Submit 3 Copies To Appropriate District	State of New Mexico	Form C-103
District 1 TODD Con	Minerals and Natural Resources	June 19, 2008
1625 N. French Dr., Hobbs, NM 88240 District II	ONGEDVATION DIVISION	30-025-39637
District II 1301 W Grand Ave , Aliesia, NM 882 JUL 0 2 2012 District III	20 South St. Francis Dr.	5. Indicate Type of Lease
1000 R10 B1azos Rd , Aztec, NM 87410	Santa Fe, NM 87505	STATE FEE Image: Constraint of the second s
District IV 1220 S St. Francis Dr., Santa Fc, M RECEIVED 87505	1	o. State Off & Gas Lease No.
SUNDRY NOTICES AND RE		7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL DIFFERENT RESERVOIR USE "APPLICATION FOR PE PROPOSALS.)	OR TO DEEPEN OR PLUG BACK TO A RMIT" (I ORM C-101) FOR SUCH	DC Hardy
1. Type of Well: 🖾 Oil Well 📋 Gas Well	Other.	8. Well Number 011
2. Name of Operator		9. OGRID Number
Apache Corporation 3. Address of Operator		10. Pool name or Wildcat
303 Veterans Airpark Lane, Suite 3000 Midland, 1	X 79705	Tubb O&G (Oil) / Drinkard / Wantz, Abo
4. Well Location	······································	
1	t from the South line and 125	0 feet from the East line
	wnship 21S Range 37E	NMPM County Lea
11. Elevatio	n (Show whether DR, RKB, RT, GR, etc.,	
3489' GL		
12. Check Appropriate	Box to Indicate Nature of Notice,	Report or Other Data
	,	-
	1	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND		
PULL OR ALTER CASING MULTIPLE		
		_
OTHER AMEND DHC-HOB-360	OTHER:	
13. Describe proposed or completed operation	ns. (Clearly state all pertinent details, and	d give pertinent dates, including estimated date
of starting any proposed work). SEE RUI		tach wellbore diagram of proposed completion
r ci	R- 11363	
Apache would like to amend DHC-HOB-360 wit	h the completion of the Abo formation:	
	erforations:	
	Tubb 6128'-6304' Drinkard 6601'-6731'	
•••	Abo 6881'-6958'	
The ellipseiter method will be as follows beaud	an effect production (See attached popli	ration for execution to $Rule 202.C$
The allocation method will be as follows based OIL GAS WA		calibit for exception to Rule 505-C.)
	3%	
	7% 0%	
Downhole commingling will not reduce the valu		for each of these pools.
	٦	
Spud Date: 01/28/2010	Rig Release Date ⁻ 02/07/2010	
	DAC- AUB- 4	1-1
I hereby certify that the information above is true a	ind complete to the best of my knowledg	c and belief.
$\partial + 1 c h$		
SIGNATURE PLOSA HERRAN	TITLE Sr Staff Engr Tech	DATE 07/02/2012
Type or print name Reesa Holland	E-mail address: Reesa Holland@apa	checorp.com PHONE 432/818-1062
For State Use Only		
APPROVED BY:	TITLE PERROESUM	WEAKER DATE JUL 0 3 2012
Conditions of Approval (if any):		

A

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Nu	nper	Pool Code	Pool Name	
30-025-39637		60240	Tubb Oil & Gas (Oil)	
⁴ Property Code			Property Name	* Well Number
16814	DC Hardy			011
'OGRID №.			¹ Operator Name	[°] Elevation
873	Apache Cor	poration [,] 303 Veterans	Airpark Lane, Suite 3000 Midland, TX 79705	3489'
••••••••••••••••••••••••••••••••••••••		1(⁹ Surface Location	

	UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
	Р	20	218	37E		1310	South	1250	East	Lea
	¹¹ Bottom Hole Location If Different From Surface									
	UL or lot no.	Section	Township	Range	1				East/West line	County
	¹¹ Dedicated Acres	" Joint or	Infill "C	onsolidation	Code "Oi	dei No.				
İ	40				DH	IC-HOB-360				

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.	1	1)
16				¹⁷ OPERATOR CERTIFICATION
				Thereby 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 lond 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 a minoral or working interest
				or to a voluntary pooling agreement or a compulsory paoling order
				for the fore entered by the division
				1 DON - 1/10 07/02/2012
				Signature Date
				Reesa Holland
				Printed Name
				¹⁸ SURVEYOR CERTIFICATION
				Thereby 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
			1250	
			7	Date of Survey
				Signature and Seal of Professional Surveyor
			.t	and the second
		0		
			20	
				Certificate Number
	<u> </u>			
			The Contract Manual Contract And	*

District
1625 N. French Dr., Hobbs, NM 88240
District_11
1301 W. Grand Avenue, Attesia, NM 88210
District III
1000 Rio Brazos Rd , Aztec, NM 87410
Distric <u>t IV</u>
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Nur	nber	2 Pool Code	' Pool Name			
30-025-39637		19190	Drinkard			
*Property Code			* Property Name	* Well Number		
16814	DC Hardy			011		
'OGRID No.			⁶ Operator Name	' Elevation		
873	Apache Corporation. 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705 3489'					
·	i	10	⁹ Surface Location			

UL or lot no. P	Section 20	Township 21S	Range 37E	Lot Idu	Feet from the 1310	North/South line South	Feet from the 1250	East/West line East	County Lea
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Lownship	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres	Joint or	1668 ¹¹ C	onsolidation	Code ¹⁵ Or	dei 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.

DHC-HOB-360

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
				proposed bottom hole location or has a right to drill this well at this location
				put sugnition a contract with an owner of such a minoral to working interest,
				or to a voluntary pooling agreement or a compileory pooling order
·				be etofore entered by the division
				Kubac Holland 07/02/2012
				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
			1250' 12:00	P Date of Survey
			P Bar	Signature and Seal of Professional Surveyor
				Signature and Seal of Professional Surveyor
			1.	
			ſ. <i>1</i>	ſ
		1	2	
			12	
			i ser a	Certificate Number
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			4 <i>W</i>	

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District 1 1625 N. French Dr., Hobbs, NM 88240 District_U 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd , Artec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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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

WELL LOCATION AND	ACREAGE DEDICATION PLAT
² Pool Code	' Pool Name

	er Pool Code	Pool Name	
30-025-39637	62700	Wantz, Abo	
' Property Code	^a Property Name	⁴ Well Number	
16814	DC Hardy		011
'OGRID No.		[*] Operator Name	*Elevation
873	Apache Corporation. 303 Veter	3489'	

UL or lot no.	Section	Township	Range	Løt Idn	Feet from the	North/South line	Feet from the	East/West line	County
Р	20	21S	37E		1310	South	1250	East	Lea
¹¹ Bottom Hole Location If Different From Surface									
UL, or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹¹ Dedicated Acres	Joint o	Infill ¹⁴ C	Consolidation	Code "Or	dei 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.

DHC-HOB-360

16	[17
10				¹⁷ OPERATOR CERTIFICATION
				I hereby certify that the information contained herein is true and complete to
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				prinsuant to a contract with an owner of such a mineral ϕ -working interest
				or to a voluntary pooling agreement or a compulsory paoling order
				here entered by the division
				Koesa Haland 07/02/2012
				Signature Date
				Reesa Holland
				Printed Name
				¹⁸ SURVEYOR CERTIFICATION
				<i>I hereby certify that the well location shown on this plat</i>
				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
			1250'	
			0	Date of Survey
				Signature and Scal of Professional Surveyor
		j		Contract of the second s
		l d	<u>,</u> 9	
			1 E	
			1	
				Certificate Number
			The second s	

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July 2, 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 DC Hardy #11 API 30-025-39637 Unit P, Section 20, T21S, R37E Tubb Oil & Gas (Oil) 60240; Drinkard 19190 & Wantz; Abo 62700 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,

Reesa Holland

Reesa Holland Sr. Staff Engineering Technician