



OILFIELD RESEARCH LABORATORIES

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

April 6, 1979

Estoril Producing Corporation
c/o Ralph Viney
511 N. Main
Shelton Building
Midland, Texas 79701

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the White Lease, Well No. 6, Wilson County, Kansas, and submitted on April 3, 1979.

The core was sampled by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

SAM:km
4 c to Midland, Texas
1 c to Bill Crowder
815 W. 7th
Chanute, Kansas 66720

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GENERAL INFORMATION & SUMMARY

Company Estoril Producing Corp. Lease White Well No. 6

Location 410' SNL & 1080' EWL NW $\frac{1}{4}$

Section 13 Twp. 27S Rge. 16E County Wilson State Kansas

Name of Sand	- - - - -	Bartlesville
Top of Core	- - - - -	981.0
Bottom of Core	- - - - -	1002.3
Top of Sand	- - - - -	981.0
Bottom of Sand	- - - - -	1000.5
Total Feet of Permeable Sand	- - - - -	17.0
Total Feet of Floodable Sand	- - - - -	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 1	3.7	3.7
1 - 10	3.2	6.9
10 - 20	2.6	9.5
20 - 30	3.4	12.9
30 - 80	4.1	17.0

Average Permeability Millidarcys	- - - - -	23.2
Average Percent Porosity	- - - - -	17.1
Average Percent Oil Saturation	- - - - -	29.1
Average Percent Water Saturation	- - - - -	47.0
Average Oil Content, Bbls./A. Ft.	- - - - -	401.
Total Oil Content, Bbls./Acre	- - - - -	7,296.
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 Estoril Producing Corporation Lease White Well No. 6

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
981.0 - 982.8	Brown and gray laminated sandstone and shale.
982.8 - 983.8	Dark brown sandstone.
983.8 - 985.0	Brown and gray laminated sandstone and shale.
985.0 - 986.0	Dark brown sandstone.
986.0 - 986.9	Brown and gray laminated sandstone and shale.
986.9 - 989.6	Dark brown sandstone.
989.6 - 990.8	Brown and gray laminated sandstone and shale.
990.8 - 992.8	Dark brown sandstone.
992.8 - 993.2	Gray and brown laminated sandstone and shale.
993.2 - 995.6	Dark brown sandstone.
995.6 - 996.5	Gray laminated sandstone and shale.
996.5 - 1000.5	Dark brown sandstone.
1000.5 - 1001.0	Coal.
1001.0 - 1002.3	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Estoril Producing Corporation Lease White Well No. 6

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			Ft.	Cum. Ft.		
1	981.8	16.1	34	30	425	0.82	1.8	1.8	765	1.48
2	983.4	17.1	28	47	372	0.69	1.0	2.8	372	0.69
3	984.9	16.9	27	44	354	8.9	1.2	4.0	425	10.68
4	985.6	13.8	30	53	321	22.	1.0	5.0	321	22.00
5	986.5	11.7	18	76	163	0.53	0.9	5.9	147	0.48
6	987.4	19.0	18	35	265	77.	1.1	7.0	292	84.70
7	988.7	19.8	36	37	553	67.	1.0	8.0	553	67.00
8	989.5	18.5	19	43	273	28.	0.6	8.6	164	16.80
9	990.4	10.5	6	81	49	Imp.	1.2	9.8	59	0.00
10	991.6	20.3	43	30	677	49.	1.2	11.0	812	58.80
11	992.5	19.0	28	57	413	29.	0.8	11.8	530	23.20
12	993.5	20.6	40	33	639	44.	0.8	12.6	511	35.20
13	994.5	19.4	32	46	482	24.	1.0	13.6	482	24.00
14	995.4	21.1	37	35	606	16.	0.6	14.2	364	9.60
15	996.6	17.7	27	61	371	10.	0.5	14.7	186	5.00
16	997.6	16.3	25	58	316	5.0	1.0	15.7	316	5.00
17	998.6	15.9	31	58	382	13.	1.0	16.7	382	13.00
18	999.6	18.0	36	40	531	14.	1.0	17.7	531	14.00
19	1000.4	17.4	42	31	567	4.6	0.5	18.2	284	2.30

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	White	Well No.		
Estoril Producing Corporation			6		
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
981.0 - 990.8	8.6	23.7	203.83		
990.8 - 1000.5	8.4	22.6	190.10		
981.0 - 1000.5	17.0	23.2	393.93		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
981.0 - 990.8	9.8	15.8	24.7	316	3,098
990.8 - 1000.5	8.4	18.6	34.1	500	4,198
981.0 - 1000.5	18.2	17.1	29.1	401	7,296