

ARCO Oil and Gas Company
Prattville, Alabama
Post Office Box 1610
Midland, Texas 79702
Telephone 915 684 0100



May 26, 1981

Mr. Joe D. Ramey
Oil Conservation Division
New Mexico Department of Energy & Minerals
P. O. Box 2088
Santa Fe, New Mexico 87501

RE: Downhole Commingling Application
S. J. Sarkeys No. 4
Section 23, T-21-S, R-37-E

Dear Sir:

ARCO Oil and Gas Company requests administrative approval under the provisions of Rule 303-C to commingle downhole production from the Blinebry and Drinkard zones of the S. J. Sarkeys No. 4 located in Section 23, T-21-S, R-37-E, of Lea County, New Mexico.

Blinebry and Drinkard production on this lease is presently being commingled in the surface facilities (Order #PC-219) with no evidence of fluid incompatibility. Since the crudes are commingled at the battery before sale, no change in value will result from commingling the production downhole. Ownership of both zones is common and correlative rights will not be violated.

This well produces from a maximum depth 6586' and is therefore allowed a commingled production rate up to 40 BOPD. The water production limit is 40 BWPD from each zone.

The S. J. Sarkeys No. 4 produces 2 BOPD + 1 BWPD + 11 MCFGPD by natural flow from the Blinebry zone. The measured bottom hole pressure is 431 psia.

The Drinkard Zone was shut-in in 1976. Final production in December, 1975, was 2 BOPD + 4 MCFGPD by natural flow. The Drinkard Zone produced 6 BOPD + 1 BWPD + 70 MCFGPD during a 24-hour test in May, 1981 and has a bottom hole pressure of 1007 psia. Downhole commingling will allow economical production from the Drinkard zone.

OIL CONSERVATION DIV.

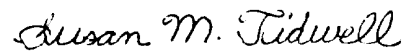
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Additional information, such as decline curves, Form C-116-A, List of Offset Operators, and lease and well information is included as required by Rule 303-C. Offset operators are being notified by registered mail with a copy of this application.

Thank you for your consideration.

Very truly yours,

A handwritten signature in cursive script that reads "Susan M. Tidwell".

Susan M. Tidwell

ST:fd

Attachments

cc: NMOCC Area Supervisor
P. O. Box 1980
Hobbs, New Mexico 88240

Offset Operators

S. J. SARKEYS #4

1. Operator: ARCO Oil and Gas Company
P. O. Box 1610
Midland, Texas 79702
2. Lease, Well, and Location:

S. J. Sarkeys #4
330' FSL & 990' FEL
Section 23-21S-37E
Lea County, New Mexico
3. Producing Zones:

Blinebry by natural flow.
Drinkard by natural flow
Bottom-most perforation at 6586'
4. Commission Order No. Authorizing Dual Completion:

MC-1615
5. Decline Curves: Attached
6. Fluid Incompatibility:

Production from these zones is being
commingled in the surface facilities of
the S. J. Sarkeys' Lease. No evidence of
fluid incompatibility has been found.
(PC-219)
7. Value of Commingled Fluids:

As production from both zones is currently
priced as sour crude, downhole commingling
will not affect the value of the oil.
8. Current Production: See attached C-11E
9. Bottom Hole Pressures:

Blinebry - 431 psi
Drinkard - 1007 psi
10. All Offset Operators are being notified by copy of this application.

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OFFSET OPERATORS

ACOMA OIL CORPORATION
812 CONTINENTAL LIFE BLDG.
FORT WORTH, TEXAS 76102

GETTY OIL CORP.
BOX 1231
MIDLAND, TEXAS 79702

GULF ENERGY & MINERALS COMPANY
BOX 1150
MIDLAND, TEXAS 79702

MOBIL OIL CORPORATION
BOX 633
MIDLAND, TEXAS 79702

SHELL OIL COMPANY
P. O. BOX 1509
MIDLAND, TEXAS 79702

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator ARCO Oil and Gas Company		Pool Blinebry		County Lea										
Division of Atlantic Richfield Company		P. O. Box 1710, Hobbs, New Mexico 88240		TYPE OF TEST - (X) ☒ Scheduled ☐										
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/EBL	
		U	S	T						R	WATER BBLs.	GRAV. OIL		OIL BBLs.
S. J. Sarkeys	4-P	23	21S	37E	5-16-81	S 21/64	60	4	24	1	39.2°	2	11	5500
Above is a 24 hr. productivity test property to downhole commingling with the Drinkard Zone.														

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 produce at a rate 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 per acre foot 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 if casing pressure is maintained throughout casing.

Well original and one copy of this report to be filed with the New Mexico Oil Conservation Commission in accordance with Rule 303 and appropriate pool rules.

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

Susan M. Tidwell
(Signature)
Operations Engineer
May 26, 1981
(Date)

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator		Pool		County											
ARCO Oil and Gas Company Division of Atlantic Richfield Co.		Drinkard		Lea											
Address		TYPE OF TEST - (X)		Completion ☐		Special ☒									
P. O. Box 1710, Hobbs, New Mexico 88240															
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.
S. J. Sarkeys	4	P	23	21S	37E	5-17-81	19/64"	65	0	24	1	39.20	6	70	11,667
Above is a 24 hr. productivity test preparatory to down hole commingling with the Blinebry zone.															

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.

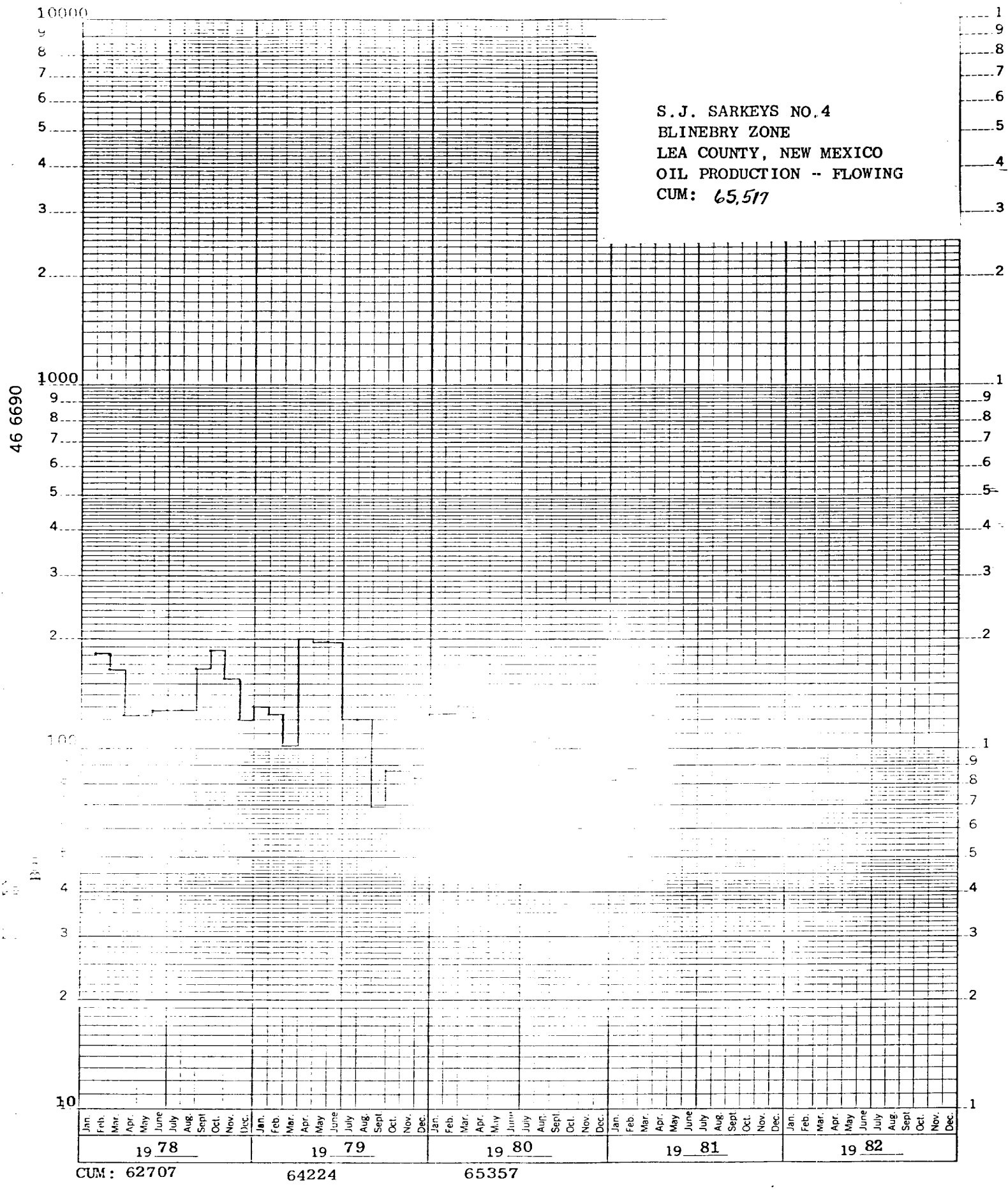
Susan M. Tedwell
(Signature)
Operations Engineer
May 26, 1981
(Date)

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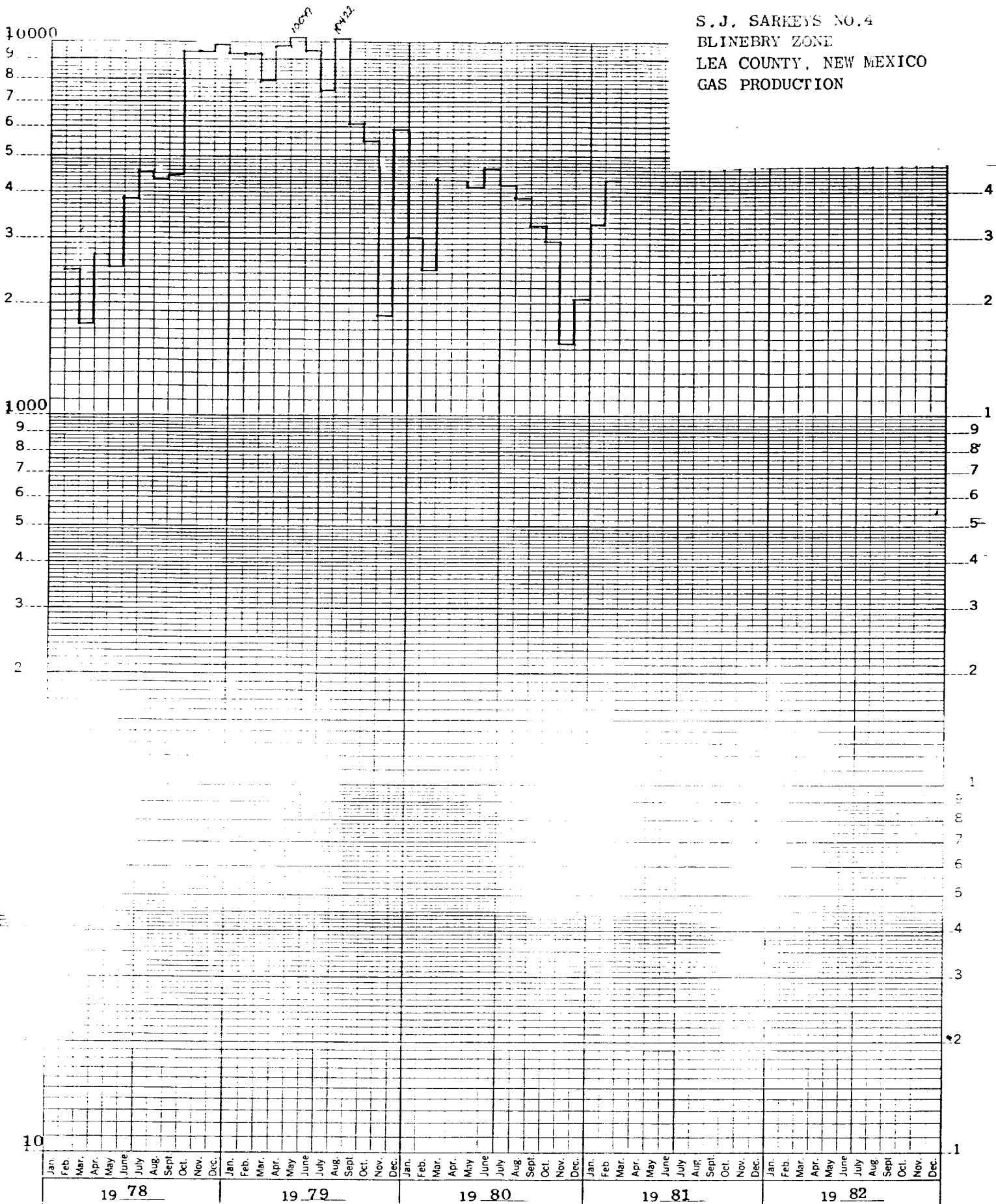
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46 6690



3 YEARS HY. MULTIS X 4 LOG CYCLES
KEUFFEL & ESSER CO. MANUFACT.

46 6690

BWPM

1000

100

S.J. SARKEYS NO.4
BLINEBRY ZONE
LEA COUNTY, NEW MEXICO
WATER PRODUCTION

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.																								
19 78												19 79												19 80												19 81												19 82											