	3112/2013 SUSPEN	se engineer PRG 0.3	112/2013 TYPE DHC	PRG 1307152373
		ABOVE THIS LINE	FOR DMISION USE ONLY	·····
		NEW MEXICO AIL CONSED	VATION DIVISION	20-025-36689
		- Engineering Bu	ureau -	
		1220 South St. Francis Drive, S	anta Fe, NM 87505	While Out ~]
		<u></u>	· · · · · · · · · · · · · · · · · · ·	Apache Corp.
		administrative ap	plication chec	KLIST
-	THIS CHECKLIST IS M	ANDATORY FOR ALL ADMINISTRATIVE APPL WHICH REQUIRE PROCESSING	ICATIONS FOR EXCEPTIONS TO DI AT THE DIVISION LEVEL IN SANTA F	VISION RULES AND REGULATIONS
Appii	cation Acronym [NSL-Non-Sta [DHC-Dow [PC-Po [EOR-Qua	BI Indard Location] [NSP-Non-Standar Inhole Commingling] [CTB-Lease Iol Commingling] [OLS - Off-Leas [WFX-Waterflood Expansion] [Pi [SWD-Salt Water Disposal] Ilfled Enhanced Oil Recovery Certi	rd Proration Unit] [SD-Simu Commingling] [PLC-Pool/ e Storage] [OLM-Off-Leas MX-Pressure Maintenance E [IPI-Injection Pressure Incre flcation] [PPR-Positive Pr	taneous Dedication] Lease Commingling] e Measurement] xpansion] pase] oduction Response]
[1]	TYPE OF AP	PLICATION - Check Those Which	h Apply for [A]	
	[A]	Location - Spacing Unit - Simulta	neous Dedication	
	Check	One Only for [B] or [C]		
	[B]	Commingling - Storage - Measure	ment PC OLS	OLM
	[C]	Injection - Disposal - Pressure Inc	rease - Enhanced Oil Recove D IPI EOR	ry PPR
	[D]	Other: Specify		
[2]	NOTIFICAT	ION REQUIRED TO: - Check The	ose Which Apply, or Does	Not Apply
	[A]	Working, Royalty or Overrid	ing Royalty Interest Owners	· 4. 4
	[B]	Offset Operators, Leaseholde	rs or Surface Owner	
	[C]	Application is One Which Re	equires Published Legal Notic	e.
	[D]	Notification and/or Concurrer U.S. Bureau of Land Management - Commiss	nt Approval by BLM or SLO sloner of Public Lands, State Land Office	
	[E]	For all of the above, Proof of	Notification or Publication is	s Attached, and/or,
	[F]	Waivers are Attached		
[3]	SUBMIT AC OF APPLICA	CURATE AND COMPLETE INF ATION INDICATED ABOVE.	ORMATION REQUIRED	TO PROCESS THE TYPE
[4] appro appli	CERTIFICA oval is accurate a cation until the re	TION: I hereby certify that the info nd complete to the best of my know quired information and notifications	rmation submitted with this a ledge. I also understand that are submitted to the Division	pplication for administrative no action will be taken on this
	Note	Statement must be completed by an Indiv	vidual with managerial and/or sup	ervisory capacity.
prec		Room HOD		ĈĤ 3/7/20Ì4.
Print	or Type Name	Signature	Title	Date

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WHITE OWL #1

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Reesa.Holland@apachecorp.com e-mail Address Ċ,

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District I

<u>District II</u>

1301 W. Grand Avenue, sia, NM 88210

MA 88740

District III

Aztec, NM 87410

District IV

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

State of New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

APPLICATION TYPE X Single Well Establish Pre-Approved Pools EXISTING WELLBORE \underline{X} Yes _ __No

APPLICATION FOR DOWNHOLE COMMINGLING

Apache Corporation		ans Airparl	k Lane Suite 3	000 Midland T	X 79705		
Operator			Address				
White Owl	, 1	D	2	205	38E		Lea
Lease	Well No.	Unit Lett	er-Section-7	ownship-Rar	nge	·····	County
OGRID No. 873	Property Code 303233	API No. 30-0	25-36689)	Lease Type:	Federal	State X Fe

· · _ · _ · _ · _ · _ · _ ·	Provide the Provide State Sta	1. A second sec second second sec	A REAL PROPERTY AND A REAL
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	House; Blinebry	House; Tubb	House; Drinkard
Pool Code	33230	78760	33250
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	5982'-6139'	6802'-6890'	6986'-7106'
Method of Production (Flowing or Artificial Lift)	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)	40.1	40.1	40.1
Producing, Shut-In or New Zone	Producing	Producing	Producing
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: Rates: SEE ATTACHED	Date: Rates: SEE ATTACHED	Date: Rates: SEE ATTACHED
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas 15 % 21 %	Oil Gas 10 % 23 %	Oil Gas 50 % 45 %

ADDITIONAL 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?	Yes_ Yes_	×	No No	
Are all produced fluids from all commingled zones compatible with each other?	Yes_	<u>×</u>	No	
Will commingling decrease the value of production?	Yes_		No_	×
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:				

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.

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 the proposed Pre-Approved Pools

List of all operators within the proposed Pre-Approved Pools

Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottomhole pressure data.

I hereby certify that the	information above is tr	ue and complete to	the best of my	knowledge and belief.
· · · · ·	11 00	A .	5	0

5 5	\cap 1100 0	1
SIGNATURE	Keesa Dolland	TITLE Sr. Staff Reg
	· T	·····
TIME OF PRO	maxia m Beene Hellend	

ulatory Tech DATE 3/6/2013

TYPE OR PRINT NAME Reesa Holland

TELEPHONE NO. (432

E-MAIL ADDRESS Reesa.Holland@apachecorp.com

) 818-1062

District I 1625 N. French Drive, Hobbe, NM 88240

District II 1301 W. Grand Avenue, Artesia, NM 88210

District III

tec, NM 87410

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

State of New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

Form C-107A Revised June 10, 2003

APPLICATION TYPE X Single Well Establish Pre-Approved Pools EXISTING WELLBORE X Yes _ No

APPLICATION FOR DOWNHOLE COMMINGLING

Apache Corporation	03 Vetera	ans Airpark	Lane Suite 3	000 Midland T	X 79705			
Operator	· · · · · · · · · · · · · · · · · · ·	A	ddress					
White Owl	. 1	D	2	20S	38E		Lea	
Lease	Well No.	Unit Lette	r-Section-T	ownship-Ran	ge		County	-
OGRID No. 873	Property Code 303233	API No. 30-02	25-36689	I	Lease Type:	Federal	StateF	ee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	House; Abo	· · · · · · · · · · · · · · · · · · ·	an a
Pool Code	33210		
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	7425'-7638'	· · · · · · · · · · · · · · · · · · ·	
Method of Production (Flowing or 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)	40.1		
Producing, Shut-In or New Zone	New 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: Rates: SEE ATTACHED	Date: Rates:	Date: Rates:
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.)	25 % 11 %	% %	% %

ADDITIONAL 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?	Yes 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		No_>	×
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:				

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.

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 the proposed Pre-Approved Pools

List of all operators within the proposed Pre-Approved Pools

Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottomhole pressure data.

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i nereov	/ cernir	v inai ii	ie mioi	mation	above is	s inue and	complete	to the r	besi or my	/ knowledge	and bener.
		7									

SIGNATURE Resa Helland		ATE 3/6/2013
TYPE OR PRINT NAME Reesa Holland	TELEPHONE NO. (432) 818-1062
E-MAIL ADDRESS Reesa.Holland@apachecorp.cor	n	







IAUL @ 3 2012

30-025-36689 DHC - HOB - 496 DOWNHOLE COMMINGLE CALCULATIONS: Droporation nan OPERATOR: 4 PROPERTY NAME: White 1 WNULSTR: 1-D-2-205-38E ALLOWABLE AMOUNT SECTION I: POOL NO. 1 HOUSE Slinebru 294 MCF 142 POOL NO. 2 HOUSE 1 Jbh Drinkard 294 MCF POOLNO.3 House 142 POOL NO. 4 MCF POOL TOTALS 426 Dil SECTION II: POOL NO. 1 HOUSE 21% Blinebry 18%0 26% POOLNO.2 HOUSE 12% 7090X 53% ZAB.2 POOLNO.3 House! ard X2987 POOL NO. 4 OIL GAS SECTION III: 202.95 ×2037 090 . SECTION IV: 3% × 203 = 202 4.36 7 42190. 70% v 203 7

W INCC	State of New Mexico	Form C-103
District I	Energy, Minerals and Natural Resources	June 19, 2008
1625 N. French Dr., Hobbs, NM 882495 O		30-025-36689
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NMAN100 2	2012 1220 South St. Francis Dr.	STATE FEE X
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa FC, IVIVI 07505	6. State Oil & Gas Lease No.
SUNDRY MOMEN	S AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR USE "APPLICA"	LS TO DRILL OR TO DEEPEN OR PLUG BACK TO A TION FOR PERMIT" (FORM C-101) FOR SUCH	White Owl
PROPOSALS)		8. Well Number 001
1. Type of Well: KIUI Well	as well 🔲 Other:	9 OGRID Number
Apache Corporation		873
3. Address of Operator	Niderd TV 70705	10. Pool name or Wildcat
A Well Leasting	Midiand, IX 79705	House;Billebry/House,Tubb/House;Drinkard
4. Well Location	2 foot from the North line and 2'	30 feet from the Wost line
Section 2	ZIeet from the <u>North</u> fine and <u>5</u> . Toymshin 20S Range 38E	NMPM County Lea
	11. Elevation (Show whether DR. RKB, RT, GR, et	
	3573' GL	
12. Check Ap	propriate Box to Indicate Nature of Notice	e, Report or Other Data
NOTICE OF INT	ENTION TO: SU	BSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	ORK ALTERING CASING
	CHANGE PLANS	RILLING OPNS. P AND A
	MULTIPLE COMPL	NT JOB
OTHER:	OTHER:	D
13. Describe proposed or complete	ed operations. (Clearly state all pertinent details, a	and give pertinent dates, including estimated dat
of starting any proposed work). SEE RULE 1103. For Multiple Completions: A	Attach wellbore diagram of proposed completion
or reconnelation	, , ,	6 11 1
or recompletion.		
or recompletion. Apache would like to DHC the follow	wing pools: Per R-11363	
or recompletion. Apache would like to DHC the follow Pool Names:	ving pools: Per R-11363 Perforations:	
or recompletion. Apache would like to DHC the follow Pool Names: House: Blinebry 3323	wing pools: Per R-11363 Perforations: 0 Blinebry 5982'-6139'	
or recompletion. Apache would like to DHC the follow Pool Names: House; Blinebry 3323 House; Tubb 7876 House; Drinkard 3325	ving pools: Per R-11363 Perforations: 0 Blinebry 5982'-6139' 0 Tubb 6802'-6890' 50 Drinkard 6986'-7106'	
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or recompletion. Apache would like to DHC the follow Pool Names: House; Blinebry 3323 House; Tubb 7876 House; Drinkard 3325 The allocation method will be as foll OIL G Blinebry 18% 2 Tubb 12% 2 Drinkard 70% 55 Downhole commingling will not redu Spud Date: 09/01/2004 I hereby certify that the information about SIGNATURE Roose Hollowed	wing pools: Per R-11363 Perforations: 0 Blinebry 5982'-6139' 0 Tubb 6802'-6890' 0 Drinkard 6986'-7106' lows based on offset production. (See attached app AS WATER 1% 36% 6% 18% 3% 46% use the value of these pools. Ownership is the sam Rig Release Date: 07/12/2004 DHC-HOB-4 ove is true and complete to the best of my knowled USA TITLE Sr. Staff Engr Tech E-meil address: Power Hollow	plication for exception to Rule 303-C.) ne for each of these pools. 96 197 197 197 197 197 197 197 197
or recompletion. Apache would like to DHC the follow Pool Names: House; Blinebry 3323 House; Tubb 7876 House; Drinkard 3325 The allocation method will be as foll OIL G Blinebry 18% 2 Tubb 12% 2 Drinkard 70% 55 Downhole commingling will not redu Spud Date: 09/01/2004 I hereby certify that the information about SIGNATURE Reesa Holland For State Use Only	wing pools: Per R-11363 Perforations: 0 Blinebry 5982'-6139' 0 Tubb 6802'-6890' 10 Drinkard 6986'-7106' lows based on offset production. (See attached app AS WATER 1% 36% 6% 18% 3% 46% uce the value of these pools. Ownership is the sam Rig Release Date: 07/12/2004 DHC-HOB-4 ove is true and complete to the best of my knowled Market DHC-HOB-4 ove is true and complete to the best of my knowled Market DHC-HOB-4 DHC-HOB-4	plication for exception to Rule 303-C.) ne for each of these pools. 96 97 97 197 197 197 197 197 197 197 197 1
or recompletion. Apache would like to DHC the follow Pool Names: House; Blinebry 3323 House; Tubb 7876 House; Drinkard 3325 The allocation method will be as foll OIL G Blinebry 18% 2 Tubb 12% 2 Drinkard 70% 55 Downhole commingling will not redu Spud Date: 09/01/2004 I hereby certify that the information about SIGNATURE Rease Holland For State Use Only	wing pools: Perforations: 0 Blinebry 5982'-6139' 0 Tubb 6802'-6890' 0 Drinkard 6986'-7106' lows based on offset production. (See attached apper AS WATER 1% 36% 6% 18% 3% 46% uce the value of these pools. Ownership is the sam Rig Release Date: 07/12/2004 DHC-HOB-4 ove is true and complete to the best of my knowled Uast TITLE Sr. Staff Engr Tech E-mail address: Reesa.Holland@a	plication for exception to Rule 303-C.) ne for each of these pools. 96 196 196 196 197 197 197 197 197 197 197 197
or recompletion. Apache would like to DHC the follow Pool Names: House; Blinebry 3323 House; Tubb 7876 House; Drinkard 3325 The allocation method will be as foll OIL G Blinebry 18% 2 Tubb 12% 2 Drinkard 70% 55 Downhole commingling will not redu Spud Date: 09/01/2004 I hereby certify that the information about SIGNATURE ROAD SIGNATURE Road Type or print name Reesa Holland For State Use Only APPROVED BY:	wing pools: Per R-11363 Perforations: 0 Blinebry 5982'-6139' 0 Tubb 6802'-6890' 0 Drinkard 6986'-7106' lows based on offset production. (See attached app AS WATER 1% 36% 6% 18% 3% 46% uce the value of these pools. Ownership is the sam Rig Release Date: 07/12/2004 DHC-HOB-4 ove is true and complete to the best of my knowled DHC-HOB-4 ove is true and complete to the best of my knowled Carlow TITLE Sr. Staff Engr Tech E-mail address: Reesa.Holland@a	plication for exception to Rule 303-C.) ne for each of these pools. 96 Age and belief. DATE 06/29/2012 pachecorp.com PHONE: 432/818-1062 DATE JUL 0 3 201
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June 29, 2012

Mr. Paul Kautz New Mexico Oil Conservation Division 1625 N French Drive Hobbs, New Mexico 88240

RE: Application for Exception to Rule 303-C – Downhole Commingling White Owl #1 Unit D, Section 2, T20S, R38E House; Blinebry, House; Tubb & House; Drinkard Lea County, New Mexico

Dear Mr. Kautz,

Enclosed please find form C-103 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 three 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,

2200

Reesa Holland Sr Staff Engr Technician

				Cum Od'(BBL)		Cum Gas (MCF)			Water (88L) 7.61	
Lease Name	Well Number	10DIGITAPI	Location ****	Bhnebry	Tubb :	Dnnkard	Blinebry -	Tubb	Dankard *	Blinebiry	Tubb	Drinkard -
L D JONES	1	3002507722	1H 20S 38E SE NE	3476			186180			5043		
PHILLIPS HOUSE STATE	1	3002507725	20 20S 38E			101875			481125			25440
STATEU	1	3002507727	2P 20S 38E	l		157611			97687			184324
ARNOLD A	1	3002507761	11F 20S 38E	1083	29526	670	3502	1366318		7287	5113	
HOUSE B	1	3002507764	11P 20S 38E		9855			118752				
BLANKENSHIP	1	3002507766	12E 20S 38E		· · ·	54657			16638	·	· · · · ·	7010
BLANKENSHIP	2	3002507767	12L 20S 38E	3906	20	134312	9570	42	1177187	2664	114	37126
BLANKENSHIP	3	3002507768	12M 20S 38E NE SW SW	5854	6772	39616	33275	47735	2435461	5515	15611	22235
CONE A	1	3002507770	12F 20S 38E		17024	206476		66408	237771		56554	84069
CONE B	1	3002507771	12J 20S 38E			239833			591551			69199
HESTER 12	3	3002507772	12O 20S 38E			150171			853402			32702
RESTER 12	2	3002507773	12N 20S 38E			82932		1	540453			17896
HESTER 12	1	3002512549	12K 20S 38E			97448			457760			16669
HOWSE C	1	3002522165	11H 20S 38E SE NE			· 26370			143078			6340
CONE B	2	3002525921	12G 20S 38E			398			86772			1460
WERTA FEDERAL	1	3002527696	350 19S 38E SW SE	42930	14640	11778	211449	10262	24012	51813	10929	29470
L&M	1	3002528287	2L 20S 38E C S2 SW	1012	9634	250	9593	130756	1129	1344	579	392
FRANCES EVELYN	1	3002532163	35N 19S 38E SE SW	5470			61072			35070		
PICAYUNE	1	3002534734	11J 20S 38E C NW SE		14361	26692	1421	69324	382613			17895
DREESSEN	1	3002534857	1G 20S 38E C SW NE	2199			7175			23039		
HOWSER	1	3002534970	1J 20S 38E C NW SE	1371			28097			35934		
MERIT	1	3002535240	110 20S 38E E2 SW SE		9513			597060			7380	
REDTAG	1	3002535333	2J 20S 38E NW NW SE	27129	4037	1133	73901	9920	9535	4764	2495	3351
MERITII	1	3002535448	11G 20S 38E C SW NE	3456	16980	21816	15627	28441	151799		11887	19464
DUKES	1	3002535614	11K 20S 38E E2 NE SW		7818	32784		38544	139480		8390	26341
REDTAG	2	3002535630	2K 20S 38E NE NE SW	15566			870166			2596		
DIXIE QUEEN	1	3002536421	11P 20S 38E S2 SE SE		7394			517209	· · · ·			
WHITE OWL	1	3002536689	2 20S 38E NW NW NW	32868			122087			9450		
HESTER 12	6	3002536795	12N 20S 38E	26810	8095	12000	321996	182364	63501	28536	6751	5480
HESTER 12	4	3002536800	120 20S 38E SW SW SE	15686	5185	4610	261423	122085	110725	42191		2688
PLOW BOY FEDERAL	1	3002536962	35J 19S 38E NW NW SE	21983			71622					
ROUND-UP	1	3002537100	35H 19S 38E SW SE NE			7181			13557	_		
SALEM	1	3002537316	3A 20S 38E SE NE NE	2954		8592	:8535		25309	7032		3185
HESTER 12	8	3002538076	12K 20S 38E SW NE SW	12938	3926	3762	124569	88335	56020	9995	11277	4360
HESTER 12	5	3002538211	12P 20S 38E NW SE SE	18890	5669	11153	177646	79110	77564	38857	. 6211	481
HESTER 12	7	3002538369	12N 20S 38E NE SE SW	6328	7241	3148	57135	53793	32197	16097	8422	10379
MELOT	1	3002538370	11C 20S 38E SW NE NW	4895	6293	2792	45105	35080	20051	23409	22744	20737
BLANKENSHIP	4	3002538397	12L 20S 38E NE NW SW	2908	3129	6389	13057	21937	22245	12146	5023	3768
BLANKENSHIP	5	3002538399	12M 20S 38E SW SW SW	12393	4622	5767	42451	84653	254996	20446	4543	3409
BLANKENSHIP	6	3002538400	12L 20S 38E SW NW SW	6755	5428	1218	30669	1764	63545	8849	648	12080
RHINO	2	3002538484	11N 20S 38E SE NE SW	9305	2576	5152	26295	17884		•		
MAGNOLIA	1	3002538660	11E 20S 38E NE SW NW	5510	5349	3981	60835	15727	16867	16978	2618	33554
DIXIE QUEEN	2	3002538661	11P 20S 38E NE SE SE	11334	3090	5222	58416	26604	52023	<u> </u>		
HESTER 12	10	3002538662	120 20S 38E NE SW SE	4254	446	3510	33452	9793	26121	26377	3753	9758
HESTER 12	111	3002538663	12P 20S 38E SW SE SE	1523	1408	2701	80703	80800	7794	6526	8770	5099
MELOT	2	3002538700	11C 20S 38E NW NE NW	15029	4986	1960	42159	7569	22066	14693	19337	14502
HESTER 12	9	3002538791	12K 20S 38E NE NE SW	1908	1199	4536	46737	5588	5276	20019	5058	11525
MAGNOLIA	2	3002539090	11D 20S 38E NE NW NW	1741	555	4669	62616	34150	92974	15912	3409	3409
LAM	2	3002539450	2N 20S 38E	1185	849	6430	18698	23618	56095	9793	4895	17954
DIXIE QUEEN	3	3002539451	111 20S 38F	1679	433	3303	6104	2595	6562	,		
MELOT	3	3002539458	11B 20S 38F	1494	386	2941	6254	2658	6724	13100	2406	11228
BLANKENSHIP	7	3002539488	12E 20S 38E	169	46	368	2254	957	2422	11812	2461	10335
MAGNOLIA	1	3002539489	11E 205 38E	1348	346	2653	22270	9465	23939	11919	2188	10217
ARNOLDA	2	3002539490	11E 205 38E	980	247	1842	11166	4745	12004	7193	1468	6018
CONFA	2	3002539491	125 205 385	936	258	2029	3332	1499	3499	4347	897	3634
ARNOLDA	1	3002539636	11E 205 38E NE SE NW	1644	411	3082	7445	3165	8005	9864	2015	8253
DIXIE QUEEN	4	3002539650	111 20S 38F	860	223	1693	4104	1743	4410		<u> </u>	
LAM	1	3002539652	2N 205 38F	457	326	2495	2705	3416		2325	1125	4050
MERIT	5	3002530652	110 205 385	610	106	1972	6572	3390	8924	P97	260	9000
REDIAG	1	3002539655	21205 385	314	370	2165	1350	3011	6024	2625	1811	4617
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			AVEDAGER	7 763	6 306	30 311	73 673	03 630	498 498	14 006	7 760	10 705

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Proposed Allocations	Od	Gas	Water
Binebry	18%	21%	36%
Tubb	12%	26%	18%
Drinkard	70%	53%	46%
TOTAL	100%	100%	100%

White Owl #1 API # 30-025-36689 Sec 2, T20S, R38E Elevation: 3590' KB, 3573' GL TD: 7,741' PBTD: 5,557' Casing Record: 13-3/8" 48# @ 127' w/ 200 sxs 8-5/8" 24# J-55 @ 1636' w/ 725 sxs 5-1/2" 17# N-80 @ 7,741' w/ 1710 sxs

Perfs: Blinebry: 5,982-6,139 (Open) Tubb: 6,802-6,890 (Behind CIBP @6,231') Drinkard: 6,986-7,106 (Behind CBP @ 6,920')

Objective: Drill out plugs and commingle zones

AFE: PA-12-4015

- 1. MIRU unit. Kill well as necessary. Unseat pump. POOH W/ rods and pump.
- 2. ND WH. NU BOP. Release TAC. POOH w/ tubing and TAC.
- 3. RIH w/ retrieving head and 5-1/2" casing scraper and tag fill @ 6,231'. Wash to RBP at 6400' and retrieve RBP. POOH.
- 4. RIH w/ 4-3/4" bit and 5-1/2" scrapper and tag CBP @ 6,920'. Drill out CBP. Continue in hole to PBTD at 7,557'. Circulate bottoms up twice. POOH.
- 5. RIH W/ 2-7/8" production tubing to bottom perfs. Spot 1000 gal 15% NEFE HCL across all perfs from 5982'-7106'. Dump 500 gallons 200 gallons 15% NEFE down backside.
- 6. RU swab equipment and recover load and swab test perfs for fluid entry and oil cut. Report results to Midland. RD swab equipment.
- 7. RIH w/ production tbg and rods as per the Monument office specification.
- 8. RDMOPU. Return well to production in Blinebry, Tubb, and Drinkard. Place into test for 10 days.

4 - 5



Apache Corp.
68995-520-05
1# IWO ejiri W

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%8L	53%	10%	dduT
%9E ·	518	%91	Blinebry
Water	SBD	10	Proposed Allocations

White Owl #1 API # 30-025-36689 Sec 2, T20S, R38E Elevation: 3590' KB, 3573' GL TD: 7,741' PBTD: 7,557' Casing Record: 13-3/8" 48# @ 127' w/ 200 sxs 8-5/8" 24# J-55 @ 1636' w/ 725 sxs 5-1/2" 17# N-80 @ 7,741' w/ 1710 sxs

Perfs: Blinebry: 5,982-6,139 Tubb: 6,802-6,890 Drinkard: 6,986-7,106

Objective: Perforate the Abo and commingle the B-T-D-A

AFE: PA-13-3408

- 1. MIRU unit. Kill well as necessary. Unseat pump. POOH W/ rods and pump.
- 2. ND WH. NU BOP. Release TAC. POOH w/ tubing and TAC.
- 3. PU & RIH w/ SN and PKR to 7,150'. Set PKR. Pressure casing to 500 psi and ensure that the Abo is not perforated previously by Capataz. POOH. *If able to pump into, POOH and run CCL to identify perforations. Report results to Midland and wait on evaluation.*
- PU & RIH w/ 2-7/8" tubing to be used as WS, and 4-3/4" bit, bit sub and collars and 5-1/2" scrapper to PBTD. (Tight spot or plug at 7,557"). May need to break circulation and drill out obstruction at 7,557". POOH.
- MIRU WL. RIH w/ perforating gun and perforate the Abo from 7425-29; 7457-64; 7472-74; 7492-7501; 7523-28; 7533-47; 7560-68; 7590-7604; 7612-16; 7632-38 w/ 2 jspf 60° phasing Connex BH charges (146 holes). Correlate to Schlumberger Three Dectector Litho-Density Compensated Neutron/Gamma Ray log dated 7/13/2004. POOH w/ WL. RDMO WL.
- 6. RIH w/ SN+ PKR on 2-7/8" production tubing to bottom perfs @ 7,638'. Spot 1000 gal 15% NEFE HCL across all perfs from 7,425'-7,638'. TOH and set PRK above new perfs at 7,375'.
- 7. MIRU acid services. Acidize the Abo (7,425-7,638) with 5000 gallons 15% NEFE HCL w/ additives using 260 ball sealers to divert evenly spaced through the job at a max rate. Max treating pressure not to exceed 6000 psi at surface. Displace to bottom perf with 44 BBLs of flush. Surge balls.
- 8. Release PKR and TIH to knock balls off perforations. TOH and set PKR at 7,375'
- 9. RU swab equipment and recover load and swab test perfs for fluid entry and oil cut. Report results to Midland. RD swab equipment.
- 10. Kill well if necessary. Release PKR and TOH.
- 11. RIH w/ production tbg and rods as per the Monument office specification.
- 12. RDMOPU. Return well to production in B-T-D and Abo. Place into test for 10 days.

RECEIVED OCD

2013 MAR 1.1 P. 14.4

March 7, 2013

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 White Owl #1 Unit D, Section 2, T20S, R38E House; Blinebry (33230), House; Tubb (78760), House; Drinkard (33250) & House; Abo (33210) Lea County, New Mexico

Dear Mr. Jones:

Apache is requesting to amend DHC-496 to add the Abo formation. 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 three 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 Helland

Reesa Holland Sr Staff Regulatory Technician

7/21/2005

Wellbore Diagram

String Information

30-015-33362-00-00

Company Name: BASS ENTERPRISES PRODUCTION CO

Location: Sec: 8 T: 24S R: 30E Spot:

Lat: 32.2307951440196 Long: -103.910962272597

Property Name: POKER LAKE UNIT

County Name: Eddy

Cement Information

1

Perforation Information

Тор	Bottom	0444/54		D4 8
(ft sub)	(ft sub)	Shts/Ft	NO SITIS	Dt Sqz
0	0			

Formation Information

St Code	Formation	Depth
Prust	Rustler	856
Psal	Salado	1370
Pbslt	Base of Salt	3272
Pdel	Delaware	3486

Hole: Unknown

TVD: 0 PBTD:

TD:

POKER LAKE UNIT No. 192Q

28b. Production - Interval C														
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Production Method Gravity						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status						
28c. Produ	ction - Inter	vai D	<u> </u>			·	- I	····	· · · · · · · · · · · · · · · · · · ·					
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity Production Method						
Choke Size	Tbg. Press. Fiwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Weil Status	REC	EIVED				
29. Disposition of Gas (Sold, used for fuel, vented, etc.)														
SOI	.D							<u> </u>		WITEDIA				
30. Sumi	nary of Poro	us Zones (Include Aqu	uifers):				31. Format	ion (Log) Markers					
Show tests, and r	all importation inicuding de ecoveries.	nt zones or epth interv	al tested, cu	shion used,	time tool op	d intervals an en, flowing a	d all drill-stem nd shut-in pressures							
Form	ation	Тор	Bottom		Descri	ptions, Conte	nts, etc.		Name	Top Meas. Depth				
								T/RUSTL	ER ANHYDRITE	858'				
								T/SALT		1370'				
								B/SALT		3272'				
								T/LAMAR	LIME	3486'				
								T/BELL C	ANYON	3512' 🤇				
								T/LOWER	CHERRY CANYON	5616'_				
								T/BRUSH	Y CANYON	6337'				
		•						T/LOWER	BRUSHY CANYON	7031'				
								T/BONE S	PRING LIME	7291'				
								T/AVALO	N SAND	7380'				
32. Additional remarks (include plugging procedure): Edditional Top's for Poker Lake Unit # 192 - API # 30-015-33362														
33. Indica El Su	te which itm cctrical/Mec andry Notice	nes have be hanical Lo for pluggi	en attached ogs (I full se ng and ceme	by placing t req'd.) ent verificat	a check in the Generation Content of Content	he appropriate cological Report ore Analysis	e boxes: ort DST Rep	ort 🗌 D	irectional Survey					
34. I herel	by certify the	at the foreg	joing and at	tached info	mation is co	mplete and c	orrect as determined	from all availa	ble records (see attached instru	uctions)*				
Name	(please prin	() <u>Cindi</u>	Goodmar				Title Produc	tion Clerk						
Signat	ure	inde		Joe.	٩		Date06/2	8/2005	2/15/06					
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(Form 3160-4, page 2)