

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Hillenburg Oil Company Lease Booth Well No. 11
 Location 165° NSL & 165° EWL, NE/4
 Section 18 Twp 25S Rge. 21E County Allen State Kansas
 Name of Sand - - - - - Bartlesville
 Top of Core - (Received) - - - - - 750.0
 Bottom of Core - (Received) - - - - - 770.3
 Top of Sand - (Received) - - - - - 750.0
 Bottom of ^{Oil}/Sand - - - - - 769.4
 Total Feet of Permeable/^{Oil}Sand - - - - - 18.9
 Total Feet of Floodable Sand - - - - -
 Distribution of Permeable Sand:

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 50	5.9	5.9
50 - 100	4.5	10.4
100 - 200	4.5	14.9
200 - 300	2.0	16.9
300 & above	2.0	18.9

 Average Permeability Millidarcys - - - - - 119.5
 Average Percent Porosity - - - - - 25.2
 Average Percent Oil Saturation - - - - - 55.0
 Average Percent Water Saturation - - - - - 35.7
 Average Oil Content, Bbls./A. Ft. - - - - - 1,077.
 Total Oil Content, Bbls./Acre - - - - - 20,360.
 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 - - - - -

Name Hillenburg Oil Company Lease Booth Well No. 11

<u>Depth Interval, Feet</u>	<u>Description</u>
750.0 - 752.3	Dark shaly sandstone.
752.3 - 760.8	Dark fairly soft slightly shaly sandstone.
760.8 - 761.1	Gray sandy shale.
761.1 - 761.7	Dark sandstone.
761.7 - 761.9	Gray shale.
761.9 - 769.4	Dark slightly shaly sandstone.
769.4 - 770.0	Gray shaly sandstone.
770.0 - 770.3	Gray shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Hillenburg Oil Company Lease Booth Well No. 11

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 m
			Oil	Water	Total			Ft.	Cum. Ft.		
1	750.5	21.0	46	48	94	750	26.	1.0	1.0	750	26.0
2	751.5	18.6	55	38	93	794	80.	1.3	2.3	1032	104.0
3	752.5	23.2	57	29	86	1,026	-100.	0.7	3.0	718	70.0
4	753.5	22.2	72	21	93	1,240	-166.	1.0	4.0	1240	166.0
5	754.6	21.7	50	42	92	842	55.	1.2	5.2	1010	66.0
6	755.8	23.3	51	38	89	922	-314.	1.0	6.2	922	314.0
7	756.5	22.1	61	28	89	1,046	-141.	0.8	7.0	837	112.8
8	757.5	27.9	61	34	95	1,321	-314.	1.0	8.0	1321	314.0
9	758.5	28.0	63	31	94	1,369	-221.	1.0	9.0	1369	221.0
10	759.6	28.0	59	32	91	1,282	-259.	1.0	10.0	1282	259.0
11	760.6	22.7	60	26	86	1,057	10.	0.8	10.8	846	8.0
12	761.6	21.1	48	40	88	786	38.	0.6	11.4	472	22.8
13	762.4	29.6	57	30	87	1,309	31.	1.1	12.5	1440	34.1
14	763.5	29.9	46	40	86	1,067	85.	1.0	13.5	1067	85.0
15	764.6	28.7	54	33	87	1,203	-133.	1.0	14.5	1203	133.0
16	765.5	27.3	57	35	92	1,208	39.	1.2	15.7	1450	46.8
17	766.9	29.4	57	34	91	1,300	87.	1.0	16.7	1300	87.0
18	767.6	28.0	48	44	92	1,043	-163.	1.0	17.7	1043	163.0
19	768.7	24.7	46	48	94	882	22.	1.2	18.9	1058	26.4
20	769.9	19.5	2	86	88	30	0.19	0.6	19.5	18	0.1

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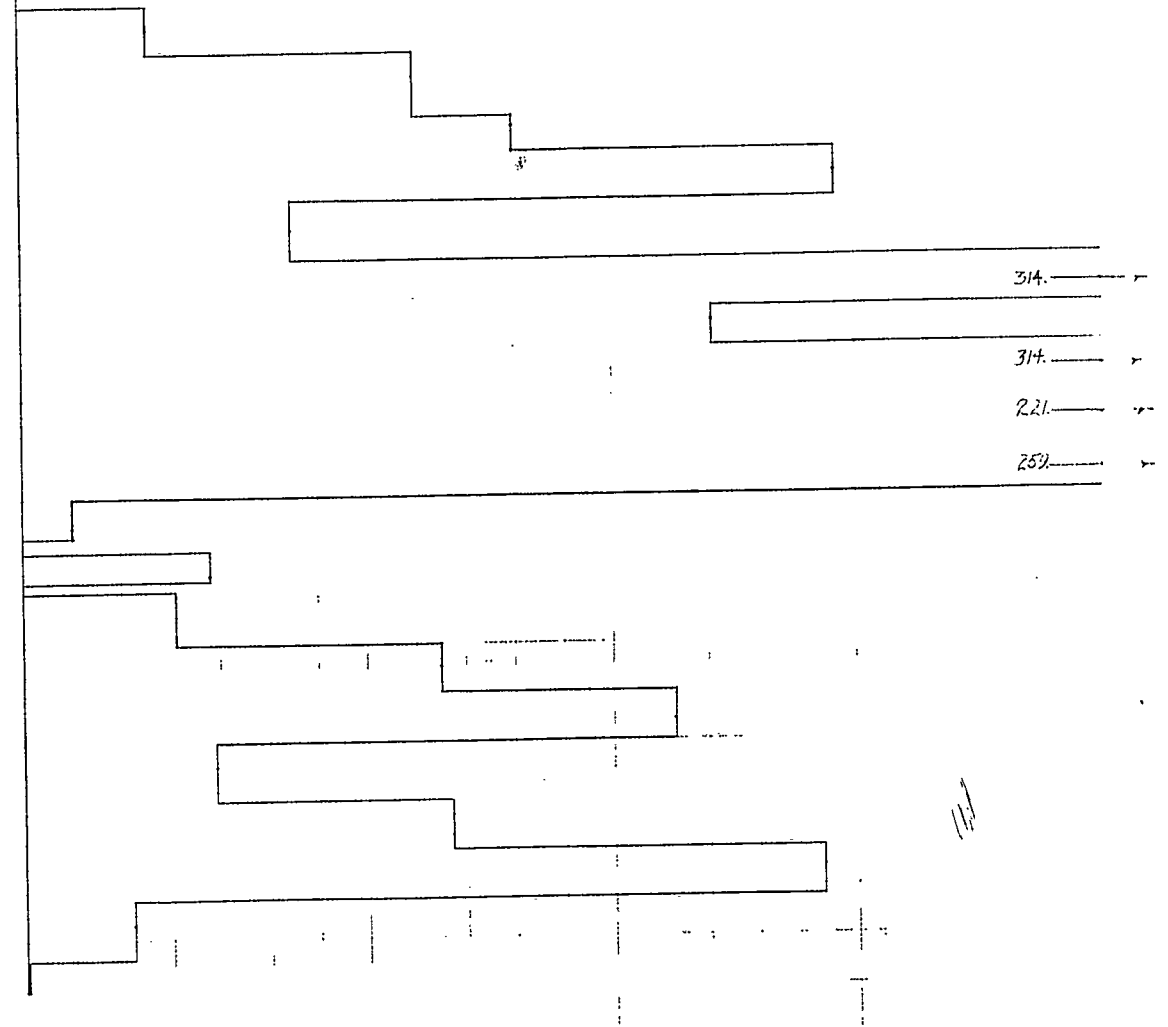
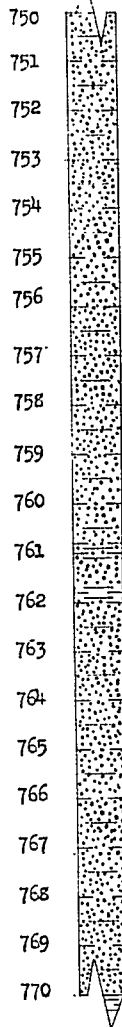
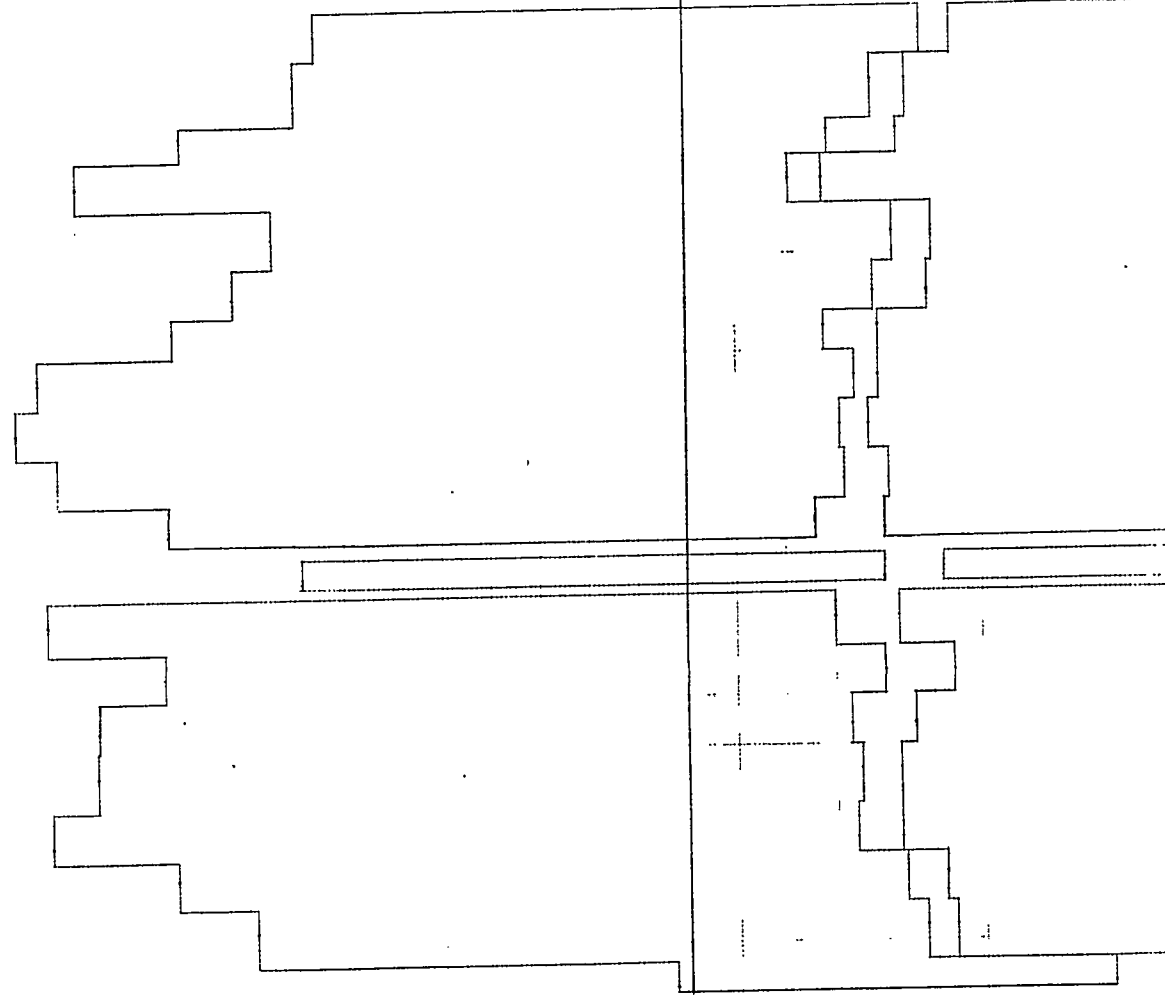
SUMMARY OF PERMEABILITY & SATURATION TESTS



TABLE III




Company Hillenburg Oil Company Lease Booth Well No. 11

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
750.0 - 760.0	10.0	165.3	1,652.80
760.0 - 769.4	8.9	68.1	606.10
750.0 - 769.4	18.9	119.5	2,258.90

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
750.0 - 760.0	10.0	23.4	57.2	34.6	1,048	10,481
760.0 - 769.4	8.9	27.2	52.6	36.9	1,110	9,879
750.0 - 769.4	18.9	25.2	55.0	35.7	1,077	20,360



KEY:
 SHALY SANDSTONE
 SANDSTONE

 SANDY SHALE
 SHALE
 COAL

HILLENBURG OIL COMPANY
 BOOTH LEASE ALLEN COUNTY, KANSAS
 WELL NO. 11

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION, PERCENT	AVG. WATER SATURATION, PERCENT	AVG. OIL CONTENT, BBL./A. FT.	TOTAL OIL CONTENT, BBL./ACRE	AVG. AIR PERMEABILITY, MILLIDARCY
750.0 - 760.0	10.0	23.4	57.2	34.6	1,048	10,481	165.3
760.0 - 769.4	8.9	27.2	52.6	36.9	1,110	9,879	68.1
750.0 - 769.4	18.9	25.2	55.0	35.7	1,077	20,360	119.5

OILFIELD RESEARCH LABORATORIES
 CHANUTE, KANSAS
 OCTOBER, 1976.