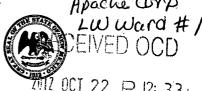
ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKL

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

4 11 -	_4!		NG AT THE DIVISION LEVEL IN SANTA FE	
Applic	[DHC-Dow [PC-Po	ndard Location] [NSP-Non-Star nhole Commingling] [CTB-Le ol Commingling] [OLS - Off-L [WFX-Waterflood Expansion] [SWD-Salt Water Disposal	ndard Proration Unit] [SD-Simultaneous De ase Commingling] [PLC-Pool/Lease Com ease Storage] [OLM-Off-Lease Measure [PMX-Pressure Maintenance Expansion]] [IPI-Injection Pressure Increase]	mingling] nent]
	[EOR-Qua	lified Enhanced Oil Recovery C	ertification] [PPR-Positive Production Re	esponse]
[1]	TYPE OF AF [A]	PPLICATION - Check Those W Location - Spacing Unit - Sim NSL NSP S		
	Check [B]	One Only for [B] or [C] Commingling - Storage - Meas DHC		
	[C]	<u> </u>	Increase - Enhanced Oil Recovery SWD	
	[D]	Other: Specify		
[2]	NOTIFICAT [A]		Those Which Apply, or Does Not Apply rriding Royalty Interest Owners	
	[B]	Offset Operators, Leaseho	olders or Surface Owner	
	[C]	Application is One Which	n Requires Published Legal Notice	
·	[D]		nrrent Approval by BLM or SLO mmissioner of Public Lands, State Land Office	
	[E]	For all of the above, Proo	f of Notification or Publication is Attached, a	and/or,
	[F]	☐ Waivers are Attached		
[3]		CURATE AND COMPLETE I	INFORMATION REQUIRED TO PROC	ESS THE TYPE
	al is <mark>accurate</mark> a	nd complete to the best of my kr	information submitted with this application for a consumer submitted to the Division.	
	Note	Statement must be completed by an	individual with managerial and/or supervisory capa	city.
	HOLLAND	Klesa H	SR STAFF REG TECH	10/18/2012
rimi O	r Type Name	Signature	Title Reesa, Holland@apachecorp.	Date com
	APAC	HE - LW WARD #1	e-mail Address	

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, Azzec, NM 87410

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

APPLICATION TYPE X Single Well Establish Pre-Approved Pools

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	APPLICATION FOR DO	WNHOLE COMMINGLING	EXISTING WELLBORE X Yes No		
	,	PHC-	7 6		
Apache Corporation Operator		3 Veterans Airpark Lane Suite 300 dress	0 Midland TX 79705		
L W Ward	001 O	11 13S 38E	Lea		
Lease	Well No. Unit Letter-	Section-Township-Range	County		
OGRID No. 873 Property Co	de 26474 API No. 30-025	5-07230 Lease Type:	FederalStateX Fee		
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE		
Pool Name	Bronco; Wolfcamp		Bronco; Siluro Devonian		
Pool Code	7600		7410		
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	9428'-9435' (Perfs)		11,601'-09' ; 11,673'-80' Perfs		
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)					
Oil Gravity or Gas BTU (Degree API or Gas BTU)	41.6		41.51/2 &		
Producing, Shut-In or New Zone	Producing		SI		
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production	Date: 9/20-26/2012	Date:	Date: 1/2/2012 & 2/15/2012		
estimates and supporting data.)	Rates: See Attached Tests	Rates:	Rates: See Attached Tests		
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.)	55 % 30 %	% %	45 % 70 %		
	ADDITION	NAL 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	ngled zones compatible with each c	other?	YesX No		
Will commingling decrease the value of	f 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 comming Production curve for each zone for For zones with no production histor Data to support allocation method of Notification list of working, royalty Any additional statements, data or of the committee of the committe	at least one year. (If not available, and story, estimated production rates and story formula.	attach explanation.) upporting data. r uncommon interest cases.			
	PRE-APPRO	OVED POOLS			
If application is	to establish Pre-Approved Pools, th	ne following additional information wi	Il be required:		
List of other orders approving downhol- List of all operators within the proposed Proof that all operators within the propo Bottomhole pressure data.	d Pre-Approved Pools	•			
I hereby certify that the information	(V) 0				
SIGNATURE FLOAG D	TITLE Sr.	Staff Regulatory Tech	DATE 10/18/2012		

I hereby certify that the information above is true and	complete to the best of my knowledge and be	elief.
I hereby certify that the information above is true and of SIGNATURE	TITLE Sr. Staff Regulatory Tech	DATE 10/18/2012
TYPE OR PRINT NAME Reesa Holland	TELEPHONE NO. (
E-MAIL ADDRESS Reesa.Holland@apachecorp.cc	m	

District L 1625 N. French Dr., Hobbs, NM 88240 District H 1301 W. Grand Avenue, Artesla, NM 88210

District III 1000 Rlo Brnzos Rd., Aztec, NM 87410 State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fcc Lcase - 3 Copies

District IV									
1220 S. St. Francis	Dr., Santa F	e, NM 87505						□ АМІ	ENDED REPORT
		N	ELL LO	OCATIO	N AND ACI	REAGE DEDIC	CATION PLA	T	
30-025-0723	API Number	•	07410	1001 Cod		ico; S iluro Devoni	an Wolf	ramo	
' Property (26474	Code	L W Ward			* Property		*.Well Number		
'ogrid 873		Apache Co	orporation	n: 303 Vete	05 3809' 0	*Elevation 3809' GL			
					10 Surface	Location			
UL or lot no. O	Section 11	Township 13S	Ronge 38E	Lot Idn		Feet from the	Enst/West line East	County Lea	
			11 B	ottom Ho	le Location l	f Different From	m Surface		
UL or lot no.	Section	Township	Range		T .	1		East/West line	County
" Dedicated Acres	" Joint or	r Infill "C	onsolidation	Code "Or	der No.	1			
						", "			

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 upproximation contained herein is true and complete to the best of my knowledge and heilef, and that this organization either wars a working interest to independ numeral interest in the knot including the proposed bottom hole locution or has a 19th to drill this well at this location prostrait to a combined with an owner of such a numeral in wire lang interest, or in a voluntary pooling ugo cement or a compulsary pooling order bereginfore entered by the elpsy un.
	,		Signature Date Reesa Holland Printed Nume
			18SURVEYOR 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 to ue and correct to the best of my belief.
	\$	140,	Date of Survey Signature and Scal of Professional Surveyor. 4911 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

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

1220 S. St. Francis	Dr., Santa F	e, NM 87505				•		L	∐ AME	NDED R	EPORT
		V	ELL LO	OCATIO:	N AND ACR	EAGE DEDIC	CATION PLA	.T _			
	API Number		·	¹ Pool Code			³ Pool Na				
30-025-0723	0		07410		Bron	co; Siluro Devonia	an '				
Property (26474	L W Ward		⁵ Property Name						'Well Number		
'OGRID 1 873	Apache C	orporation	Operator Name Operator Name Operation: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705						'Elevation 3809' GL		
					¹⁰ Surface	Location					
UL or lot no.	Section	Township	Range	Lot Idn			Feet from the	Eas	t/West line		County
0	11	13S	38E		660	South	1491	East		Lea	
			11 Bo	ottom Ho	le Location I	f Different Fron	n Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	t/West line	:	County
¹² Dedicated Acres	" Joint o	r Infill "C	onsolidation	Code 55 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.

1.6	1			I
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
		2		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
		·	-	hefetyfore entered by theditisiop
				Kong delland 05/10/2012
				Signature Date
				Reesa Holland
			•	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.
		: ·		and correct to the best of my bettef.
				Date of Survey
		•		Signature and Scal of Professional Surveyor:
			5	
				`
	· · · · · · ·		1491	
. /		Ţ		
		8	i '	
		39 1		Certificate Number
	<u> </u>			<u> </u>



October 18, 2012

Mr. Will 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 L W Ward #1 API 30-025-07230
Unit O, Section 11, T13S, R38E
Bronco; Wolfcamp (7600) & Bronco; Siluro Devonian (7410)
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) 818-1062.

Sincerely,

Reesa Holland

Sr. Staff Reg Technician

Page 1 of 1 10/3/2012 8:03:22 am

Select By: Field

Display: All well tests between 01/01/2012 - 10/01/2012

Test Effective M		Measured	Type	24 Hour Volumes				Ratios					Fluid	
Date	Date	Hours	-31-	Gr Liquid	OIL	GAS	WAT	LIFT	GOR	GLR	IGOR	IGLR	TGLR	Level
Field: BRONC WARD, L W		-DEVONIA	AN)						44					
1/2/2012 2/15/2012	1/2/2012 2/15/2012			A 258 A 250	3 5	8 10	255 245	0	2,667 2,000	31 40	0	0	31 40	78
9/20/2012 9/21/2012	9/20/2012 9/21/2012	24 24		A 122 A 43	13 1	3	109 42	0	231 3,000	25 70	0	0	25 70	200
	9/25/2012	24		A 31 A 266	6	8 3	29 260	0	4,000 500	258 11	0	0	258 11	90 54 70
Averages by C	9/26/2012 ompletion	24		A 25	5	5	137	0	750	120	0	0	120	/(
				^	11	_								
			Avg	DEVOUIAN	45%	70%	250		2250					
					4210	1013	1310							
			QUC.	WOLFCAMP	5	4	93		800					
		-	700	- Coci and	55%	30%	27%	*			_			
					9	13	343		1444					
							4							

^{**} All values are recorded using imperial units.