

# OILFIELD RESEARCH LABORATORIES

618 EAST SIXTH  
OKMULSEE, OKLAHOMA  
PHONE 1486

REGISTERED ENGINEERS  
Chanute, Kansas

536 N. HIGHLAND  
CHANUTE, KANSAS  
PHONE 728

February 23, 1959

Home-Stake Production Company  
Philtower Building  
Tulsa 3, Oklahoma

Attn: Mr. Dave Davies

Gentlemen:

Enclosed herewith are the results of tests run on the 2 11/16" Rotary core taken from the Fooshee Lease, Garnett Extension, Well No. W-3, Anderson County, Kansas, and submitted to our laboratory on February 16, 1959.

This core was sampled and the samples sealed in cans by a representative of our laboratory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

*Carl L. McElrea*  
Carl L. McElrea

CLM:cs

1 c. to Mr. C. W. Stumhoffer

4-21-19E  
Fooshee W-3





## OILFIELD RESEARCH LABORATORIES

LOGCompany Home-Stake Production Co. Lease Fooshee Well No. W-3Depth Interval, Description  
Feet

775.0 - 775.5 - Coal.  
775.5 - 788.0 - Shale.  
788.0 - 789.0 - Laminated shale and coal.  
789.0 - 790.7 - Sandy shale.  
790.7 - 792.5 - Light brown shaley sandstone.  
792.5 - 794.4 - Laminated sandstone and shale.  
794.4 - 798.3 - Brown shaley sandstone.  
798.3 - 801.6 - Laminated sandstone and shale.  
801.6 - 803.5 - Brown shaley sandstone.  
803.5 - 805.0 - Brown laminated shaley sandstone.  
805.0 - 810.0 - Laminated sandstone and shale.  
810.0 - 811.0 - Loss.  
811.0 - 813.2 - Laminated sandstone and shale.  
813.2 - 819.2 - Brown shaley sandstone.  
819.2 - 819.7 - Sandy limestone.  
819.7 - 821.5 - Brown shaley sandstone.  
821.5 - 821.9 - Sandy limestone.  
821.9 - 827.0 - Grayish brown shaley sandstone.  
827.0 - 827.6 - Shale.  
827.6 - 828.0 - Loss.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Home-Stake Production Co. Lease Foosee Well No. W-3

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation		Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X ind.
			Oil	Water			Total	Ft.		
2	791.1	20.7	22	43	65	0.393	0.9	0.9	318	
3	792.1	18.6	23	50	73	Imp.	0.9	1.8	299	
4	793.1	16.7	45	47	92		1.1	2.9	642	
5	794.1	14.3	15	72	87		0.8	3.7	134	
6	795.1	19.5	35	40	75	0.295	1.2	4.9	618	
7	796.1	20.0	34	39	73	0.295	1.0	5.9	528	
8	797.1	18.4	28	44	72	Imp.	1.0	6.9	400	
9	798.1	19.2	28	49	77	0.600	0.7	7.6	293	
10	799.1	17.1	30	53	83		1.3	8.9	517	
11	800.1	15.5	18	65	83		1.0	9.9	217	
12	801.1	14.4	16	72	88		1.0	10.9	179	
13	802.1	18.3	28	40	68	0.500	1.0	11.9	398	
14	803.1	19.3	29	45	73	0.287	0.9	12.8	379	
15	804.1	18.9	26	51	77	Imp.	1.5	14.3	573	
16	805.1	16.5	50	34	84		0.6	14.9	385	
17	806.1	14.1	18	67	85	Imp.	1.0	15.9	197	
18	807.1	17.6	40	52	92	Imp.	1.0	16.9	546	
19	808.1	17.1	33	49	82		1.0	17.9	438	
20	809.1	14.8	18	79	97	Imp.	1.4	19.3	290	
21	811.1	16.2	31	63	94		0.7	19.9	234	
22	812.1	14.3	13	82	95		1.0	20.9	144	
23	813.1	19.9	33	48	81	0.6	0.6	21.5	306	
24	814.1	19.5	41	43	84	1.4	1.4	22.9	870	
25	815.1	19.9	32	43	75	1.0	1.0	23.9	495	
26	816.1	20.1	30	44	74	1.0	1.0	24.9	468	
27	817.1	17.5	28	50	78	1.0	1.0	25.9	381	

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Home-Stake Production Co. Lease Fooshee Well No. W-3

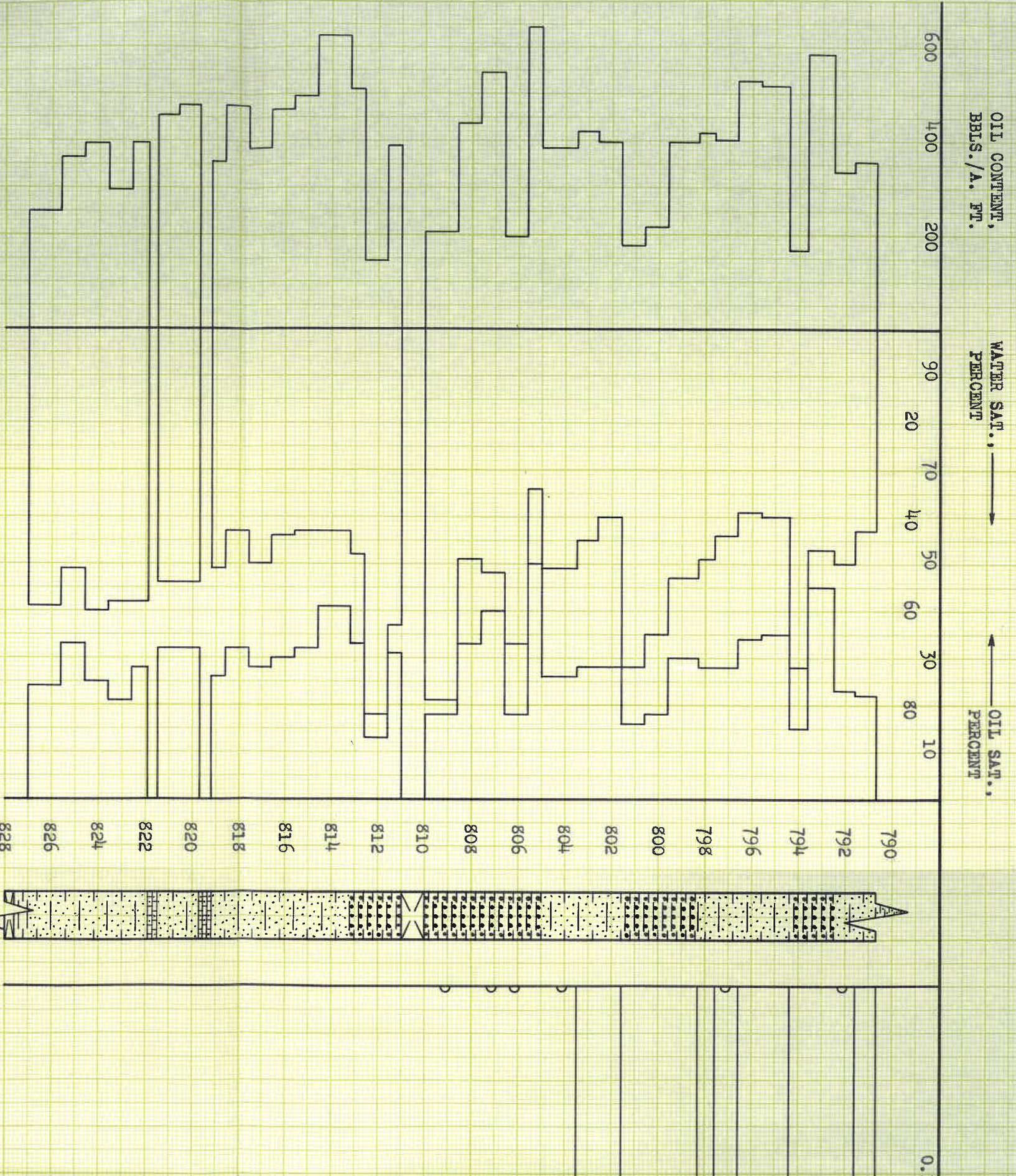
Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
28	818.1	19.1	32	43	75	475		1.0	26.9	475	
29	819.1	17.6	26	51	77	356		0.6	37.5	214	
30	820.1	19.1	32	54	86	474		0.9	28.4	426	
31	821.1	18.2	32	54	86	452		0.9	29.3	407	
32	822.1	18.2	28	58	86	396		0.7	30.0	277	
33	823.1	18.0	21	58	79	294		1.0	31.0	294	
34	824.1	20.2	25	60	85	392		1.0	32.0	392	
35	825.1	14.1	33	51	84	361		1.0	33.0	361	
36	826.1	13.4	24	59	83	250		1.4	34.4	350	
Effective								Total	- - -	-13,444	

# Oilfield Research Laboratories

## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease		Well No.			
Home-Stake Production Co.	Fooshee		W-3			
Depth Interval, Feet	Feet of Core Analyzed	Effective Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.			
790.7 - 803.5	5.7	0.383				
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Water Saturation	Average Oil Content Ebl./A. Ft.	Total Oil Content Ebls./Acres	
790.7 - 805.0	14.3	17.9	27.3	51.8	384	5,494
805.0 - 827.0	20.1	17.3	29.0	55.1	395	7,950
790.7 - 827.0	34.4	17.5	28.3	53.7	391	13,444



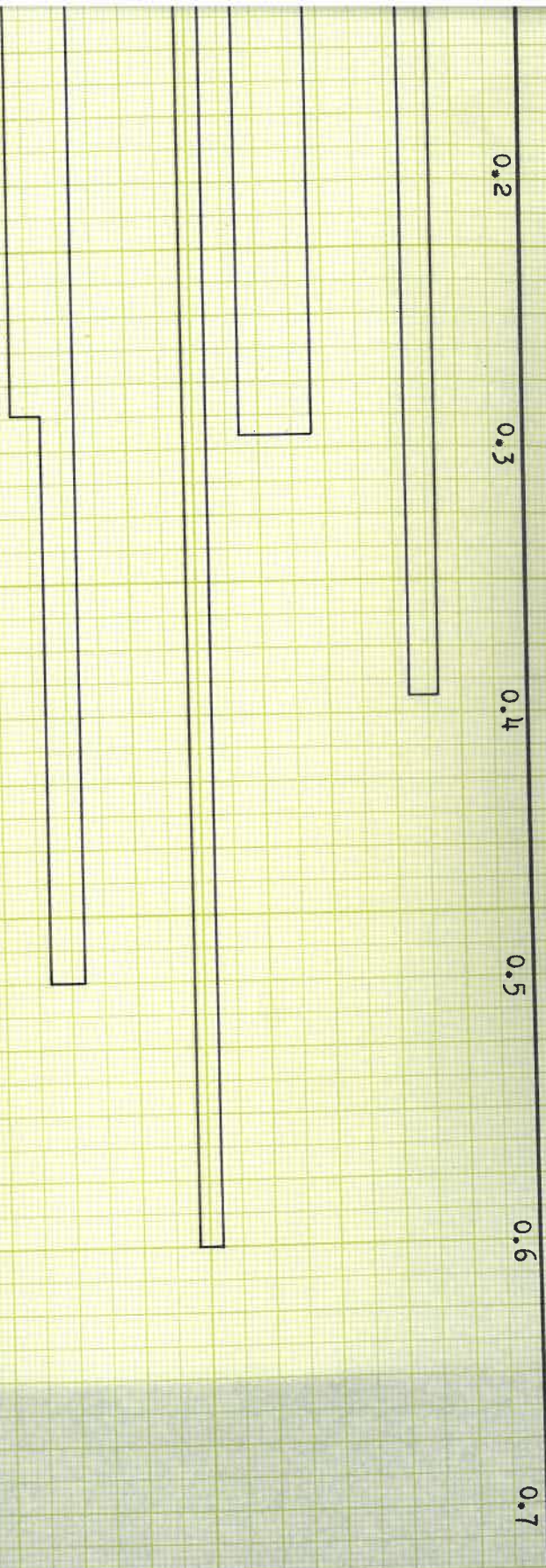
# HOME-STAKE PROD

FOOSHEE LEASE

ANDERSON 001

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY, PERCENT	AVG. OIL SATURATION PERCENT
790.7 - 805.0	14.3	17.9	27.3
805.0 - 827.0	20.1	17.3	29.0
790.7 - 827.0	34.4	17.5	28.3

EFFECTIVE PERMEABILITY, IN MILLIDARCY



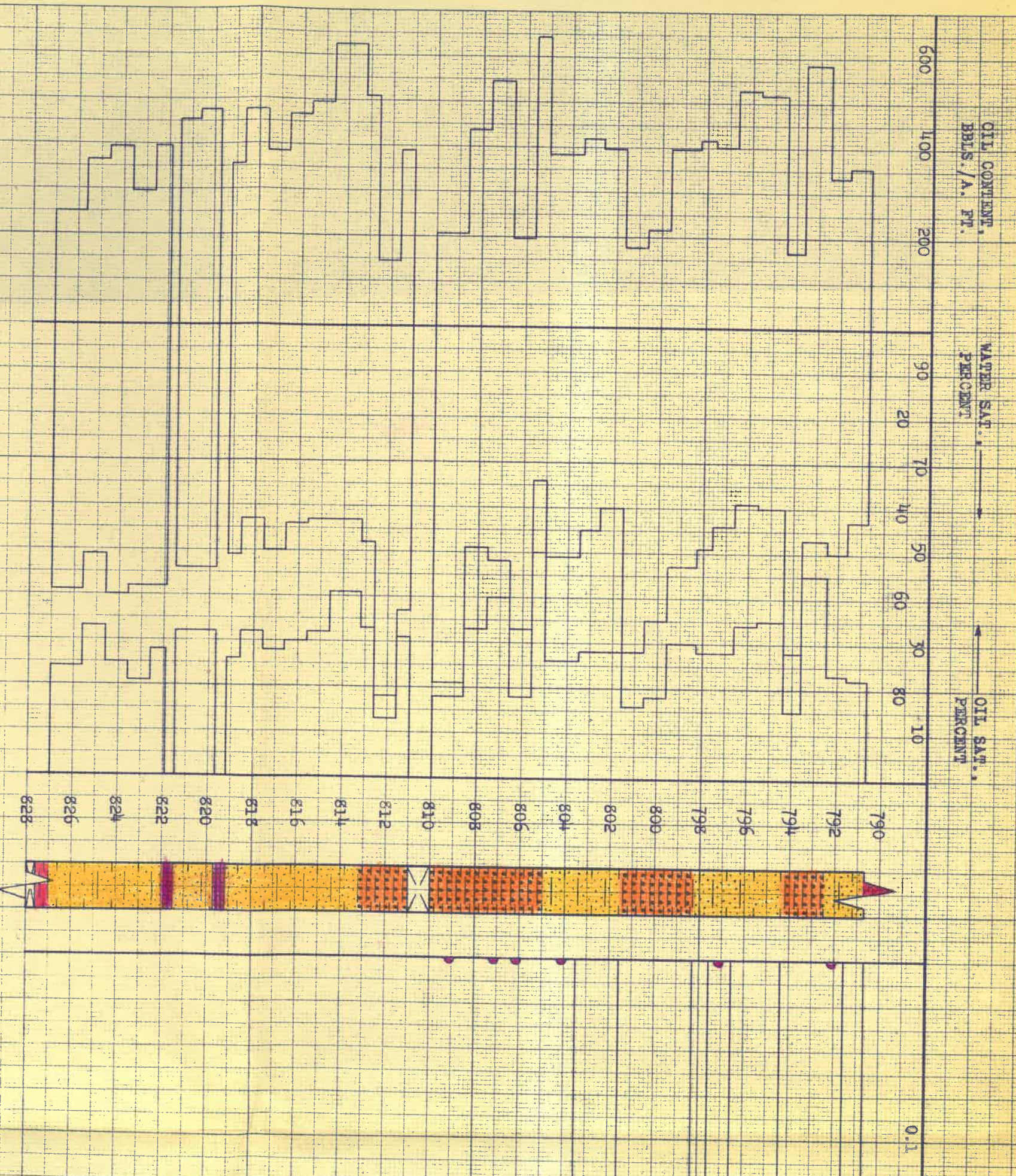
LOSS  
 IMPERMEABLE TO WATER

# DUCTION COMPANY

X, KANSAS  
WELL NO. W-3

AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBLS./A. FT.	TOTAL OIL CONTENT BBLS./ACRE	AVG. EFFECTIVE PERMEABILITY, MILLIDARCY
51.8	384	5,494	0.383
55.1	395	7,950	Imp.
53.7	391	13,444	0.383

OILFIELD RESEARCH LABORATORIES  
 CHANTRE, KANSAS  
 FEBRUARY, 1959



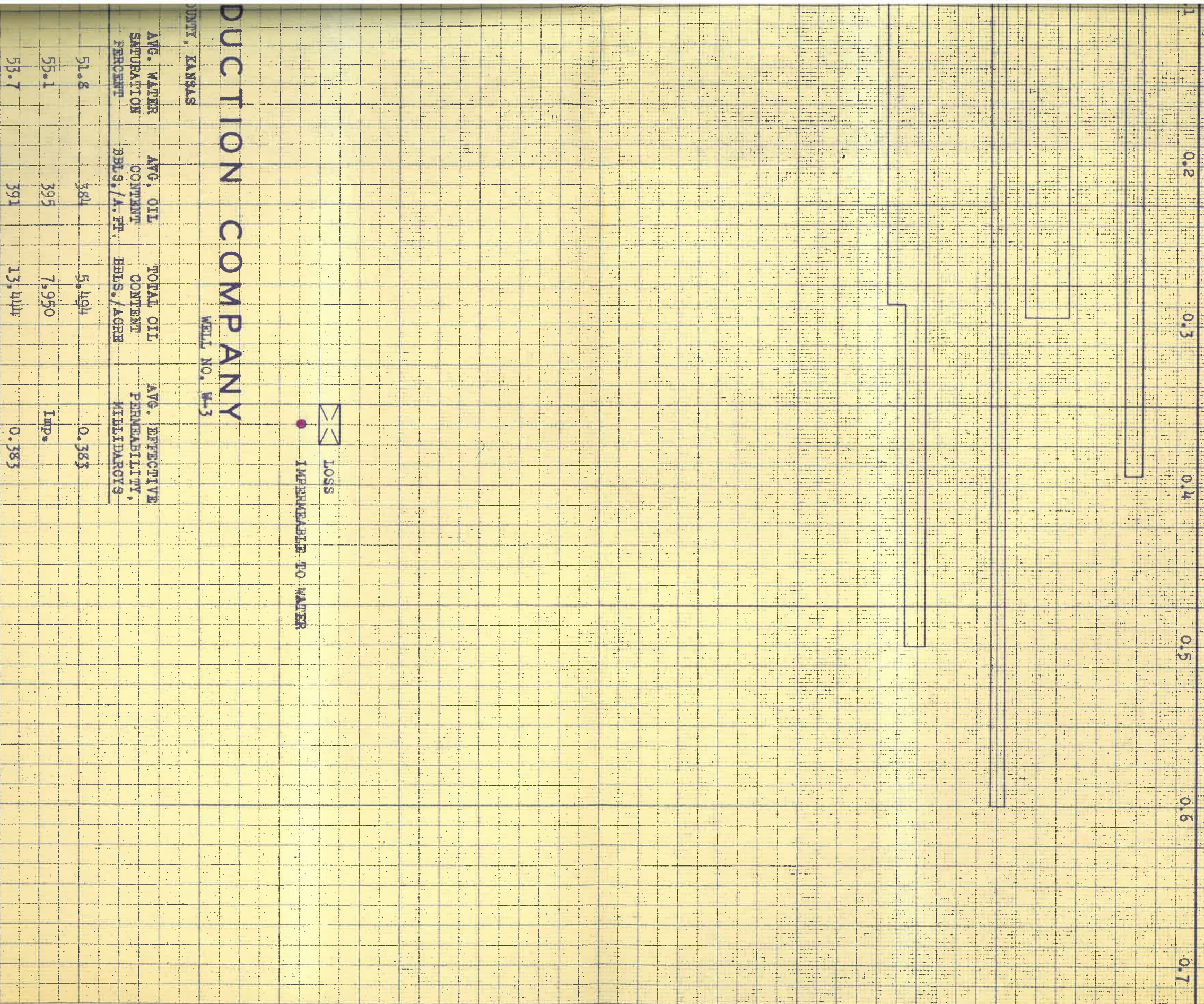
# HOME-STAKE PRODU

FOOSHER LEASE

ANDERSON COUNTY, INDIANA

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY, PERCENT	AVG. OIL SATURATION PERCENT	AVG. SALT PSI
790.7 - 805.0	14.3	17.9	27.3	
805.0 - 827.0	20.1	17.3	29.0	
790.7 - 827.0	34.4	17.5	28.3	

EFFECTIVE PERMEABILITY, IN MILLIDARCS



☒ LOSS

● IMPERMEABLE TO WATER

# DUCTION COMPANY

WELL NO. W-3

COUNTY, KANSAS

AVG. WATER SATURATION PERCENT

AVG. OIL CONTENT BBLS./A. FT.

TOTAL OIL CONTENT BBLS./ACRE

AVG. EFFECTIVE PERMEABILITY, MILLIDARCS

51.8      384      5,494      0.383

55.1      395      7,950      Imp.

53.7      391      13,444      0.383

OIL FIELD RESEARCH LABORATORIES  
 CHANTRE, KANSAS  
 FEBRUARY, 1959