

Mark K. Mosley
Division Manager
Production Department
Hobbs Division
North American Production

Conoco Inc.
P.O. Box 460
726 E. Michigan
Hobbs, NM 88240
(505) 393-4141

January 5, 1984

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

Attention: Gilbert Quintana

Gentlemen:

Downhole Commingling, Lockhart B-13A No. 9, Unit N, Section 13-21S-37E,
Lea County, New Mexico

Conoco respectfully requests an exception to Division Rule 303-A to allow downhole commingling of the Wantz Abo and Drinkard pools in the subject well. Additional data relative to this commingling is as follows:

1. A lease plat is attached.
2. C-1116's are included providing recent tests for the two zones.
3. Due to the recent completion of the well, decline curves are unavailable. Thus, completion reports for both pools are attached giving a description of their treating and testing.
4. After the well was shut-in 24 hours, bottom-hole pressures were calculated to the midpoint of the Drinkard and Abo using fluid levels and casing pressures. Bottom-hole pressures are 378 psi for the Drinkard, 573 psi for the Abo.
5. The fluids from the these two zones will not be incompatible; the gravities for the Drinkard and Abo are 38.4 and 40.4, respectively. All production is sweet; thus, the value of the two streams will not be reduced by the commingling.
6. Based upon the ratio of production from each zone, the following allocation percentages are suggested:

	<u>Oil</u>	<u>Gas</u>
Drinkard	30%	18%
Abo	70%	82%

7. By copy of this letter we are notifying the Bureau of Land Management and all offset operators (see attached address list) of the proposed commingling.

NMOCD

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January 5, 1984

If you should have any questions, please contact Danny Powell of this office. Thank you for your assistance in this matter.

Yours very truly,

A handwritten signature in cursive script, appearing to read "M. Masley". The signature is written in dark ink and is positioned below the closing "Yours very truly,".

DDP:cyp

Enc.

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-11b
Revised 1-1-65

Operator		Pool		County		Levi										
Conoco Inc.																
Address		P. O. Box 460, Hobbs, NM 88240		TYPE OF TEST - (X)		Completion [] Special [X]										
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BE			
		U	S	T						R	WATER BBLs.	GRAV. OIL		OIL BBLs.	GAS M.C.F.	
Lockhart B-13A	9	N	13	21	37	12-2-83	P	--	45	--	24	5	38.4	9	10	1111

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

No well will be assigned an allowable greater than the amount of oil produced on the official test.
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowable when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.
Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

[Signature]
Administrative Supervisor
(Date)
January 5, 1984
(Date)

RECEIVED
JAN 10 1984
O.C.D.
HOBBS OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION
GAS - OIL RATIO TESTS

(2-116)
Revised 1-1-65

Operator		County		Pool		Wantz Abo		TYPE OF TEST - (X)		Schedul		Completion		Special			
Conoco Inc.		Lea															
Address		WELL NO.		LOCATION			DATE OF TEST		CHOKE SIZE		TBG. PRESS.		DAILY ALLOW-ABLE		LENGTH OF TEST HOURS		
LEASE NAME				U	S	T	R										
P. O. Box 460, Hobbs, NM 88240		9		N	13	21	37	11-1-83	P	--	60	32	24	0	40.4	20	47
Lockhart B-13A																	2350

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

No well will be assigned an allowable greater than the amount of oil produced on the official test.
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.
Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.
Report casing pressure in lieu of tubing pressure for any well producing through casing.
Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

David S. Loya
(Signature)
Administrative Supervisor
(Title)
January 5, 1984
(Date)

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HOBBS CENTER

Form 277 (Rev. 2-7-63)
Export License No. 42-R0575

(See also 7 in
direction of
reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

[illegible]

DATE OF COMPLETION: 11/1/78

DATE OF COMPLETION: _____

TESTED BY: _____

REVIEWED BY: _____

SIGNATURE: _____

DATE: _____

2. NAME OF OPERATOR

CONOCO INC.

ANALYSIS OF CUBAN POL

U. S. No. 400, North N.M. 83240

3. Do not use this Report without clearly and in accordance with any State requirements.

At surface 660' FSL & 2100' FWL

4. - The original reported below

1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

1971-1980 (2)

16. DATE SAMPLED	17. DATE T.M. REACHED	18. DATE COMPL. (Ready to prod.)	19. ELEVATIONS (DF, REF. ET, GR. ETC.)*	20. ELEV. CASINGHEAD
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5/11/83	5/4/83	11/13/83	3420' GR	
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20. TOTAL DEPTH, MD & TJD	21. PLOG. BACK T.S. MD & TJD	22. IF MULTIPLE COMPL., HOW MANY?	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
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7800'	6930'	HOW MANY?	22	SHOULD BE	✓
					

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*	25. WAS DIRECTIONAL SURVEY MADE
---	---------------------------------

6704'-6873' LOWER DRINKARD

6578'-6656' UPPER DRINKARD

26. TYPE ELECTRIC AND OTHER LOGS RUN	27. WAS WELL CURED
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25. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
NO.			CHANGE		

LINER RECORD					TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8"	6865'	—

31. PERFORATION RECORD (TIME/SHOT, SIZE AND NUMBER) 6704', 18', 58', 62', 87', 6817', 29', 54', + 6873' w/ 1 JSPF. 6578', 82', 86', 92', 95', 6605', 15', 36', 39', 43', 48', 51', + 6656' w/ 1 JSPF.	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. <table border="1"> <thead> <tr> <th>DEPTH INTERVAL (MD)</th> <th>AMOUNT AND KIND OF MATERIAL USED</th> </tr> </thead> <tbody> <tr> <td>6704'-6873'</td> <td>162 BBLs GELLED PAD + 122 BBLs 28% ACID.</td> </tr> <tr> <td>6578'-6656'</td> <td>381 BBLs GELLED TFW. 200 BBLs 28% ACID.</td> </tr> </tbody> </table>	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	6704'-6873'	162 BBLs GELLED PAD + 122 BBLs 28% ACID.	6578'-6656'	381 BBLs GELLED TFW. 200 BBLs 28% ACID.
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED						
6704'-6873'	162 BBLs GELLED PAD + 122 BBLs 28% ACID.						
6578'-6656'	381 BBLs GELLED TFW. 200 BBLs 28% ACID.						

PRODUCTION									
DATE FIRST PRODUCTION		MULTIPLIERS METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)		
12/3/53		Pumping - 2 1/2" x 1 1/2" x 16"					PRODUCING		
DATE FIRST PRODUCTION	THROW	WELL OIL	WELL GAS	WELL TOTAL	GAS—MCF	WATER—BBL	GAS-OIL RATIO		
12/3/53	24	—	9	10	5	1111			
DATE FIRST PRODUCTION	THROW	WELL OIL	WELL GAS	WELL TOTAL	GAS—MCF	WATER—BBL	OIL GRAVITY—API (CORR.)		
—	—	—	9	10	5	38.4°			

TEST WITNESSED BY
C. R. PASCHAL

TITLE Administrative Supervisor

DATE 1/3/84

* (See Instructions and Spaces for Additional Data on Reverse Side)

RECEIVED

JAN 10 1984

O.C.D.
HOBBS OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(Set cover in-
structions on
reverse side)Form approved
Budget Bureau No. 42-R355.1.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DEW ☐ Other ☐		2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ SLEEPER ☐ PLUG BACK ☐ DIFF. REVEAL ☐ Other ☐		3. NAME OF OPERATOR: CONOCO INC.		4. ADDRESS OF OPERATOR: P. O. Box 460, Hobbs, N.M. 88240		5. LEASE DESIGNATION AND SERIAL NO.: LC-032096 (B)	
6. LOCATION OF WELL (Report location clearly and in accordance with any State requirements): At surface: 660' FSL + 2100' FWL At top prod. interval reported below: At total depth:		7. PERMIT NO.: 14. PERMIT NO. DATE ISSUED: 7C		8. FIELD AND POOL, DE WILDCAT: WANTZ ABO		9. SEC. T. & M. OR BLOCK AND SURVEY OR AREA: SEC. 13, T-21S, R-37E		10. COUNTY OR PARISH: LEA STATE: NM	
11. DATE SPUNDED: 4/5/83		12. DATE T.D. REACHED: 5/4/83		13. DATE COMPL. (Ready to prod.): 6/3/83		14. ELEVATIONS (DF, REB, RT, GE, ETC.): 3420' GR		15. ELEV. CASINGHEAD:	
16. TOTAL DEPTH, MD & TVD: 7800'		17. PLUG BACK T.D., MD & TVD: 7330'		18. IF MULTIPLE COMPL., HOW MANY: 1		19. INTERVALS DRILLED BY: ALL		20. ROTARY TOOLS: ALL	
21. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD): 6952'-7120' Upper ABO (CIBP set @ 7330') 7152'-7282' Middle ABO		22. TYPE ELECTRIC AND OTHER LOGS RUN: GR-DLL-CAL, CNL-GR-CAL, CCL-CBL-GR		23. WAS DIRECTIONAL SURVEY MADE: YES		24. WAS WELL CURED: No		25. CMT RETURNS:	
26. CASING RECORD (Report all strings set in well)									
Casing Size		Weight, lb./ft.		Depth Set (MD)		Hole Size		Cementing Record	
8 5/8"		24 #		1446'		12 1/4"		740-6XS CLASS "C"	
5 1/2"		15.5 # + 17 #		7800'		8 3/4"		1205-6XS CLASS "H"	
								945-6XS CLASS "C"	
27. LINER RECORD									
Size		Top (MD)		Bottom (MD)		Screens (MD)		Tubing Record	
								Size: 27/8" Depth Set (MD): 7294'	
28. PERFORATION RECORD (Interval, size and number)									
6952', 55', 7000', 25', 41', 56', 58', 74', 77', 80', 95', 98', 7102', 08', 17', 7120' w/2 JSPF (TOTAL 32 SHOTS)		7152', 58', 63', 67', 70', 83', 94', 99', 7204', 08', 12', 62', 66', 76', 7282' w/2 JSPF (TOTAL 32 SHOTS)		7553'-7633'		68-60LS 157% HCL-NE-FE		60-60LS 157% HCL-NE-FE	
29. PRODUCTION									
DATE FIRST PRODUCTION: 6/4/83		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump): PUMPING		WELL STATUS (Producing or shut-in): PRODUCING		DATE OF TEST: 6/13/83		HOURS TESTED: 24	
CROCK SIZE: —		PROD'N. FOR TEST PERIOD: 48		OIL—BBL: 61		GAS—MCF: 3		WATER—BBL: 1271	
FLOW, TUBING PRESS.: —		CASING PRESSURE: —		CALCULATED 24-HOUR RATE: 48		OIL—BBL: 48		GAS—MCF: 61	
DISPOSITION OF GAS: Sold		TEST WITNESSED BY: C.R. PASCHAL		OIL—GRAVITY-API (CORR.): 41.0°					
30. LIST OF ATTACHMENTS									
31. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records									
SIGNED: Wm A. Lutterford		TITLE: Regional Administrative Supervisor		DATE: 6/24/83					

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on Items 22 and 24, and 28, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers', geologists', sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see Item 36.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in Item 22, and in Item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in Item 23. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Stuck Cement": Attached supplemental records for this well should show the details of any in situ stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for Items 22 and 24 above.)

7346', 51', 91', 96, 7402', 22', 25', 51', 57', 59', 67', 73, 78, 92, 7494' w/2 JSPPF (TOTAL 30 SHOTS)

7653', 55', 89', 91', 98, 7601', 26', 29, 7633', w/12 JSPPF (TOTAL 18 SHOTS)

32. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF DEPTH INTERVAL TESTED, CURBION USED, TIME TOOK OPEN FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DEPTH	NAME	MEAS. DEPTH
ABO	6880	7585	7585	SALT	1480
				B. SALT	2545
				YATES	2678
				SEVEN RIVERS	2944
				QUEEN	3512
				SAN ANDRES	4820
				GLORIA	5340
				BLINEERY	5760
				TUB	6258
				DRINKMO	6410
				ABO	6880
				DEVONIAN	7635

Lockhart B-13A No. 9
Address listing Offset Operators

Bureau of Land Management
P. O. Box 1397
Roswell, NM 88201

Gulf Oil Exploration and Production Co.
P. O. Box 670
Hobbs, NM 88240

Summit Energy, Inc.
112 N. 1st
Artesia, NM 88210

Petro Lewis Corporation
P. O. Box 16200
Lubbock, TX 79490

Mobil Producing Texas and New Mexico
P. O. Box 633
Midland, TX 79702

