							-RT6-11	V	
DATE IN 6	10.11	SUSPENSE	:	ENGINEER WVJ	LOGGED IN GUIDIU	TYPE A	PPNO.	116155	7062
				ABO	VE THIS LINE FOR DIVISION USE ONL	· (450	3		
		N	EW M		NSERVATION I	DIVISION	Total !	Head	che
			1220	_	ring Bureau - Orive, Santa Fe, NM	87505		Honser 20-025	State
		ß	ADMIR	USTRATIV	E APPLICAT	ON CHE	CKLIST	30-025	- 395
THIS	S CHECKLI	ST IS MA			IVE APPLICATIONS FOR ESSING AT THE DIVISION			S AND REGULAT	IONS
Applica	она <u>ј</u> 1	n-Stan C-Down PC-Poo	dard Loc hole Con ol Commi WFX-Wat [SW]	nmingling] [CTE ngling] [OLS - C terflood Expansion D-Salt Water Dispo	Standard Proration I-Lease Comminglin If-Lease Storage] I] [PMX-Pressure I] [IPI-Injectlor IV Certification] [g] [PLC-Po [OLM-Off-Le Maintenance Pressure Inc	ol/Lease Con ease Measure e Expansion] crease]	nmingling] ment]	1=e
[1]		OF API [A]		n - S <u>pa</u> cing Unit <u>- S</u>	e Which Apply for [Simultaneous Dedica SD	-			
		Check ([B]		y for [B] or [C] ngling - Storage - M IC	Measurement PLC PC	OLS [OLM		
		[C]	Injection WI		sure Increase - Enhai SWD [] IPI		very PPR		
		[D]	Other: S	Specify					
[2]		ICATI [Å]			eck Those Which A Overriding Royalty I				
		[B]	Of	set Operators, Lea	seholders or Surface	Owner			
		[C]	□ Ар	plication is One W	hich Requires Publis	shed Legal No	otice		
		[D]	□ No	tification and/or Co Bureau of Land Managemen	DICUTENT Approval l 1 - Commissioner of Public Lan	oy BLM or SI ds, State Land Office	LO.		
		[E]	☐ Fo	all of the above, F	Proof of Notification	or Publication	n is Attached,	and/or,	
		[F]	☐ Wa	nivers are Attached					
[3]				AND COMPLET NDICATED ABO	ΓΕ INFORMATIO VE.	N REQUIRE	ED TO PROC	CESS THE T	YPE

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative 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 complete	ed by an individual with man	agerial and/or supervisory capa	acity.
BEVERLY HATFIELD	Beverti	Hartlield	SR STAFF ENGINEERING TECH	6-10-2011
Print or Type Name	Signature 7		Title	Date
			D 1 17 (6 110)	

Beverly.Hatfield@apachecorp.com

e-mail Address

District I

State of New Mexico Energy, Minerals and Natural Resources Department Revised June 10, 2003

District II

150 W Good Acres, Archi, NS (1911)

District III

District IV 1235 S. Freich D., Salate, NM 81963

E-MAIL ADDRESS BeverlyHatfield@apachecorp.com

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

APPLICATION TYPE

Single Well
Establish Pre-Approved Pools
EXISTING WELLBORE
Yes ____No

1205 S. Francia D., Sa./ade, NM 81965	APPLICATION FOR DO	WNHOLE COMMINGLING	Yes No				
Apache Corporation	30: Add	3 Veterans Airpark Lane Sulte 3000	0 Midland TX 79705				
HANSEN STATE	012 H	16 20S 37E	LEA				
Lease		Section-Township-Range	County				
OGRID No. 873 Property Co	de 306601 API No. 30-025	1-39563 Lease Type:	FederalState X Fee				
DATA ELEMENT	ATA ELEMENT UPPER ZONE INTERMEDIATE ZONE						
Pool Name	MONUMENT; TUBB (oil)	ی	MONUMENT; ABO (oil)				
Pool Code	47090		96764				
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	6354-6546' (perfs)	·	6928-7532' (perfs)				
Method of Production (Flowing or Artificial Lift)	ARTIFICIAL LIFT		ARTIFICIAL LIFT				
Bottomhole Pressure (Note: Presser dan will not be required if the bottom perforation in the larver zone is within 150% of the depth of the top perforation in the upper zone)	NA		NA				
Oil Gravity or Gas BTU (Degree 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 before recently the production Line).	Date: EST.	Date:	Date: 6/5/2011				
applicant shall be required to attach production commutes and supporting 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				
than extrem or pure production, in proming data or explanation will be required.)	86 % 60 %	% %	14 % 40 %				
	ADDITIO	NAL DATA					
Are all working, royalty and overriding If not, have all working, royalty and ov	royalty interests identical in all cor	nmingled zones?	Yes X No				
Are all produced fluids from all commi		·	Yes_X No				
Will commingling decrease the value of			Yes No X				
If this well is on, or communitized with		ne Commissioner of Public Lands					
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 comming Production curve for each zone for For zones with no production histor Data to support allocation method of Notification list of working, royally Any additional statements, data or or the contract of the con	at least one year. (If not available, ry, estimated production rates and s or formula. r and overriding royalty interests fo	attach explanation.) upporting data r uncommon interest cases					
	PRE-A'PPRO	OVED POOLS					
If application is	to establish Pre-Approved Pools, 11	ne following additional information wi	ll 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.	d Pre-Approved Pools						
I hereby certify that the information	$\mathcal{L}I \cdot II \cdot I$	the best of my knowledge and believely	pate 06/10/2011				
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		-				
TYPE OR PRINT NAME Bev Ha	meio	TELEPHONE NO. (_43	<u>) 818-1906</u>				

Jones, William V., EMNRD

From:

Hatfield, Beverly [Beverly.Hatfield@apachecorp.com]

Sent:

Friday, June 10, 2011 10:26 AM

To:

Jones, William V., EMNRD

Subject: Attachments: DHC - Hansen State 012 20110610121227669.pdf

Hope your Friday is going better than mine. Here is another DHC they need as soon as you can get to it. I appreciate all your time.
Bev

----Original Message----

From: midmidr55003@apachecorp.com [mailto:midmidr55003@apachecorp.com]

Sent: Friday, June 10, 2011 11:12 AM To: Gawloski, Ted; Hatfield, Beverly

Subject:

This E-mail was sent from "midmidr50003" (Aficio MP C5000).

Scan Date: 06.10.2011 12:12:27 (-0400)
Queries to: midmidr55003@apachecorp.com



June 10, 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 012 - API 30 025 39563
Unit H, 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-1037A 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

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Proposed Affections	Q1 T	GN	Water
Padjade	638	1%	16%
Tubb	·36×	62%	5%
Dela-J	5%	12%	. 4%
Abo .	6%	21%	4%
TOTAL	100%	VCX.	. 166.4

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

1220 S. St. Francis Dr., Santa Fe, NM 87505

District IV

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

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

☐ AMENDED REPORT

_		V	ELL LO	CATIO	N AND ACE	REAGE DEDIC	CATION PLA	T.				
30-025-39563	API Number		96764	Pool Code		Pool Name MONUMENT;ABO, SOUTHEAST						
¹ Property (Code	HANSEN			Property		JOHIEAGI	012	Well Number			
OGRID No. 873 Apache Corporation: 303 Veterans Airpark Lane, Suite 3000 Midland,								05 3547'	*Elevation			
					¹⁰ Surface	Location		· · · · · · · · · · · · · · · · · · ·				
UL or lot no. H	Section 16	Township 20 S	Range 37 E	Lot Idn					County LEA			
-			11 Be	ottom Ho	le Location I	f Different From	n Surface					
UL or lot no.	Section	Township	Range		Feet from the	1		East/West line	County			
"Dedicated Acres	" Joint or	Infill "C	Consolidation	Code "Or	der 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	·			IP20,	17 OPERATOR CERTIFICATION Thereby certify that the information considered for in is time and complete to the best of my brandedge and belief, and that this organization either owns a weaking interest or indecised primeral interest in the local including the proposed bottom bote he advanced to a right to do ill this soil or this bocation passent to a contract with an around of such a mineral or working bits est, or to a voluntary pooling order. Bitser to for each in they the distign.
			4, 330		Beverly Hatfield 06/10/2011 Signature BEVERLY HATFIELD
·		Į.	Successive	1	Innted 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. 10/22/2009
					Date of Survey Signature and Seal of Professional Surveyor:
			,		21859 Certificate Number

District 1
1625 N. French Dr., Hobbs, NM 88240
District 11
1301 W. Grand Avenue, Artesia, NM 88210
District 111

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

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

1000 Rio Brazos Rd., Aztec, NM 87410

☐ AMENDED REPORT

1220 3, 5t, Francis	Di., Salua F	e, mai a rous							LI AME	NDED KE	SPORT	
		W	ELL LO	CATIO	N AND ACE	EAGE DEDIC	CATION PLA	T				
'API Number 'Pool Co							Pool Na	nie				
30-025-39563	3'		47090		MÓN	IUMENT;TUBB						
Property (306601		HANSEN S	STATE.	' Property Nante						Well Number 012		
'ogrid i 873		Apache Co	rporation	: 303 Vete	'Operator rans Airpark La	Name ine, Suite 3000 M	lidland, TX 797	05	'Elevation 3547'			
· · · · · · · · · · · · · · · · · · ·				- -	10 Surface	Location						
UL or lot no.	Section	Township	Range	Lot Idn	· Feet from the	North/South line	Feet from the	Eas	t/West line		County	
H	16 ⁻	20 S	37 E		1650	NORTH 330 EAST				LEA		
			¹¹ Bo	ottom Ho	le Location I	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 40	" Joint or	r Infill "Co	onsolidation (Code "Or	der 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.

16				165	17 OPERATOR CERTIFICATION Thereby certify that the hybertation continued becein is true and complete to
l l	l			8	the best of my browledge and bellef, and that this organization either owns a
	<u> </u>			`	working interest or unleased mineral interest in the land including the
					proposed bottom hele becation or has a right to dill this well at this location
					Jen switt to a contract with an owner of such a mineral or working interest.
					or to a voluntary pooling agreement or a computerry pooling order
					beautifure entered by the things in.
			//	9	Deverty and ield 06/10/2011
				73	Signature Date
			· 33	0	BEVERLY HATFIELD
		Ž	/	7	Printed Name
		Z		\mathcal{A}	
				//	100 C
		**	702 58 min francis	Sec. (10.0)	¹⁸ SURVEYOR CERTIFICATION
			"		I hereby certify that the well location shown on this plat
		•	ļ		was plotted from field notes of actual surveys made by
}	<i>i.</i>				me or under my supervision, and that the same is true
	<u> </u>				and correct to the best of my belief.
			}		10/22/2009
					Date of Survey
					Signature and Seal of Professional Surveyor:
			·		
	,		· ·		21859
					Certificate Number