

Sun Exploration and Production Company No 24 Smith Road ClayDesta Plaza PO Box 1861 Midland TX 79702 9970 915 688 0300

January 29, 1986

Mr. David Catanach Energy and Minerals Dept. Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87501

> Re: Application of Sun Exploration & Production Company for approval of downhole commingling of production in the Elliott B-12 Well No. 2 (Unit D, Sec. 12, T-22S, R-37E), Drinkard and Wantz Granite Wash Pools.

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Mr. Catanach:

Sun requests administrative approval for an exception to Rule 303-A to permit downhole commingling of production in the subject well from the Drinkard and Wantz Granite Wash Pools.

This well is currently dual completed pumping from the Wantz Granite Wash Formation and flowing from the Drinkard formation. The Wantz Granite Wash is classified as an oil zone, while the Drinkard is classified as a gas zone. Ownership of the two zones is common. Note that Sun's Walter Lynch #1 (Sec. 1, T-22S, R-37E) and Annie Christmas #1 (Sec. 1, T-22S, R-37E) are already downhole commingled in the Drinkard and Wantz Granite Wash Pools.

The additional information concerning this application, as outlined in Rule 303-C, is attached for your consideration.

Thank you,

Susan Wikstrom

Production Engineer

cc: Tom Fox Kim Bowen Bill Hayden DeeAnn Kemp Well File

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- A. OPERATOR: Sun Exploration and Production P. O. Box 1861 Midland, Texas 79702-1861
- B. LEASE Elliott B-12 #2 Unit D, 567' FNL & 467' FWL Sec. 12, T-22S, R-37E Lea County, New Mexico
- C. Well is dual completed in the Drinkard and Wantz-Granite Wash zones per NMOCC Order No. MC-2232.
- D. The C-116 for both zones is attached.
- E. Production decline curves for both the Drinkard and Wantz-Granite Wash zones are attached.
- F. BOTTOM HOLE PRESSURE DATA: Drinkard: 72 hr. SIBHP 597 psi (1/16/86) Granite Wash: Rod pump, est'd SIBHP 1000 psi
- G. FLUID CHARACTERISTICS: There is no evidence of fluid incompatibility. Sun's Walter Lynch #1 and Annie Christmas #1 are already downhole commingled in the Drinkard and Wantz-Granite Wash pools.
- H. VALUE OF COMMINGLED FLUIDS: The value of either crude will not be affected by downhole commingling this well because Drinkard and Granite Wash production is already surface commingled per NMOCC Order No. PC-523.
- I. ALLOCATION FORMULAS:

$X = \frac{Y}{Z}$ (100) When	<pre>re X = percent allocation of commingled production to desired zone. Y = latest daily rate of desired zone, BOPD or MCFD. Z = total combined Drinkard and Wantz-Granite Wash daily rate, BOPD or MCFG.</pre>
Drinkard Oil	$X = \frac{1}{(1 + 11)} (100) = 8.33\%$
Wantz-Granite Wash Oil	$X = \frac{11}{(1+11)} (100) = 91.67\%$
Drinkard Gas	$X = \frac{369}{(369 + 81)} (100) = 82.0\%$
Wantz-Granite Wash Gas	$X = \frac{81}{(369 + 81)} (100) = 18.0\%$

J. ALL OFFSET OPERATORS HAVE BEEN NOTIFIED BY A COPY OF THIS APPLICATION:

Anadarko Production Company Box 2497 900 Gibraltar Savings Center Midland, TX 79702

Exxon Company U.S.A. Box 1600 615 W. Missouri Midland, TX 79702

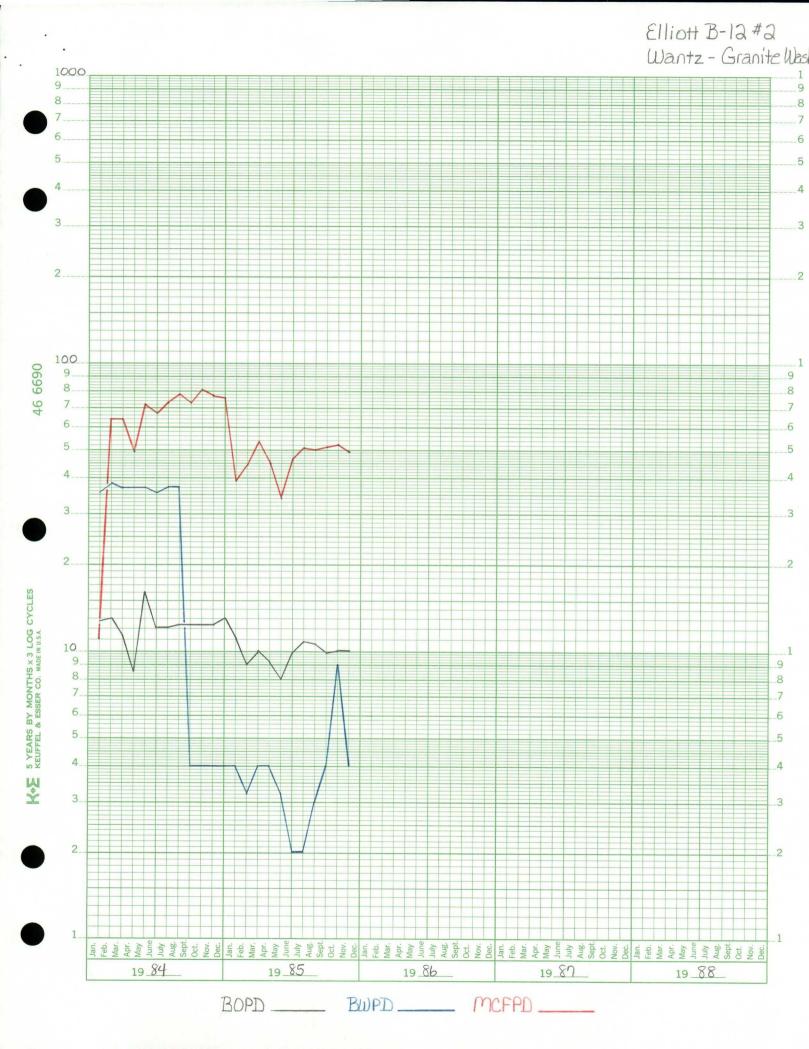
Marathon Oil Company Box 552 125 W. Missouri Midland, TX 79702

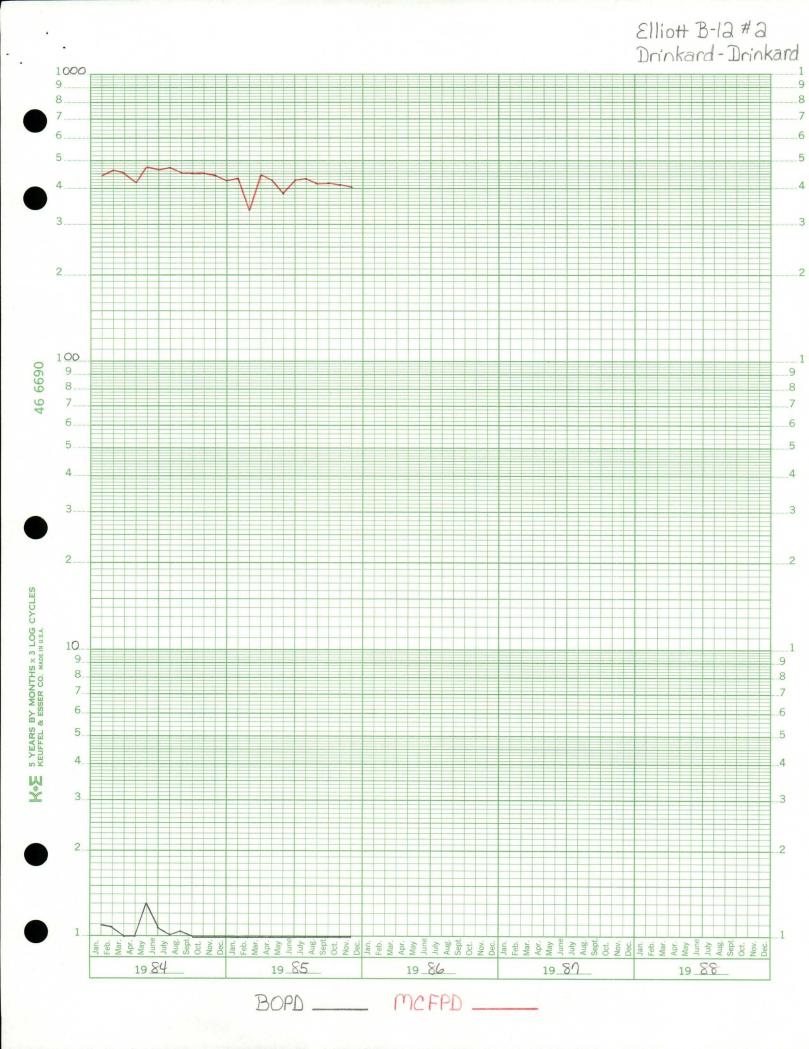
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form C-116 Revised 16-1-78	•	g		THETH PROD. DURING TEST GAS - CIL	TIT WATER CRAV. OIL CAS RATIO	24 5 11 81 7364/1						 		I licrely certify that the above information is true and complete to the best of my know. I ledge and belief.			(Stending)	Associate Accountant	1-31-86
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STATE OF HELY HIEKILD ENERGY MINERALS DEPARTMENT		Sun Exploration and Production Co.	P.O. Box 1861, Midland, Texas		· LEASE NAME	Elliott B-12	-		1		-			No well will be assigned an allowable greater than the amount of old 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 focated by more than 25 percent. Operator is encouraged to take advantage of this 25 percent; tolecance in order that well can be assigned increased allowables about subjointed by the Division.	Cas volumes must be reported in ACF measured at a pressure base of 15,025 pala and a temperature of 60° P. Specific gravity base and booton	Report coordence in liou of tubing pressure for any well producing through cooling. Moti original and one copy of this report to the district affice of the New New Jasica Oli Conservation Division in accordance with	Rule JUI and appropriate puul rules.	•	

. 87	•		Special (X)	645 - CIL	CU.FT/BBL	369,000/1	÷ .								I hereby certify that the above information is true and complete to the best of my know-			t.	
form C-116 f Revised 1G-1-78			5 e 5	TEST	GAS M.C.F.	369									it the abov to the besi		ma mu	Associate Accountant	(1.4.)
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SARTA FE , ПЕМ НЕ АТСО 4700	GAS-OIL RATIO TESTS			DATEOF	TEST	12-2-85						·* .			amount of all produced on the off at a role nut exceeding the lo ase adventage of the 25 percent	bne eleq 2:	kh casing. Mexico Oli		
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acu ARTMEN1		ion Co.	19702 IS	WELL	voz	2			· · · ·	```			 ,	 	n allowable greater than the amount of old pro- each well ahalt be produced at a rate not e Occurrer la encouraged to take advantage of	ae Divisio ICF meanu	bing press		
STATE UN THE A DEPARTMENT ENERGY 445 MINERALS DEPARTMENT		Exploration and Production	51, Midland, Texas		L EASE NAME	5						-			estigned e retto test.		Report energy pressure in lieu of subing pressure for any well producing through casing. Report energy and one copy of this report to the district office of the New Mexico Oli	ropriețe poul rules.	
ENE	•	Cprision Sun Explorat	Add P.O. Box 1861,		, LEAS	Elliott B-l2		•	•	,					No well will be During gar-oil Theored by rules than	increased allows Gas volu	Repart of Mail Orig	Rule Jül and app	





Elliott B-12 #2	DRINKARD	DATE JAN. 1986
PRESENT COMPLETION	SUGGESTED COMPLETION	
PERMANENT WELL BORE DATA		DATA ON THIS COMPLETION
6R: 3350'		
GF JJJU		
178,36# CSG @ 1150'.		
CANTO W/ 550 SX, CIRC'D.		
Child by Care SA, CIACAD.		······································
	1/3	· · · · · · · · · · · · · · · · · · ·
		238" J-55 TBG (229 745)
		<u>a 0 0-55 /08 (229 jts -</u>
		OTIS XA SLIDING SLEEVE @ 70
)		1 JT 238 TBG
		DTIS OSTSD, W PROFILE @;
- a a a dat (1		
TDC @ 2140' (by survey)		DTIS 7" PERMALACH PKRC TOS
·		238' PEEF pup jt. BULL Plus
		LOWER GRANITE WASH ON
		RODPUND W/ 76 RODSTRING
	And and a finite second s	+ 1'2" RODAIMP SEATED IN
		N' PROFILE
· · · · · · · · · · · · · · · · · · ·		
		DRINKARD :
		6221-6739 (60 hdes.
		6746 - 7001 (29 holes
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· · · · · · · · · · · · · · · · · · ·	705/	
		GRANITE WASH : 7223-55
1" 120 71 + ALIA 74AC'		(1 JSPF, 33 holes)
<u>7", 23°26 + CSG@ 7425.</u>		<u>7326-71 ≠ 7379-7388'</u>
CMTD W/ 1250 SX.		(ISPF, 56 holes)
TOC @ 2140'		-
	PB: 7400'	
PBTD: 7400'	TO FICO	
	7425	
TD: 7425'		

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	FIELD	DATE		
Elliott B-12 #2	DRINKARD	JAN. 1986		
PRESENT COMPLETION	SUGGESTED COMPLETION	:		
PERMANENT WELL BORE DATA	in a statu se a transmission a series and a second s	DATA ON THIS COMPLETION		
GR: 3350'				
,		·		
95/8" 36# 156@ 1150'				
958", 36 # CSG @ 1150'. CMTD W/ 550 SK, CIRC'D.				
	<i>∥59</i> ²⁴			
	مى مىسى مەرىپ بىلىدى بىلىمى مەرىپ مەرى يىمپى بىلىمى ب			
•				
TOC @ 2140' (by survey)		238" J55 TBG TO;		
		TAC @ 10175'		
		76 RODSTRING		
		12" RODDUMP		
		12 RODDIND		
·				
	6175			
	and the second sec	DRINKARD		
		6221-6739 (60		
		6746-7001 69		
		SELECT FIRE		
·		· · · · · · · · · · · · · · · · · · ·		
		GRANITE WASH: 7223-		
· · · · · · · · · · · · · · · · · · ·		(1JSPF, 33 holes		
7", 23+26 + CSG @ 7425!		<u></u>		
CMTD W/ 1250 SX.		(1JSPF 56 hole		
		UJJSPF, JU hole		
TDC e 2110!				
	<u>PB:7406</u>			
<u> </u>	7425			