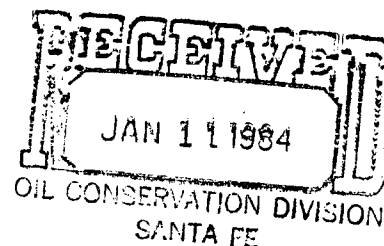




Mark K. Mosley
Division Manager
Production Department
Hobbs Division
North American Production

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-116'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

Page 2

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. L. Masley". The signature is fluid and slanted to the right.

DDP:cyp

Enc.

**NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS**

C-116
Revised 1-1-65

Operator Conoco Inc.		Pool		County Lea											
Address P. O. Box 460, Hobbs, NM 88240		TYPE OF TEST - (X)		Completion ☐ Special ☒											
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./BBL.		
		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

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.

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

David L. Logan
(Signature)

Administrative Supervisor

(Title)

January 5, 1984

(Date)

**NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS**

C-116
Revised 1-1-65

Operator Conoco Inc.		Pool Lea		County Lea											
Address P. O. Box 460, Hobbs, NM 88240		TYPE OF TEST - (X)		Completion ☐ Scheduled ☐ Special ☒											
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./BBL		
		U	S	T						R	WATER BBLs.	GRAV. OIL		OIL BBLs.	GAS M.C.F.
Lockhart B-13A	9	N	13	21	37	11-1-83	P	60	32	24	0	40.4	20	47	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 L. Lopez
(Signature)

Administrative Supervisor

(Title)

January 5, 1984

(Date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL:		OIL WELL ☒	GAS WELL ☐	DRT ☐		
b. TYPE OF COMPLETION:		NEW WELL ☐	WORK OVER ☐	DEEP-EN ☐	PLUG BACK ☐	DIFF. RESRV. ☒
2. NAME OF OPERATOR CONOCO INC.						
3. ADDRESS OF OPERATOR P. O. Box 460, Hobbs, N.M. 88240						
4. 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						
14. PERMIT NO.		DATE ISSUED JAN 11 1984				
15. DATE SPUDDED 4/5/83		16. DATE T.D. REACHED 5/4/83		17. DATE COMPL. (Ready to prod.) 11/13/83		18. ELEVATIONS (DF, REB. RT, GR, ETC.)* 3420' GR
20. TOTAL DEPTH, MD & TVD 7800'		21. PLUG, BACK T.D., MD & TVD 6930'		22. IF MULTIPLE COMPL., HOW MANY* 2		23. INTERVALS DRILLED BY ROTARY TOOLS ☒ CABLE TOOLS
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6704'-6873' LOWER DRINKARD 6578'-6656' UPPER DRINKARD						25. WAS DIRECTIONAL SURVEY MADE —
26. TYPE ELECTRIC AND OTHER LOGS RUN						27. WAS WELL CORED —

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
No			CHANGE		

29. LINER RECORD					30. 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 (Interval, size and number)					32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
6704', 18', 58', 62', 87', 6817', 29', 54', + 6873' w/ 1 JSPPF.					DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6578', 82', 86', 92', 95', 6605', 15', 36', 39', 43', 48', 51', + 6656' w/ 1 JSPPF.					6704'-6873'	162 BBLs GELLED PAD +
						122 BBLs 28% ACID.
					6578'-6656'	381 BBLs GELLED TFW +
						200 BBLs 28% ACID.

33. PRODUCTION							
DATE FIRST PRODUCTION 11/13/83		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) PUMPING - 2 1/2" x 1 1/2" x 16"				WELL STATUS (Producing or shut-in) PRODUCING	
DATE OF TEST 12/3/83	HOURS TESTED 24	CHOKE SIZE —	PROD'N. FOR TEST PERIOD —	OIL—BBL. 9	GAS—MCF. 10	WATER—BBL. 5	GAS-OIL RATIO 1111
FLOW TUBING PRESS. —	CASING PRESSURE —	CALCULATED 24-HOUR RATE —	OIL—BBL. 9	GAS—MCF. 10	WATER—BBL. 5	OIL GRAVITY-API (CORR.) 38.4°	

34. DISPOSITION OF GAS (Solid, used for fuel, vented, etc.) SOLD	TEST WITNESSED BY C.R. PASCHAL
---	-----------------------------------

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

W. B. DeBartol

TITLE

Administrative Supervisor

DATE

1/3/84

*(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 33, 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 35.

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 33. 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: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple 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.)

A30 PERFS 6952'-7282' ISOLATED w/ RBP @ 6930' APPLICATION FOR
APPROVAL TO DOWNHOLE COMMINGLE WILL BE SUBMITTED AT A LATER DATE.

27. SUMMARY OF POROUS ZONES				GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
DRINKARD	6578'	6873'	OIL, GAS, WATER	SALT	1480'	
A30	6880'	7585'	OIL, GAS, WATER	B. SALT	2545'	
				YATES	2678'	
				SEVEN RURS.	2944'	
				QUEEN	3512'	
				SAN ANDRES	4070'	
				GLORIETA	5340'	
				BLINEBRY	5760'	
				TURB	6258'	
				DRINKARD	6410'	
				A30	6880'	
				DEVONIAN	7635'	

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, other than those shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on Items 23 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 35.

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Item 29: "Stacks Cement": Attached supplemental records for this well should show the details of any multiple 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)

27. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOK OPEN-FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		WELL COMPLETION OR RECOMPLETION REPORT	
FORMATION	TOP (FT)	BOTTOM (FT)	DEPTH (FT)	NAME	MEAS. DEPTH	TRUE VERT. DEPTH	
ABO	6880	7585	7585	SALT	1480		
				B. SALT	2545		
				YATES	2678		
				SEVEN RIVERS	2944		
				QUEEN	3512		
				SAN ANDRES	4838		
				GLORIA	5340		
				BLINERY	5760		
				TUBB	6258		
				DRINKARD	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

