

OILFIELD RESEARCH LABORATORIES

· REGISTERED ENGINEERS ·

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August 27, 1962

Mack C. Colt
Iola, Kansas

Dear Sir:

Enclosed herewith are the results of tests run on the Rotary core samples taken from the Newton (KBC Project), Well No. 1-AO, Allen County, Kansas, and submitted to our laboratory on August 18, 1962.

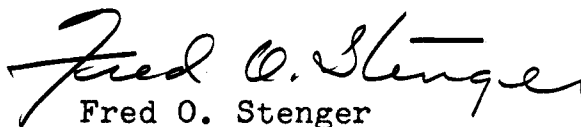
This core was sampled and the samples sealed in cans by a representative of the client.

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

2 c.

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GENERAL INFORMATION & SUMMARY

Company	<u>Mack C. Colt (KBC Project)</u>	Lease	<u>Newton</u>	Well No.	<u>1-A0</u>
Location	<u>165' from West line & 220' from South line W$\frac{1}{2}$ NW$\frac{1}{4}$</u>				
Section	<u>34</u>	Twp.	<u>24S</u>	Rge.	<u>21E</u>
		County	<u>Allen</u>	State	<u>Kansas</u>
Name of Sand	-				Bartlesville
Top of Core	-				702.0
Bottom of Core	-				747.0
Top of Sand	-				712.4
Bottom of Sand	-				726.2
Total Feet of Effective Permeable Sand	(Analyzed)				3.0
Total Feet of Floodable Sand	-				-
Distribution of Permeable Sand:					
Permeability Range Millidarcys	Feet		Cum. Ft.		
0 - 0.50	3.0		3.0		
Average Permeability Millidarcys	(Effective)				0.326
Average Percent Porosity	-				15.8
Average Percent Oil Saturation	-				19.8
Average Percent Water Saturation	-				75.8
Average Oil Content, Bbls./A. Ft.	-				258.
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	-				1076.6

CORE DESCRIPTION

NEWTON 1A0

- 702.0 - 705.3 Sh lt gry min mica interl & interb w/wh → lt gry sltst w/local ans of weathered pelletic aid present
- 705.3 - 708 Sh lt gry sft sks
- 708 - 711.0 Sh lt gry ds min mica & slty pelletic aid scattered thru out
- 711.0 - 712.4 Sh lt gry slty mica interl & interb w/lt gry → wh sltst
- 712.4 - 713.45 Ss vitr med → cs sub / → sub rded grs lt st w/fr sat in places pores filled w/wh shly material tite has micro gran appearance resembles a dolo vert fracta 712.4 - 713.1
- 713.45 - 715.55 Ss greasy → drab fn → med sub / grs friable fr → gd sat per pores filled w/sft lt gry → grn clay badly contam w/sh & argill material w/sh stringers thruout some bleeding
C-1 713.70 - 714.0; C-2 715.55 - 715.85
- 715.55 - 717.1 Ss drab med → cs sub / → sub rded grs fr st & sat in upper part of it all badly contam w/grn sh material w/ptings of sft sh w/cs sd cemented in mtr & no st all al dolo w/mm blk carb fragment present thru out
- 717.1 - 720 Ss drab fn → med sub / grs friable por st looks fr but much of it is hidden by the contam in the pores & around the sd grs themselves badly intl contam w/sh & clay material pretty dolo interl & interb w/sft shly ptings w/few sd grs cemented in
C-3 717.30 - 717.60; C-4 719.7 - 720.0
- 720.0 - 722 Ss drab → vitr cs sub / → sub rded grs por poorly sted lt+st w/some isolated bleeding this seems to be a dolomitie sd when treated w/acid considerable free oils shows up vy badly intl centm w/sh & elastic material w/mm x ln faces thru out containing sh ptings bedding seems to be dipping some 10° - 15°
- 7220 - 723.0 Ls wh → lt tan micro gran contam w/wh & tan argill & aren material w/ptings carrying fr st & evidence of some bleeding bedding planes dipping 10° - 15°
C-5 722.70 - 723.0
- 723.0 - 726.2 Ss drab fn → med sub / grs lt+ st & sat which shows best after acid treatment por still badly contam intl, interl & interb w/sh ptings w/thin vert fracta scattered thruout
- 726.2 - 727.6 Sltst wh mica interb & interl w/lt gry sh
- 727.6 - 729.7 Sh lt gry ds al slty
- 729.7 - 730.8 Sltst lt gry → wh irreg & x-bed w/lt gry sh
- 730.8 - 732.0 Sh lt gry ds

CORE DESCRIPTION

NEWTON 1A0

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732.0 - 734.0	Sh lt gry interb & interbanded w/ss lt tan vy tite lt-fr st
734.0 - 736.1	Sh lt gry interl w/wh sltst & occas interb w/lt tan ss lt st
736.1 - 737.55	Coal bit
737.55 - 738.85	Underclay
738.85 - 743.3	Sh lt gry sl slty sks
743.3 - 744.9	Sh lt gry min mica interl & interb w/wh sltst & lt tan ss
744.9 - 747.0	Congl of small sh & clay pebbles in sh & carb mtr w/coaly stringers present

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Mack C. Colt (KBC Project) Lease Newton Well No. 1-AO

Sample No.	Depth, Feet	Effective Porosity Percent	(Effective)			(Effective)			Perm. Capacity Ft. X md.		
			Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	
			Oil	Water	Total			Ft.			Cum. Ft.
1	713.8	19.2	24	71	95	357	Imp.	1.0	1.0	357	0.00
2	715.7	13.9	3	91	94	32	Imp.	1.0	2.0	32	0.00
3	717.4	19.4	30	65	95	452	0.282	1.0	3.0	452	0.28
4	719.8	15.5	26	72	98	312	0.500	1.0	4.0	312	0.50
5	722.8	11.2	16	80	96	139	0.200	1.0	5.0	139	0.20

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Mack C. Colt (KBC Project)	Lease	Newton	Well No.	1-AO	
	Depth Interval, Feet	Feet of Core Analyzed	(Effective) Average Permeability, Millidarcys	(Effective) Permeability Capacity Ft. x Md.		
	713.7 - 723.0	3.0	0.326	0.98		
	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre
	713.7 - 723.0	5.0	15.8	19.8	75.8	258
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