



**Sun Exploration and
Production Company**

901 W Wall
Post Office Box 1861
Midland Texas 79702
915 685 0300

May 7, 1982

Mr. Joe D. Ramey
Energy and Minerals Dept.
Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87501

Re: Application of Sun Exploration &
Production Company for approval of
downhole commingling of production
in the Elliott B-13 Well No. 2 (Unit
E, Sec 13, T-22-S, R-37-E), Drinkard
and Wantz Granite Wash Pools.

Dear Mr. Ramsey:

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

Currently this is a dual completed well flowing from the Wantz Granite Wash formation and pumping from the Drinkard formation. Both zones are classified as oil zones. Ownership of the two zones is common. The total daily oil production from both zones before commingling does not exceed 50 barrels per day, and neither zone produces more water than the combined oil limit. Please note that our Walter Lynch No. 2L (Unit L, Sec 1, T-22-S, R-37-E) is already commingled in the Drinkard and Wantz Granite Wash as per Administrative Order DHC-272.

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

Yours truly,

A handwritten signature in cursive script that reads "Coby Osborne".

Coby Osborne

CO/nc

cc: F. Brandes
J. McLean
D. Kemp
T. Gladney
Well File

RECEIVED

JUN 2 - 199

General
HOBBS OFFICE

5/11/82

- A. OPERATOR:
Sun Exploration and Production
Sun Production Division
P. O. Box 1861
Midland, Texas 79702
- B. LEASE:
Elliott B-13 #2
Unit E, Sec. 13, T-22-S, T-37-E
Lea County, New Mexico
- C. Well is completed in the Drinkard and Wantz Granite Wash as a dual completion as per Order No. MC-2250
- 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:
No recent BHP's are available
Drinkard: rod pumping SIP 490 psi
Granite Wash: SIP-380 psi
- G. FLUID CHARACTERISTICS:
There is no evidence of fluid incompatibility. Sun's Walter Lynch #2L is already downhole commingled in the Drinkard and Wantz Granite Wash pools.
- H. VALUE OF COMMINGLED FLUIDS:
Because Drinkard and Granite Wash production is already surface commingled as per Administrative Order PC-528, the value of both crudes will not be affected by downhole commingling in Well #2.

I. ALLOCATION FORMULS:

$$X = \frac{Y}{Z} (100)$$

where X = percent allocation of commingled production to desired zone.
Y = latest daily oil rate of desired zone, BOPD
Z = total combined Drinkard and Wantz Granite Wash daily oil rate, BOPD

Drinkard:

$$X = \frac{14}{(14 + 22)} (100) \\ = 38.9\%$$

Wantz Granite Wash:

$$X = \frac{22}{(14 + 22)} (100) \\ = 61.1\%$$

RECEIVED

JUN 2 - 1982

S. C. H.
HOBBS OFFICE

J. All offset operators have been notified by a copy of this application:

1) Gulf Oil Exploration and Production Co.

Box 670

Hobbs, New Mexico 88240

2) Sohio Petroleum Co.

Box 3000, Rankin Hwy.

Midland, TX 79702

3) Samedan Oil Corp.

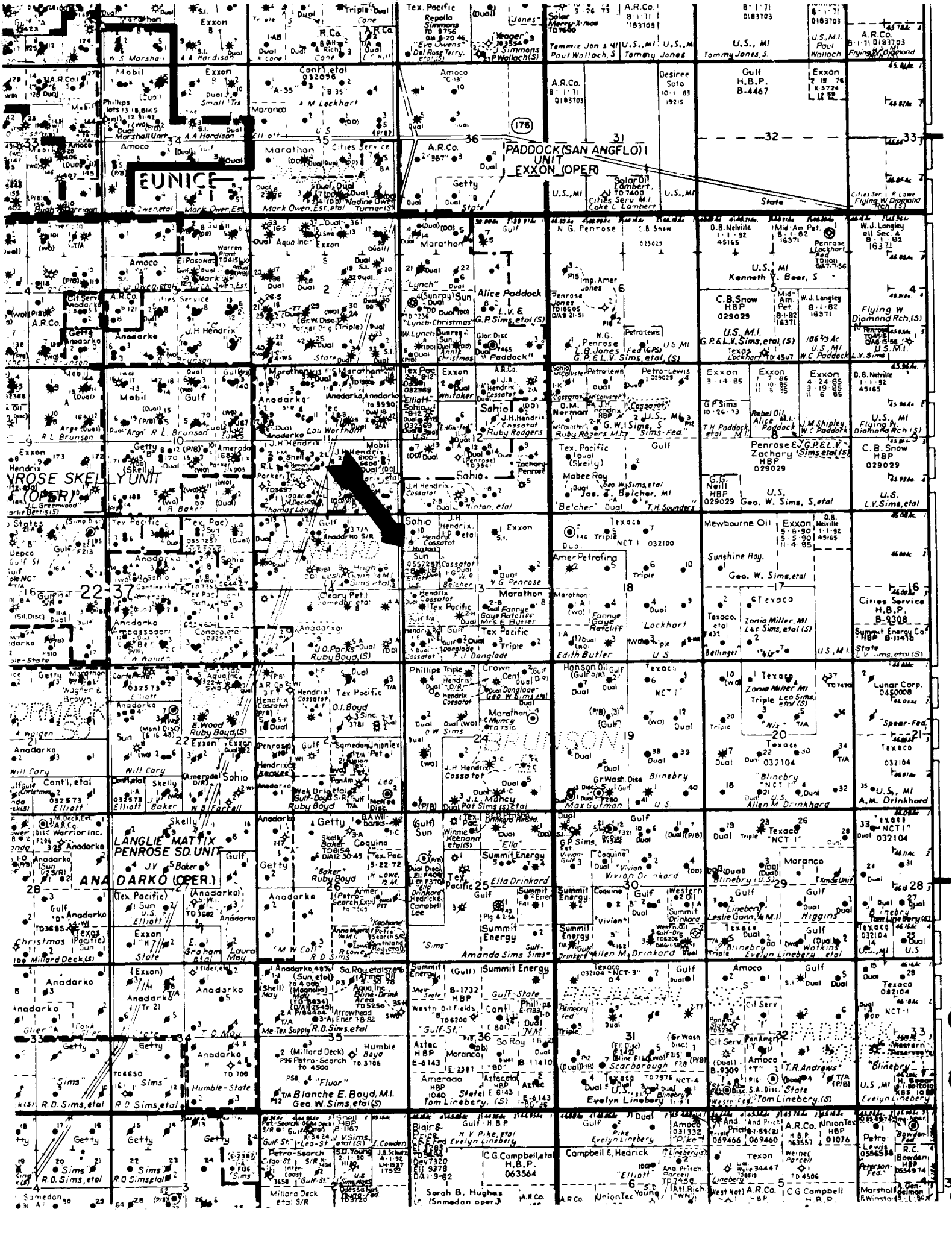
900 Wall Towers East

Midland, TX 79701

4) John H. Hendrix Corp.

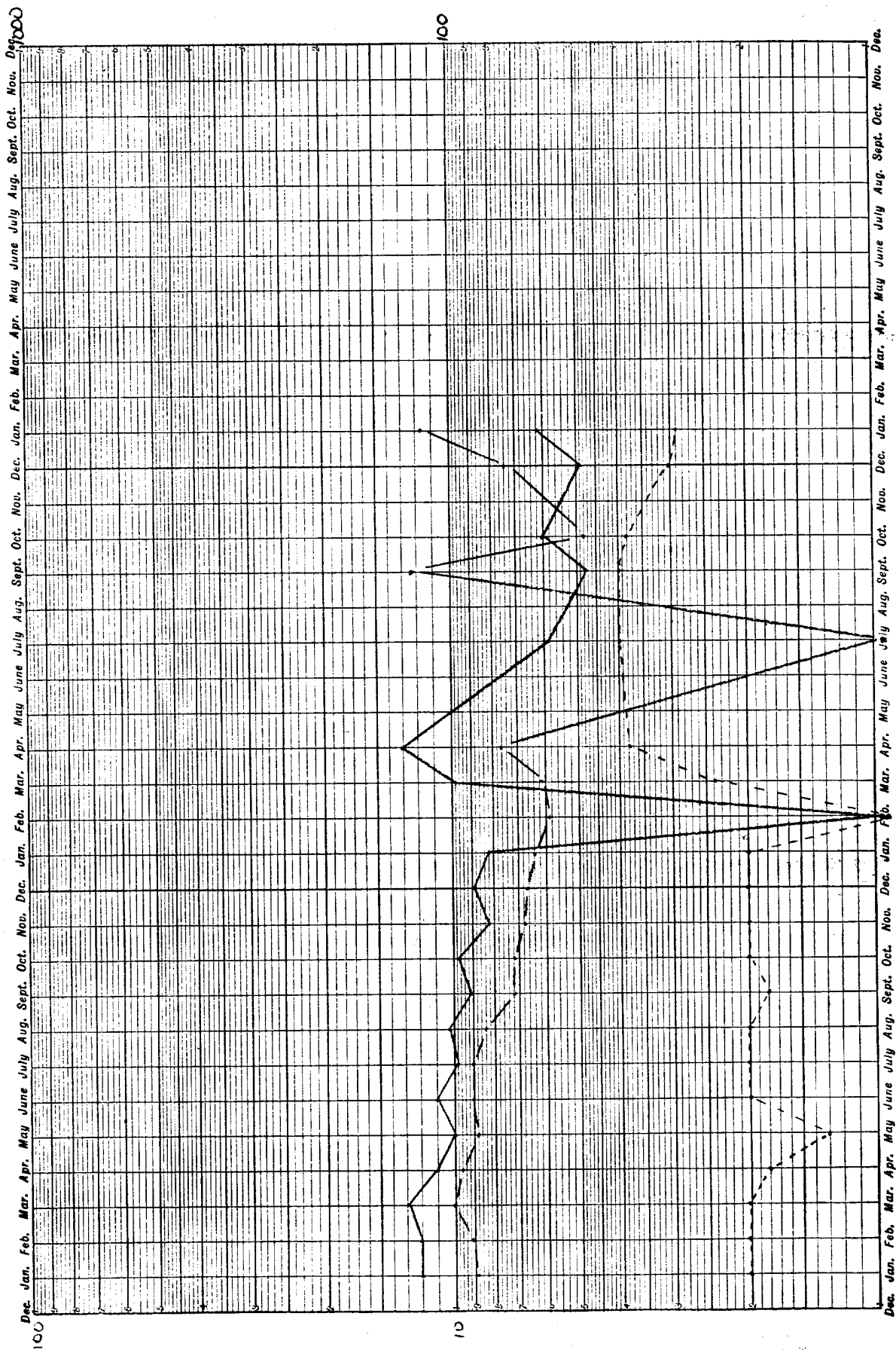
525 Midland Tower

Midland, TX 79701



Elliott B-13 #2
Drinkard

MCFPD. —.



BOPD — — — — —

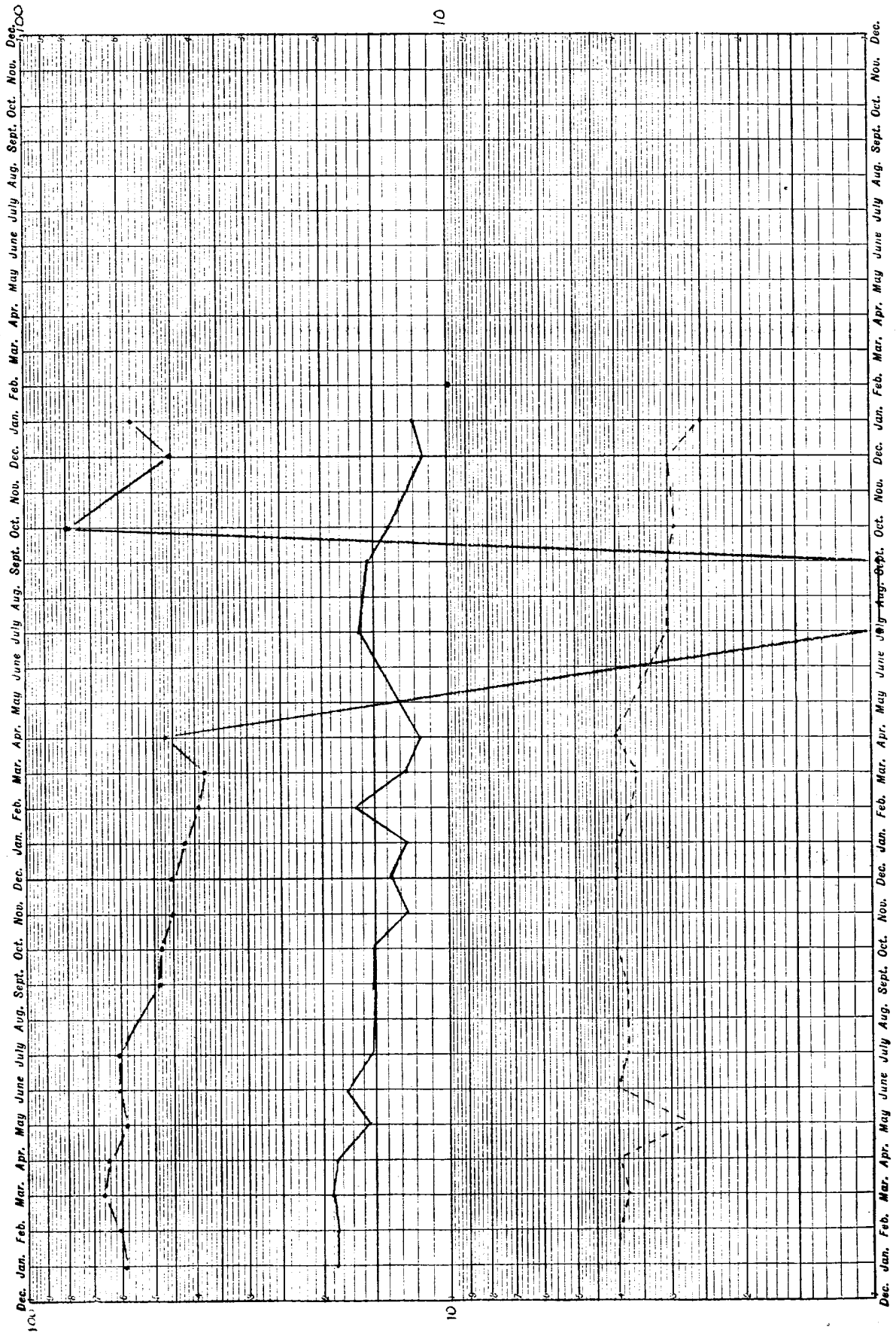
Year of 1982

Year of 1981

Year of 1980

Elliott B-13 #2
 Wantz Granite Wash

MCFPD.---



---BUPD

---BOPD

Year of 1982

Year of 1981

Year of 1980

NEW MEXICO OIL CONSERVATION COMMISSION
GAS - OIL RATIO TESTS

C-116
Revised 1-1-65

Operator		Pool		County		Lea								
Sun Exploration & Production Co.		Wantz Granite Wash												
Address		P.O. Box 1861, Midland, Texas 79702		TYPE OF TEST - (X)		Completion ☐ Special ☐								
LEASE NAME		WELL NO.	LOCATION			DATE OF TEST	CHOKES SIZE	T.B.G. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST	GAS - OIL RATIO CU.FT./BBL		
			U	S	T	R					WATER BBLs.	OIL BBLs.	GAS M.C.F.	
ANNIE CHRISTMAS DHC Permit # R-5482	1	N	1	22	37		P 2"	25	17	24	0	17	202	11881
									33% Drinkard 67% Wantz GW					
ELLIOTT B-12	2	D	12	22	37		F 32/64	0	22	24	0	0	0	
	2	E	13	22	37		F 32/64	45	22	24	2	22	198	9,000
WALTER LYNCH	1	K	1	22	37		F TO BE DOWNHOLE COMMINGLED	PERMIT # 345						
	2	L	1	22	37		P 2"	25	2	24	0	2	107	53500
	5	M	1	22	37		F 27/64	45	15	24	0	16	95	5938

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.

Carla M. Mason
(Signature)

Senior Accounting Assistant
(Title)

May 5, 1982
(Date)

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

2-11b
Revised 1-1-65

Operator Sun Exploration & Production Co.		Pool Drinkard		County Lea									
Address P.O. Box 1861 Midland, Texas 79702		TYPE OF TEST - (X)		Scheduled ☒ [X]		Special ☐ []							
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU. FT. / BBL.
		U	S	T						R	WATER BBLs.	GRAV. OIL	
Boyd	3	A	23	22	37	T.A.							
Boyd	5L	B	23	22	37	1-9-82	F 17/64	30	1	24	0	1	58
Cone, S.E.	1	J	26	21	37	3-4-82	F 14/64	25	1	24	1	1	18
Cone, S.E.	2	I	26	21	37	3-5-82	F 15/64	40	2	24	1	2	13
Danglade	3	O	13	22	37	3-1-82	F 24/64	22	5	24	1	6	27
Elliott A-15	2	J	15	22	37	1-5-82	F 52/64	20	gas well	24	1	0	265
Elliott B-9	3	D	9	22	36	1-16-82	F 2"	20	3	24	0	3	51
Elliott B-9	4	C	9	22	36	1-15-82	F 2"	100	4	24	10	6	219
Elliott B-12	2	D	12	22	37	1-10-82	F 32/64	50	gas well	24	0	1	379
Elliott B-13	2	E	13	22	37	3-2-82	P 2"	30	25	24	4	14	114
Elliott B-15	1	B	15	22	37	1-20-82	F 19/64	30	1	24	0	1	88
													58,000
													18,000
													6,500
													4,500
													265,000
													17,000
													36,500
													379,000
													8,143
													88,000

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

Carla N. LeCaw
(Signature)

Senior Accounting Assistant

(Title)

April 7, 1982

(Date)

WELL COMPLETION SKETCHES

SUN-6641-A

Elliott B-13 #2

WELL

Granite Wash/Drinkard

FIELD

DATE



PRESENT COMPLETION



SUGGESTED COMPLETION

PERMANENT WELL BORE DATA

9 5/8" 36# @ 1120'

Circ. Cmt. to Surface

Upper Drinkard Perfs

6261 - 6528'

Lower Drinkard Perfs

6636 - 7125'

Granite Wash Perfs

7321' - 7395' 54 holes

PBTD @ 7445'

7" 23-26# @ 7480'

1



ORIGINAL COMP.

WELL CLASS Dual

DATA ON THIS COMPLETION

Top cmt 2400' FS

Long String Tbg
2 3/8" 4.7# 8 Rd Th. EUE
214 Jts To Anchor

Short String 2 3/8" Tbg
4.7# EUE 8 Rd Th w Beveled
Cplgs 214 Jts

Rods 93 7/8" 174 3/4"
Pump 2" X 1 1/2" X 12' X 18'

SN 125/32 ID @ 6706'

Dual String Anchor

@ 6788

9 Pts Tension J-Latch

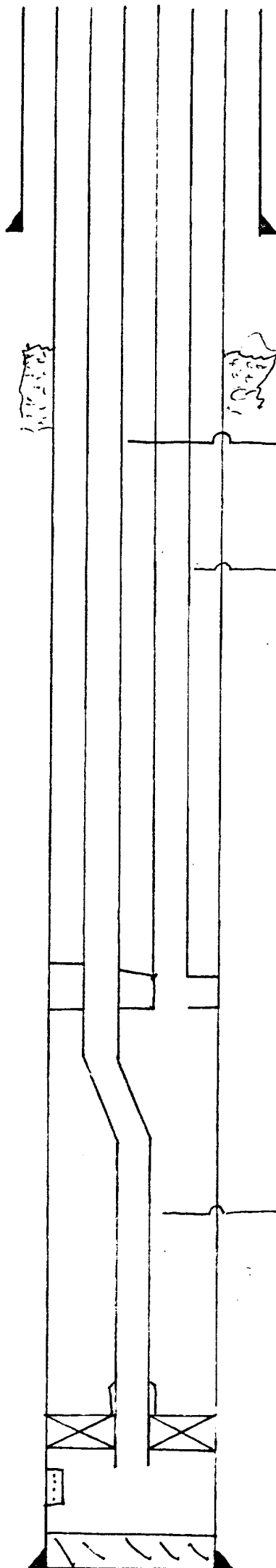
13 Jts 2 3/8" Tbg
between PKr + Anchor

Otis Permalatch Packer

@ 7196' - 7204'

w/overshot On-Off

7"



RECEIVED

JUN 2 - 1982

6102
HOBBS CITY