

OILFIELD RESEARCH LABORATORIES

813 EAST SIXTH
OKMULGEE, OKLAHOMA
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- REGISTERED ENGINEERS -

Chanute, Kansas

536 N. HIGHLAND
CHANUTE, KANSAS
PHONE: 728

June 9, 1961

Gordon Willis
319 West 7th
Chanute, Kansas

Dear Sir:

Enclosed herewith are the results of tests run on the Cable Tool core taken from the Gentry Lease, Well No. 1, Wilson County, Kansas, and submitted to our laboratory on June 3, 1961.

This core was sampled and the samples were sealed in cans by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Fred O. Stenger

FOS:rf

5 c.

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company <u>Gordon Willis</u>	Lease <u>Gentry</u>	Well No. <u>1</u>
Location <u>N¹/₂ NE¹/₄</u>		
Section <u>1</u> Twp. <u>30S</u> Rge. <u>15E</u>	County <u>Wilson</u>	State <u>Kansas</u>
Name of Sand	Bartlesville	
Top of Core	896.0	
Bottom of Core	913.2	
Top of Sand	?	
Bottom of ^{Good} Sand	907.0	
Total Feet of Permeable Sand	10.0	
Total Feet of Floodable Sand	-	
Distribution of Permeable Sand:		
Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	4.0	4.0
10 - 40	4.0	8.0
40 & above	2.0	10.0
Average Permeability Millidarcys	18.6	
Average Percent Porosity	15.6	
Average Percent Oil Saturation	25.9	
Average Percent Water Saturation	54.0	
Average Oil Content, Bbls./A. Ft.	317.	
Total Oil Content, Bbls./Acre	3,807.	
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		

LOG

Company Gordon Willis Lease Gentry Well No. 1

Depth Interval, Description
Feet

896.0 - 907.0 - Brown slightly laminated sandstone.

907.0 - 910.5 - Gray shaley sandstone.

910.5 - 913.2 - Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Gordon Willis Lease Gentry Well No. 1

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	896.2	14.3	38	40	78	422	6.2	0.8	0.8	337	4.96
2	897.2	14.0	23	40	67	250	6.0	1.0	1.8	250	6.00
3	898.2	16.9	36	45	81	473	20.	1.0	2.8	473	20.00
4	899.2	15.6	33	58	91	399	29.	1.0	3.8	399	29.00
5	900.2	17.3	25	49	74	336	12.	1.0	4.8	336	12.00
6	901.2	17.4	28	62	90	373	8.6	1.0	5.8	373	8.60
7	902.2	20.2	23	55	78	360	67.	1.0	6.8	360	67.00
8	903.2	19.0	22	51	73	324	43.	1.0	7.8	324	43.00
9	904.2	15.9	22	65	87	271	Imp.	1.0	8.8	271	0.00
10	905.2	12.6	22	70	92	215	12.	1.0	9.8	215	12.00
11	906.5	15.8	24	48	72	294	1.7	1.2	11.0	353	2.04
12	907.5	8.3	18	64	82	116	Imp.	1.0	12.0	116	0.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III - B

Company	Gordon Willis	Lease	Gentry	Well No.	1
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
896.0 - 903.8	7.8	24.5	190.56		
903.8 - 907.0	3.2	4.4	14.04		
896.0 - 907.0	11.0	18.6	204.60		

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
896.0 - 903.8	7.8	16.9	28.2	50.2	365	2,852
903.8 - 908.0	4.2	13.3	21.6	61.1	227	955
896.0 - 908.0	12.0	15.6	25.9	54.0	317	3,807