



OILFIELD RESEARCH LABORATORIES

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

August 31, 1978

Walter D. Wells, Jr., Inc.
7757 San Felipe Road
Suite 200
Houston, Texas 77063

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Carpenter Lease, Well No. 11, Allen County, Kansas, and submitted to our laboratory on August 25, 1978.

This core was sampled by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

BPR:cb

5 c to Houston, Texas
1 c to Chanute, Kansas

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GENERAL INFORMATION & SUMMARY

Company Walter D. Wells, Jr., Inc. Lease Carpenter Well No. 11

Location NW

Section 30 Twp. 26S Rge. 20E County Allen State Kansas

Name of Sand	-		Bartlesville
Top of Core	-	(Received)	764.0
Bottom of Core	-	(Received)	783.5
Top of Sand	-	(Received)	764.0
Bottom of Sand	-	(Received)	783.5
Total Feet of Permeable Sand	-	-	18.6
Total Feet of Floodable Sand	-	-	-

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 25	2.4	2.4
125 - 200	5.0	7.4
200 - 300	5.5	12.9
300 - 350	4.5	17.4
350 & Above	1.2	18.6

Average Permeability Millidarcys	-		222.1
Average Percent Porosity	-	-	20.2
Average Percent Oil Saturation	-	-	24.5
Average Percent Water Saturation	-	-	56.1
Average Oil Content, Bbls./A. Ft.	-	-	383.
Total Oil Content, Bbls./Acre	-	-	7,130.
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	-	-	-

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- LOG -

Company Walter D. Wells, Jr., Inc. Lease Carpenter Well No. 11

<u>Depth Interval, Feet</u>	<u>Description</u>
764.0 - 765.2	Dark brown sandstone.
765.2 - 766.6	Gray and brown laminated very shaly sandstone.
766.6 - 771.4	Dark brown sandstone.
771.4 - 775.9	Brown slightly shaly sandstone.
775.9 - 776.8	Gray sandy shale.
776.8 - 783.5	Light brown slightly shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Walter D. Wells, Jr., Inc.

Lease Carpenter

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 in.
			Oil	Water			Ft.	Cons. Ft.		
1	764.7	14.1	15	69	163	346.	1.2	1.2	196	415.20
2	765.7	16.9	39	44	511	3.7	1.4	2.6	715	5.18
3	766.7	23.4	31	33	563	141.	0.4	3.0	225	56.40
4	767.5	21.2	44	29	724	184.	1.0	4.0	724	184.00
5	768.5	20.5	40	38	636	280.	1.0	5.0	636	280.00
6	769.5	22.1	47	33	806	241.	1.0	6.0	806	241.00
7	770.5	20.7	35	44	562	319.	1.4	7.4	787	446.60
8	771.5	21.1	22	57	360	146.	0.6	8.0	216	87.60
9	772.4	19.9	26	62	401	277.	1.0	9.0	401	277.00
10	773.5	20.5	23	61	366	187.	1.0	10.0	366	187.00
11	774.5	19.4	37	51	557	126.	1.0	11.0	557	126.00
12	775.5	22.4	19	64	330	301.	0.9	11.9	297	270.90
13	777.5	21.0	14	65	228	364.	1.2	13.1	274	436.80
14	778.5	21.5	13	70	217	277.	1.0	14.1	217	277.00
15	779.5	21.5	10	70	167	23.	1.0	15.1	167	23.00
16	780.5	20.1	8	70	125	184.	1.0	16.1	125	184.00
17	781.5	22.1	8	67	137	301.	1.0	17.1	137	301.00
18	782.5	20.3	12	69	189	221.	1.5	18.6	284	331.50

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Walter D. Wells, Jr., Inc.		Lease	Carpenter	Well No.	11
Depth Interval, Feet	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
764.0 - 771.4	764.0 - 771.4	7.4	220.1	1628.38		
771.4 - 783.5	771.4 - 783.5	11.2	223.4	2501.80		
764.0 - 783.5	764.0 - 783.5	18.6	222.1	4130.18		

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
764.0 - 771.4	7.4	19.3	35.8	43.1	553	4,089
771.4 - 783.5	11.2	20.9	17.0	64.7	272	3,041
764.0 - 783.5	18.6	20.2	24.5	56.1	383	7,130