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

			MIGHTELOUS CHECKER	-
		ANDATORY FOR ALL ADMINISTRATIVE APPLICATION WHICH REQUIRE PROCESSING AT		RULES AND REGULATIONS
Applic	[DHC-Dowi	ndard Lócation] [NSP-Non-Standard nhole Commingling] [CTB-Lease Co ol Commingling] [OLS - Off-Lease S	ommingling] [PLC-Pool/Lease Storage] [OLM-Off-Lease Mea (-Pressure Maintenance Expans 'I-Injection Pressure Increase]	Commingling] surement] ion]
[1]	TYPE OF AP [A]	PLICATION - Check Those Which A Location - Spacing Unit - Simultane NSL NSP SD		
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measurement DHC	ent PC OLS OLM	
	[C]	Injection - Disposal - Pressure Increa	nse - Enhanced Oil Recovery	
	[D]	Other: Specify		
[2]	NOTIFICATI	ION REQUIRED TO: - Check Those Working, Royalty or Overriding		pply
	[B]	Offset Operators, Leaseholders	or Surface Owner	
	[C]	Application is One Which Requ	nires Published Legal Notice	
	[D]	Notification and/or Concurrent U.S. Bureau of Land Management - Commission	Approval by BLM or SLO er of Public Lands, State Lend Office	
	[E]	For all of the above, Proof of N	otification or Publication is Attac	hed, and/or,
	[F]	Waivers are Attached		
[3]		CURATE AND COMPLETE INFO ATION INDICATED ABOVE.	RMATION REQUIRED TO P	ROCESS THE TYPE
	al is accurate a	FION: I hereby certify that the inform and complete to the best of my knowled quired information and notifications ar	dge. I also understand that no act	
	Note:	Statement must be completed by an individ	ual with managerial and/or supervisory	capacity.
Beverly Print o	Hatfield r Type Name	Dex takul	SR ENGR TECH Title	7/8/2011 Date

Beverly.Hatfield@apachecorp.com e-mail Address



July 08, 2011

Mr. Will V. Jones New Mexico Oil Conservation Division 1220 South Saint Francis Drive Santa Fe, New Mexico 87505-4225

RE: Application for Exception to Rule 303-C – Downhole Commingling HANSEN STATE 014 - API 30 025 39635
Unit B, Section 16, T-20-S, R-37-E
Monument; Abo, Southeast (Oil) & Monument; Tubb (Oil)
Lea County, New Mexico

Dear Mr. Jones,

Enclosed please find form C-107A and attachments for downhole commingling the captioned well. The ownerships (WI, NRI and ORRI) of these pools are identical in this wellbore. The fluids from each of these pools are compatible as seen in other similar commingles in the area. Combining these fluids will not result in any damage to these pools. Commingling will improve the efficiency of present and future recovery operations. Cross flow will not be a problem due to having a production lift system capable of keeping the well pumped off thereby maximizing production. This commingling will not reduce the value of the total remaining production.

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 main reason for using this method is based on economics and minimizing reservoir damage. Past completion practices had all zones perforated and fracture stimulated during one full week. Each zone was isolated by a retrievable bridge plug to allow for production testing of each zone for allocation purposes. This testing period lasted as long as one month before a stabilized rate was observed thus allowing the next zone to be brought on and tested. During this time period the completion fluids used were still confined to the other reservoirs causing gel damage. It is a common practice to get these fluids out of the wellbore as soon as possible to help maximize productivity. On a cost basis it is more expensive to have a completion rig move in and out multiple times to bring on each new zone. Several other factors such as weather, other new completions and regulatory well work may interfere with these new wells.

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 (432) 818-1906.

Sincerely,

Beverly Hatfield

Sr. Staff Engineering Tech

attachments

District I

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A Revised June 10, 2003

District II

District III

District IV

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

APPLICATION TYPE

APPLICÁTION FOR DOWNHOLE COMMINGLING X Yes No. 1914									
Apache Corporation		303 Veterans Airpark Lane Suite 30	00 Midland TX 205 HC						
Operator HANSEN STATE	014 B	. 16 208 37E	LEA						
Lease		er-Section-Township-Range	County						
OGRID No. 873 Property Co	de 96764 API No. 30-0	25-39635 Lease Type:	FederalX_StateFee						
DATA ELEMENT	UPPER ZONZ	INTERMEDIATE ZONE	LÓWER ZOME						
Pool Name	MONUMENT; TUBB (oll)	5	MONUMĘNT; ABO (oil)						
Pool Code	47090		96764						
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	6402 ⁻ 6533' (perfs)	6402-6533' (perfs)							
Method of Production (Flowing or Artificial Lift)	ARTIFICIAL LIFT		ARTIFICIAL LIFT						
Bottomhole Pressure (Note: Presure data will not be required if the becom- perfectation in the lower some in writin 150% of the dipth of the top perforation in the upper soot)	NA		NA						
Oil Gravity or Gas BTU (Regree API or Gas BTU)	. 38.7		38.7						
Producing, Shut-In or New Zone	NEW ZONE		PRODUCING						
Date and Oil/Gas/Water Rates of Last Production. (Note: he new notes with to production haven.	Date: EST.	Date:	Date: 6/5/2011						
applicant shall be required to attach production estimates a disupporting data.)	41 BO Rates: 94 MCF 170 BW	Rates:	17 BO Rates: 120 MCF 2 BW						
Fixed Allocation Percentage	Oil Gas	Oil Gas	Oil Gas						
tables mad a 18 po todined.) give forest as bear todines of a sollines of gref is	86 % 60 %	· % %	14 % 40 %						
	ADDITIO	ONAL 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	agled zones compatible with each	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			Yes No						
NMOCD Reference Case No. applicabl	e to this well:								
Attachments: 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.									
	<u>PRE-APPR</u>	ROVED POOLS							
If application is	to establish Prc-Approved Pools,	the following additional information w	rill be required:						
List of other orders approving downhol List of all operators within the proposed Proof that all operators within the proposed Bottomhole pressure data.	i Pre-Approved Pools								
I hereby certify that the information		o the best of my knowledge and bel or. Engineering Tech	ief. DATE 07/08/2011						
SIGNATURE DE NOM									
TYPE OR PRINT NAME Bev Ha	field	TELEPHONE NO. (4	32) 818-1906						

E-MAIL ADDRESS BeverlyHalfield@apachecorp.com

Company Comp									\triangle		\sim	 1			$\overline{}$		<u> </u>
ADDITION COLUMN	[[College Party Pa	DAILPRA	Recount	o zorn	THE STREET	1450	(21.17)	SOUN	Carling	TERE!			MOSAL T	V ne	25.79	1900	MASS
Column	INVERSE	-	130100	1000	1444100	, , , , , ,	-			1	$\mathbf{\Sigma}$						
ANALYSIS STREET HERE STR			B 200	Ç	1	1000				100				nim			
ANALYSIS STREET HERE STR	ELANE VALTURE		NAME:	181	ENIMIE				311)				सार्व				
ANALYSIS STREET HERE STR	SEATE WATER		MOTE AND	701						11000			100	- 80			700
ANALYSIS STREET HERE STR	SEALHY TOWNER	<u> </u>	100710H771	22	1 14/11/4 1 14/11/4	100				1 131						{	
ANALYSIS STREET HERE STR	MADIA JEWALA		1091101071	(: 293.2) (1200.1)	E SHE STAY	422143						-		111160			
ANALYSIS STREET HERE STR	MADA JAMES		120104011	SE I	E	1831				167741							
Color Colo	TA TAUSTREUM .		MIXION	unii.	LOVE					11274				क्ति			
Section Sect	GALLEVEROCKU		100 TOP 1	10201						186							
Section Sect	VANKTEN		W PO AN	100	<u></u>	39911				10%				1114			
Color	INTERIOR		130 (01)		18	791/	24157	1917			131141	1761	11/07	1/11/2	8150	1(30)	
Color	(ALLE)92/504 L12	14.91	TE SE NAV	 	7913				3773	3[134				- 170	
Color	(ATT)	12	No.	10 04	76	1000	HP			180	37(54)			TIP X	22700	:	
Color	ISE VALUE IT		NO SHIP	(A 293		7310	1933				22173	27132		15111	1 6	14	
Color	CETATE O	1	IN TOTAL	(EN LU)	ACKED WILL	21917	41971	1 1811		1111	9/01/0	341184		(1)51/	1477	7001	
Color	HATEH STATE	-	N ION	IN NA	KWIEIA IE	1711		<u> </u>					17	20)	116		
STATE 1	UATE!	-	(Wishing	101331	ENTERY.	1110	- 9]			-100			- युगु	T OC	, 	
STATE 1	À		MIKOT	KHI	76	7216	1337			12000	गम			100			
VALUE 10 10 10 10 10 10 10 1	41743	ii	I SWIZE LALL		I K M O COV	1	114114	1		1 8	. (693))			4•			
Company Comp	K VAYEN (A)	Ü	10012011	N 3 1	CIFIL	1	_(112				- 1211	i			- 312		
Company Comp	WALLETY OF	1	MAN	10.733	I CHE PE	1000	100		<u></u>		117431			314	- 18		 {
Company Comp	STATISTICALIST.	110	(KKKW)	12 8 3 1	E CHAHA		1 73997				12(()				414		
	PLYHOLSTAYE	11	Ken real	10 01	ICULUMNA IC	1	14(44)				- H117	- 9			1 400		
	TENNTY PARTY TORY	11	жжжн	72.00	HIGHELL		- Kill				())	-					
	11	ÿ	MAK W	134 503) [
Company Comp	THE RESERVE		XONIAN	IN OU	78		_ (42)	1111			())11/1	अत्य			12793	- 22/2	
		10:		15 Kg	<u> </u>		100				240141				Jum		
CAMARICA	Patroning			(C 60)	<u> </u>		24171				_1991777				110		
CAMARICA	G(1 4) H)-0 H4	13	1001171173	AKEL	E KNEW E	11111			<u> </u>		144541			inn			
	MANAGE BLATEO	133	191711K	S S	16	THAT!		107	{				-	33157		- 0031	
	INDEASON		INHHIO INHHIO	1227	7	113160	- 33			177	3.0			17471	19234		
	3	13	70H7144	1177	ns .	100	- 12	{·;		1337	- 111				- , , ,		
	2	12	THE STATE OF	NA.)}		- 1				4311				337		
Company Comp	HOLARY	ii.	MAHA	M W	7E	1 2		404				100	1002			<u> 10)</u>	_111
Company Comp	GATT B	υ	X02332V	ĭХЯ	RHENTH	1)n		-//6	711654	3400			411	- 101	
	SEVU DUCAS A		機能证	No.	TELLINE	.								<u> </u>			
	LYAIR TEH	#	STORY.	i VXII	ENE DY AY	100	189		133	100	19701			2712	711		114(4)
	CVANTING	1		PHI)					f		*	1		- 8			
	R VAN ETIEK	11	NIVIVI IKIIIKI		II CIVILIV	KK)	(32)			-3717	4714			16.00	181		
	THE COORE WOLLOW	13	KOZIJI(I)	KKIN			3/11	!		F		į					
DAKES	TALL CO ID	1	BIHE	15 61	rt	3112	1144		-MH	2019	6314		1311		181		12:29
DAKES	RVAILINEA	11	10000	12.0	WAYASA	177634		1				#3701E		3320	}	3 34 37	<u>=</u>
DAKES	WHENTER	,	REMIER	1981	<u> </u>		- 6		-गर्मी					- 9			
DAKES		7	100 A	12 kg 17	CAMENIA.		134	16		i	11011		- 32	,,,,,	5,,,		
		,		HALL.	12 C LW 112	1155	10:61		3117		-188			tti		== #	<u> </u>
	HELDONE AVOKANO	1	130154711	1/4 8/4 1	E BERENE							- 3					
VALUE 1	WHI LUG-UV		國際計	# XI II	NY KWY	734112				7,,,,				1940	=	إسب	二烷烷
				DIN.	ILFA IL		11/2					111		266	<u> </u>		=मर्गे
				461	MIERE		481		100		214033		103				
	(30214)		SER IN	ijsiji	Unite	!					(818)		ارب		- 155		<u></u>
Tana a transfer to the state of	CHACA CHASA	-	STEEL STEEL		MINAM				10(1)				72155				1427
	CONTRACTOR OF STATE O	-	(CA(1))21)	iggt'	- 11,11 5+2	TANKAN T	म्पूर्ध	451	_024	444	1444	LU11	कार्या	क्राम	القوع	110771	ज्युत

Fredeted Alerabens	65	GII	//××
741180			163
(ve)	· 14K	65%	6×
(P)	X	12%	48
Ase .		21%	
0831		7.7	177

State of New Mexico

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 88240

DISTRICT II

Energy, Minerals and Natural Resources Department

Form C-102

Revised October 12, 2005 Submit to Appropriate District Office

State Lease - 4 Copics Fee Lease - 3 Copies

1301 W. GRAND AVENUE, ARTESIA, NM 86210

DISTRICT III

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

1220 S ST. FRANCIS DR., SANTA FE, NM 87	7505 WELL LOCATION AND ACREAGE DEDICATION PLAT	☐ AMENDED REPORT		
30-025-3963S	306601 Monument; Abo, Sou	theast .		
Property Code	Property Name	Well Number		
306601	HANSEN STATE	014		
OGRID No.	Operator Name	Elevation		
873	APACHE CORPORATION	3541'		

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	16	20-S	37-E		910	NORTH	2310	EAST	LÈA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	p Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill	Consolidation	Code 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
OR A NON-STANDARD UNIT HAS BEEN AFFROVED BY THE DIVISION OPERATOR CERTIFICATION I hereby certify that the information for increase in the individual control of any knowledge and belief, and that this arganization either owns a working interest or unleased mineral interest in the land mediuding the proposed bottom hade looked in the including the proposed bottom hade looked in the information of any knowledge and belief and that I had and more of such mineral or notking interest, or to a voluntary pooling arctin height for earner by the distinct. Signature Date Dev Hatrica 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 mo or under my supervision, and that the same is true and correct to the best of my belief. I have been supported and correct to the best of my belief. Signature & Surveysed (XIOA), REV.8/21/5 Signature & Surve

State of New Mexico

DISTRICT I 1625 N. FRENCH DR., HOBBS, NY 68240

Energy, Minerals and Natural Resources Department

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 08210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

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

DISTRICT IV 1220 s. st. francis dr., santa fe, nm 87505	WELL LOCATION AND ACREAGE DEDICATION	PLAT
30-025-39635	47090 Monument; Tu	Pool Name
Property Code	Property Name	Well Number
3011-01	HANSEN STATE	D 14

こしののし OGRID No. Operator Name Elevation 873 APACHE CORPORATION 3541'

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	16	20-S	37-E		910	NORTH	2310	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	lnsolidation	Code Or	der No.	<u> </u>			<u>I</u>

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD LINIT HAS BEEN APPROVED BY THE DIVISION

VI C GOL STANDARD OIL! HO DEEN ALL KOVED EL 11	ID DIVIDION
GEODE IIC COORDINATES NAD 27 NME Y=575587.6 N X=832312.9 E LAT = 32.577766* N LONG. = 103.254545* W LAT. = 32'34'40" N LONG: = 103'15'16" W	OPERATOR CERTIFICATION I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by the or under my supervision, and that the same is true and correct to the best of my belief. AUGUST 17 2010 Date Surveyed XICIA REV.8/27/10 Signature & Seal of Profostional Surveyor Profostional Surveyor Certificate No. RONALD EIDSON 3239