DHC

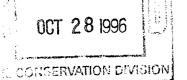
FAX (915) 686-0302

COLLINS & WARE, INC.

508 WEST WALL AVENUE, SUITE 1200 MIDLAND, TEXAS 79701-5076

(915) 687-3435

1403



October 22, 1996

Ben Stone State of New Mexico Oil Conservation Division Energy and Minerals Department Post Office Box 2088 Santa Fe, New Mexico 87504

> Re: Application for Downhole Commingling Form C-107-A A. B. Baker No. 5 Lea County, New Mexico

Dear Mr. Stone:

Enclosed, please find the Application For Downhole Commingling plus attachments. We would like to submit a production allocation for the two zones based on the following information.

Paul Koontz from the District I office in Hobbs indicated to us that the base of the Abo formation/top of the Granite Wash formation is inconsistent in this area. Based on the proximity of perforations in the Granite Wash and the low indicated porosity in this zone he said that we could allocate production from the two zones based on net feet of pay rather than spending time and funds to test each zone separately.

We shot a total of 171 perforations across the interval 6,565' - 7,323'. The bottom 9 shots were across the Granite Wash interval 7,250' - 7,323'. The cross-plot average porosity in the perforated Granite Wash is 5% versus 10% cross-plot average porosity in the perforated Abo interval. We therefore submit that the production allocation be based on the following formula.

Granite Wash Formula: 9' net pay Granite Wash / 171' total net pay x 100 = 5.26% or 5%

Abo Formula: 162' net pay ABO / 171' total net pay x 100 = 94.7% or 95%

If you require any additional information or have any questions regarding this application, please do not hesitate to call me.

Sincerely,

Chuck Sledge

Operations Engineer

DISTRICT I

DISTRICT III

Operator

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

811 South First St., Artesia, NM 88210

1000 Rio Brazos Rd, Aztec. NM 87410

Collins & Ware, Inc.

State of New Mexico Energy, Minerals and Natural Resources Department Form C-107-A New 3-12-96

__ YES __ NO

OIL CONSERVATION DIVISION

2040 S. Pacheco Santa Fe, New Mexico 87505-6429 APPROVAL PROCESS:

___Administrative ___Hearing

EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING

508 W. Wall, Suite 1200, Midland, Texas 79701

Baker, AB	5 P	10 22S 37E	Lea
Cease OGRID NOProperty Cod	eAPI_NO30	S	pacing Unit Lease Types: (check 1 or more), State, (and/or) Fee
The following facts are submitted in support of downhole commingling:	Upper Zune	Intermediate Zones	Lower Zone
Pool Name and Pool Code	Wantz AB0 62700		Wantz Granite Wash 62730
Top and Bottom of Pay Section (Perforations)	6565 - 7249		7250 - 7323
3. Type of production (Oil or Gas)	Gas		Gas
Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	a. (Current) N/A	a.	a. N/A
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. ^(Original) [1/A	b	b. N/A
6. Oil Gravity (° API) or Gas BTU Content	1202.7		1202.7
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	No		Yes
If Shut-In, give date and oil/gas/ water rates of last production Note: For new zones with no production history, applicant shall be required to attach	Date: N/A Rates:	Date: Rates:	Date: N/A Rates:
production estimates and supporting data * If Producing, give date andoil/gas/ water rates of recent test (within 60 days)	Date: 10/04/96 Rates: 2.85 BO, 3.8 BW 1007 mcf	Date: Rates:	Date: 10/04/96 Rates: 15 BO, 20 BW 53 mcf
Fixed Percentage Allocation Formula -% for each zone	Oii: 95 % Gas: 95 %	Oil: Gas: %	Oil: 5 % Gas: 5 %
 If allocation formula is based submit attachments with sup 10. Are all working, overriding, a If not, have all working, over Have all offset operators been 	oporting data and/or explaining	method and providing rate pr	ojections or other required data.
Have all offset operators been 11. Will cross-flow occur? flowed production be recover			
12. Are all produced fluids from a			
13. Will the value of production b			, , , , , , , , , , , , , , , , , , ,
 If this well is on, or community United States Bureau of Land 	tized with, state or federal land I Management has been notifie	ds, either the Commissioner o ed in writing of this application	f Public Lands or the
15. NMOCD Reference Cases for	Rule 303(C) Exceptions:	ORDER NO(S).	
* Production curve t	ne to be commingled showing or each zone for at least one y production history, estimated ocation method or formula. all offset operators. working, overriding, and royalt tements, data, or documents re	ear. (If not available, attach e production rates and supporting the common interests for uncommon interests.)	explaination.) ng data.
I hereby certify that the informati	on above is true and complete	to the best of my knowledge	and belief.
SIGNATURE Lan	ne Tumall	TITLE Production Supe	rvis@ATE 10/23/96
TYPE OR PRINT NAMEDian	ne Sumrall	TELEPHONE NO.	(915) 687-3435

State of New Mexico

Energy, Minerals & Natural Resources Department

Form C-101 Revised February 10, 1994 Submit to Appropriate District Office State Lease -4 Copies Fee Lease - 3 Copies

30. Hobbs, NM 88241-1980 orawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

PO Box 2088

Santa Fe, NM 87504-2088

☐ AMENDED REPORT

District III 1000 Rio Brosos Rd. , Aztec, NM 87410 PO Bax 2088, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

			HON AND AC	Te Te			
3D-025-33	528	627	Pool Code 730	Pool Name nite Wash			
Properly Code 19149	5 A.B.	Baker		6 Well Number 5			
осяю но. 004874	8 Collin	s & Ware,		rator Name	<u>-</u>		g Elevation 3370
			¹⁰ Surface	Location			
	Township Range		Feet from the 830	North/South line South	Feet from the	East/West line	County
F 10					400	East	Leo
Ill on lat on Contine		·····	le Location	IT UITTERENT I	rom Suriac	East/West line	Continu
UL or lot no. Section	lownship Range	tol ldn	reet from the	Horiny south line	reet from the	E051/WEST IIIVE	County
2 Dedicated Acres 13 Joint or Inf				AL 1980TL ALL 14	TEOECTC HAVE	DEEN CONCOLID	4750
NO ALLOWABL			RD UNIT HAS BE			BEEN CONSOLID ON	A ILU
16				A.B. Bake Elev. 337	er No.5	Contained herein is best of my knowled best of best of best of survey be	EXICO

2.5 Miles SE of Eunice New Mexico.

File No. ______A-0733

District 1 . PO Box 1980, Hobbs, NM 88241-1980 state of New Mexico

Energy, Minerals & Natural Resources Department

Form C-10:
Revised February 10, 1994
Submit ta Appropriate District Office
State Lease -4 Copie:
Fee Lease - 3 Copie

District II PO Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

PO Box 2088

Santa Fe. NM 87504-2088

☐ AMENDED REPORT

1000 Rio Brasos Rd. , Aztec, NM 87410

(histrict IV
20 Roi 2088, Santa Fe, NM 87504-2088

PO Box 2088, Santa Fe, NM 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Name Pool Code 3*0-025*-33528 62700 Wantz ABO Property Name Well Number 19149 A.B. Baker 5 OCRID No. Operator Name Elevation Collins & Ware, Inc. 004874 3370 ¹⁰Surface Location North/South line Feet from the East/West line UL or lot no. Section Township Range Feet from the County Ρ 10 South 830 22 S 37 E 400 East Lea "Bottom Hole Location If Different From Surface UL or lot no. Range Lot Idn Feet from the North/South line Feet from the East/West line County 13 Joint or Infilt Consolidation Code ¹² Dedicated Acres 40 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNITL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION 16 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Michelle Butler -Printed Name Production Clerk Title Date SURVEYOR CERTIFICATION I hereby certify that the well location snown 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. July 8, 1996 Date of Survey NEW MEXIC A.B. Baker No.5 Elev. 3370'

2.5 Miles SE of Eunice New Mexico.

File No. _____A-0733

10324

Certificate Number

Submit to Appropriate District Office State Lease — 6 copies Fee Lease — 5 copies DISTRICT I P.O. Box 1980, Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-105

OIL CONSERVATION DIVISION P.O. Box 2088

	Revised	1-1-89
WELL API NO.		

P.O. Box 1980, Hobbs,	NM 88240	OII	CON				A 121C		30-02	25 - 33528	<u> </u>	
DISTRICT II P.O. Drawer DD, Artesi	P.O. Box 1980, Hoods, NM 88240 P.O. Box 2088 DISTRICT II P.O. Drawer DD, Artesia, NM 88210 Santa Fe, New Mexico 87504-2088							5. Indicate Type of Lease STATE FEE X				
DISTRICT III 1000 Rio Brazos Rd., A	ziec, NM 87410							[State Oil &	Gas Lease No). 	
WELL C	OMPLETIO	N OR R	ECOMPL	ETION I	REPORT	AND	LOG					
ia. Type of Well: OIL WELL			DRY [OTHER					7. Lease Name	or Unit Agre	ement N	ıme
b. Type of Completion		PLUO	. —		٦					Baker,	AB	
NEW WELL WORK OVER 2. Name of Operator	DEEPEN	BMC		RESVR	OTHER				R. Well No.	······································		
Z. Name of Operator	Colli	ns & i	lare, I	nc ·]		5		
3. Address of Operator	•		•					1	9. Pool name o	w Wildcat W	antz	Abo
508 W. Wat	l, Suite	1200,	Midland	Jexa Texa	as 797	01			antz Gra			
· ·	<u>P :</u>	830 Fee	et From The	Sout	t h	L åi	ne and _	400	Feet Fr	om The	East	Line
Section 10)	To	wnship	228	Rang	e 3	37E	NIM	PM .		Le	a County
	11. Date T.D. Re	ached	12. Date (edy to Prod.			ntions (DF	k RKB, RT, GR	R, etc.) 14		Casinghead
8/11/96	8/28/			27/96					O GR			· · · · · · · · · · · · · · · · · · ·
15. Total Depth 7400	, -	Back T.D.	370	17. If Mu Many	Itiple Compl Zones?	. How	18.	intervals Drilled By	Rotary Tools	i įC	Cable To	ak
19. Producing Interval(s)				<u> </u> c	-	two	!			0. Was Direct	ional Sur	vey Made
6565' - 682	7', 6856'	- 732	3! War	ntz Abo	, Want	z Gr	anite	Wash		Y e	s	
21. Type Electric and Ot	_	.							22. Was Wei	I Cored	No	:
Digital Arr	ay Sonic,											
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24.		LIN	ER RECO	ORD				25.	TUI	BING REC	ORD	
SIZE	TOP	В	ОТТОМ	SACKS	CEMENT	S	REEN		SIZE	DEPTH :		PACKER SET
						 			2 3/8	6480		64491
26. Perforation reco	ord (interval, s	ize, and	number)			27.	ACID,	SHOT,	FRACTURE	CEMEN	r, sou	EEZE, ETC.
6856' - 732	3' (90 sh	ots, 1	SPF)			DE	וואו אוי	ERVAL				ERIAL USED
/ 5/51 /00	71 404 .						6-732		,			% Ferchek
6565' - 682	/' (81 sh	ots, 1	SPF)			المرق	<u>5~682</u>		AI W//IU	ga. الالكام	ختیا	% Ferchek
28.					DUCTIO					:		
Date First Production 10/01/96			ion Method Flowing		eas lift, pump	oing - Siz	e and type	: punp)		}	s (<i>Prod.</i> ducin	or Shut-in)
Date of Test	Hours Tested		Choke Size	Prod	n For	Oil - Bt	A	Gas - Mo	JF W	ater - Bbl.		Gas - Oil Ratio
10/04/96 Flow Tubing Press.	Corina Process		15/64		Period	3	MCE	1060		4		3,333
900	Casing Pressu	re	Calculated 2 Hour Rate	4- Oil- 3	BOL.	Gas	1060	/ Wa	ter - BbL 4	Oil Gravi		- (Corr.)
29. Disposition of Gas (S	old, used for fuel	, vented, et	c.)			1	, 500			tnessed By		
-		<u></u>	S	old								
30. List Attachments	3 logs, i			<u> </u>				····				
31. I hereby certify tha	t the information	n shown	on both sid	es of this j	form is true	and co	mplete to	the best	of my knowle	dge and beli	ef	
Signature	Jam &	Sun	inel	Printed Name	Dianne	Sum	rall	Tit	le <u>Prod. S</u>	Supervis	or Dai	e 18/24/96

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

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			T. Strawn	T. Kirtland-	Fruitland	T. Penn. "C"
B. Salt _			T. Atoka	T. Pictured	Cliffs	T. Penn. "D"
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T. 7 Rive	rs 2730	0				T. Madison
T. Queen		2				T. Elbert
T. Grayb		8				T. McCracken
T. San A						T. Ignacio Otzte
T. Glorie			T. McKee			T. Granite
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RAILROAD COMMISSION OF TEXAS

Form W-12 (1-1-71)

		OIL A	ND ORS DIVIDION		6. RRC District Lea County
<u> </u>					7. RRC Lease Number.
		NATION of Be Filed With E	REPORT ach Completion Report.)		(Oil completions only)
1. FIELD NAME (as pe	er RRC Records or Wildcat) 2	. LEASE NAME		8. Well Number
Wantz ABO, Wa	#5				
3. OPERATOR COL	9. RRC Identification Number (Gas completions only				
4. ADDRESS					
	W. Wall, Suite	1200, Midlai	nd, Texas 79701		10. County
5. LOCATION (Section			1 /001 #51		
Unit P, Sec.	10, T22S, R37E.	830' FSL 8	and 400' FEL		Lea
		RECORD	OF INCLINATION	N	
*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
308	3.08	1.00	1.75	3 9	5.39
650	3.42	1.00	1.75	5.99	11.38
1022	3.72	1.00	1.75	6.51	17.89
1265	2.43	0.75	1.31	3.18	21.07
1696	4.31	2.00	3.50	15.09	36.16
2168	4.72	2.00	3.50	16.52	52.68
2416	2,48	2.25	3.94	9.77	62.45
2666	2.50	1.50	2.63	6.58	69.03
2914	2.48	0.75	1.31	3.25	72.28
3379	4.65	0.75	1.31	6.09	78.37
3845	4.66	0.75	1.31	6.10	84.47
4251	4.06	0.75	1.31	5.32	89.79
	DUE TO SEVERE LO	l		3.32	+
5048	7.97	1.00	1.75	13.95	103.74
5538	4.90	1.00	1.75	8.58	112.32
6038	5.00	1.75	3.07	15.35	127.67
		L		15.35	1 121.01
17. Is any information 18. Accumulative tot	ce is needed, use the re n shown on the reverse al displacement of well	side of this form bore at total dep	? X yes n wth of7400	_feet =169	
	urements were made in			Open hole	X Drill Pipe
	rface location of well to				feet.
	e to lease line as presci	•			feet.
			om the vertical in any mann		<u> 10 </u>
(If the answer to	the above question is "	'yes'', attach wri	tten explanation of the circu	umstances.)	
INCLINATION DATA	CERTIFICATION		OPERATOR CERTIF	ICATION	
have personal knowledg sides of this form and ti plete to the bast of my	nalties prescribed in Sec. I am authorized to make to ge of the inclination data as that such data and facts are knowledge. This certific (*) by the tem number of	his certification, that is a control of the control	kesources Code, that I have personal knowle that all data present complete to the best and information prese asterisks (*) by the it	t I am authorized to medge of all information; ed on both sides of this of my knowledge This inted herein except incl. tem numbers on his form	Sec. 91.143, Texas Natural take this certification, that I presented in this report, and is form are true, correct, and certification covers all data ination data as indicated by
Signatur of Authorized	Representative		Signature of Authorize	d Representative	7
· •	KS - VICE PRESID	ENT	Dianne Sumr	rall Produc	tion Supervisor
BRW DRILLING	ile (type or print)		Name of Person and T Collins & W	litie (type or print) Jare, Inc.	
Name of Company 806	894-7386		Operator Telephone: (915)	687-3435	

Area Code

__ Date:_

Telephone: _

Area Code Railroad Commission Use Only:

Title : __ Approved By: ____ * Designates items certified by company that conducted the inclination surveys.

RECORD OF INCLINATION (Continued from reverse side)

11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
6253	2.15	1.50	2.63	5.65	133.32
6748	4.95	1.75	3.07	15.20	148.52
7243	4.95	1.75	3.07	15.20	163.72
7400	1.57	2.00	3.50	5.50	169.22
2 N					
					
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If additional space is needed, attach separate sheet and check here.	
REMARKS:	

- INSTRUCTIONS -

An inclination survey made by persons or concerns approved by the Commission shall be filed on a form prescribed by the Commission for each well drilled or deepened with rotary tools or when, as a result of any operation, the course of the well is changed. No inclination survey is required on wells that are drilled and completed as dry holes that are plugged and abandoned. (Inclination surveys are required on re-entry of abandoned wells.) Inclination surveys must be made in accordance with the provisions of Statewide Rule 11.

This report shall be filed in the District Office of the Commission for the district in which the well is drilled, by attaching one copy to each appropriate completion for the well. (except Plugging Report)

The Commission may require the submittal of the original charts, graphs, or discs, resulting from the surveys.

District I PO Box 1980, Hobbs, NM 83241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

· 特爾·克斯斯斯 建氯化物 (1976)

Form C-104 Revised February 10, 1994

District III	PO Drawer DD, Artesia, NM 88211-0719 OIL CONSERV District III PO 1						TON DIVISION Submit to Appropriate District Offi 2088 5 Cop 87504-2088 —					structions on back ate District Office 5 Copies
District IV PO Box 2088, Si	into En Mi	M 97504-2088	TOD A		·			• • • • • • • • • • • • • • • • • • •	יראי דר דו	ופעיי		ended report
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	149			Ę	Baker,	AB		<u> </u>				5
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				<u></u>				2411	400			
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15/64	4	3	3 / 2.85	l l	/ 3.80	10	60 / 1				F	Flowing
" I hereby certi- with and that the knowledge and	he informatic	rules of the Oil	il Conservation D e is true and comp	ivision have been plete to the best	en complied t of my		0	IL CO	NSERVAT	ION E	 DIVIS	ION
Signature:		(ame	A	in Il	1	Approve	ed by:					
Printed name:	Di	anne Sum		man		Title:						
Title: Pro						Approvi	al Date:		· · · · · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , , 	and the special section	
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H	LIEAIORE	Operator Sign	auture			Print	ed Name			Ti	tle .	Date

Printed Name

Title

District 1 PO Box 1980, Hobbs, NM 88241-1980 District 11

PO Drawer DD, Artesia, NM 88211-0719 District III

Previous Operator Signature

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-104
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

1000 Rio Brazos District IV	i Rd., Aziec.	NM \$7410		Santa F	e, NM	87504	-2088] AMI	ENDED REP	ORT
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4.			Midianu	, Texas		Pool Name	,		1111	1		Pool Code	
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