DATE IN #-26-10

SUSPENSE

ENGINEER W

LOGGED IN 4-76-10

TYPE PHC

APP NO. 1011652927

ABOVE THIS LINE FOR DIVISION USE ONLY

#### NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



ADMINISTRATIVE APPLICATION CHECKLIST 30-025-39723

				0-075-5170
		MANDATORY FOR ALL ADMINISTRATIVE APPLICATION WHICH REQUIRE PROCESSING AT THE		D-REGULATIONS 4272
Appli	cation Acronym			
	_	ndard Location] [NSP-Non-Standard Pro		
	_	nhole Commingling] [CTB-Lease Com		
	[PC-Pc	ool Commingling] [OLS - Off-Lease Sto		ntj
			ressure Maintenance Expansion]	
	FOR O	[SWD-Salt Water Disposal] [IPI-II	_	.amaal
	[EOK-Qua	lified Enhanced Oil Recovery Certificati	onj [PPR-Positive Production Resp	oonsej
[1]	TYPE OF A	PPLICATION - Check Those Which App		
	[A]	Location - Spacing Unit - Simultaneous	s Dedication	
		NSL NSP SD		
	Checl	COne Only for [B] or [C]		
	[B]	Commingling - Storage - Measurement		
		▼ DHC □ CTB □ PLC □	PC OLS OLM	* Mag
				~
	[C]	Injection - Disposal - Pressure Increase	- Enhanced Oil Recovery	
		☐ WFX ☐ PMX ☐ SWD [	_ IPI □ EOR □ PPR	
	FD 3		:	
	[D]	Other: Specify	i c	
<b>[0]</b>	NICOMETERS	NON DECLUDED TO CL 1 TL W		£ 1
[2]		TION REQUIRED TO: - Check Those W		
	[A]	Working, Royalty or Overriding R	oyalty Interest Owners	<u>.</u>
	נםז	Offset Operators, Leaseholders or	Sauréa a a Oasana an	
	[B]	Offset Operators, Leasenbluers or	Surface Owner	Name of the last o
	[C]	Application is One Which Require	es Published Legal Notice	
	ری	Tippheation is one which require	is I donished Began Notice	
	[D]	☐ Notification and/or Concurrent Ap	oproval by BLM or SLO	
	[2]	U.S. Bureau of Land Management - Commissioner o		
	[E]	For all of the above Proof of Noti	fication or Publication is Attached, and	l/or
	راحا	Tot all of the above, I loof of Noti	rication of Tubileation is Attached, and	<i>ii</i> 01,
	[F]	Waivers are Attached		
	r- 1			
[3]	SUBMIT AC	CURATE AND COMPLETE INFORM	MATION REQUIRED TO PROCES	S THE TYPE
	OF APPLIC	ATION INDICATED ABOVE.	•	
[4]	CERTIFICA	TION: I hereby certify that the informati	on submitted with this application for	administrative
appro	oval is <mark>accurate</mark> a	and complete to the best of my knowledge	e. I also understand that no action will	be taken on this
applic	cation until the re	equired information and notifications are s	ubmitted to the Division.	
	Note	: Statement must be completed by an individual	with managerial and/or supervisory capacity	
			3	
	ie Mackay	Signature S. Mackay	Engineering Technician	04/22/2010
Print	or Type Name	Signature	Title	Date
		V	aanhia maska Q	
			sophie.mackay@apachecorp.co	отт

e-mail Address



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

April 22, 2010

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

RE: Application for Exception to Rule 303-C – Downhole Commingling

Eugene Wood #15

Unit B, Section 22, T-22-S, R-37-E

Langlie Mattix; 7 RVRS-Q-Grayburg (37240) & Eunice; San Andres, Southwest (24180)

Lea County, New Mexico

Dear Mr. Jones,

Enclosed please find form an administrative application form (C-107A) and attachments for downhole commingling the Grayburg and San Andres in the Eugene Wood #13. Apache intends to produce both zones together with an expected rate of 50 BOPD, 100 MCFPD, 200 BWPD. The ownerships (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 has not yes been completed. The allocation method used for this well was determined by analyzing the cumulative oil, gas and water production in a nine section area of review surrounding this well. Supporting documentation is shown on the attached spreadsheet. Production for active and inactive wells was grouped by pool in the area of review. The totals for each phase were then divided by the number of wells associated with this pool yielding an average. This average was used to determine the percentage allocation. The area of review used encompasses what has been accepted as a good statistical representation for allocation purposes. By using this allocation method all zones will be brought online in a more effective and efficient manner. This will in turn generate a higher productive rate and quicker revenue streams not only for the operator but for the State of New Mexico too.

If you need additional information or have any questions, please give me a call at (918) 491-4864.

Sincerely,

Sophie Mackay

**Engineering Technician** 

Sophie Mackay

## District I 1625 N. French Drive, Hobbs, NM 88240

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

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

E-MAIL ADDRESS sophie.mackay@apachecorp.com

APPLICATION FOR DOWNHOLE COMMINGLING

X Single Well
Establish Pre-Approved Pools
EXISTING WELLBORE
Yes <u>X</u> No

Apache Corporation				ve, Sui	te 1500, Tulsa,	OK 74136-42	24	
Operator  Eugene Wood	015	Add B	dress 22	22S	37E		Lea	
Lease	Well No.		Section-Towns				County	<del></del>
OGRID No. 873 Property Co	de 26466	API No. 30-028	5-39723	I	Lease Type:	Federal	State	_ <b>X</b> _Fee
DATA ELEMENT	UPPEF	R ZONE	INTER	MEDL	ATE ZONE	LOV	VER ZO	ONE
Pool Name	Langlie Mattix;	7 RVRS-Q-GB				Eunice; San	Andres,	Southwes
Pool Code	37	240					24180	
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3646' - 387	5' (Est Perf)				3914' - 4	4078' (Es	st Perf)
Method of Production (Flowing or Artificial Lift)	Artific	ial Lift				Aı	tificial Lit	ft
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)		IA					NA	
Oil Gravity or Gas BTU (Degree API or Gas BTU)	36	API					35 API	
Producing, Shut-In or New Zone	New	Zone				N	lew Zone	)
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: Est  42 Rates: 110	BOPD	Date:			Date: Est		
	55	BWPD MCFPD	Rates:			Rates: 90	MCFP	סי
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil   85 %	Gas 55 %	Oil	%	Gas %	Oil 15	Ga %	45 %
		ADDITIO	NAL DATA	<u> </u>				
Are all working, royalty and overriding If not, have all working, royalty and ove					d mail?	Yes Yes	×	No
Are all produced fluids from all commit	igled zones comp	atible with each o	other?			Yes	×	No
Will commingling decrease the value of	production?					Yes		No_X
If this well is on, or communitized with, or the United States Bureau of Land Ma					ublic Lands	Yes		No
NMOCD Reference Case No. applicable	e to this well:	· · · · · · · · · · · · · · · · · · ·						
Attachments:  C-102 for each zone to be comming Production curve for each zone for a For zones with no production history Data to support allocation method o Notification list of working, royalty Any additional statements, data or definition of the comments.	at least one year.  y, estimated produce r formula.  and overriding re	(If not available, uction rates and s	attach explan upporting dat r uncommon	ation.) a.	cases.			
		PRE-APPRO	VED POO	LS				
If application is t	o establish Pre-A	pproved Pools, th	ne following a	ıdditiona	ıl information wil	ll be required:		
List of other orders approving downhole List of all operators within the proposed Proof that all operators within the propo Bottomhole pressure data.	Pre-Approved Po	ools	.,					·
hereby certify that the information		nd complete to t	he best of m	ıy know	ledge and belie	ef.		
SIGNATURE & lac	kay	TITLE_Eng	gineering Te	chnicia	n	DATE_04/22	/2010	
TYPE OR PRINT NAME Sophie M			т	ELEPH	ONE NO. (918	3 )491-4	864	

DISTRICT I 1625 N. French Dr., Hobbs, NM 55240 DISTRICT II 1501 V. Grand Avenue, Artesia, NM 55210

### State of New Mexico Energy, Minerals and Natural Resources Department

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

# DISTRICT III OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fa Now Mariae 87505

DISTRICT IV

1820 S. St. Francis Dr., Santa Fe, NW 67505

AMENDED REPORT

API Number	Pool Code	Pool Name				
30-025-39723	37240	Langlie Mattix; 7 RVRS	5 - Q - GB			
Property Code	roperty Name	Well Number				
26466	EUG	15				
OGRID No.	O	perator Name	Elevation			
873	APACHE	CORPORATION	3361'			

#### Surface Location

	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	В	22	22 S	37 E		990	NORTH	1710	EAST	LEA
_										

#### Bottom Hole Location If Different From Surface

UL or lot No. Section	on Township	Range Lot	Idn :	Feet from the	North/South line	Peet from the	East/West line	County
Dedicated Acres Joi	nt or Infill Co	nsolidation Code	Order	r 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

_		DARD UNIT HAS BEEN APPROVED BY	
	SURFACE LOCATION  Lat - N 32*22*54.95**  Long - W 103*08*52.35**  NMSPCE- E 907295.020  (NAD-83)	0	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 organisation either owns a working interest or unleased mineral these interest in the land including the proposed bottom hale location pursuant to a contrast with an owner of such a mineral to working interest, or to a voluntary pooting agreement or a computation pooting order heretofore entered by the division.
			Signature Date  Sophie Mackay  Printed Name  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.  Date Surveys a later Correspond to the post of my pervisor and that the same is true and correct to the best of my belief.
			Certificate No. Gary L. Jones 7977  BASIN SURVEYS

DISTRICT I 1525 N. French Dr., Hobbs, NM 56240 DISTRICT II 1301 W. Grund Avenue, Artesia, NM 86210

### State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office State Lease - 4 Copies

#### DISTRICT III 1000 Rio Brazos Rd., Artec, NM 87410

DISTRICT IV

#### OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

Peo Lease - 3 Copies

1220 S. St. Francis Dr., Santa Fe, NM 67605

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name				
30-025-39723	24180	Eunice; San Andres, Sou	thwest			
Property Code	Pı	Property Name				
26466	EUG	15				
OGRID No.	01	Elevation				
873	APACHE	3361'				

#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Bast/West line	County
В	22	22 S	37 E		990	NORTH	1710	EAST	LEA

#### Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Peet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation (	Code Or	der No.			<u> </u>	
40				1					

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

OR A NON-STAN	DARD UNIT HAS BEE	APPROVED B1 111	E DIVIDION
SURFACE LOCATION    Lat - N 32*22*54.95"   Long - W 103*08*52.35"   NMSPCE - N 504705.868   E 907295.020   (NAD-83)	066.	1710'	OPERATOR CERTIFICATION  I hereby certify that the information contained harvin is true and complete to the best of my knowledge and belief, and that this organisation either owns a working interest or unleased mineral interest in the land including the proposed bottom hale 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 heretofore entered by the division.
+	· · · · · · · · · · · · · · · · · · ·		Signature Date Sophie Mackay Printed Name  SURVEYOR CERTIFICATION
 +			I hereby certify that the well location shown on this plat was platted 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.  Dato Surveyat is the content of the conte
+			Certificate No. Gary L. Jones 7977

				Cum (	Oil (BBL)	Cum Gas	s.(MCF)	Cum Wa	iter (BBL)
Lease Name	Well Number	10DIGITARI	Location	Grayburg	San Andres	Grayburg	San Andres	Grayburg	San Andres
HUGH	1		14D 22S 37E	2207		5224		11017	
HUGH	3		14B 22S 37E	13244		299179	-	453254	
E W WALDEN	6		15N 22S 37E	75293	<del></del>	131150	ļ	15	<b></b>
ELLIOTT A 15	1		15P 22S 37E	89639		128067		751	
ELLIOTT A 15	2	·	15O 22S 37E	129125		333187		218092	
E W WALDEN	1		15E 22S 37E	68666		445297		35635	
E W WALDEN	5		15M 22S 37E	74162		206164		18919	
E W WALDEN	4		15K 22S 37E C NE SW	76445		46847	ļ		<b></b> -
E W WALDEN	6		15N 22S 37E C SE SW	75293		131150	ļ		
ELLIOTT FEDERAL	1		15G 22S 37E C SW NE	52554		101691	<u> </u>	1828	<del>                                     </del>
E W WALDEN	2		15F 22S 37E	56433	ļ	109196	<b> </b>	100000	<del></del>
E W WALDEN	2		15C 22S 37E	114251	<b></b>	965790		198282	<del></del>
E W WALDEN	3		15L 22S 37E	57540	<del></del>	119404	<u> </u>	150117	<del>                                     </del>
ELLIOTT A 15	1		15J 22S 37E	113967	<del>   </del>	677320		456417	<del> </del>
ELLIOTT B 15	2		15A 22S 37E	110317		631288		181737	
ELLIOTT B 15	3		15B 22S 37E	109209		1157579	-	165415	
E W WALDEN	1		15D 22S 37E	160218	-	1006516	ļ	64099	<b></b>
R E COLE	1		160 22S 37E SW SE	77841		393971	<u> </u>	424101	<del></del>
R E COLE	2		16N 22S 37E SE SW	60099	ļ	302558	<u> </u>	1015513	
R E COLE NOT A	3		16M 22S 37E SW SW	204570		200400	· ·	3278	
R E COLE NCT A	2		16P 22S 37E 16L 22S 37E	201573		392406		67846	
R E COLE NCT A	3	3002510314		49863 147322		64403		6289	<del></del>
R E COLE NOT A	5		16I 22S 37E 16I 22S 37E NE NE SE	<del></del>		448678		271471	20424
R E COLE NCT A	6		16B 22S 37E NE NE SE	21467	2405 2972	233241	95263 366711	137775	28424 216763
	1		16A 22S 37E	117840		367935		5200	146965
COLE STATE  COLE STATE	2		16D 22S 37E	107089	-	320575	1036363	5260 226	146965
	3		16C 22S 37E	105960			<b> </b>		<del></del>
COLE STATE	4		16E 22S 37E	79457	ļ	445041	ļ	7842 12759	<del></del>
COLE STATE  COLE STATE	5		16H 22S 37E	74464	<b>——</b>	497312 523230		5363	<del></del>
R E COLE B STATE	6		16B 22S 37E	33962		523230		3363	$\vdash$
FERRELL	1		22O 22S 37E	17297					<del></del>
BOYD	1		23L 22\$ 37E	10999				-	
R E COLE A	20		16K 22S 37E	31243		249082		39352	
HUGH	10	<del></del>	14E 22S 37E SW SW NW	68824		513485	-	363667	<del></del>
R E COLE NCT A	8		16K 22S 37E	40100	1950	329315	162890	90525	17978
COLE STATE	10		16E 22S 37E	10100	6736	0233.0	610679	30023	198983
E W WALDEN	7		15L 22S 37E N2 NW SW	83725		1262389		602248	130000
R E COLE NCT A	11		16J 22S 37E C NW SE	54108		612260		69502	132331
HUGH	9	<del></del>	14D 22S 37E NW NW	35540		220054	007702	75726	10200.
COLE STATE	12		16D 22S 37E SW NW NW		4395	22000	642146	70,20	142221
HUGH	11	<del></del>	14F 22S 37E SE NW	63113		565492		455870	
ELLIOTT B 15 2	2		15H 22S 37E	53113		945609		83825	
ELLIOTT 16 FEDERAL	2		15G 22S 37E SW NE	41375		894549		591752	
HUGH	12		14C 22S 37E NE NW	40890		322433		412991	
E W WALDEN	8		15K 22S 37E N2 NE SW	68297		1030360		698866	
E W WALDEN	9	-	15F 22S 37E NW SE NW	53619	_	1361405		458087	
E W WALDEN	10	3002523166	15E 22S 37E SW NW	57557		1553775		1046258	
HUGH	13	3002523275	14D 22S 37E NW NW		117005		886711		2080290
COLE STATE	14	3002523828	16F 22S 37E		6509		809685		436712
E W WALDEN	11	3002524603	15M 22S 37E N2 SW SW	92080		1752561		1624609	
R E COLE NCT A	15	3002524763	16L 22S 37E E2 NW SW	1325	8660	27622	336749	18206	169538
R E COLE NCT A	17	3002525356	16P 22S 37E SW SE SE	26958	12316	54512	223855	74291	82752
R E COLE	3		16M 22S 37E NE SW SW	12156		190106		1465	
R E COLE NCT A	21	3002526474	16B 22S 37E	3459		111207		8252	
E W WALDEN	12	3002527756	15F 22S 37E SW SE NW	21526	7195	450680	179539	206128	187878
E W WALDEN			15K 22S 37E SW NE SW	55029		1133083		223247	
E W WALDEN	-	3002528204	15N 22S 37E SE SE SW	48895		1048175		497354	
HUGH			14E 22S 37E NE SW NW	16550	5731	191862	128865	93483	78015
COLE STATE			16H 22S 37E		9715		764967		20823
COLE STATE			16G 22S 37E SW SW NE		13268		665423		99962
COLE STATE			16C 22S 37E W2 NE NW		3459		388982		76720
COLE STATE		3002537399	16F 22S 37E NE SE NW		3902		340230		86342
COLE STATE			16G 22S 37E NE SW NE		13508		309440		44958
R E COLE		3002537489	16N 22S 37E SE SE SW	7742		103999		81885	
E W WALDEN			15D 22S 37E SE NW NW	81	2131		101562	263	9268
COLE STATE	16	3002537721	16D 22S 37E NE NW NW	7939	1567	186117	280508	112100	12191
COLE STATE COLE STATE			16H 22S 37E NE SE NE 16A 22S 37E NW NE NE	5521	832 7911	77097	70312	31582	4124

	_			Cum (	Oil (BBL)	Cum Ga	s (MCF)	Cum Wa	ter (BBL)
Lease Name	Well Number	10DIGITAPI	Location	Grayburg	San Andres	Grayburg	San Andres	Grayburg	San Andres
COLE STATE	23	3002537828	16E 22S 37E NE SW NW	4251	2892	132947	195318	9862	85472
HUGH	17	3002537855	14D 22S 37E SW NW NW	2563	945	53661	63978	70390	64607
ELLIOTT B 15	8	3002537889	15H 22S 37E SE SE NE	4926		84105		29289	
OLLIE J BOYD 23	1	3002538217	23C 22S 37E NW NE NW		180				492
			TOTALS	3,486,301	261,567	25,942,341	9,260,940	11,834,259	4,471,126
			AVERAGES	58,105	10,463	463,256	385,873	219,153	178,845

Proposed Allocations	Oil	Gas	Water		
Grayburg	85%	55%	55%		
San Andres	15%	45%	45%		
TOTAL	100%	100%	100%		