OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

June 29, 1979

Compton Industries
P.O. Box 437
Moran, Kansas 66755

Gentlemen:

Enclosed herewith are the results of tests run on the rotary cores taken from the Stewart Lease, Well No. 1-C, Bourbon County, Kansas, and submitted to our laboratory on June 20, 1979.

The cores were sampled by a representative of Oilfield Research Laboratories after being received in the laboratory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman

Benjamin R. Pearman

SAM:km
5 c to Moran, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Compton Industries Lease Stewart Well No. 1-C

Location NW SW

Section 27 Twp. 23S Rge. 23E 22E County Bourbon State Kansas

Name of Sand	Burbank
Top of Core	452.0
Bottom of Core	474.0
Top of Sand	452.0
Bottom of Sand (Tested)	472.0
Total Feet of Permeable Sand	20.0
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 100	1.6	1.6
100 - 300	8.6	10.2
300 - 600	3.0	13.2
600 - 900	3.8	17.0
900 - 1200	3.0	20.0

Average Permeability Millidarcys	462.0
Average Percent Porosity	20.9
Average Percent Oil Saturation	23.6
Average Percent Water Saturation	63.2
Average Oil Content, Bbls./A. Ft.	376.
Total Oil Content, Bbls./Acre	7,521.
Average Percent Oil Recovery by Laboratory Flooding Tests	
Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft.	
Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre	
Total Calculated Oil Recovery, Bbls./Acre	
Packer Setting, Feet	
Viscosity, Centipoises @	
A. P. I. Gravity, degrees @ 60 °F	
Elevation, Feet	

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GENERAL INFORMATION & SUMMARY

Company Compton Industries Lease Stewart Well No. 1-C

Location NW SW

Section 27 Twp. 23S Rge. 23E County Bourbon State Kansas

Name of Sand	Bartlesville
Top of Core	544.0
Bottom of Core	555.0
Top of Sand	544.0
Bottom of Sand (Tested)	553.0
Total Feet of Permeable Sand	7.7
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 – 10	3.0	3.0
10 – 20	3.7	6.7
20 – 30	1.0	7.7

Average Permeability Millidarcys	13.3
Average Percent Porosity	16.5
Average Percent Oil Saturation	
Average Percent Water Saturation	
Average Oil Content, Bbls./A. Ft.	
Total Oil Content, Bbls./Acre	
Average Percent Oil Recovery by Laboratory Flooding Tests	
Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft.	
Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre	
Total Calculated Oil Recovery, Bbls./Acre	
Packer Setting, Feet	
Viscosity, Centipoises @	
A. P. I. Gravity, degrees @ 60 °F	
Elevation, Feet	

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LOG

Company Compton Industries Lease Stewart Well No. 1-C

BURBANK SAND

Depth Interval, Feet	Description
452.0 - 452.6	Light brown slightly calcareous sandstone.
452.6 - 461.8	Light brown sandstone.
461.8 - 474.0	Dark brown sandstone.

BARTLESVILLE SAND

Depth Interval, Feet	Description
544.0 - 551.7	Light barren sandstone with fine shale laminations.
551.7 - 555.0	Gray very finely laminated sandstone and shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Compton Industries **Lease** Stewart **Well No.** 1-C

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.		
					BURBANK SAND						
1	452.5	14.6	15	80	95	170	19.	0.6	0.6	102	11.40
2	453.5	22.8	7	82	89	124	296.	1.4	2.0	174	414.40
3	454.5	14.6	19	73	92	215	259.	1.0	3.0	215	259.00
4	455.5	21.7	8	86	94	135	269.	1.0	4.0	135	269.00
5	456.5	14.3	16	73	89	178	703.	1.0	5.0	178	703.00
6	457.5	24.8	8	86	94	154	719.	1.0	6.0	154	719.00
7	458.5	24.3	4	88	92	75	703.	1.0	7.0	75	703.00
8	459.5	25.7	10	79	89	199	912.	1.0	8.0	199	912.00
9	460.5	25.5	15	80	95	297	1199.	1.0	9.0	297	1199.00
10	461.5	22.8	13	81	94	230	886.	0.8	9.8	184	708.80
11	462.5	16.1	21	73	94	262	277.	1.2	11.0	314	332.40
12	463.5	16.3	44	49	93	556	1002.	1.0	12.0	556	1002.00
13	464.5	19.5	37	53	90	560	322.	1.0	13.0	560	322.00
14	465.5	18.4	34	59	93	486	173.	1.0	14.0	486	173.00
15	466.5	18.1	24	51	75	337	146.	1.0	15.0	337	146.00
16	467.5	23.0	34	41	75	607	138.	1.0	16.0	607	138.00
17	468.5	22.7	36	37	73	634	263.	1.0	17.0	634	263.00
18	469.5	24.1	46	25	71	86	346.	1.0	18.0	860	346.00
19	470.5	19.0	42	34	76	619	63.	1.0	19.0	619	63.00
20	471.5	26.9	40	35	75	835	556.	1.0	20.0	835	556.00
					BARTLESVILLE SAND						
1	544.5	13.4					8.2	1.0	1.0		8.20
2	545.5	19.6					7.7	1.0	2.0		7.70
3	546.5	18.4					11.	1.0	3.0		11.00
4	547.5	18.8					13.	1.0	4.0		13.00
5	548.5	17.8					8.9	1.0	5.0		8.90
6	549.5	18.9					20.	1.0	6.0		20.00

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Compton Industries Lease Stewart Well No. 1-C

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.		
				BARTLESVILLE SAND (continued)							
7	550.5	19.8					25.	1.0	7.0		25.00
8	551.5	15.3					12.	0.7	7.7		8.40
9	552.5	8.3					Imp.	1.3	9.0		0.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Compton Industries Lease Stewart Well No. 1-C

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
	BURBANK SAND		
452.0 - 461.8	9.8	601.9	5898.60
461.8 - 472.0	10.2	327.6	3341.40
452.0 - 472.0	20.0	462.0	9240.00
	BARTLESVILLE SAND		
544.0 - 553.0	7.7	13.3	102.2

Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
			BURBANK SAND			
452.0 - 461.8	9.8	21.4	11.1	80.9	175	1,713
461.8 - 472.0	10.2	20.3	35.5	46.2	569	5,808
452.0 - 472.0	20.0	20.9	23.6	63.2	376	7,521
			BARTLESVILLE SAND			
544.0 - 553.0	9.0	16.5	-	-	-	-

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Results of Chloride Tests

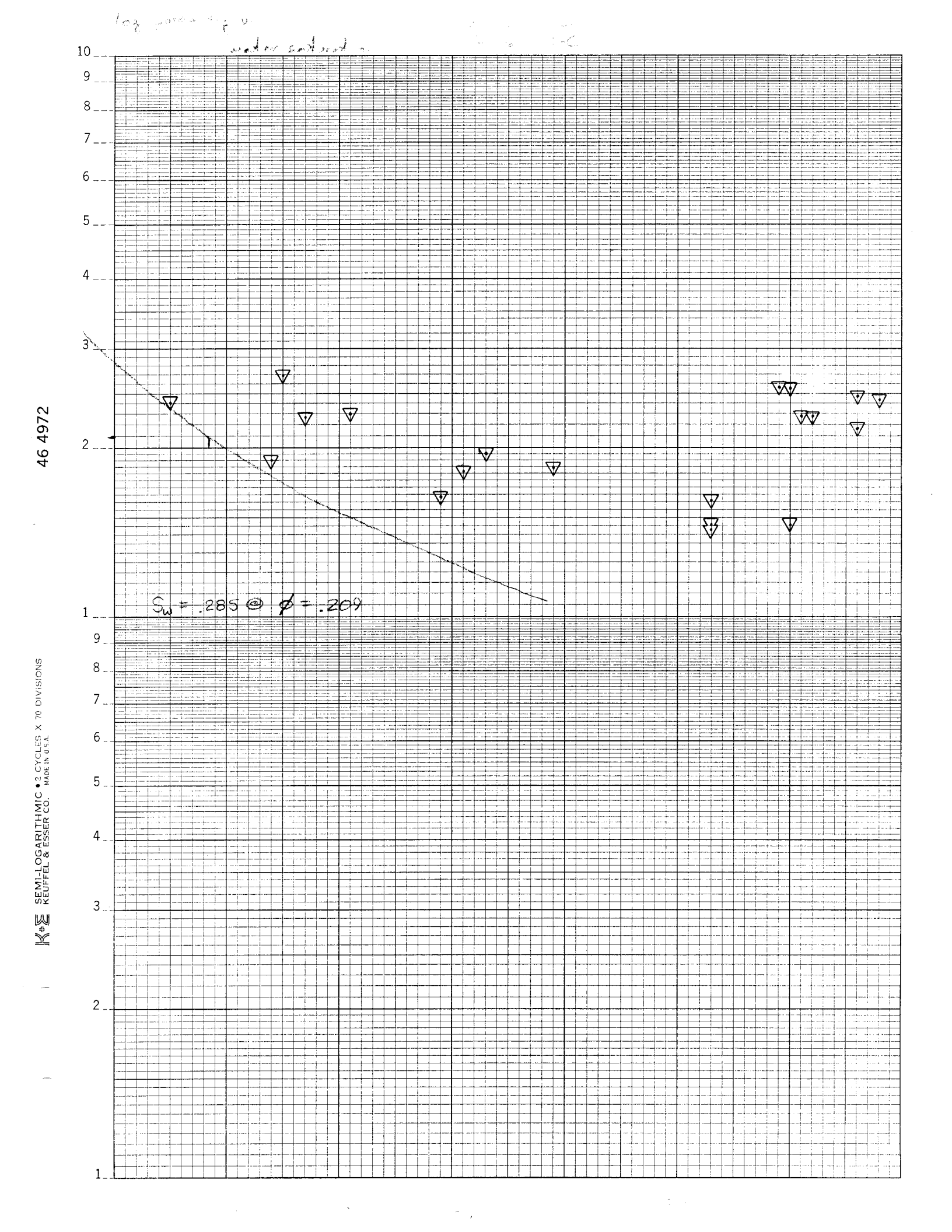
TABLE VI

BURBANK SAND

Company Compton Industries Lease Stewart Well No. 1-C

Sample No.	Depth, Feet	Chloride Content of Brine in Sand ppm	Percent Water Saturation Connate	Drilling & Foreign	Total
1	452.5	15,103			
2	453.5	7,848			
3	454.5	18,686			
4	455.5	9,538			
5	456.5	15,900			
6	457.5	9,952			
7	458.5	9,410			
8	459.5	13,262			
9	460.5	8,846			
10	461.5	10,257			
11	462.5	13,257			
12	463.5	30,639			
13	464.5	30,339			
14	465.5	31,864			
15	466.5	18,555			
16	467.5	23,280			
17	468.5	26,158			
18	469.5	34,138			
19	470.5	33,190			
20	471.5	19,146			
	Note: Water Sample Contained 4,752 Mg/L Chlorides (Mg/L = ppm)				

Note: ppm — parts per million



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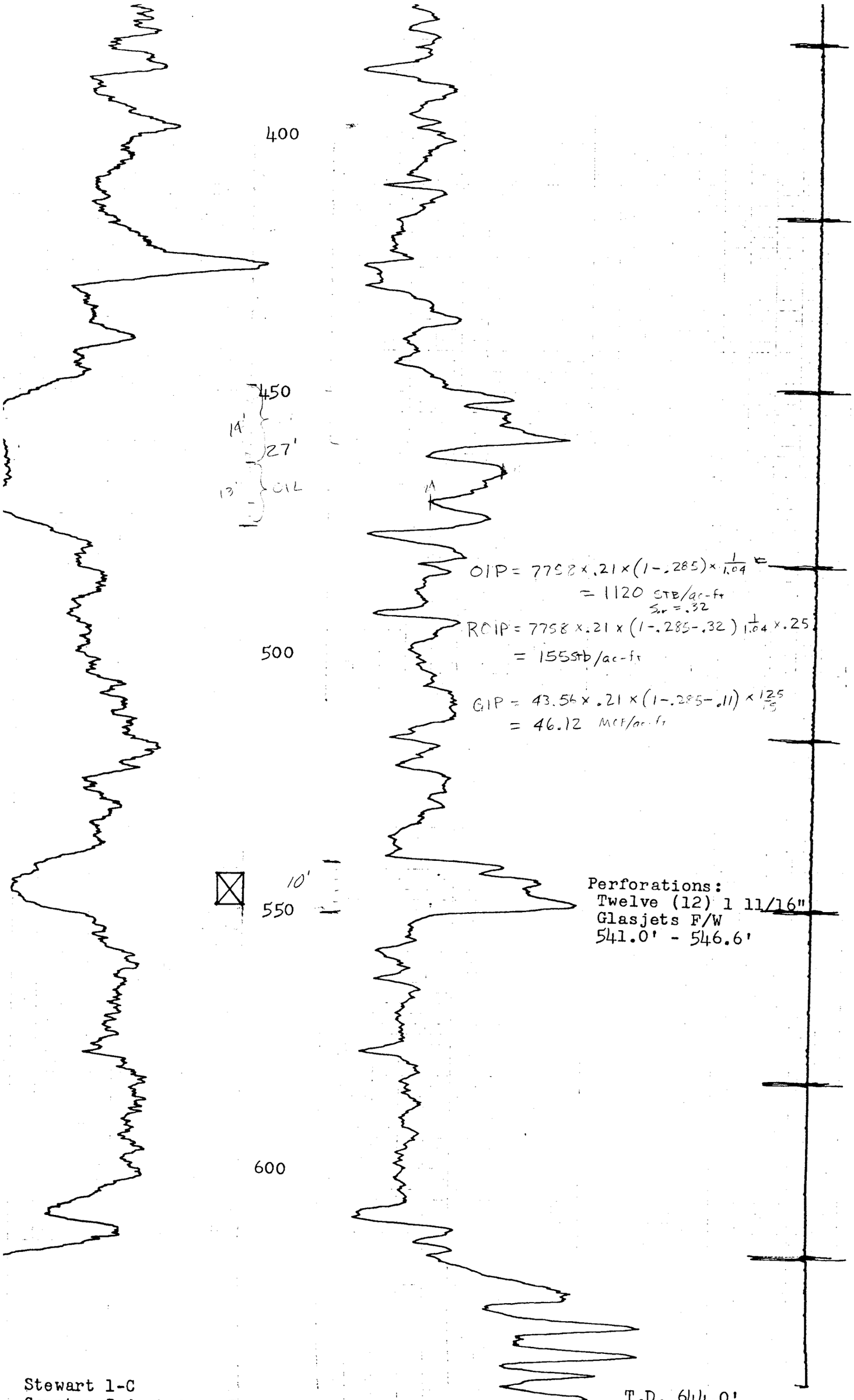

Stewart 1-C
Compton Industries, Inc.

T.D. 644.0'
P.B. 643.0'