

July 2, 1951

File: OC-2124

Re: Core Analysis
T & K Oil Company
Cockayne No. A Well 26-28-21
Walnut Field
Crawford County, Kansas

T & K Oil Company
P. O. Box 204
Pittsburgh, Kansas

Gentlemen:

Subject analysis is reflected by the attached
coregraph.

This well has penetrated the reservoir in an area
of evident poorly developed sand, the shale occurrence
in the zone of permeability between 414 and 425 feet is
20 percent or more.

It is our opinion that this well is of no value as
a water injection well due to the limited appearance of
the floodable sand in the section.

We have not attempted recovery calculations in this
report due to the limited effective zone represented.

Yours very truly,

PRODUCTION ENGINEERING LABORATORIES

RAA:rc

R. A. Armstrong, Jr

TWP 28S RGE 21E SEC 26

Oilfield Research Laboratories
RESULTS OF PERMEABILITY TESTS
TABLE I

Company T & K Oil Company Lease Cockayne Well No. A

Sample No.	Depth, Feet	Permeability Millidarcys		Feet of Core		Permeability Capacity Ft. x Md.
				Ft.	Cum. Ft.	
		Vert.	Horz.			
1	410.5	0.2	0.3			
2	411.5	0.1	0.4			
3	412.5	0.1	0.7			
4	413.5	0.4	0.4			
5	414.5	9.2	10.			
6	415.5	1.0	1.9			
7	416.5	3.7	11.			
8	417.5	3.1	10.			
9	418.5	1.3	8.9			
10	419.5	0.6	1.0			
11	420.5	1.9	4.4			
12	421.5	1.0	3.0			
13	422.5	3.5	3.4			
14	423.5	2.2	3.6			
15	424.5	2.2	2.3			

Oil Field Research Laboratories

RESULTS OF SATURATION TESTS

TABLE III

Company T & K Oil Company Lease Cockeyne Well No. A

Sat. No.	Depth, Feet	Effective Porosity Percent	Percent Saturation		Oil Content Bbls./A. Ft.	Feet of Core		Total Oil Content Bbls./Acre
			Oil	Water		Ft.	Cum. Ft.	
1	410.5	20.2	3.0	58.4				
2	411.5	19.8	3.0	57.6				
3	412.5	18.9	3.2	56.1				
4	413.5	16.4	14.6	57.3				
5	414.5	18.8	35.6	35.6				
6	415.5	17.4	28.2	47.1				
7	416.5	20.4	27.9	36.3				
8	417.5	17.7	28.2	34.5				
9	418.5	17.8	44.4	33.1				
10	419.5	18.9	27.0	41.3				
11	420.5	18.0	41.7	25.6				
12	421.5	16.2	49.4	29.6				
13	422.5	16.8	33.9	36.3				
14	423.5	20.2	33.2	31.2				
15	424.5	18.5	35.2	27.0				

Formation Name Bartlesville Depth 408 to 425 feet Core Recovery 100%

Average of determined values:

Permeability H 5.4 mdcys.
 V 2.7

Porosity 18.2 percent

Oil saturation 35.0 percent

Water saturation 34.3 percent