

OILFIELD RESEARCH LABORATORIES

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

June 6, 1980

Schutz Drilling Company
Rural Route 2
Baldwin, Kansas 66006

Gentlemen:

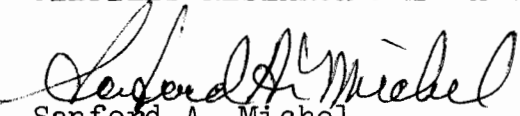
Enclosed herewith are the results of tests run on the rotary core samples taken from the F. Bell Lease, Well No. 1, Douglas County, Kansas, and submitted to our laboratory on May 20, 1980.

The core samples were sampled and sealed in jars by a representative of the client. In examining this core, it is assumed that each sample represents one foot of core.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/tem

5 c to Baldwin, Kansas

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GENERAL INFORMATION & SUMMARY

Company Schutz Drilling Company Lease F. Bell Well No. 1
 Location 165' S & 165' W of the NE Corner
 Section 36 Twp. 14S Rge. 20E County Douglas State Kansas

Elevation, Feet

Name of Sand

Squirrel

Top of Core

817.0

Bottom of Core

835.0

Top of Sand

817.0

Bottom of Sand

835.0

Total Feet of Permeable Sand

17.0

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 10

4.0

4.0

30 - 60

4.0

8.0

90 - 165

5.0

13.0

225 - 300

3.0

16.0

330 & Above

1.0

17.0

Average Permeability Millidarcys

112.2

Average Percent Porosity

21.7

Average Percent Oil Saturation

41.3

Average Percent Water Saturation

38.5

Average Oil Content, Bbls./A. Ft.

707.

Total Oil Content, Bbls./Acre

12,724.

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LOGName Schutz Drilling Company Lease F. Bell Well No. 1

<u>Depth Interval, Feet</u>	<u>Description</u>
817.0 - 818.0	Brown calcareous sandstone.
818.0 - 819.0	Grayish brown very shaly sandstone.
819.0 - 820.0	Brown slightly calcareous sandstone.
820.0 - 821.0	Brown calcareous sandstone.
821.0 - 822.0	Brown and gray laminated sandstone and shale.
822.0 - 823.0	Brown slightly calcareous sandstone.
823.0 - 826.0	Brown calcareous sandstone.
826.0 - 827.0	Brown and gray laminated sandstone and shale.
827.0 - 828.0	Brown calcareous sandstone.
828.0 - 829.0	Brown and gray laminated sandstone and shale.
829.0 - 833.0	Brown calcareous sandstone.
833.0 - 834.0	Brown shaly sandstone.
834.0 - 835.0	Brown calcareous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

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.		
1	817.5	21.9	43	37	80	731	335.	1.0	1.0	731	335.00
2	818.5	15.5	37	60	97	445	Imp.	1.0	2.0	445	0.00
3	819.5	23.2	39	36	75	702	30.	1.0	3.0	702	30.00
4	820.5	23.1	55	31	86	986	163.	1.0	4.0	986	163.00
5	821.5	15.2	22	74	96	259	2.5	1.0	5.0	259	2.50
6	822.5	22.6	42	33	75	736	54.	1.0	6.0	736	54.00
7	823.5	24.9	37	27	64	715	226.	1.0	7.0	715	226.00
8	824.5	23.1	48	36	84	860	44.	1.0	8.0	860	44.00
9	825.5	24.0	44	30	74	819	44.	1.0	9.0	819	44.00
10	826.5	17.0	36	58	94	475	3.6	1.0	10.0	475	3.60
11	827.5	24.7	45	31	76	862	145.	1.0	11.0	862	145.00
12	828.5	18.3	33	56	89	469	0.39	1.0	12.0	469	0.39
13	829.5	24.1	38	29	67	711	114.	1.0	13.0	711	114.00
14	830.5	24.2	49	26	75	920	141.	1.0	14.0	920	141.00
15	831.5	19.6	39	41	80	593	90.	1.0	15.0	593	90.00
16	832.5	23.7	43	30	73	791	280.	1.0	16.0	791	280.00
17	833.5	20.8	52	33	85	839	8.2	1.0	17.0	839	8.20
18	834.5	25.5	41	25	66	811	226.	1.0	18.0	811	226.00

Company Schutz Drilling Company

Lease

F. Bell

Well No.

1

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Lease		F. Bell		Well No.		1		
Schutz Drilling Company										
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.							
817.0 - 835.0	17.0	112.2	1906.69							
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre					
817.0 - 835.0	18.0	21.7	41.3	38.5	707	12,724				