

SUNRAY MID-CONTINENT OIL COMPANY

MAIN OFFICE 008

P. O. BOX 2039

TULSA 2, OKLAHOMA

R. E. FOSS, VICE PRESIDENT

R. W. GRIFFITH, ASST. TO THE VICE PRES.

M. S. PATTON, JR., MANAGER
ENGINEERING DIVISION

PRODUCTION DEPARTMENT

July 15, 1958

C. J. KERWIN, SUPERINTENDENT
OIL DIVISION

L. G. RODGERS, GENERAL MANAGER
GAS DIVISION

J. H. DOUMA, MANAGER
JOINT OPERATIONS DIVISION

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Attention: Mr. W. J. Cooley

Gentlemen:

Under separate cover are the following three sets of exhibits in Case No. 1308 concerning the 80-acre spacing hearing on the Bisti (Lower Gallup) Oil Pool, San Juan County, New Mexico, which you requested:

1. Sinclair's Exhibits 1 - 3 in the rehearing held December 18, 1957
2. Sunray's Exhibits 1 - 13 in the original hearing held September 18, 1957
3. Sunray's Exhibits 1 - 9 in the rehearing held December 18, 1957.

Very truly yours,

SUNRAY MID-CONTINENT OIL COMPANY

William R. Loar

William R. Loar
Chief Proration Engineer

JWS/at

cc: Sinclair Oil and Gas Company
P. O. Box 521
Tulsa, Oklahoma
Attn: Mr. J. H. McGowan



D-X SUNRAY OIL COMPANY IS A WHOLLY-OWNED REFINING & MARKETING SUBSIDIARY

ECONOMIC COMPARISON
40-ACRE VS. 80-ACRE SPACING
BISTI POOL, SAN JUAN, NEW MEXICO
LOWER GALLUP RESERVOIR

	<u>Well Spacing Density</u>	
	<u>40-Acres</u>	<u>80-Acres</u>
Original Oil in Place, (1)		
Gross Barrels Stock Tank Oil	210,000	420,000
Ultimate Recovery, (2)		
Gross Barrels Stock Tank Oil	44,000	88,000
Value of Net (7/8) Oil Recovered (3)	\$111,000	\$222,000
Investments		
Drill & Complete (4)	\$ 55,000	\$ 55,000
Surface Equipment (5)	21,000	21,000
Total	<u>\$ 76,000</u>	<u>\$ 76,000</u>
Operating Expense		
Lease & Well Costs (6)	\$ 30,800	\$ 61,600
Taxes (7)	6,830	13,660
Total	<u>\$ 37,630</u>	<u>\$ 75,260</u>
Non-Discounted Operating Profit (Loss)		
Before Salvage or Overhead	(\$ 2,630)	\$ 70,740
Present Worth Operating Profit (Loss) (8)		
Before Salvage or Overhead	(\$ 16,920)	\$ 33,050

(1) Volumetrically determined from isopach, core analysis, and fluid analysis.

(2) Calculated natural depletion; 21% of original stock tank oil in place.

(3) \$2.85/barrel.

(4) Clear for location, drill & complete a flowing well.

(5) Surface equipments:
 Artificial lift including rods, pump, prime mover, etc. \$10,000
 Flow line, proportionate share of battery, roads, etc. 11,000
 Total surface equipment \$21,000

(6) Estimated cost for life of property at 80¢/net barrel.

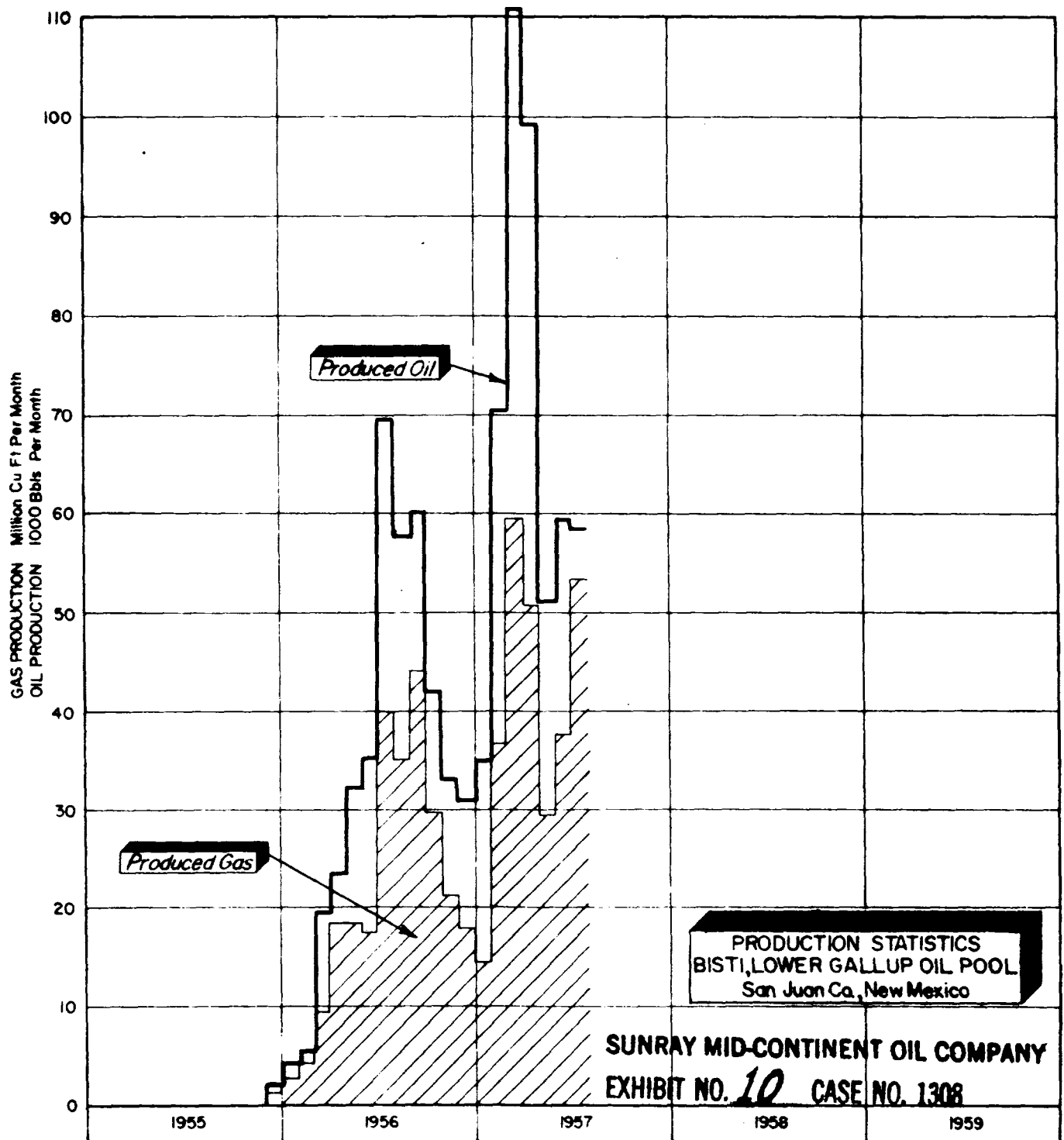
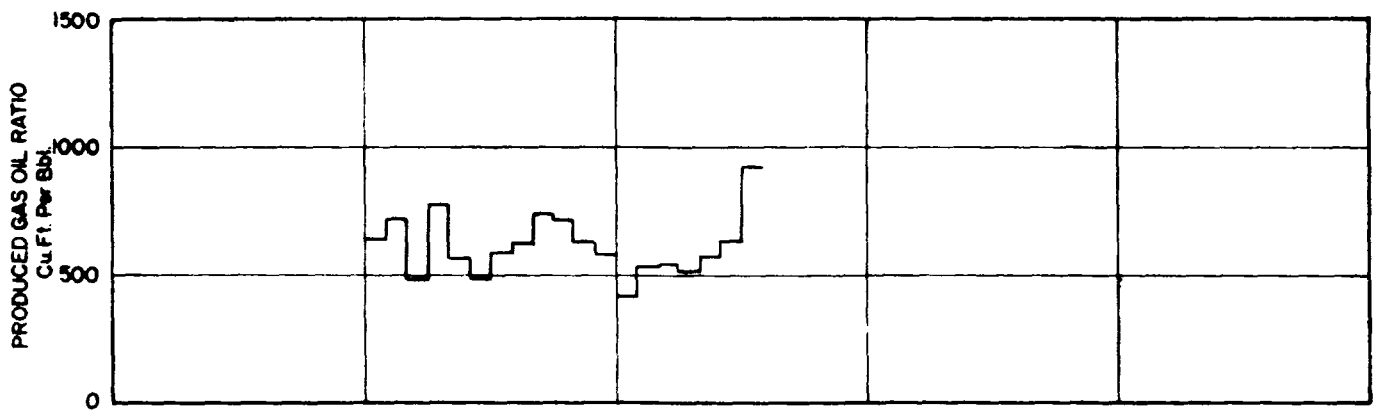
(7) New Mexico production tax:
 Severence 2.50% value
 Gross receipts 2.00%
 Conservation 0.14%
 Ad Valorem 1.50%
 6.14%

(8) Present worth compound interest factor @ 6%.

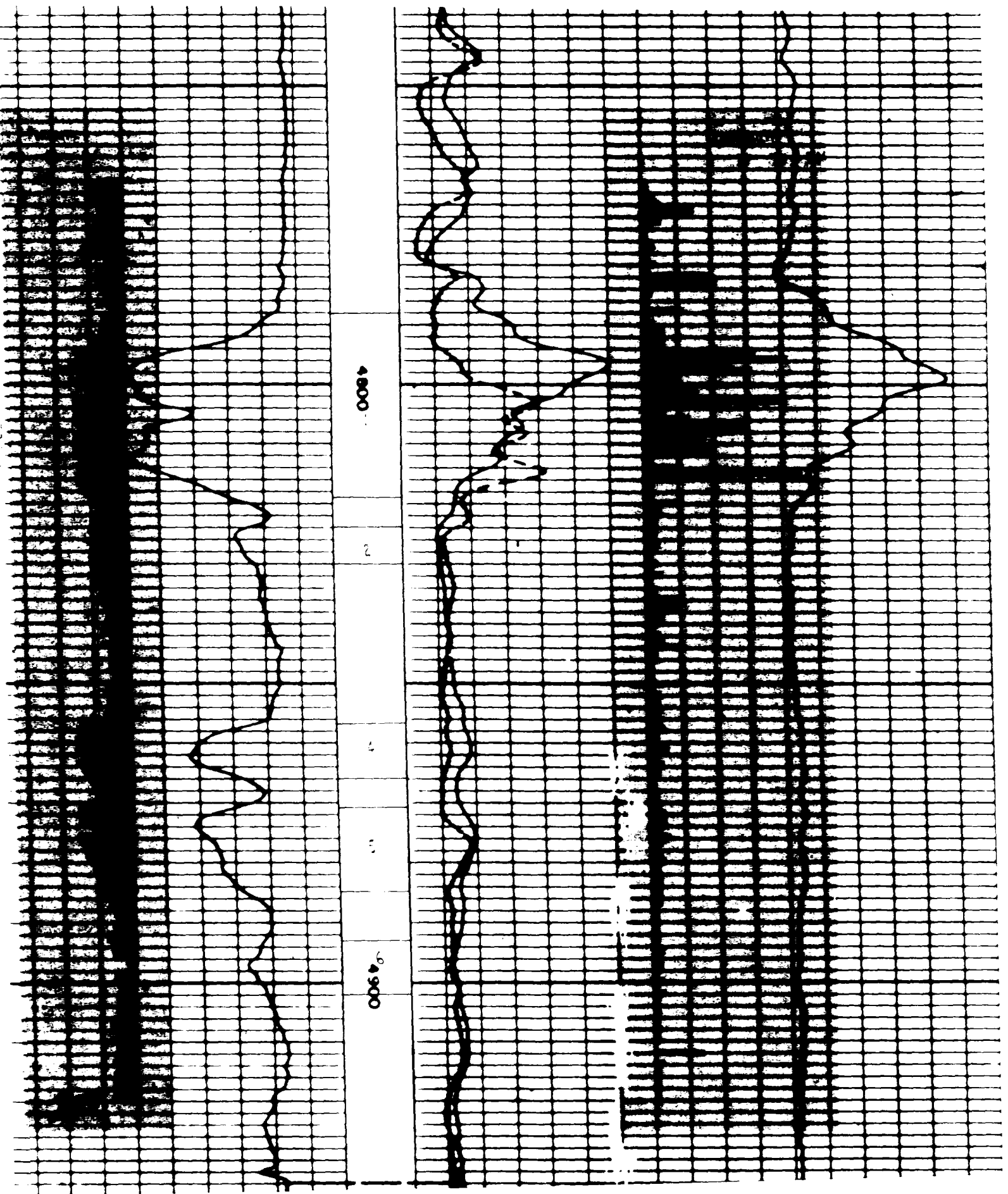
PRODUCTION STATISTICS **
BISTI (LOWER GALLUP) NEW MEXICO

Year and Month	Number of Wells Produced	Oil Prod. Bbls./Mo.	Cum. Oil Prod. Bbls.	Gas Prod.* Mcf/Mo.	Cum. Gas Prod. Mcf	AVG. GOR Ft./Bbl.
<u>1955</u>						
Dec.	1	2,319	2,319	1,280	1,280	
<u>1956</u>						
Jan.	2	4,493	6,812	2,918	4,198	649
Feb.	4	5,755	12,567	4,104	8,302	715
Mar.	5	19,519	32,086	9,355	17,657	479
Apr.	12	23,580	55,666	18,370	36,027	779
May	16	32,269	87,935	18,319	54,346	567
June	26	35,220	123,155	17,265	71,611	490
July	39	69,921	193,076	40,657	112,268	582
Aug.	49	57,883	250,959	35,805	148,073	619
Sept.	47	60,278	311,237	44,662	192,735	741
Oct.	45	42,032	353,269	29,788	222,523	709
Nov.	49	33,351	386,620	21,042	243,565	631
Dec.	51	31,205	417,825	17,820	261,385	571
<u>1957</u>						
Jan.	44	35,005	452,830	14,339	275,724	410
Feb.	50	70,885	523,715	36,911	312,635	521
Mar.	58	111,079	634,794	59,801	372,436	538
Apr.	60	99,377	734,171	50,863	423,299	512
May	67	51,180	785,351	29,223	452,522	571
June	79	59,666	845,017	37,660	490,182	631
July	81	58,670	903,687	53,078	543,260	926

* Gas production was estimated for producing oil wells which did not show a gas volume in the report.
** New Mexico Oil and Gas Engineering Committee Monthly Engineering Reports.



Phillips Petroleum Company
Benally #2
Section 5-25N-12W

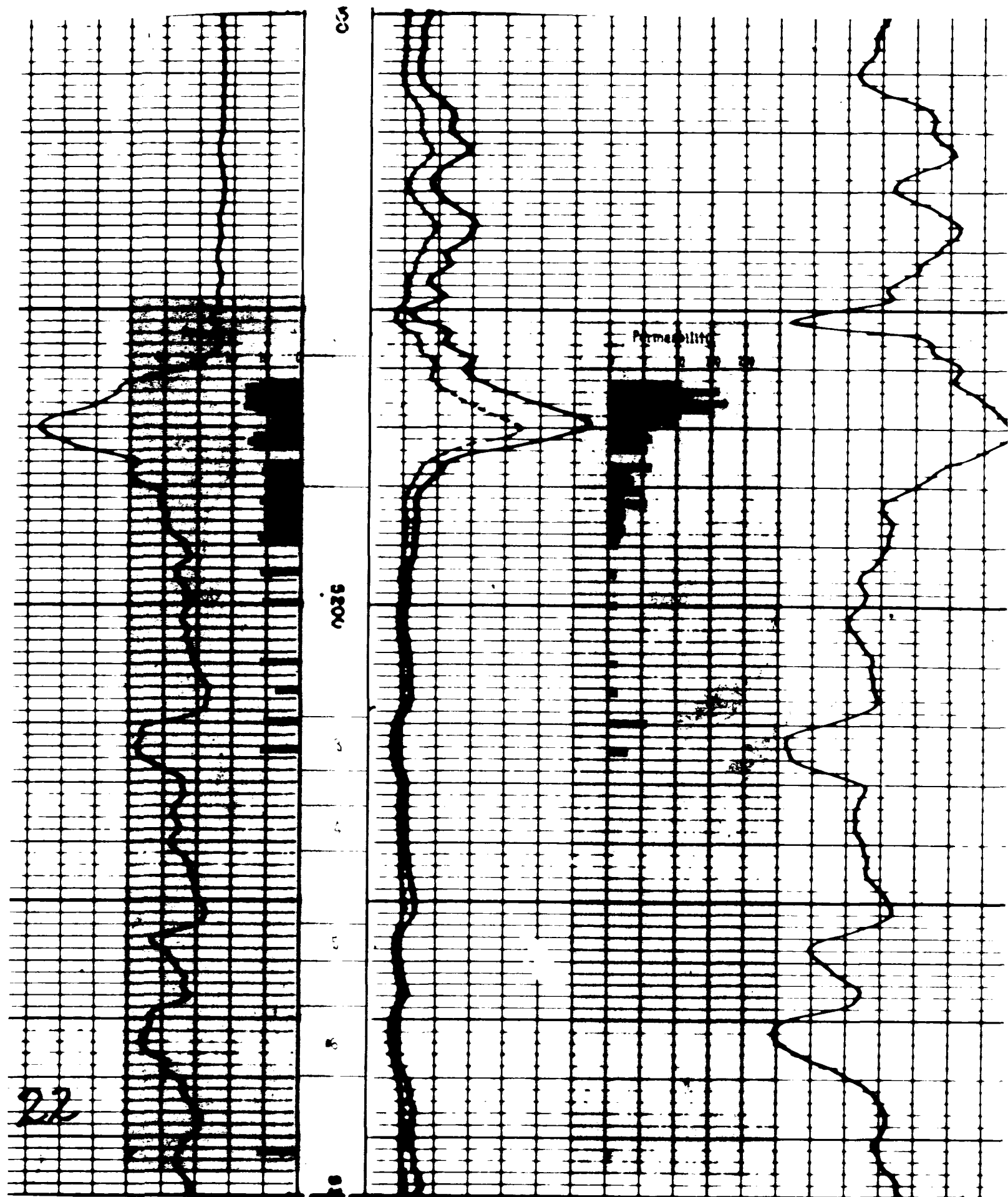


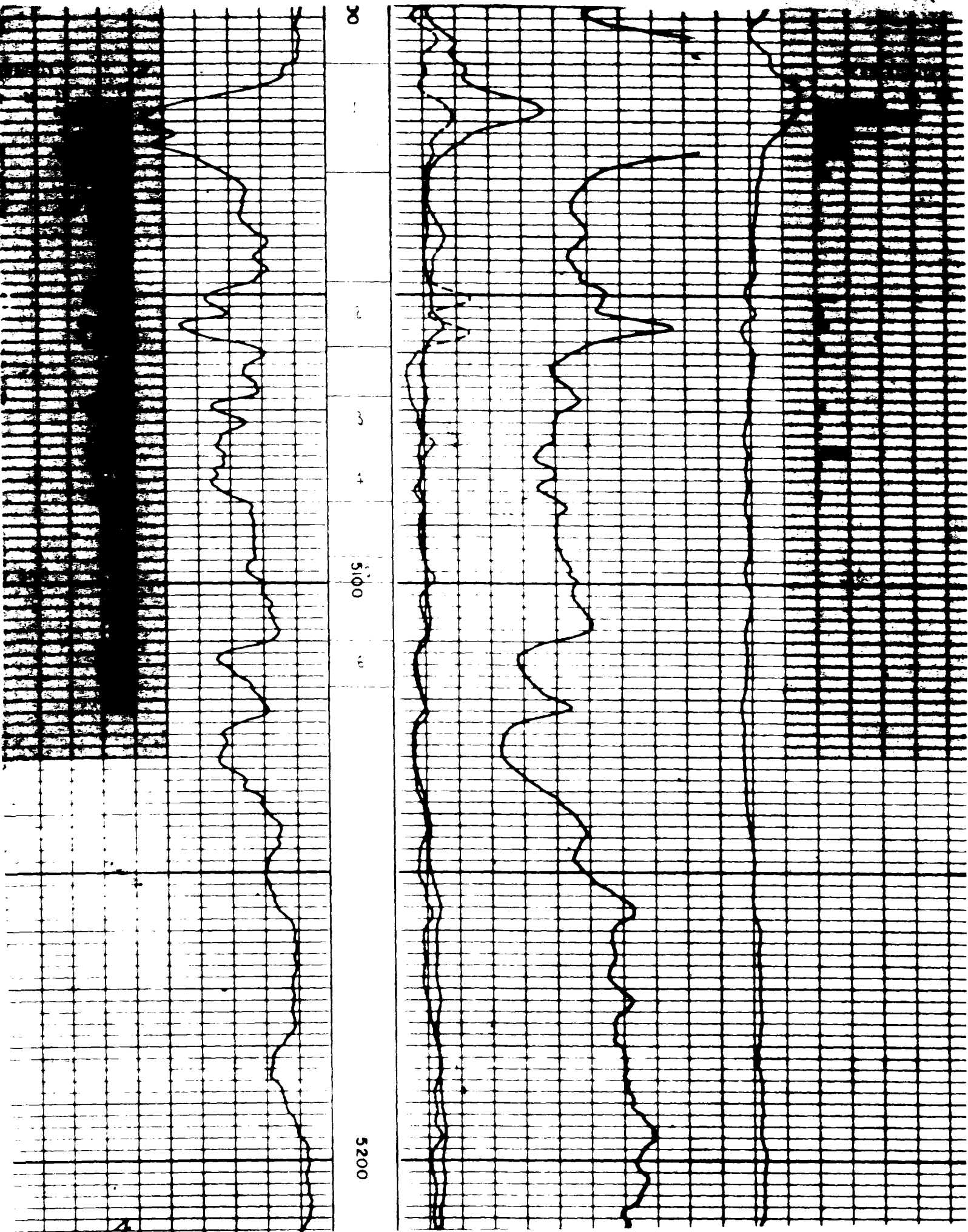
SUNRAY MID-CONTINENT OIL COMPANY
EXHIBIT NO. // CASE NO. 1308

Amerada Petroleum Corporation
Joan White #2
Section 9-25N-12W



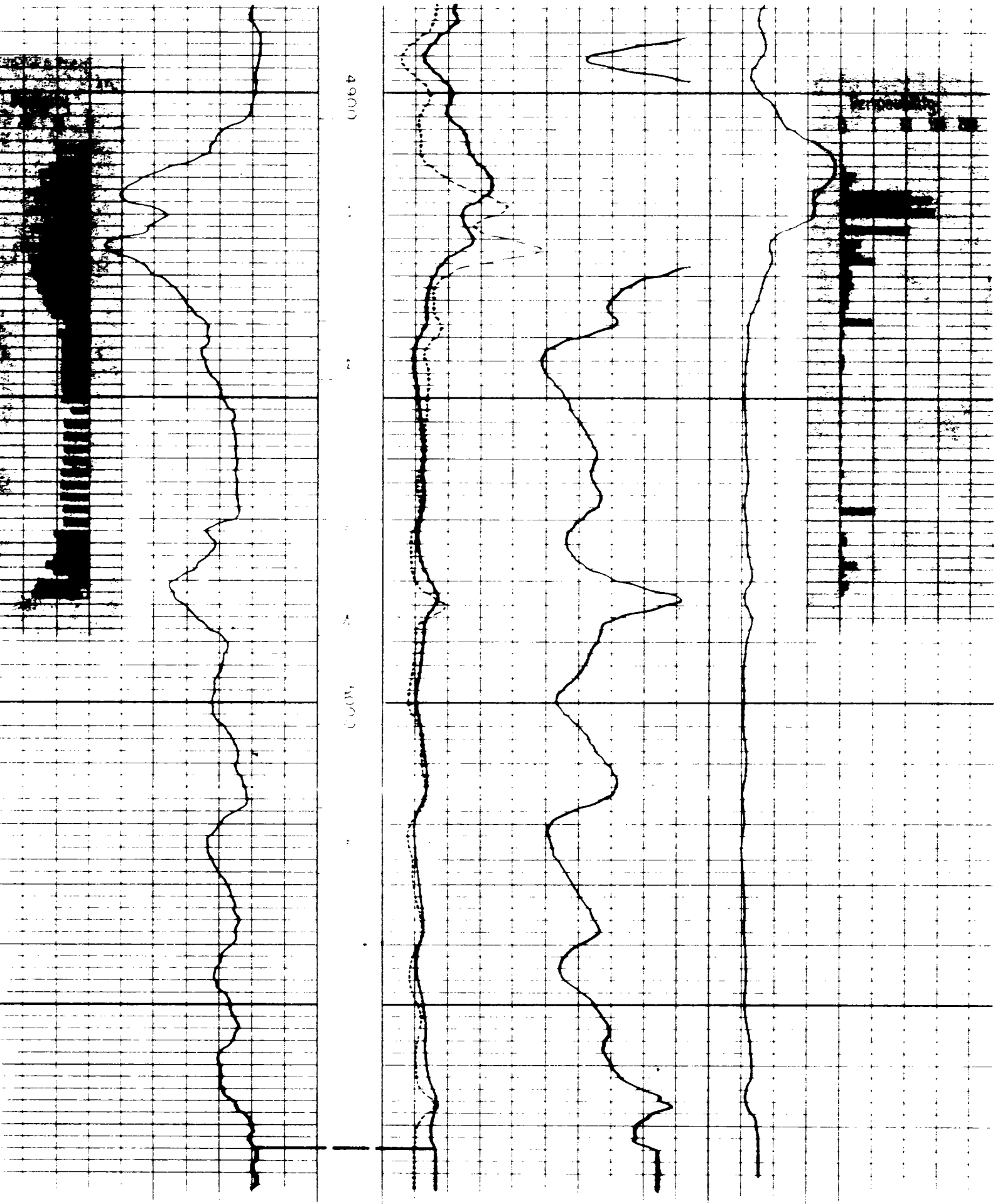
Douthitt #11
Section 29-26N-13W



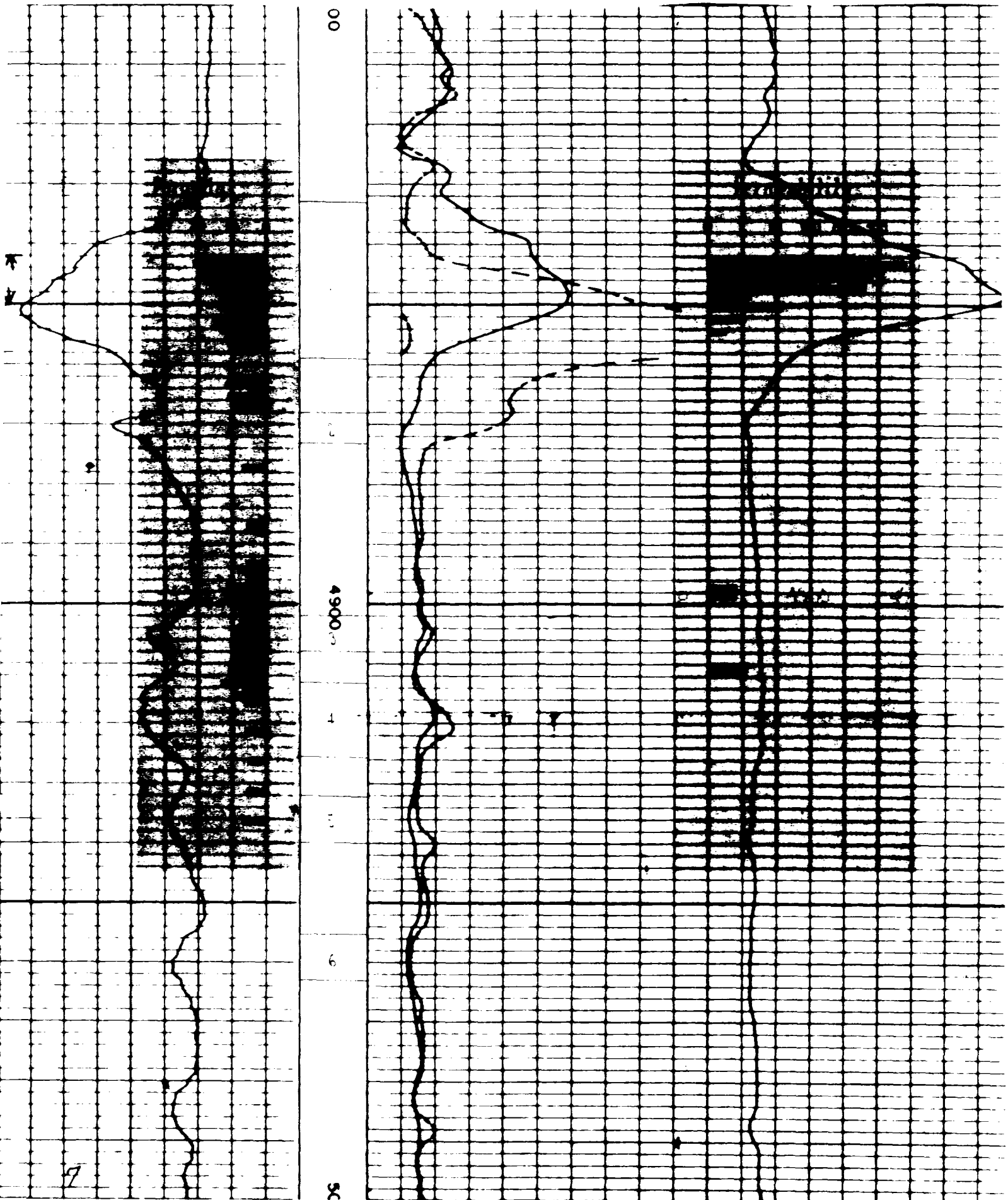




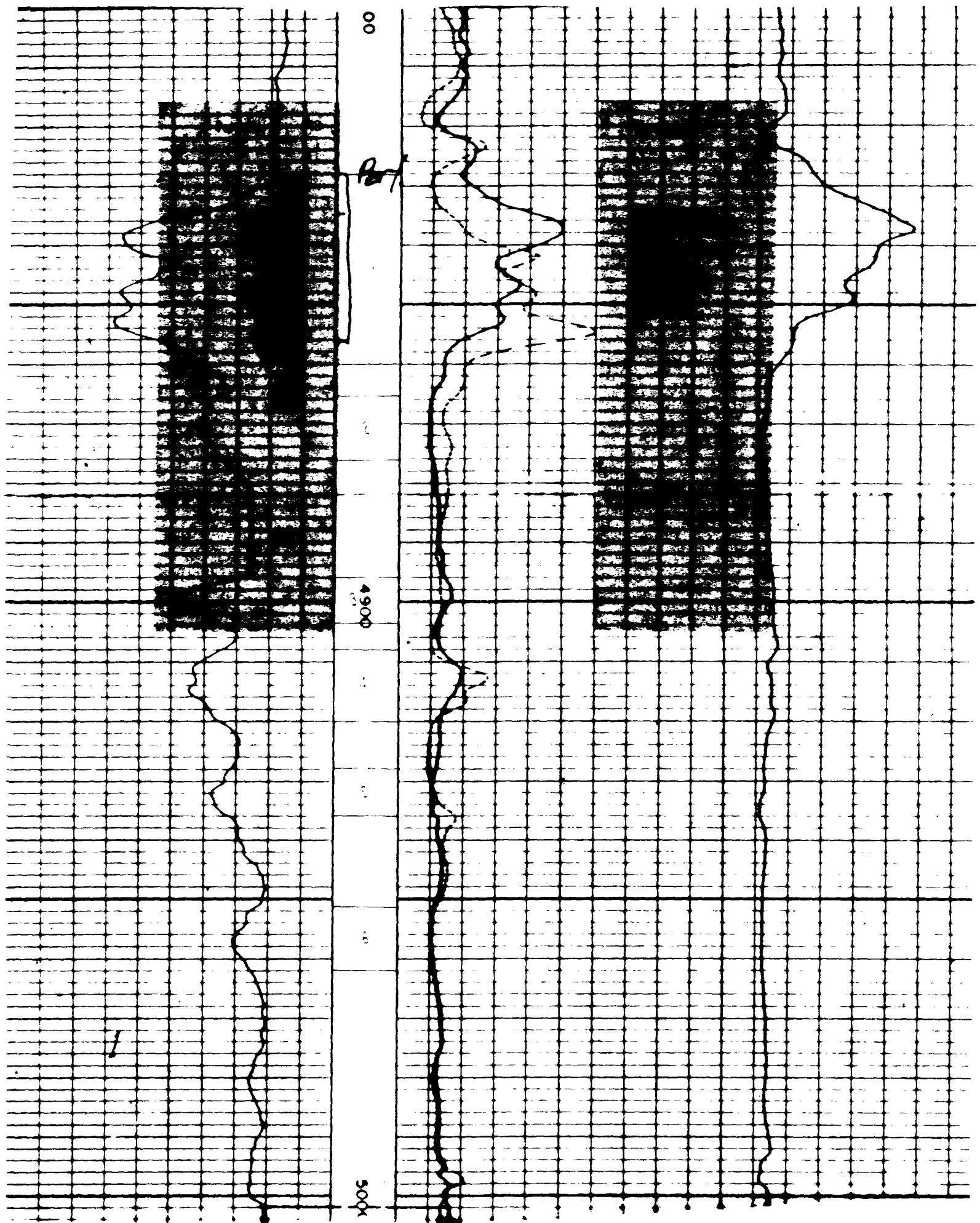
British American Oil Producing Company
Marye B-1
Section 35-26N-13W

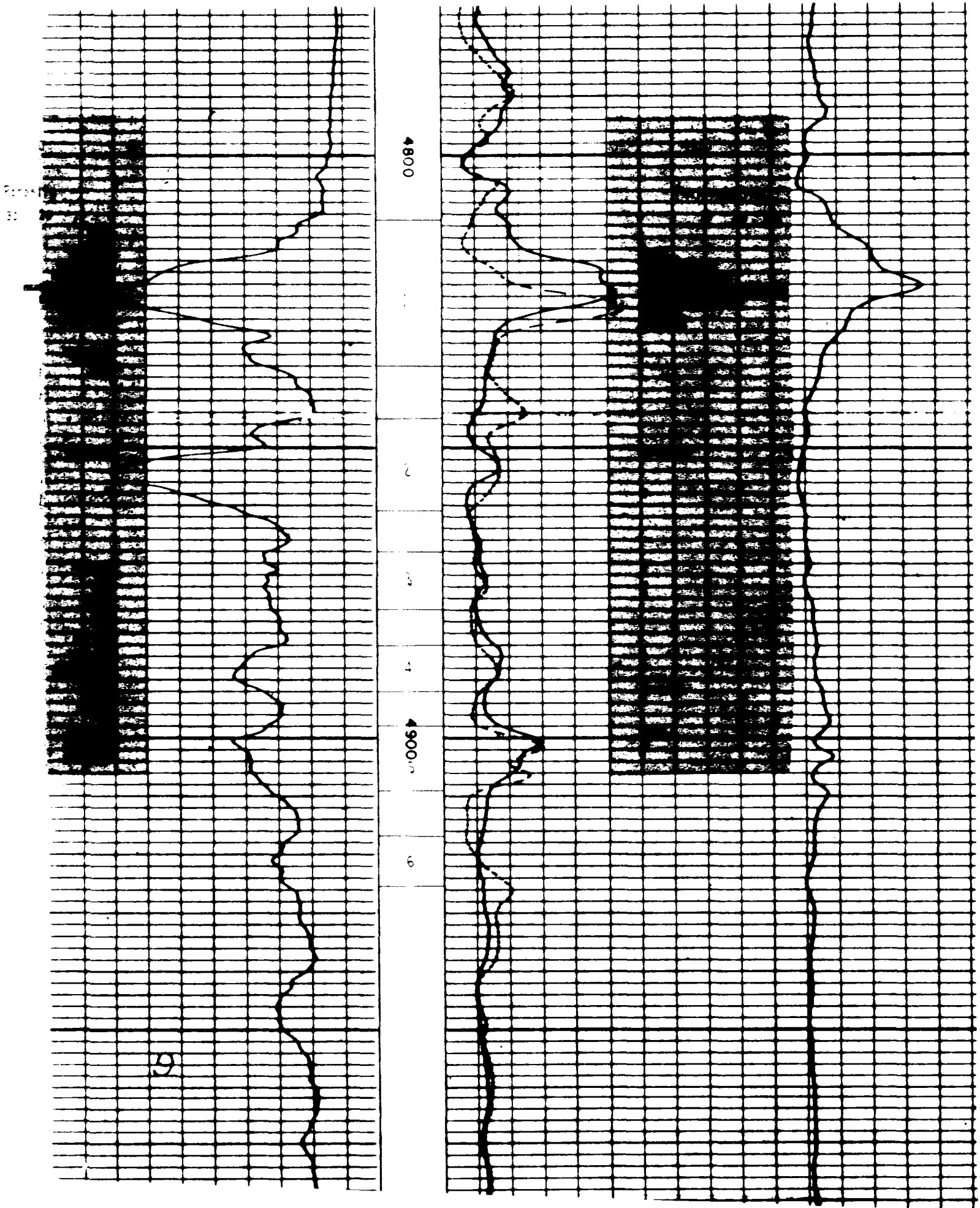


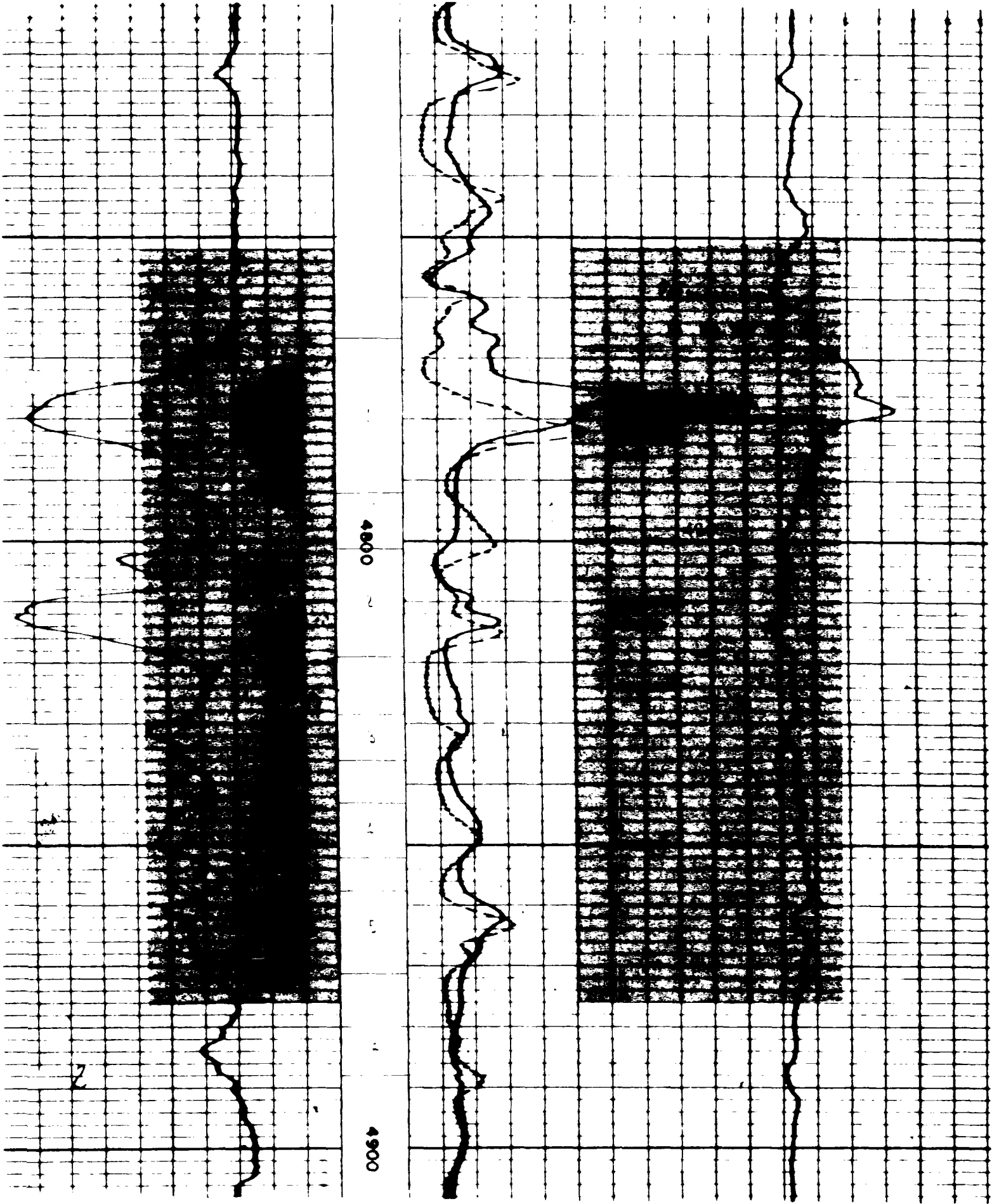
British-American Oil Producing Company
Mayre #1
Section 1-25N-13W



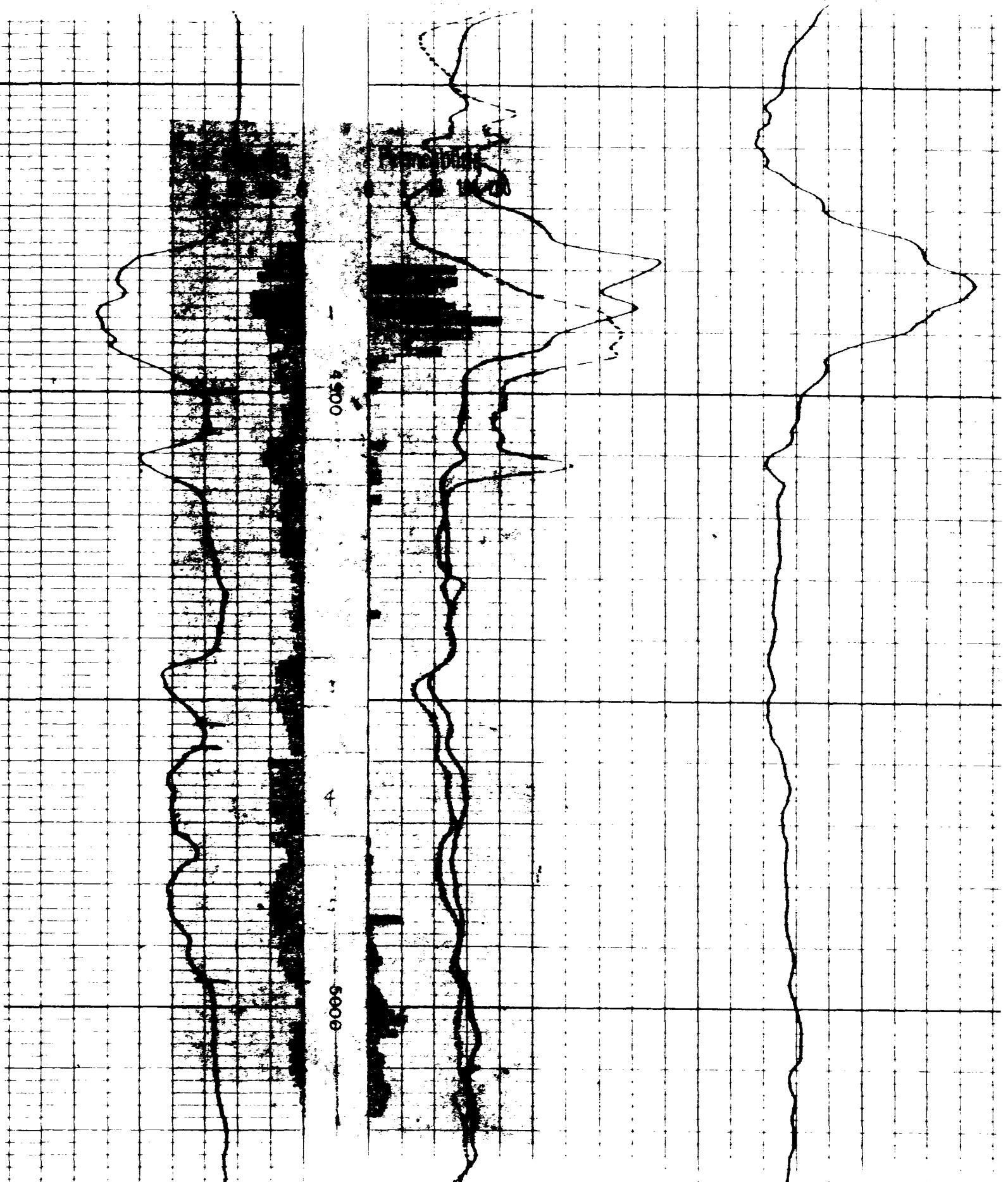
Sunray Mid-Continent Oil Company
Federal C-#1
Section 6-25N-12W



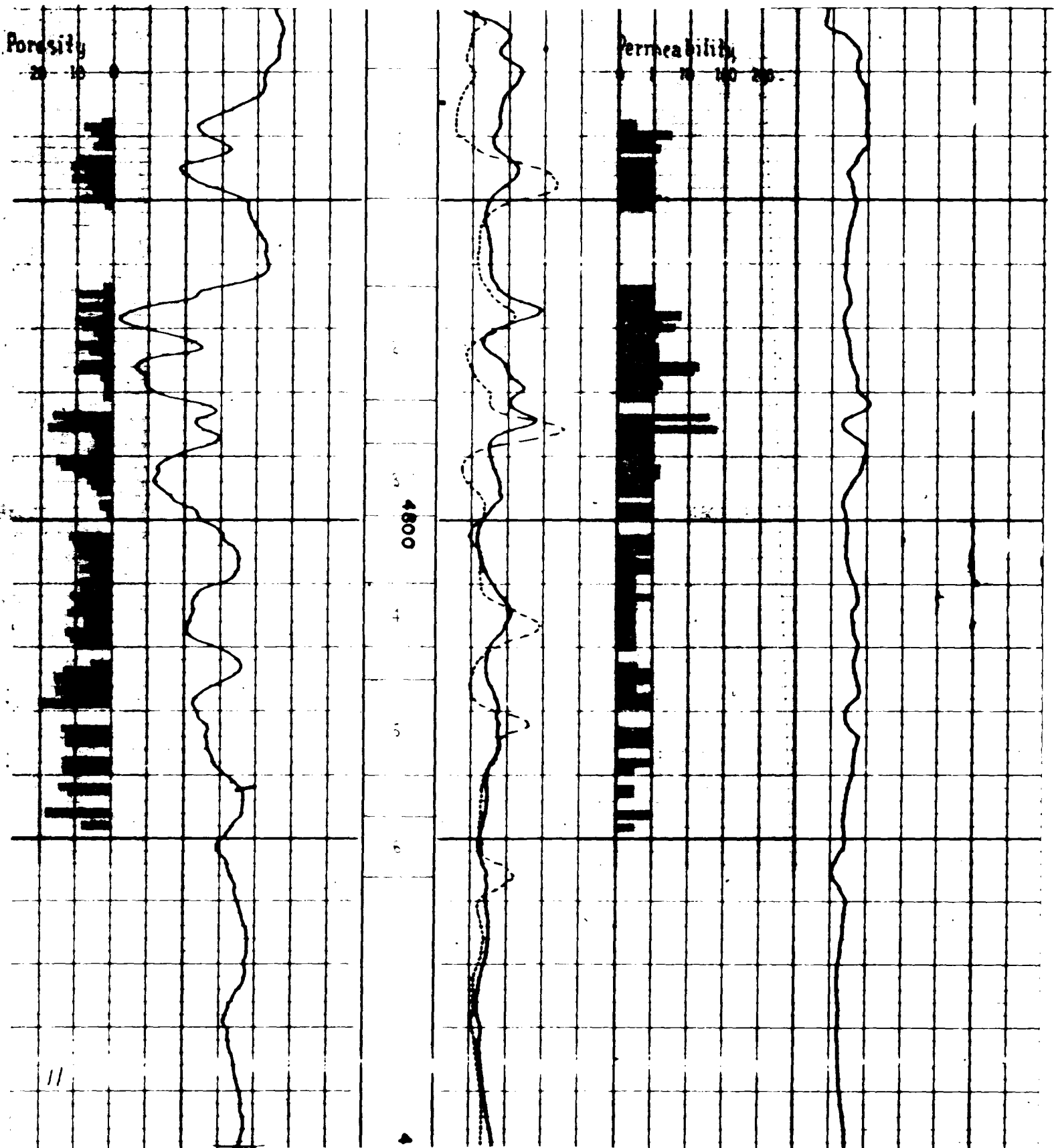




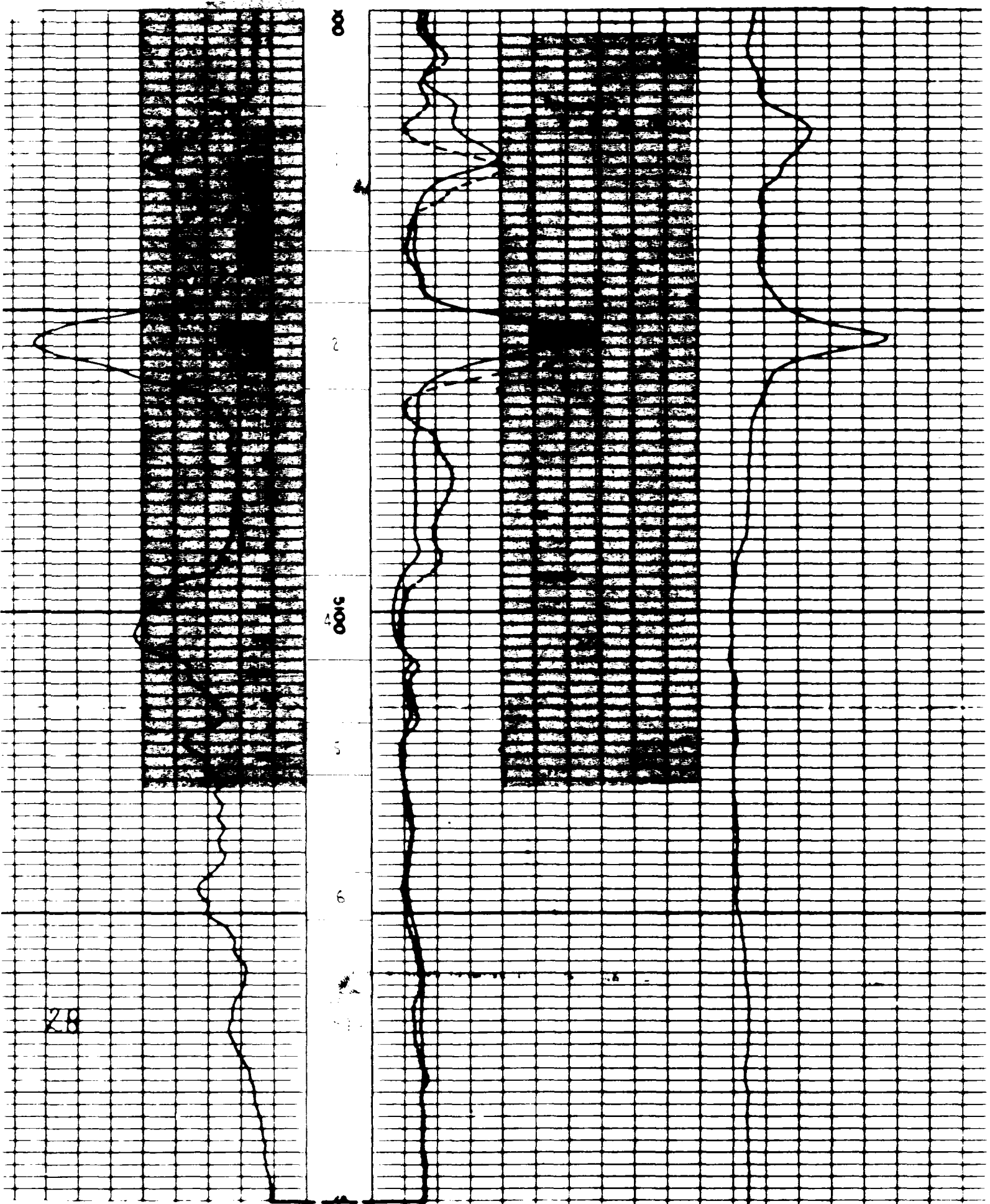
Shell Oil Company
Carson #1
Section 24-25N-12W



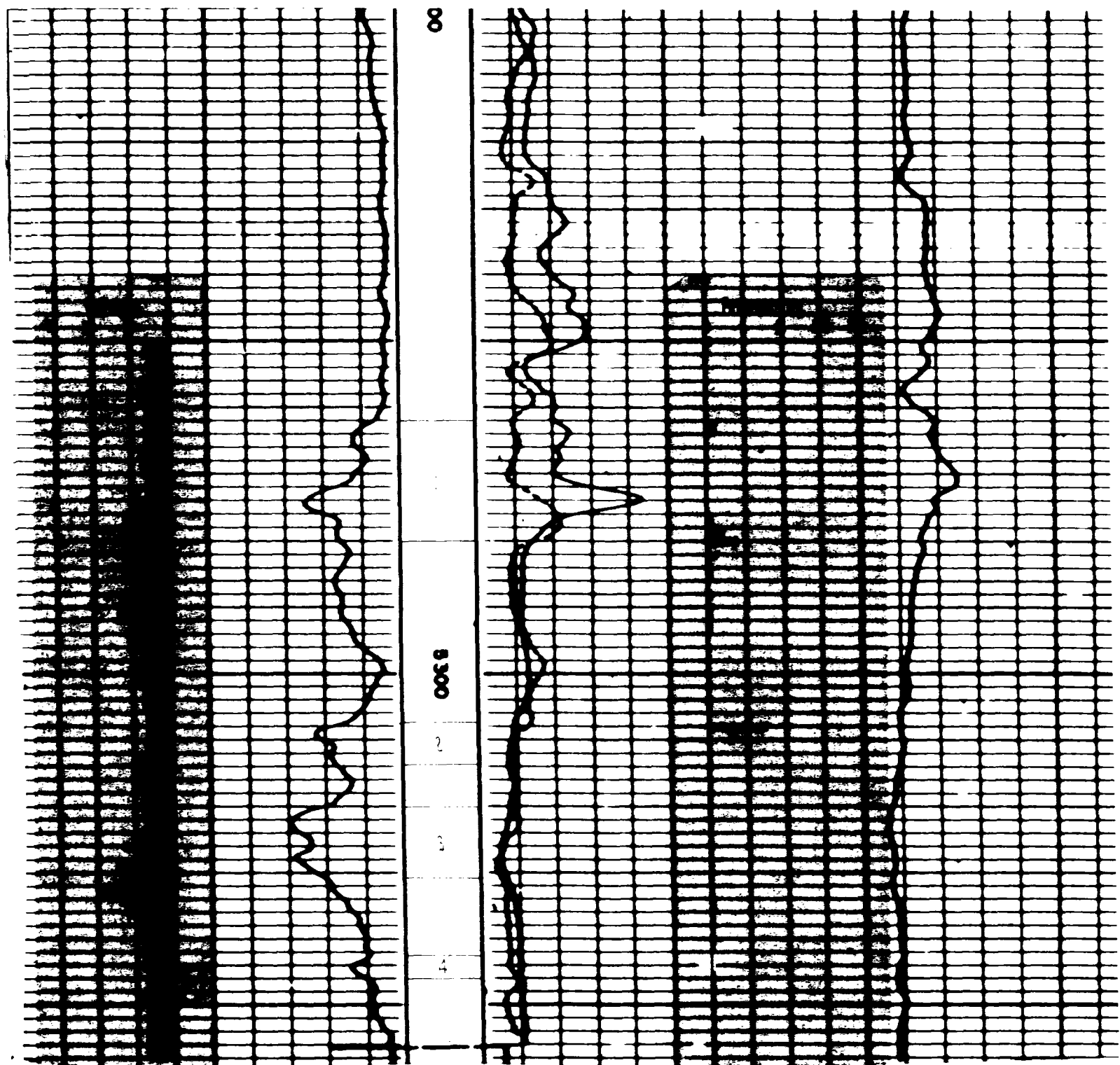
El Paso Natural Gas Products Company
Kelly State #1
Section 16-25N-12W



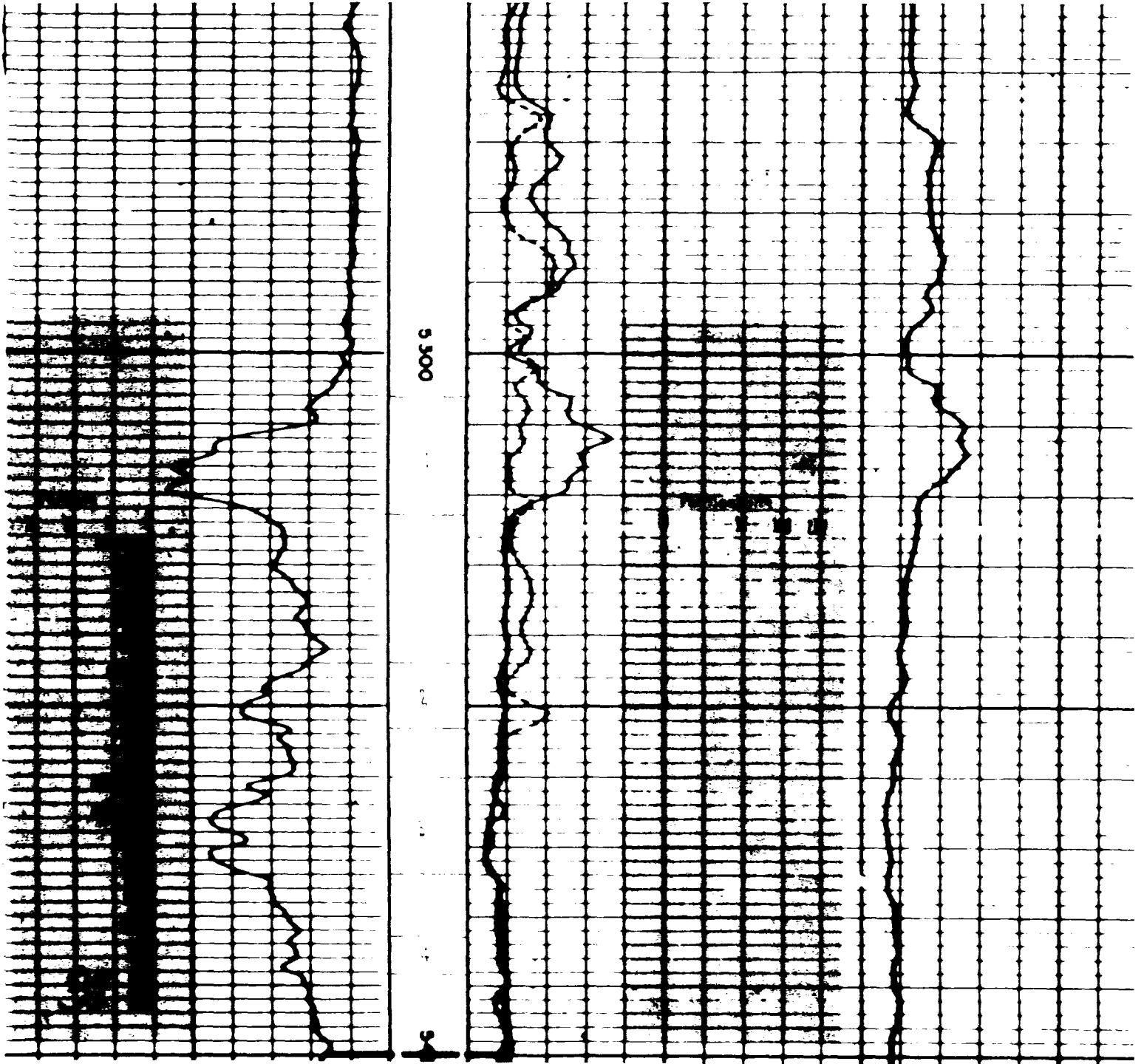
Anders
Harold
Section



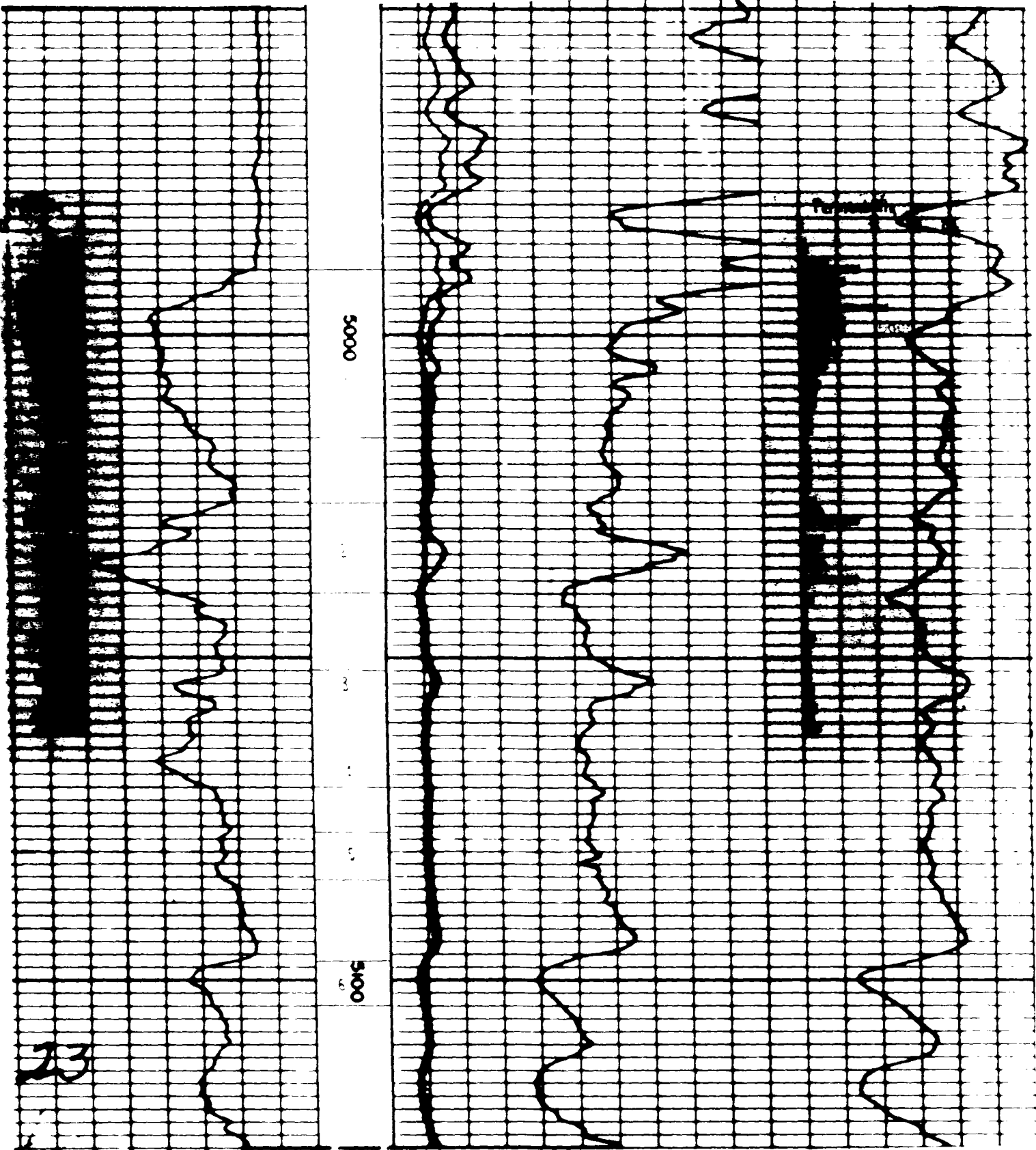
C.M.&W. Drilling Company Inc.
Elliott #2
Section 30-26N-13W



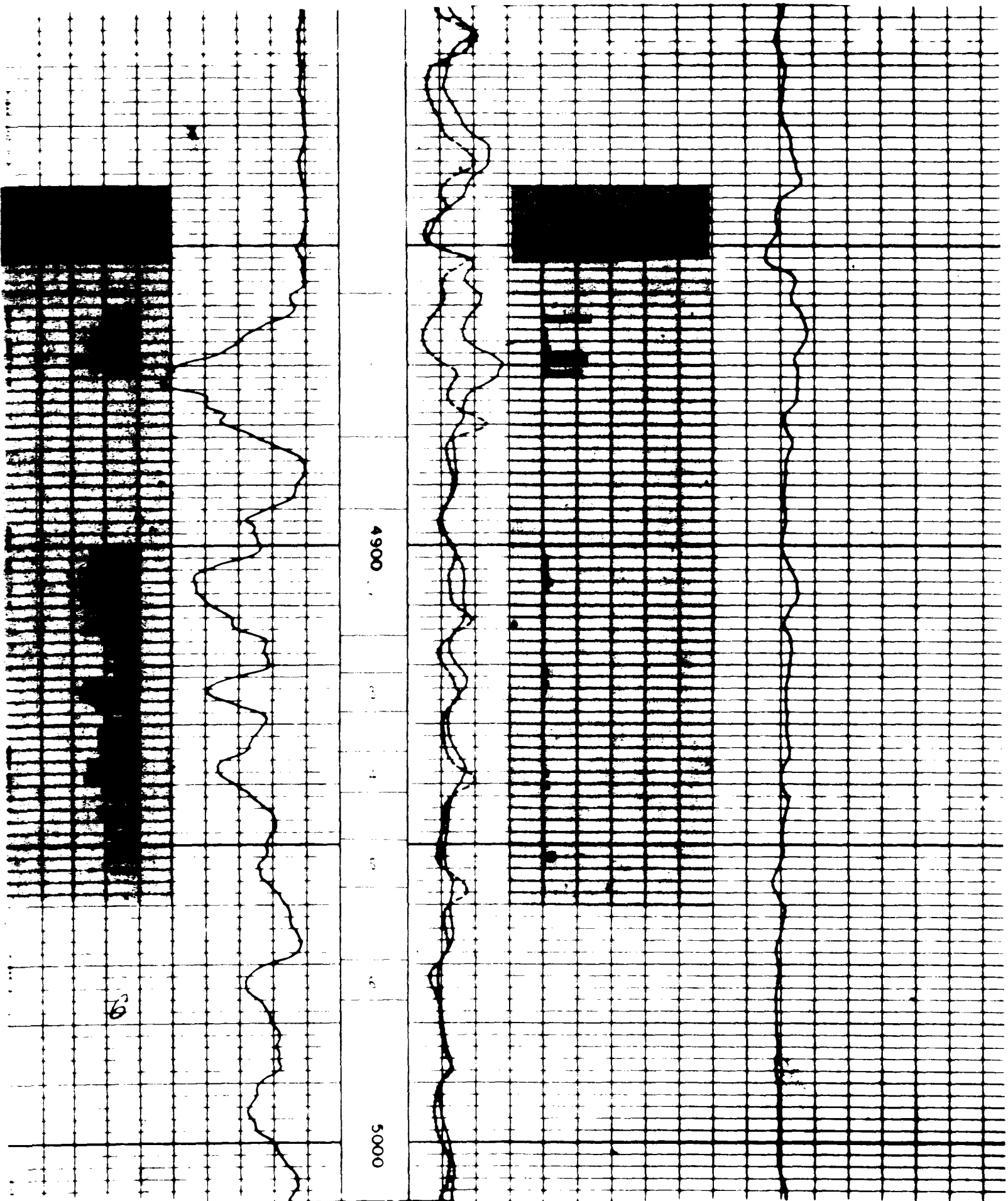
C.M.&W. Drilling Company, Inc.
Elliott #1
Section 30-26N-13W



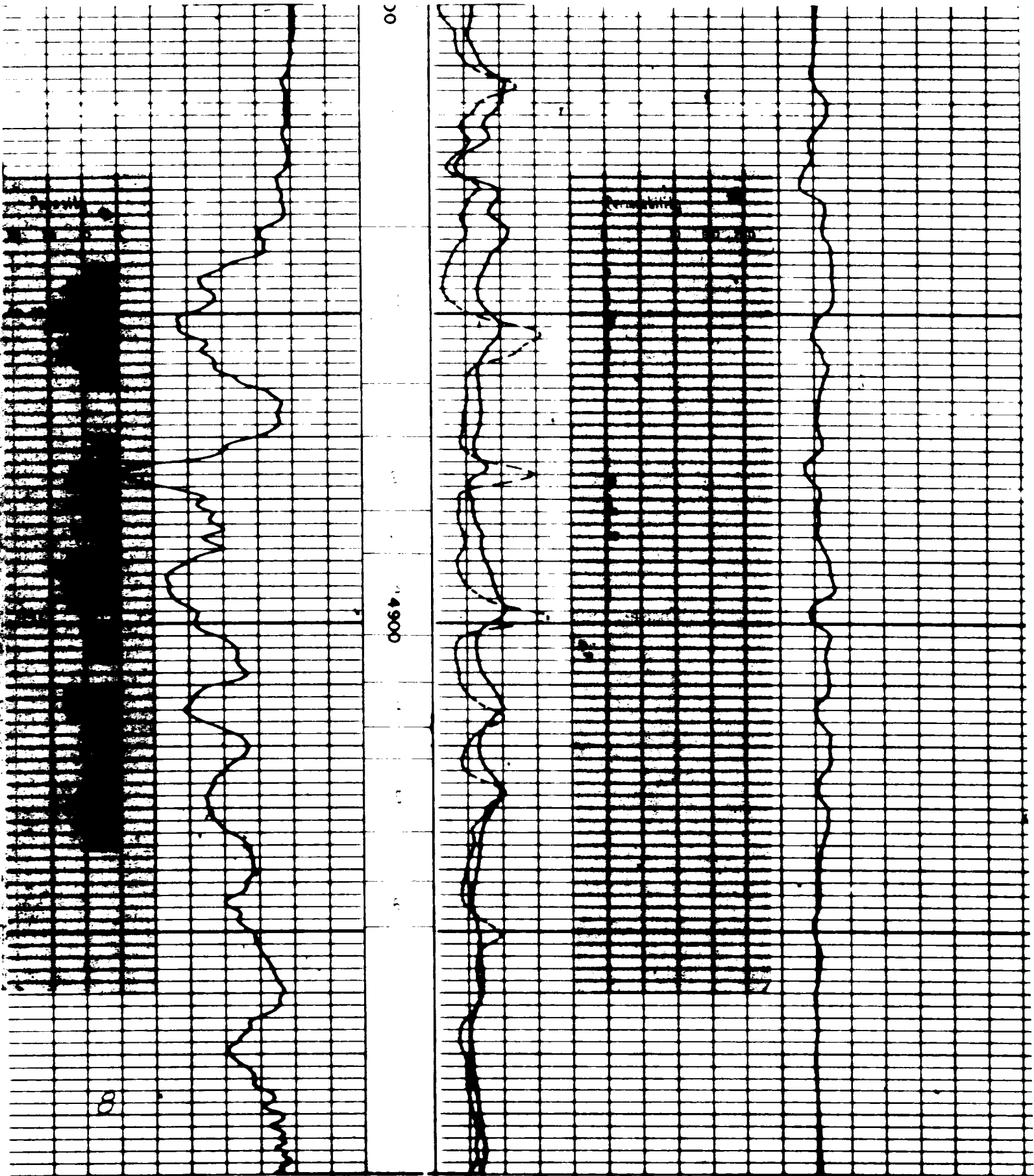
British-American Oil Prod. Co.
Salge B-5
Section 33-26N-13W



El Paso Natural Gas Products Company
Kelly State #11
Section 2-25N-13W

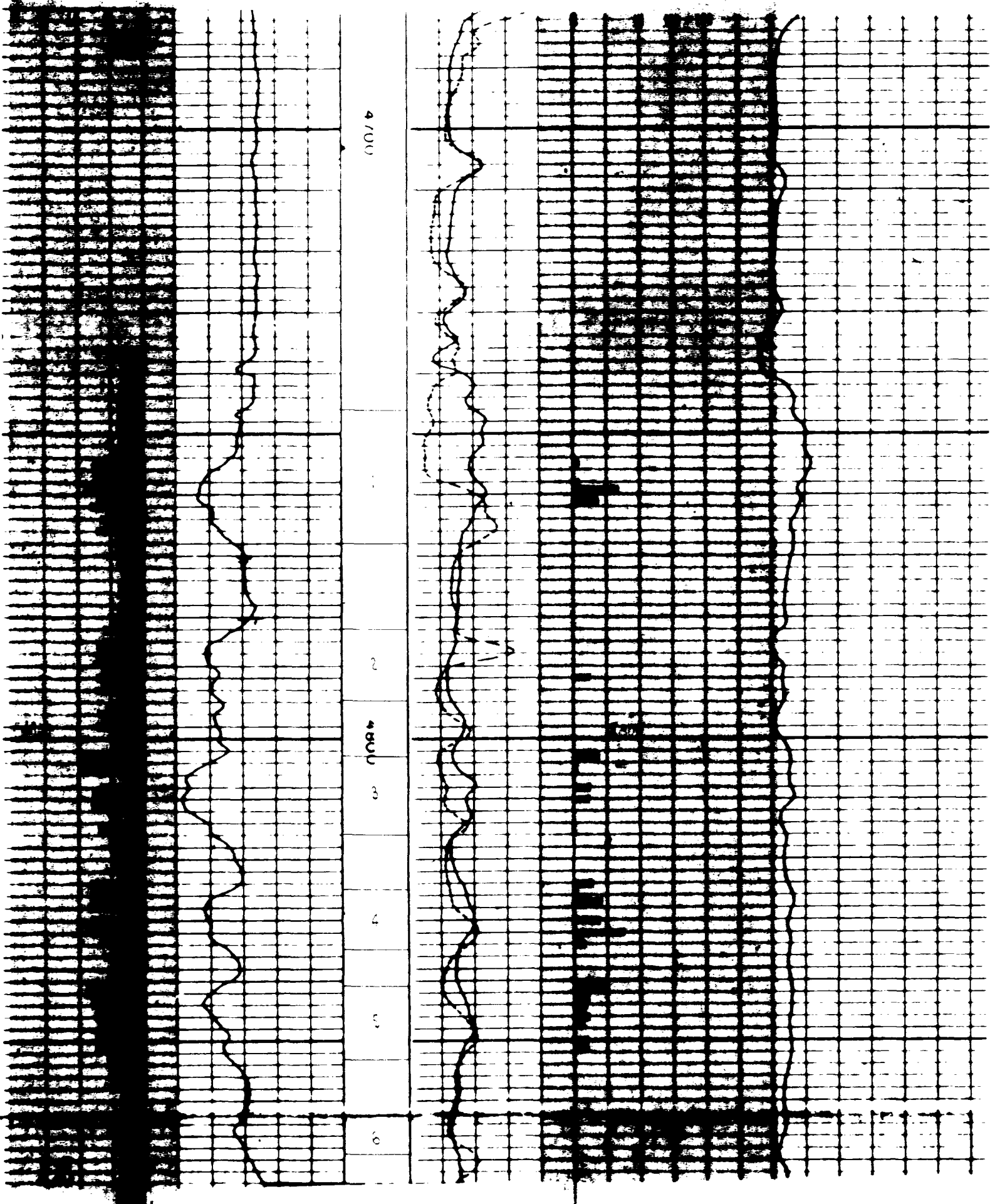


Sunray Mid-Continent Oil Company
Federal C-18
Section 7-25N-12W

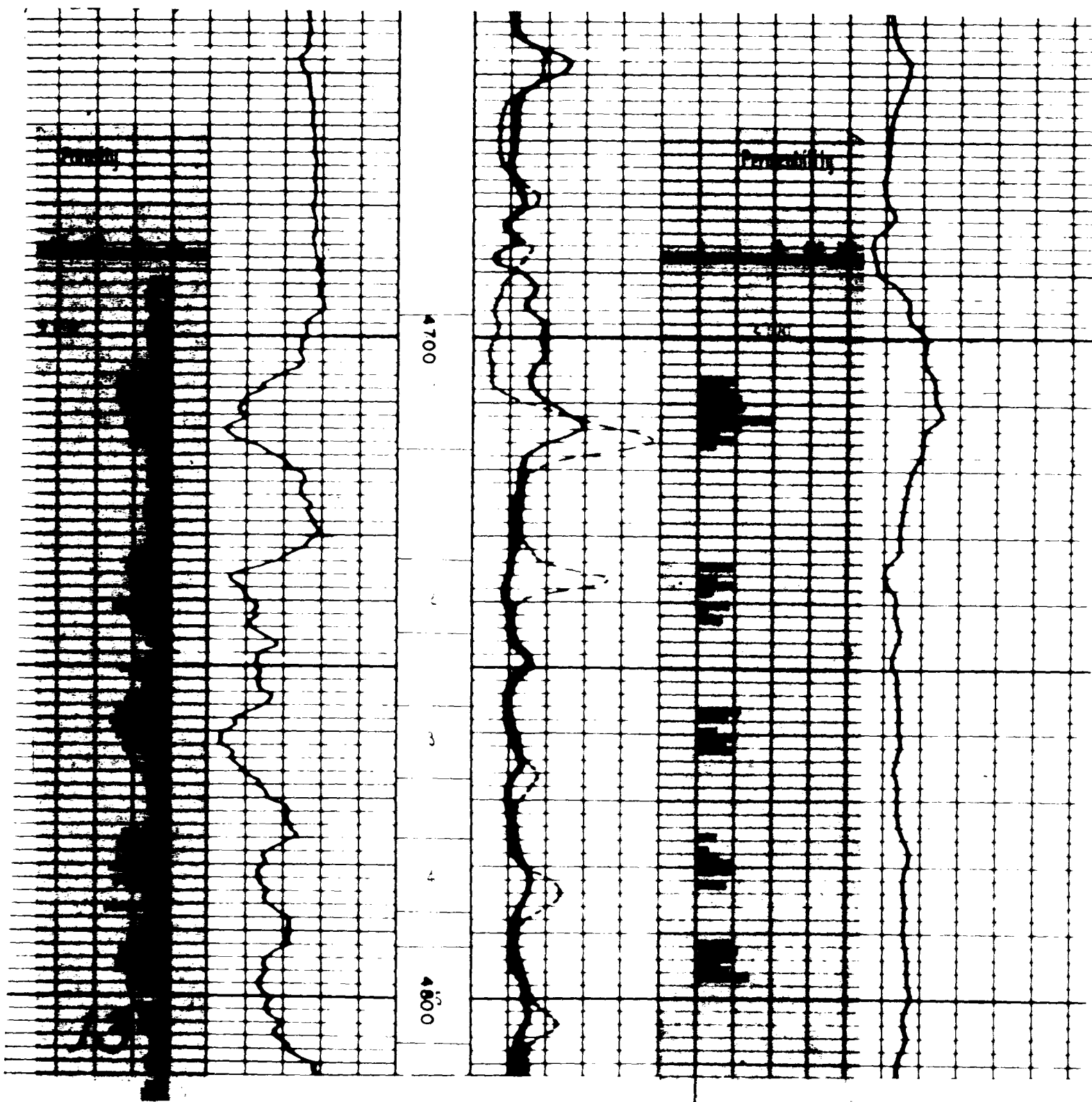


Porosity

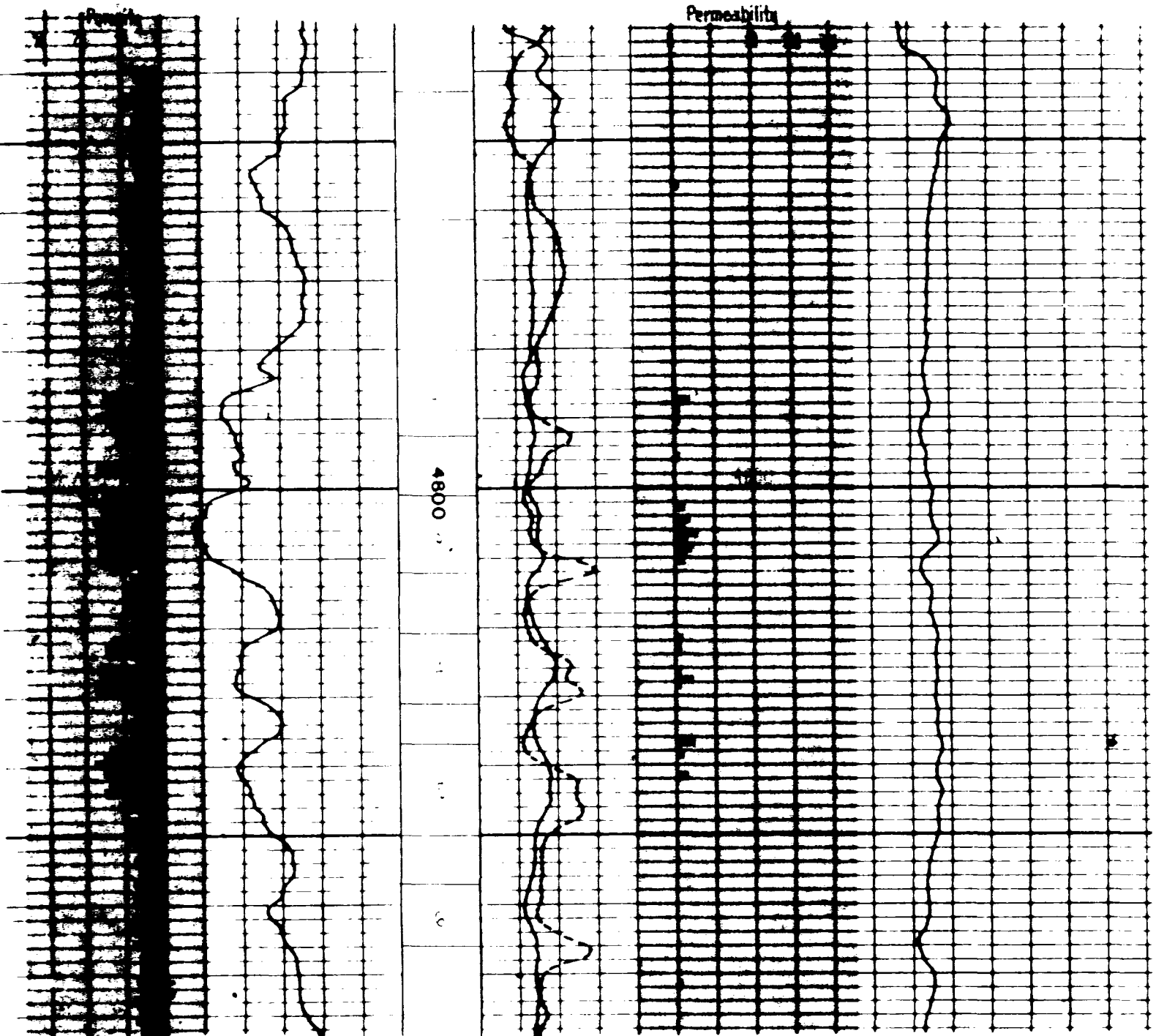
Permeability



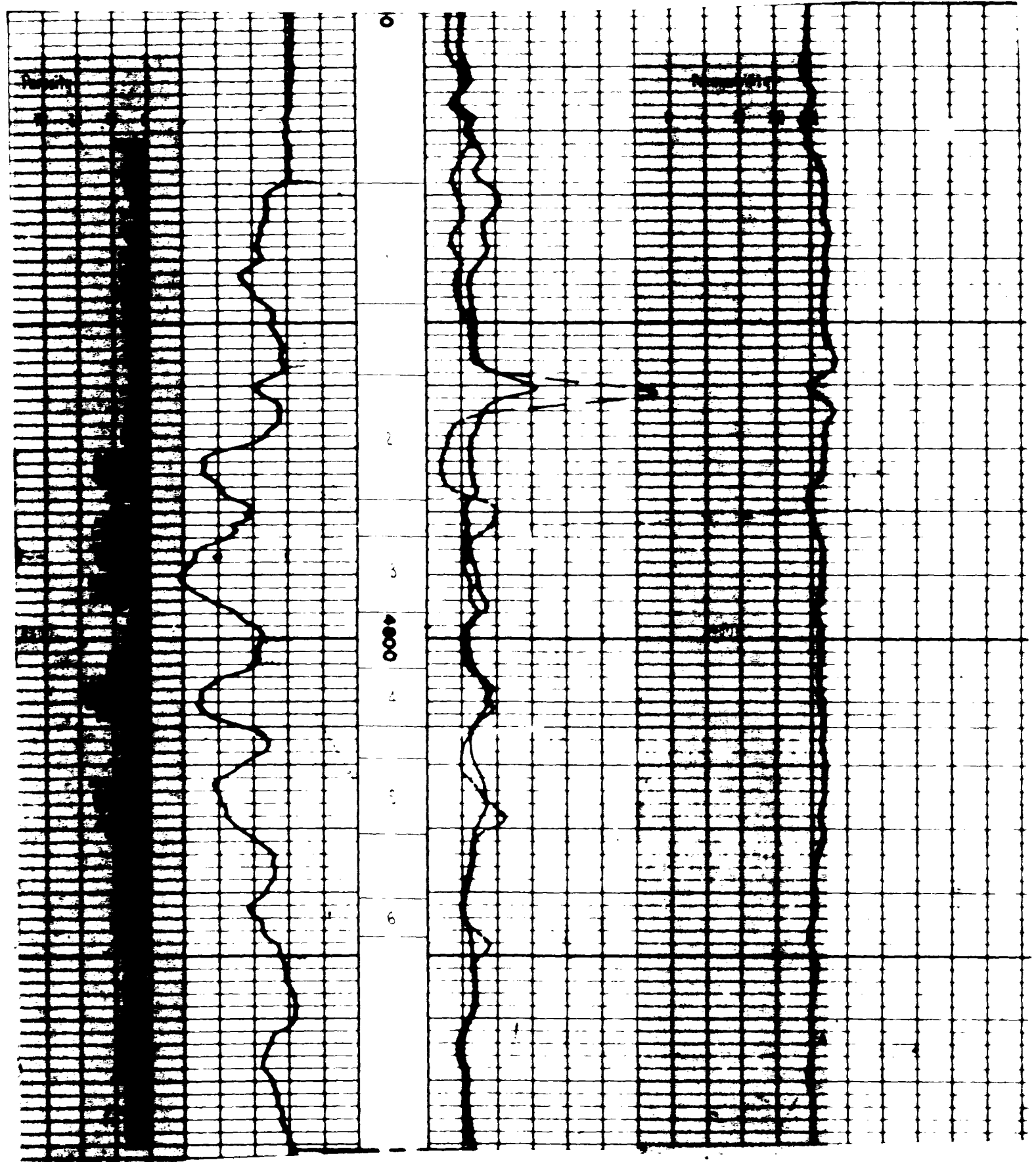
El Paso Natural Gas Products Company
Kelly State #3
Section 16-25N-12W



El Paso Natural Gas Products Company
Kelly State #4
Section 16-25N-12W



El Paso Natural Gas Products Company
Kelly State #7
Section 16-25N-12W

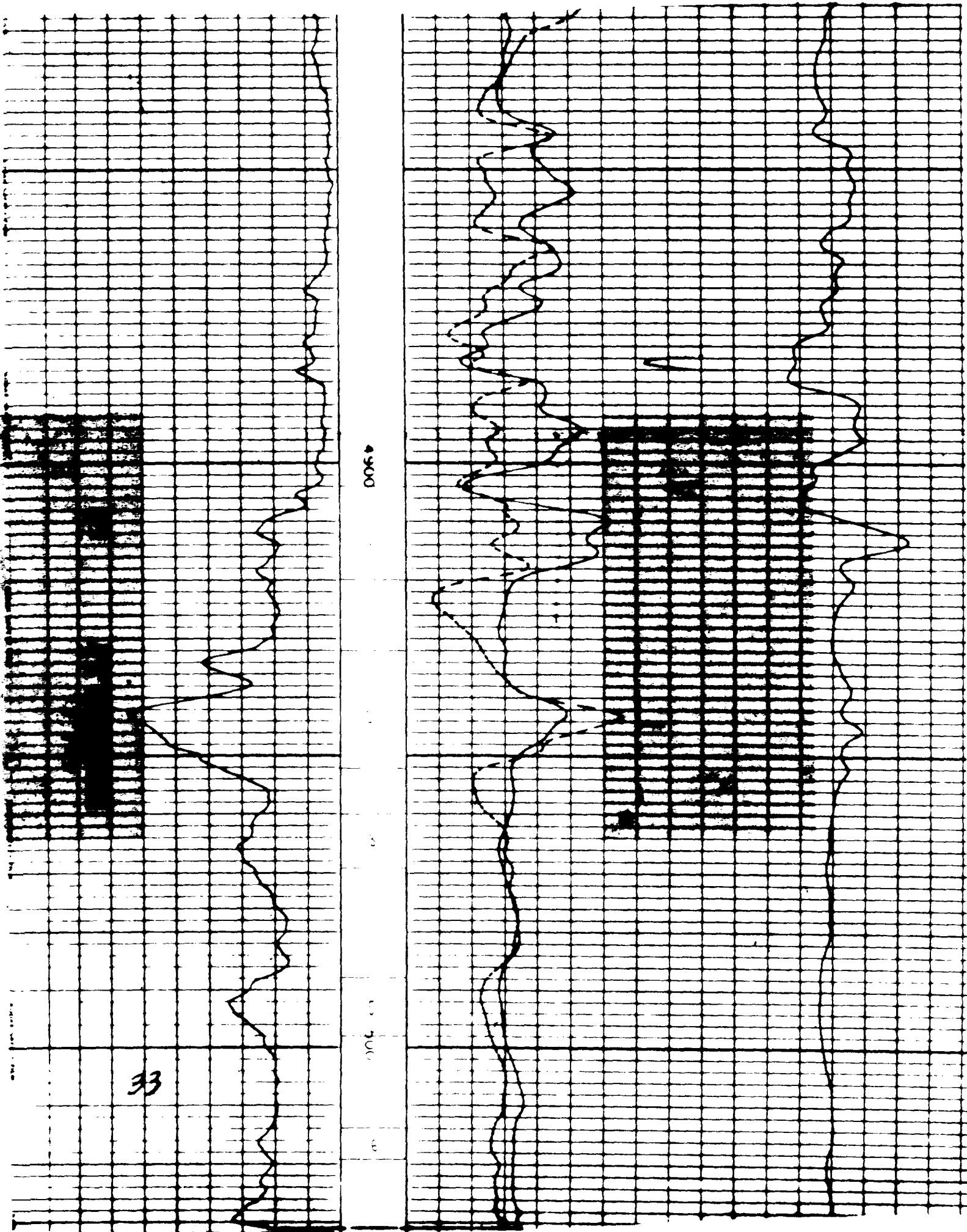


F. R. Anderson Petroleum Company
Federal 21-29
Section 29-25N-12W



Amerasia Petroleum Corporation
Elc-la-Nup-Pah #2
Section 5-25-12W





El Paso Natural Gas Products Company
Kelly State #6
Section 16-25N-12W

