ĐATE IN	11/12/09 SUSPENS	E ENGINEER 1200 LOGGED IN 11-11-37 TYPE DHO APP NO. 0932031309
]	ABOVE THIS LINE FOR DIVISION USE OFLY NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505
		ADMINISTRATIVE APPLICATION CHECKLIST
Tł	HIS CHECKLIST IS M	ANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Applic	[DHC-Down [PC-Po [EOR-Qual	ndard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] hole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] ol Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] ified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF AP [A]	PLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication
		□ NSL □ NSP □ SD
	Check [B] [C]	One Only for [B] or [C] Commingling - Storage - Measurement ⊠ DHC CTB PLC PC OLS OLM Injection - Disposal - Pressure Increase - Enhanced Oil Recovery Image: Comparison of the state of
	[0]	$\Box WFX \Box PMX \Box SWD \Box IPI \Box EOR \Box PPR \qquad \Box \qquad \Box$
	[D]	Other: Specify
[2]	NOTIFICAT	ION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners
	[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
	[E]	For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	Waivers are Attached
[3]		CURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE TION INDICATED ABOVE.

CERTIFICATION: I hereby certify that the information submitted with this application for administrative [4] approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

 Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

 MMUL (DOK)

 Engineering Tech

 Signature

Amber	Cooke	

đ

Print or Type Name

	Ň	Y	Ŋ
Si	gna	tui	re

11/11/2009 Date

amber.cooke@apachecorp.com e-mail Address

TWO WARREN PLACE, SUITE 1500 / 6120 SOUTH YALE / TULSA, OK 74136-4224

(918) 491-4900 FAX: (918) 491-4853 FAX: (918) 491-4854

November 11, 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 #55 Unit M, 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 #55. Apache intends to produce both zones together with an expected rate of 38 BOPD, 234 BWPD, and 183 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 8/2009. 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,

ANVO

Amber Cooke Engineering Technician

District I		State of	New Me	Form C-107A		
1625 N. French Drive, Hobbs, NM 88240	Energy,	Minerals and N	latural Res	sources D	epartment	Revised June 10, 2003
District II						
1301 W. Grand Avenue, Artesia, NM 88210		Oil Cons	ervation	1 Divisio	n	APPLICATION TYPE
District III		X_Single Well				
1000 Rio Brazos Road, Aztec, NM 87410		Establish Pre-Approved Pools				
District IV		EXISTING WELLBORE				
1220 S. St. Francis Dr., Santa Fe, NM 87505	APPLICA	Yes_No				
						()+C-4227)
Apache Corporation		6	5120 S Ya	le Ave, Su	iite 1 6 00 Tulsa	, OK 74136
Operator		A	ddress			
New Mexico State S	55	М	2	22S	37E	Lea
Lease	Well No.	Unit Lette	r-Section-To	ownship-Rai	nge	County
OGRID No. 873	Property Code 34816	_ API No. 30-02	25-39013		Lease Type: _	Federal _X_StateFee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Penrose Skelly; Grayburg		Eunice; San Andres, South
Pool Code	50350		24170
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3692' - 3818' (Est Perf)		3920' - 4620' (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		34.5 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 estimates and supporting data.)	Date: 25 BOPD Rates: 135 BWPD 100 MCFPD	Date: Rates:	Date: 9/20/2009 13 BOPD Rates: 99 BWPD 83 MCFPD
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.)	66 % 55 %	% %	34 % 45 %

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?	Yes_X Yes	_ No _ No
Are all produced fluids from all commingled zones compatible with each other?	Yes X	No
Will commingling decrease the value of production?	Yes	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		

Attachmer	nts:				
C-102	for	each	zone	to	ļ

ne 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. \wedge

I hereby certify that t	he	info	mation	aboy	e is	true	and	complete t	o the	best	of my	knowledge	e and	belief.
		11. 1				1								

SIGNATURE TYPE OR PRINT NAME Amber Cooke

TELEPHONE NO. (918

E-MAIL ADDRESS amber.cooke@apachecorp.com

) 491.4968

DATE 11/11/2009

INSTITUTI
1625 N. French Dr., Hobbs, NM 88240
District_H
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

Distantes I

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

		W	ELL LC	CATI	ON AND A	\CR	EAGE DEDIC	ATION PLA	T			
· /	API Number	r	-	¹ Pool Co	de			' Pool Na	me			
30-025-3901	3.		24170		6	Eunio	ce; San Andres, S	outh				
* Property (Code				' Pro	perty l	Name			• 1	Vell Number	
34816		New Mexic	o State S	5						55		
'OGRID :	No.				'Ope	rator	Name				'Elevation	
873 Apache Corporation										3375'		
					¹⁰ Surf	ace	Location					
UL or lot no.	Section	Township	Range	Lot Ia	in Feet fro	m the	North/South line	Feet from the	E	ast/West line		County
м	2	225	37E		185		South	595	West		Lea	
	¹¹ Bottom Hole Location If Different From Surface											
UL or lat no.	Section	Township	Range	Lot Ic	in Feet fro	m the	North/South line	Feet from the	E:	ast/West line		County
м	2	22S	37E		350		South	357	West		Lea	
" Dedicated Acres	" Joint o	r Infill "Co	nsolidation	Code "	Order No.							
80												

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			¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to
			t hereby certify that the information contained herein is interand 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 hule location or has a right to drill this well at this location
			proposed soliton note location or has a right to arith indi well at inits location pursuant to a contract with an owner of such a mineral or working interest,
			or to q value ary pooling agreement or a compulsory pooling order
			heretoforgentered by the division
			Signature Signat
			Amber Cooke
			Printed Name
			Princed Name
• 43			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
*53		•	and correct to the best of my belief.
			· · · · · · · · · · · · · · · · · · ·
, m.,			Date of Survey
•54			Signature and Scal of Professional Surveyor:
351' BH 350'			
5951 1551			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 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

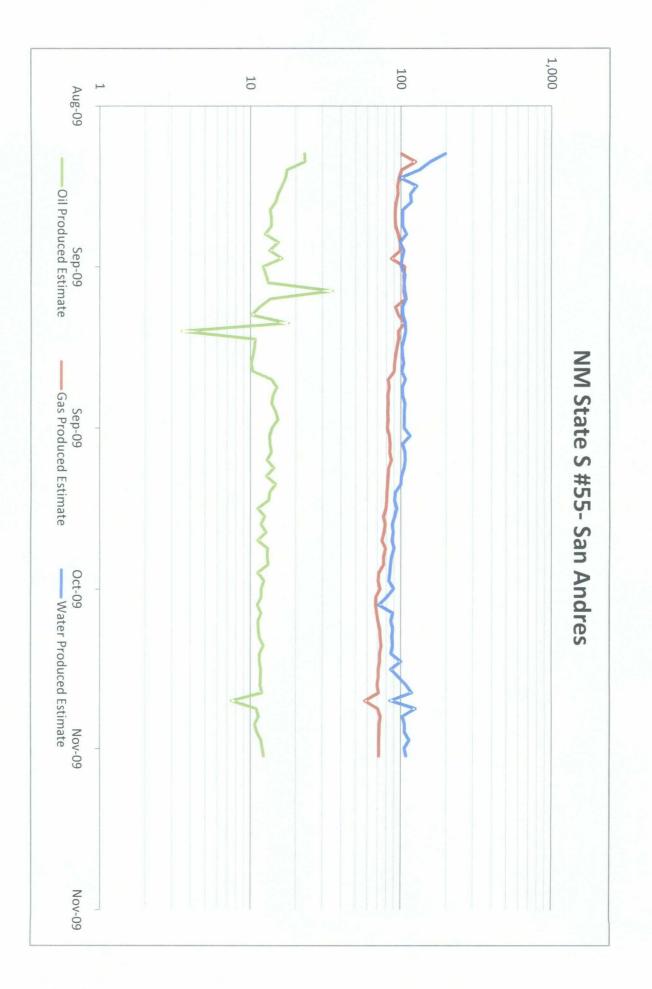
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT) ACREAGE DEDICATION PLA	١Τ
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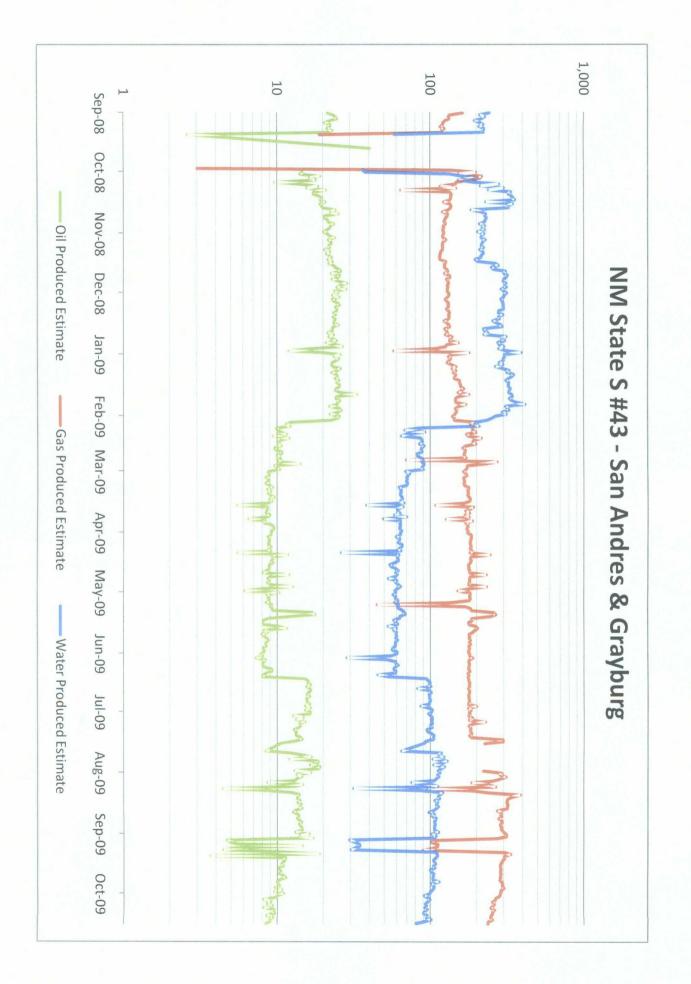
¹ API Number				² Pool Code		³ Pool Name				
30-025 - 3901	3		50350		Per	nrose Skelly; Grayb	ourg			
⁴ Property Code		° Pi				operty Name			"Well Number	
34816	34816 New Mexico		o State S	;				55		1
⁷ OGRID No.			' Operator Name					'Elevation		
873		Apache Corporation						33	75'	
					¹⁰ Surface	e Location				
UL or lot no.	Section	Township	Range	Lot Idı	Feet from th	ne North/South line	Feet from the	East/We	st line	County
М	2	22S	37E		185	South	595	West	Lea	
· ·	·		¹¹ Bo	ottom He	ole Location	If Different From	m Surface	· · · · · · · · · · · · · · · · · · ·		
UL or lot no.	Section	Township	Range	Lot Idı	Feet from tf	ne North/South line	Feet from the	East/We	st line	County
М	2	22S	37E		350	South	357	West	Lea	
¹² Dedicated Acres	¹³ Joint of	r Infill ¹⁴ Co	nsolidation	Code ¹⁵ O	rder No.			<u> </u>		

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		¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contrained herein is true and complete to</i>
		Thereby 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 voluntary pooling agreement or a compulsory pooling order
		 hereufiore intered by the division Signature Date Date
		5
		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
1		 ·
		Signature and Seal of Professional Surveyor:
Į į		
50'		
357' BH 30'		
5151 (1851		Certificate Number



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NM State #55 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 #55	Expected Grayburg	25	100	135
	(lower end average)			
	Current San Andres	13	83	66

•

San Andres	Grayburg	
34%	66%	<u>0:</u>
45%	55%	Gas
42%	58%	Water

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