf) 3852'-4230' (Perf) (Perforated or Open-Hole Interval) Method of Production Artificial Lift Artificial Lift (Flowing or Artificial Lift) Bottomhole Pressure
(Note: Pressure data will not be required if the bottom N/A N/A 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) 34.6 API 35.9 API Producing, Shut-In or Producing New Zone New Zone Date and Oil/Gas/Water Rates of Last Production.
(Note: For new zones with no production history, Date: 10/15/2009 Date: Date: applicant shall be required to attach production 25 BOPD 3 BOPD estimates and supporting data.) Rates: 20 BWPD Rates: Rates: 135 BWPD 100 MCFPD 109 MCFPD Oil Gas Gas Oil Gas Fixed Allocation Percentage Oil than current or past production, supporting data or 11 % 52 % 89 % 48 % % % 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? Are all produced fluids from all commingled zones compatible with each other? __ No_ Will commingling decrease the value of production? No_X If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands Yes X No or the United States Bureau of Land Management been notified in writing of this application? NMOCD Reference Case No. applicable to this well: 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 the information above is true and complete to the best of my knowledge and belief. I hereby certify that TITLE Engineering Tech DATE 11/20/2009 **SIGNATURE** TYPE OR PRINT NAME Amber Cooke TELEPHONE NO. (918) 491-4968

E-MAIL ADDRESS amber.cooke@apachecorp.com

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

District II 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 REPORT

1	API Number	•		² Pool Cod	e	REAGE DEDIC	³ Pool Na	me			
30-025-3760	7		50350		Pen	rose.Skelly, Grayb	ourg				
¹ Property (New Mexico	S State	1	⁵ Property	Name	,		47	Well Number	
OGRID 873	No.	Apache Co			¹ Operator	Name				'Elevation	
					¹⁰ Surface	Location					
UL or lot no.	Section 2	Township 22S	Range 37E	Lot Idn		1	Feet from the	Eas West	t/West line	Lea	County
		<u> </u>	¹¹ Bo	ottom Ho	le Location 1	f Different From	m Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Eas	t/West line		County
Dedicated Acres	¹³ Joint or	Infill "Con	solidation	Code 15 Or	der No.	·	.				

16 1830		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 to a valuntary pooling agreement or a compulsory pooling order hereuloge entered by the position.
4401		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 W. Grand Avenue, Artesia, NM 88210 District_III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

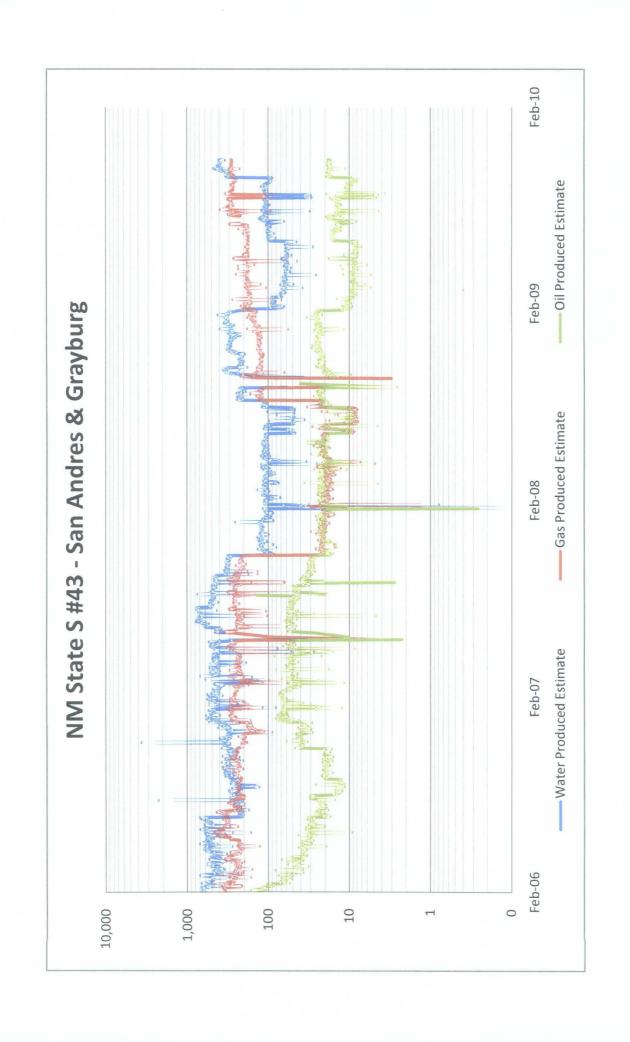
Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

1220 S. St. Francis	Dr., Santa H	e, NM 87505								NDED RE	PORT
		W	ELL LO	OCATIO	N AND AC	REAGE DEDIC	CATION PLA	T	<u>.</u>		
	API Numbe	r		² Pool Cod	1		' Pool Na	me			
30-025-3760	7		24170		∣Eur	nice; San Andres, S	South				
¹ Property (Code				⁵ Propert	y Name				Well Number	}
34816		New Mexic	o S State	;					47		
OGRID '	No.				' Operato	r Name				¹ Elevation	
873		Apache Co	rporation	ı					3372'		
					10 Surface	e Location					
UL or lot no.	Section	Township	Range	Lot Idn			Feet from the	East/	West line		County
E	2	22S	37E		1830	North	440	West		Lea	
			11 Bo	ottom Ho	le Location	If Different From	m Surface			,	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from th	ne North/South line	Feet from the	East/	West line		County
" Dedicated Acres	¹³ Joint o	r Infill '' Co	nsolidation	Code 5 Or	der No.	<u> </u>	I				

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 .44			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 to a foluntary pooling agreement or a compulsory pooling order heretopreentereaby the division. 11/20/2009
47 50			Signature Date
11/10/			Amber Cooke
1440			Printed Name
	Į		
			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 #47 Production Allocation Calculation

Analagous Wells		Graybur	Grayburg Initial Production	oduction
Name	Producing Formation	BOPD	MCFPD	BWPD
NM State S #43	SA/GB	45	118	267
NM State S #44	SA/GB	16	55	118
NM State S #46	SA/GB	51	138	81
NM State S #51	SA/GB	22	104	72
	average	33.5	103.75	134.5
NM State S #47	Expected Grayburg	25	100	135
	(lower end average)			
	Current San Andres	3	109	20

Grayburg	li0 89%	Gas 48%	Water 87%
San Andres	11%	52%	13%