



OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS - PHONE HE1-2650

August 29, 1968

Little Nick Oil Company
Box "B"
Sedan, Kansas 67361

Gentlemen:

Enclosed herewith are the results of tests run on the Cable tool core taken from the Van Leuvan Lease, Well No. 28, Chautauqua County, Kansas, and submitted to our laboratory on August 26, 1968.

This core was sampled, sealed in plastic bags, and submitted to our laboratory by the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:dp

3 c. - Sedan, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Little Nick Oil Company Lease Van Leuvan Well No. 28

Location SW NW SE

Section 16 Twp. 34S Rge. 11E County Chautauqua State Kansas

Name of Sand	Peru
Top of Core	1,287.5
Bottom of Core	1,319.0
Better Top of Sand	1,295.0
Better Bottom of Sand	1,313.0
Total Feet of Permeable Sand	30.3
Total Feet of Floodable Sand	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 5	6.9	6.9
5 - 10	10.4	17.3
10 - 20	7.0	24.3
20 - 30	4.0	28.3
30 & above	2.0	30.3

Average Permeability Millidarcys	12.6
Average Percent Porosity	16.3
Average Percent Oil Saturation	21.3
Average Percent Water Saturation	65.9
Average Oil Content, Bbls./A. Ft.	270.
Total Oil Content, Bbls./Acre	8,450.
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	

OILFIELD RESEARCH LABORATORIES

-LOG-

Company Little Nick Oil Company Lease Van Leuvan Well No. 28

<u>Depth Interval, Feet</u>	<u>Description</u>
1287.5 - 1290	Brownish gray fine grained shaly sandstone.
1290 - 1295	Gray fine grained shaly sandstone.
1295 - 1307	Grayish brown fine grained sandstone.
1307 - 1309	Grayish brown shaly sandstone.
1309 - 1313	Brown fine grained sandstone.
1313 - 1314.0	Grayish brown shaly sandstone.
1314.0 - 1314.2	Shale.
1314.2 - 1315	Grayish brown shaly sandstone.
1315 - 1316	Gray calcareous sandstone.
1316 - 1318.0	Grayish brown shaly sandstone.
1318.0 - 1319	Grayish brown calcareous sandstone.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Little Nick Oil Company Lease Van Leuvan Well No. 28

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	1287.7	16.9	22	67	89	4.3	1.1	1.1	318	4.73
2	1289.5	17.0	27	62	89	6.8	1.4	2.5	498	9.52
3	1290.5	15.6	17	78	95	0.51	1.0	3.5	206	0.51
4	1291.5	16.6	16	77	93	0.30	1.0	4.5	199	0.30
5	1292.5	14.2	18	77	95	3.8	1.0	5.5	198	3.80
6	1293.5	17.4	20	62	82	3.6	1.0	6.5	270	3.60
7	1294.5	14.6	16	68	84	6.6	1.0	7.5	181	6.60
8	1295.5	18.6	22	61	83	20.	1.0	8.5	318	20.00
9	1296.5	18.7	23	63	86	19.	1.0	9.5	334	19.00
10	1297.5	18.4	24	64	88	25.	1.0	10.5	343	25.00
11	1298.5	18.5	21	69	90	13.	1.0	11.5	301	13.00
12	1299.5	18.7	21	68	89	53.	1.0	12.5	305	53.00
13	1300.5	18.9	22	69	91	15.	1.0	13.5	322	15.00
14	1301.5	17.1	24	70	94	21.	1.0	14.5	319	21.00
15	1302.5	17.7	19	66	85	28.	1.0	15.5	262	28.00
16	1303.5	17.6	18	64	82	11.	1.0	16.5	246	11.00
17	1304.5	17.6	20	64	84	13.	1.0	17.5	274	13.00
18	1305.5	16.2	22	69	91	44.	1.0	18.5	277	44.00
19	1306.5	17.0	27	61	88	7.2	1.0	19.5	357	7.20
20	1307.5	16.7	21	66	87	7.0	1.0	20.5	272	7.00
21	1308.5	16.3	26	66	92	7.5	1.0	21.5	330	7.50
22	1309.5	17.1	19	65	84	7.4	1.0	22.5	253	7.40
23	1310.5	16.5	20	63	83	9.3	1.0	23.5	247	9.30
24	1311.5	17.1	26	62	88	12.	1.0	24.5	345	12.00

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Little Nick Oil Company Lease Van Leuvan Well No. 28

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.		
25	1312.5	16.5	25	62	87	320	17.	1.0	25.5	320	17.00
26	1313.5	12.0	21	68	89	195	6.8	1.0	26.5	195	6.80
27	1314.5	14.9	21	71	92	243	2.9	0.8	27.3	194	2.32
28	1315.5	7.8	18	76	94	109	3.0	1.0	28.3	109	3.00
29	1316.5	15.6	13	52	65	157	Imp.	1.0	29.3	157	0.00
30	1317.5	16.3	23	50	73	291	6.5	1.0	30.3	291	6.50
31	1318.5	9.5	27	64	91	199	5.7	1.0	31.3	199	5.70

Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Little Nick Oil Company	Lease	Van Leuvan	Well No.	28
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
1287.5 - 1295.0	7.5	3.9	29.06		
1295.0 - 1306.0	11.5	22.8	262.00		
1306.0 - 1319.0	11.8	7.8	91.72		
1287.5 - 1319.0	30.3	12.6	382.78		
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
1287.5 - 1295.0	7.5	16.1	19.9	69.7	249
1295.0 - 1306.0	11.5	17.2	20.5	63.2	287
1306.0 - 1319.0	12.8	14.9	22.1	63.4	256
1287.5 - 1319.0	31.3	16.3	21.3	65.9	270
					1,870
					3,301
					3,279
					8,450