	4	A True	
DATE IN	11/6/9 SUSPEN	SE ENGINEER (U.I.I.I. LOGGED IN ///6/9 TYPD APP NO. 09 ABOVE THIS LINE FOR DIVISION USE ONLY (733)	3/0488/6
		The state	0
		- Engineering Bureau -	Apache
		1220 South St. Francis Drive, Santa Fe, NM 87505	V
		ADMINISTRATIVE APPLICATION CHECKLIST	OWEN B #20
TH	HIS CHECKLIST IS N	ANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES A	ND REGULATIONS
Applic	ation Acronym		30-075-35638
	-	ndard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Ded nhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Comm	-
		ol Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurem [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]	
		[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]	_
	[EOR-Qua	lified Enhanced Oil Recovery Certification] [PPR-Positive Production Res	sponse]
[1]	TYPE OF AI	PLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication	
		NSL NSP SD	
	Check	Cone Only for [B] or [C]	
	[B]	Commingling - Storage - Measurement	
	[0]		
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery	RECEI
	[D]	Other: Specify	
503	2 -		٠ Ä
[2]	NOTIFICAT [A]	ION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners	RECEIVED OC
	[B]	Offset Operators, Leaseholders or Surface Owner	52
	[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	ıd/or,
	[F]	Waivers are Attached	
[3]		CURATE AND COMPLETE INFORMATION REQUIRED TO PROCE ATION INDICATED ABOVE.	SS THE TYPE

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.

 Image: Signature

•

Amber	Cook	е
Print or	Туре	Name

Engineering Tech	11/03/2009
Title	Date

amber.cooke@apachecorp.com	I.
e-mail Address	

TWO WARREN PLACE / SUITE 1500 / 6120 S. YALE / TULSA, OKLAHOMA 74136-4224

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

November 3, 2009

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

Re: Application for Downhole Commingle Owen B #10 Unit M, Sec 34, T-21S, R-37E Penrose Skelly; Grayburg and Blinebry Oil and Gas Lea County, New Mexico

RECEIVED OCC

Dear Mr. Ezeanyim,

Enclosed please find an administrative application form (C-107A) and attachments for downhere commingling the Grayburg and Blinebry in the Owen B #10. Apache intends to produce both zones together with an expected rate of 25 BOPD, 135 BWPD, and 199 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 Private well.

This well is currently completed in the Blinebry. Apache proposes to complete and downhole commingle the Grayburg zone with the existing Blinebry production. Allocation is based on actual tests for the Blinebry and offset well data for the Grayburg.

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

Singerely,

mper Cooke

Amber Cooke Engineering Technician

District 1 1625 N. French Drive, Hohbs, NM 88240		New Mexico Itural Resources Department	Form C-107A Revised June 10, 2003
District 11			
1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brizos Road, Azlee, NM 87410	1220 So	rvation Division uth St. Francis Dr. New Mexico 87505	APPLICATION TYPE <u>X</u> Single Well Establish Pre-Approved Pools
District IV 1220 S. St. Francis Dr., Sana Fe, NM 87505		WNHOLE COMMINGLING	EXISTING WELLBORE
		f	JAC 1232
Apache Corporation		20 S Yale Ave, Suite 1500 Tulsa,	OK 74136
Operator		dress	
Owen B Lease	10 M Well No. Unit Letter-	34 21S 37E Section-Township-Range	Lea County
OGRID No. 873 Property Co	de 22879 API No. 30-02	5-35638 Lease Type:	FederalState _X_Fee
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Penrose Skelly; Grayburg		Blinebry Oil & Gas (OII)
Pool Code	50350		6660 72480
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3650'-3950' (Est Perf)		5606'-5853' (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)	1370 psig		
Oil Gravity or Gas BTU (Degree API or Gas BTU)	37.8 API		36.6 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,	Date:	Date:	Date: 10/1/2009
applicant shall be required to attach production estimates and supporting data.)	25 BOPD Rates: 100 BWPD 120 MCFPD	Rates:	0 BOPD Rates: 0 BWPD 79 MCFPD
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or	Oil Gas	Oil Gas % %	Oil Gas
explanation will be required.)		/0 70	
	<u>ADDITIO</u>	NAL 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?	Ycs_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	NoX
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. applicable to this well:		

A	tta	chi	ne	'n	ts	

achments:
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 List of all operators within the proposed Pre-Approved Pools Proof that all operators within the proposed Pre-Approved Po Bottomhole pressure data.		
I hereby certify that the information above is true and c SIGNATURE	omplete to the best of my knowledge and belie: TITLE Engineering Tech	f. DATE 11/3/2009
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

		W	/ <u>ELL LC</u>	<u>DCATIO</u>	<u>n and aci</u>	<u>REAGE DEDIC</u>	<u>CATION PLA</u>	<u>.T</u>					
	r		² Pool Code			³ Pool Na	me						
30-025-356	38		50350		Pen	rose Skelly; Grayb	ourg						
⁴ Propert	y Code				[°] Property	Name			· · ·	Vell Numb	er		
22879		Owen B							10				
⁷ OGRID No.					* Operator	Name			'Elevation				
873		Apache C	orporation	l							3444'		
					¹⁰ Surface	Location							
UL or lot no.	Section	Township	Range	Lot Idn			Feet from the	Eas	st/West line		County		
М	34	21S	37E		1137	South	495	West		Lea			
·			¹¹ Be	ottom Ho	le Location	If Different From	m Surface						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from th	e North/South line	Feet from the	Eas	st/West line		County		
1	34	219	375		2222	South	706	West		Lea			

L	34	21S	37E		2222	South	706	West	Lea
¹² Dedicated Acres	¹³ Joint or	Infill "C	Consolidation (Code ¹⁵ Or	der No.				
40									

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 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 A woluntary pooling agreement or a compulsory pooling order heretopre enter d by the divition. 11/03/2009
			Signature Date Amber Cooke Printed Name
704' Botto	nhole		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.
495: Face 1- 133			Date of Survey Signature and Scal 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 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

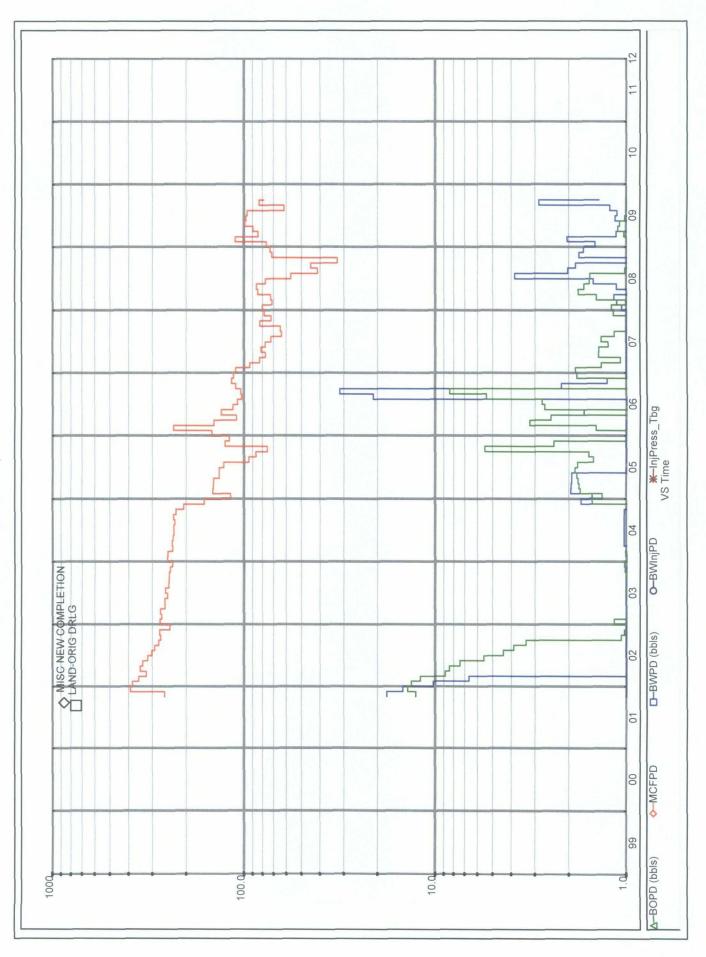
☐ AMENDED REPORT

		W	<u>ELL LC</u>	DCATIO	N AND A	CREA	<u>GE DEDIC</u>	ATION PLA	T			
'API Number 30-025-35638 6660					BI	linebry C	Dil & Gas (Off	Pool Na	me			
⁺ Property Code 22879 Owen B						erty Name				'` 10	Well Number	
⁷ OGRID 1 873	Apache Co	rporation	' Operator Name oration						3444'	² Elevation		
					¹⁰ Surfa	ce Loca	ation					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	n the	North/South line	Feet from the	East	/West line		County
м	34	21S	37E		1137	Sou	th	495	West		Lea	
			¹¹ Bo	ottom Ho	le Locatio	n If Di	fferent Fror	n Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	1 the	North/South line	Feet from the	East	/West line		County
L	34	21S	37E		2222	Sou	th	706	West		Lea	
" Dedicated Acres	¹³ Joint or	Infill ¹⁴ Co	nsolidation	Code ¹⁵ Or	der No.	•	1/-1				L	

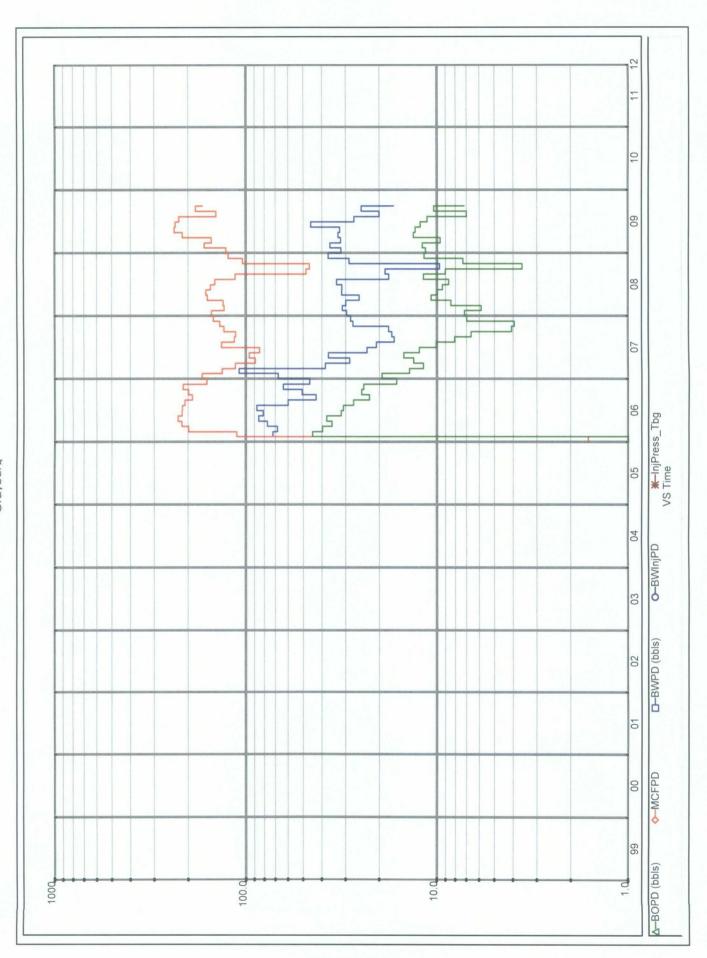
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	16			17 OPERATOR CERTIFICATION 1 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
				projected evident note receiption of marking most and marking method in the action of prostant to a contract with an owner of such a mineral or working interest,
				or to a voluntary pooling agreement or a compulsory pooling order
				hereto/fire entered by the division.
				UMMU (DOLL 11/03/2009
ĺ				Signature Date
ļ				Amber Cooke
l				Printed Name
	706' Bott	mhole		¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat
				was plotted from field notes of actual surveys made by
ļ	12			me or under my supervision, and that the same is true
	22			and correct to the best of my belief.
		·		 Date of Survey
.	495			Signature and Scal of Professional Surveyor:
what	1137			
	_			
	a l			
	2		ι.	
ſ				Certificate Number
Į.	[]			

Name: OWEN /B/ #10, Well Type: po-p Blinebry



Name: OWEN /B/ #11, Well Type: po-p Gravburg



Owen B #10 Production Allocation Calculation

Analagous Wells		Grayburg	Grayburg Initial Production	uction
Name	Producing Formation	воро	MCFPD	<u>BWPD</u>
Owen B 07	SA/GB	50	200	95
Owen B 08	SA/GB	30	90	77
Owen B 09	SA/GB	30	06	80
Owen B 11	GB	45	200	70
	average	38.75	145	80.5
Owen B #10	Expected Grayburg	25	120	135
	(lower end average)			
	Current Blinebry	0	79	0



Owen B #10 Bottom Hole Pressure Calculation

Analagous Wells		Top Perf	Top Perf Bottom Perf	Fluid Level	Water Gradient	Tubing Pressure	Bottom Hole Pressure	le Pressure
Name	Tested Formation	<u>ft</u>	\overline{tt}	ft from surf	psi/ft	psia	<u>Grayburg</u>	Blinebry
Owen B 8	GB	3688	3763	400	0.44	0	1479.72	
Owen B 9	GB	3598	3772	1700	0.44	350	1261.68	
Owen B 10	BL	5606	5853	2000	0.44	0		1695.32
						average	average 1370.7	1695.32

BHP=(bot. perf-fl.lev)*.44+tubing pressure

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 Owen B 8
 Swab report after acid job in the Grayburg on 01/13/2000

 Sec 34, T21S, R37E
 Lea County, NM

 Owen B 9
 Swab report after acid job in the Grayburg on 01/14/2000

 Sec 34, T21S, R37E
 Lea County, NM

Owen B 10Swab report after acid job in the Blinebry on 10/01/2001Sec 34, T21S, R37EThis is assumed to be the current reservoir pressure
Lea County, NM

Bottom Hole Pressure Bottom Hole Pressure 1370 psig