

OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

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CHANUTE, KANSAS
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October 4, 1962

Mack C. Colt
Iola, Kansas

Dear Sir:

Enclosed herewith are the results of tests run on the Rotary core samples taken from the Harris Lease, Well No. Q-23, Allen County, Kansas, and submitted to our laboratory on September 13, 1962.

This core was sampled and the samples sealed in cans by a representative of the client.

The log enclosed in this report was submitted to us by the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Fred O. Stenger

FOS:rf

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Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company	Mack C. Colt	Lease	Harris	Well No.	Q-23
Location	408' South of North line & 982' East of West line, W $\frac{1}{2}$ NE $\frac{1}{4}$				
Section	4	Twp.	25S	Rge.	21E
		County	Allen		State Kansas
Name of Sand	- - - - -				Bartlesville
Top of Core	- - - - -				725.0
Bottom of Core	- - - - -				761.3
Top of Sand	- - - - -				734.0
Bottom of Sand	- - - - -				758.0
Total Feet of Effective Permeable Sand	- - - (Analyzed) - - -				9.0
Total Feet of Floodable Sand	- - - - -				-
Distribution of Effective Permeable Sand:					
Permeability Range Millidarcys	Feet	Cum. Ft.			
1 - 10	3.0	3.0			
10 - 15	3.0	6.0			
15 & above	3.0	9.0			
Average Permeability Millidarcys	- - (Effective) - - -				11.3
Average Percent Porosity	- - - - -				21.4
Average Percent Oil Saturation	- - - - -				30.1
Average Percent Water Saturation	- - - - -				52.2
Average Oil Content, Bbls./A. Ft.	- - - - -				498.
Total Oil Content, Bbls./Acre	- - - - -				
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	- - - - -				1,085.7

CORE DESCRIPTION

HARRIS Q-23

725.0 - 725.9	Underclay lt gry
725.9 - 727.0	Sh lt gry ds
727.0 - 733.3	Siltst lt gry interl & interb w/gry sh
733.3 - 734.0	Sh lt→med gry interl & interb w/wh siltst
734.0 - 736.2	Ss greasy vy fn sub / grs fr→gd st cryst tite sl contain w/argill material <u>C-1 736.2 - 736.45 ?</u>
736.2 - 737.0	Ss vitr vy fn sub / grs <u>lt st</u> interl w/abund thin siltst & mica sh ptngs
737.0 - 743.6	Ss greasyvy fn sub / grs well sted <u>gd st & sat friable</u> vy sl calc <u>C-2 737.0 - 737.3; C-3 741.0 - 741.3</u>
743.6 - 746.8	Ss greasy vy fn sub / grs fr st interb & interl w/thin mica & sh ptngs up to 1" <u>C-4 743.6 - 743.9; C-5 746.0 - 746.3</u>
746.8 - 749.45	Ss vitr vy fn sub / grs lt st interb & interbanded w/wh siltst & gry sh
749.45 - 752.0	Ss drab fn→med sub / grs por poorly sted <u>lt st</u> badly intl contain w/lt tan argill material sl calc w/small vert fract from 749.45 - 752 <u>C-6 750.0 - 750.3</u>
752.0 - 755.4	Ss as above except interb & interl w/sh ptngs & coaly stringers some small vert fract from 753.35 - 753.65 <u>C-7 752.0 - 752.3</u>
755.4 - 758.4	Ss like above interb & interbanded w/wh siltst & dk gry sh ptngs fr st in sd w/2" of alty sd in vy basal 2" <u>C-8 755.4 - 755.7; C-9 757.7 - 758.0</u>
758.4 - 759.7	Coal hd
759.7 - 761.3	Underclay lt gry Lost 1'30" sh

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Mack C. Colt Lease Harris Well No. Q-23

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		Total			Ft.	Cum. Ft.		
			Oil	Water							
1	734.1	20.0	38	35	73	589	1.42	1.0	1.0	589	1.42
2	737.1	19.3	41	48	89	613	19.15	1.0	2.0	613	19.15
3	741.1	20.7	42	49	91	674	16.80	1.0	3.0	674	16.80
4	743.7	23.8	31	60	91	573	7.60	1.0	4.0	573	7.60
5	746.1	22.6	35	39	74	614	15.00	1.0	5.0	614	15.00
6	750.1	19.9	9	87	96	139	12.09	1.0	6.0	139	12.09
7	752.1	23.4	22	51	73	399	12.70	1.0	7.0	399	12.70
8	755.7	21.2	25	53	78	411	11.60	1.0	8.0	411	11.60
9	758.1	21.4	28	48	76	466	5.51	1.0	9.0	466	5.51

(Effective)

(Effective)

SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

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