

18-8-22E

18-83-22E  
SW SE NW LOG

Company Jennings Drilling Company Lease (Leavenworth NE) Frey Well No. 5

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>UPPER McLOUTH SANDSTONE</u>
1215.0 - 1234.0	Sandstone, dark brown, with widely scattered shale inclusions.
1235.0 - 1242.3	Sandstone, dark brown, with scattered shale partings and inclusions.
1242.3 - 1243.0	Shale, gray.
1243.0 - 1251.5	Sandstone and shale, gray, laminated.
	<u>LOWER McLOUTH SANDSTONE</u>
1251.5 - 1254.2	Sandstone, dark brown, with scattered shale partings and inclusions.
1254.2 - 1255.2	Sandstone, grayish brown.
1255.2 - 1255.4	Shale, gray.
1255.4 - 1256.4	Sandstone, brown, with shale partings.
1256.4 - 1258.0	Limestone, gray, with scattered shale partings and inclusions.
1258.0 - 1258.6	Sandstone, dark brown and gray, conglomeratic.
1258.6 - 1262.0	Shale, gray.

State Geologist  
WICHITA BRANCH

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Wichita, Kansas

**Oilfield Research Laboratories**

**RESULTS OF SATURATION & PERMEABILITY TESTS**

18-8-22E

**TABLE 1**

(Leavenworth NE)

Company Jennings Drilling Company Lease Frey Well No. 5

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A. Ft.	Permeability, Millidarcys
			Oil	Water	Total		
1	1215.6	22.1	30	44	74	514	35.
2	1217.5	18.2	37	37	74	522	34.
3	1219.3	23.2	39	27	66	702	149.
4	1221.4	21.7	42	27	69	707	60.
5	1223.6	22.4	35	28	63	608	110.
6	1225.4	22.7	44	21	65	775	158.
7	1227.5	20.1	41	33	74	639	13.
8	1229.5	21.4	34	37	71	564	39.
9	1231.5	21.8	45	23	68	761	60.
10	1233.2	23.2	47	22	69	846	90.
11	1235.5	21.5	36	32	68	601	35.
12	1237.4	23.0	44	22	66	785	169.
13	1239.5	23.4	47	20	67	853	163.
14	1241.5	23.3	35	17	52	633	371.
15	1251.8	21.3	34	39	73	562	89.
16	1253.5	22.8	28	46	74	495	127.
17	1255.5	25.0	35	35	70	679	384.

NOV 18 1955  
State Geological Survey  
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RESULTS OF LABORATORY FLOODING TESTS

TABLE IV

18-8-226

Company Jennings Drilling Company Lease (Leavenworth NE) Frey Well No. 5

Sample No.	Depth, Feet	Effective Porosity Percent	Original Oil Saturation		Oil Recovery		Residual Saturation			Volume of Water Recovered cc*	Effective Permeability Millidarcys**	Initial Fluid Production Pressure Lbs./Sq./In.
			%	Bbls./A. Ft.	%	Bbls./A. Ft.	% Oil	% Water	Bbls./A. Ft.			
1	1215.6	22.5	30	524	3	52	27	56	472	112	2.55	25
3	1219.3	23.4	39	708	9	163	30	51	545	104	1.65	25
5	1223.6	22.7	35	616	4	70	31	47	546	53	0.82	30
6	1225.4	22.9	44	782	12	213	32	50	569	360	10.95	20
7	1227.5	20.1	41	639	6	94	35	49	545	127	2.62	25
9	1231.5	21.8	45	761	9	152	36	47	609	166	3.00	25
11	1235.5	21.2	36	592	0	0	36	40	592	8	0.22	50
13	1239.5	23.7	47	864	11	202	36	42	662	230	3.30	20
14	1241.5	23.3	35	633	0	0	35	46	633	358	11.70	20
16	1253.5	22.6	28	491	0	0	28	56	491	22	0.43	35

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Notes: cc—cubic centimeter.

\*—Volume of water recovered at the time of maximum oil recovery.

\*\*—Determined by passing water through sample which still contains residual oil.

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